TETRA TECH

Matt Villicana
Project Manager

January 16, 2018

Mr. Leonard Zintak
Mr. Robert Kondreck
On-Scene Coordinators
U.S. Environmental Protection Agency Region 5
77 W. Jackson Boulevard
Chicago, Illinois 60604

Subject: **Letter Report for Emergency Response Activities**
at the Bubbly Creek Mystery Spill
Revision 1
EPA Contract No. EP-S5-13-01
Technical Direction Document No. S05-0004-1710-010
Document Tracking No. 2257

Dear Mr. Zintak and Mr. Kondreck:

Under Superfund Technical Assessment and Response Team (START) Contract No. EP-S5-13-01, Technical Direction Document (TDD) No. S05-0004-1710-010, the U.S. Environmental Protection Agency (EPA) tasked Tetra Tech, Inc. (Tetra Tech) to provide support during emergency response (ER) activities at the Bubbly Creek Mystery Spill site located in Chicago, Cook County, Illinois.

As part of ER activities, Tetra Tech completed a health and safety plan, collected surface water samples, and documented site activities.

The following sections of this letter report discuss the site location, site history, emergency response activities, and surface water sample results.

Appendix A provides the figures for this letter report. Appendix B provides START Field Notes. Appendix C provides representative photographs of site conditions and response activities conducted at the site. Appendix D is an Analytical Summary Table. Appendix E provides the Data Validation Report for the data packages received for this incident. Appendix F provides the environmentally preferred practices performed as a part of this TDD. Attachment 1 provides the laboratory data packages from the surface water and sheen net samples collected at the site.

SITE LOCATION

The Bubbly Creek Mystery Spill is located at Mile Marker 321 of the Chicago River, which is the intersection of the South Branch of the Chicago River, Bubbly Creek (South Fork of the Chicago River), and the Chicago Sanitary and Ship Canal (Figure 1). EPA, the Emergency Rapid Response Service (ERRS) contractor, and START set up staging for the response at Park #571 (Figure 2). The affected waterways consisted of Bubbly Creek extending from the South Branch of the Chicago River to W. Pershing Road, the Chicago Yacht Works marina located in the Chicago Sanitary and Ship Canal (CSSC) at S. Ashland Avenue, and inlet of the South Branch of the Chicago River located between S. Ashland Avenue and S. Laflin Street (Figure 2).

SITE HISTORY

On October 25, 2017, EPA was notified through National Response Center (NRC) reports 1194231 and 1194307 of an unknown amount and type of oil impacting mile marker 321 of the Chicago River. The City of Chicago and the Metropolitan Water Reclamation District of Greater Chicago (MWRD) initially investigated the spill. On October 26, 2017, EPA attempted to determine the origin of the oil spill by investigating the South Fork of the Chicago River (a.k.a. Bubbly Creek), South Branch of the Chicago River, and the CSSC with MWRD. However, oil was only found in Bubbly Creek and the CSSC (see Figure 2). Oil and sheen appeared to have been originating from Bubbly Creek based on the quantity of product observed in the creek versus other locations.

EMERGENCY RESPONSE ACTIVITIES

This section summarizes emergency response activities conducted by EPA, START, ERRS, and other agencies at the Bubbly Creek Mystery Spill by date.

October 26, 2017

START and ERRS personnel were mobilized to the site on October 26, 2017. START collected a surface water and an oil sheen net sample (CRMS-SW-01-102617) from a pier by the Park #571 Boathouse (pier), where oil had accumulated. The sample was collected to document impacts to the waterway, create a waste profile for disposal, and determine the characteristics of oil (i.e., diesel, gasoline, etc.). The surface water sample was hand delivered to TestAmerica Laboratory in University Park, Illinois for analysis of volatile organic compounds (VOC), semivolatile organic compounds (SVOC), polychlorinated biphenyls (PCB), Resource Conservation and Reclamation

Act (RCRA) 8 metals, flashpoint, and total organic halogens (TOX). An oil sheen net sample was also collected from the Park #571 Boathouse pier (pier). The oil sheen net sample was shipped to the U.S. Coast Guard Marine Safety Laboratory (MSL) in New London, Connecticut for forensic oil fingerprinting analysis.

ERRS mobilized personnel and equipment, including two boats, to contain and recover the oil. ERRS placed hard containment boom and sorbent boom at the confluence of Bubbly Creek, South Branch of the Chicago River, and the CSSC. The pier and seawall were also surrounded by containment and sorbent boom to prevent further spread of oil in the area. ERRS began cleanup of oil using adsorbent pads around the pier. Oil and oil-contaminated debris surrounding the pier were placed in bags and disposed of in a 20-yard roll-off box. Caution tape was placed around the pier and supported by fenceposts and cones to alert the public of the oil.

While on site, EPA, START, and ERRS personnel observed two Canada geese impacted by oil. Reports from the community indicated the potential for additional wildlife impacts. The U.S. Fish and Wildlife Service (USFWS) was notified of the impacts to wildlife by staff at Park #571 and separately by EPA when impacts were observed.

October 27, 2017

ERRS worked to recover oil from pockets west of the confluence of Bubbly Creek on the CSSC and at the pier. Oil was not located upstream on the South Branch of the Chicago River. Oil absorbent pads were used to recover oil from the pockets observed west of the confluence of Bubbly Creek, near the Chicago Yacht Works marina, and at the pier.

Because TestAmerica could not analyze the October 26 water sample for TOX and needed additional volume for PCBs, START collected a single surface water sample from the pier (CRMS-SW-01-102717). The sample was hand delivered to STAT Analysis in Chicago, Illinois for TOX and PCB analysis.

U.S. Department of Agriculture (USDA) Wildlife Services personnel under a joint agreement with USFWS were on site to deter birds from entering the spill area, assess wildlife for oil impacts, and recover impacted wildlife. Bird deterrent measures included the use of reflective Mylar tape and pyrotechnics. One dead Canada goose, one impacted Canada goose, and one impacted turtle were recovered. The impacted Canada goose and turtle were eventually taken to the Flint Creek wildlife

rehabilitation facility in Barrington, IL to be rehabilitated. Two blue herons and six Canada geese were also observed to be impacted, but USFWS and USDA personnel were not able to capture them.

October 28, 2017

ERRS continued working to recover oil at the pier, the Chicago Yacht Works marina, and near the MWRD pumping facility. ERRS personnel replaced sorbent boom surrounding the pier and continued using oil absorbent pads to recover the oil from the impacted areas near the pier. Absorbent boom was placed around the boats at the Chicago Yacht Works; however, the boom was detached due to moving boats in and out of the area for winter storage. Absorbent pads were used to remove oil within and around the boomed area. ERRS personnel began to place absorbent pads at the southern terminus of Bubbly Creek near the MWRD pumping station after the accumulation of oil was noticed. ERRS received a second 20 cubic-yard dumpster at the site to store the trash bags full of spent absorbent pads, sorbent boom, and impacted debris. Personnel from the USFWS and USDA were also present on site to continue hazing birds from the spill area and recovering impacted wildlife.

October 30, 2017

ERRS personnel continued cleanup work at the pier. By the end of the day, the dense oil had been removed from the area surrounding the pier. A light sheen remained from residual oil on rocks and the pier. In an effort to reduce the remaining sheen and prevent further sheening, ERRS personnel power washed to clean the residual oil from the rocks and pier. The residual oil that was cleaned from the rocks was then recovered using absorbent pads.

While ERRS continued cleaning and recovering oil at the pier, EPA and START surveyed the CSSC and Bubbly Creek for remaining pockets of oil. The only pockets of oil observed were located at the Chicago Yacht Works marina and along Bubbly Creek with the majority at the southern terminus of Bubbly Creek, next to the MWRD pump station. Where needed, sorbent boom was placed around pockets of oil to recover and prevent the migration of the oil pockets.

USFWS and USDA personnel were on site to continue hazing birds and recovering impacted wildlife. USFWS and USDA personnel demobilized from the site at the end of the day on October 30, 2017. In total, USFWS and USDA personnel collected the following dead animals: one Canada

goose, one seagull, four turtles, and 43 fish. The USFWS and USDA also recovered one impacted Canada goose and two impacted turtles, which were eventually taken to the Flint Creek wildlife rehabilitation facility in Barrington, Illinois to be cleaned.

October 31, 2017

ERRS personnel continued using the power washer to clean the rocks and pier of residual oil. The sorbent boom at the Chicago Yacht Works marina was recovered and disposed of after the oil pocket and sheen was no longer observed at the marina. ERRS personnel then started recovering oil from the southern terminus of Bubbly Creek after accumulated oil was discovered on October 30, 2017.

At the request of EPA, START collected two additional surface water samples from Bubbly Creek. The first sample (CRMS-SW-02-103117) was collected from the southern terminus of Bubbly Creek, near the MWRD pump station. The second sample (CRMS-SW-03-103117) was collected from an area near the middle between the southern terminus of Bubbly Creek and its confluence with the South Branch of the Chicago River and CSSC. Samples were collected to document the impacts the spill caused to the waterways. The sample locations can be viewed on Figure 2. Both samples were hand delivered to TestAmerica Laboratory for VOC, SVOC, PCB, and RCRA 8 metals analyses, and to STAT Laboratory for TOX analysis.

November 1, 2017

ERRS personnel continued using the power washer to clean the rocks and pier of residual oil. ERRS personnel also conducted inspections of the CSSC around the Chicago Yacht Works marina to look for remaining pockets of oil, but did not find any. As a result, ERRS crews focused on recovering the remaining oil pocket at the southern terminus of Bubbly Creek. Additional pockets of oil had migrated towards the confluence of Bubbly Creek with the South Branch of the Chicago River and the CSSC; however, the oil pockets were contained by the sorbent and hard boom. The oil was recovered with sorbent boom and absorbent pads, which were then disposed of.

November 2, 2017

ERRS continued to recover oil that had been stopped by the boom at the confluence of Bubbly Creek with the South Branch of the Chicago River and the CSSC. ERRS also had a crew removing impacted vegetation from the Bubbly Creek shores, which was then bagged and disposed of. ERRS

pulled the hard boom that had been placed around the pier, which was cleaned with the pressure washer as it was removed. Residual oil that came off the boom as it was being cleaned was recovered by absorbent pads.

A citizen reported an oil pocket in an inlet between S. Ashland Avenue and S. Laflin Street (inlet). EPA, START, and ERRS took a boat to inspect the area and observed a pocket of oil, approximately 85 feet by 10 feet, located at the northern terminus of the inlet. ERRS contained the oil by placing hard and sorbent boom across the inlet.

November 3, 2017

ERRS continued to remove impacted vegetation from the Bubbly Creek shores, which was bagged and disposed of. ERRS also had two crews working to remove impacted debris and vegetation from the oil pocket observed at the northern terminus of the inlet.

At the request of EPA, START collected a surface water and oil sheen net sample (CRMS-SW-04-110317) from the oil pocket in the inlet. The purpose of collecting the sample was to determine if the inlet oil was the same type as the other oil recovered. The sample was hand delivered to TestAmerica Laboratory for VOC, SVOC, PCB, and RCRA 8 metals analyses and STAT Laboratory for TOX analysis. An oil sheen net sample was shipped to the US Coast Guard Marine Safety Laboratory for a comparative analysis to the previous oil sheen net sample collected on October 26, 2017.

ERRS personnel removed the sorbent boom and caution tape around pier. Full public access to the pier was granted starting the afternoon of November 3, 2017.

November 6, 2017

A third 20 cubic-yard dumpster was delivered to the site. ERRS focused its efforts on removing the oil-impacted debris and vegetation from the inlet. A single ERRS crew also finished removing impacted vegetation from Bubbly Creek in the morning, and then assisted with the cleanup in the inlet. A total of 24 bags of vegetation was removed from Bubbly Creek. ERRS started recovering oil from the areas that had been cleared of debris and vegetation by placing absorbent pads on the water surface.

November 7, 2017

ERRS finished removing the oil-impacted debris and vegetation from within the S. Ashland Avenue and S. Laflin Street inlet. Once all the impacted debris and vegetation was removed from the inlet, ERRS placed additional absorbent pads to recover all the oil from the inlet. An ERRS crew removed the hard and sorbent boom from across Bubbly Creek at the confluence with the South Branch of the Chicago River and CSSC. The sorbent boom was bagged and disposed of in dumpsters, and the hard boom was cleaned with the pressure washer as it was removed from the water. Residual oil from the hard boom was contained and recovered with absorbent pads.

Two 20 cubic-yard dumpsters were picked up and taken to the Waste Management Laraway Facility in Joliet, Illinois for disposal as non-hazardous waste.

November 8, 2017

ERRS removed the absorbent pads and sorbent boom from the inlet, which were bagged and disposed of in the remaining dumpster. The hard boom was removed from the inlet and cleaned with a pressure washer as it was removed from the water. Residual oil from the boom was contained and recovered using absorbent pads, which were bagged and disposed of in the dumpster. Boats used during the cleanup were decontaminated using the pressure washer. The oil was recovered using absorbent pads. All personnel demobilized from the site leaving a single 20 cubic-yard dumpster, which were picked up for disposal at the Waste Management Laraway Facility in Joliet, Illinois on November 9, 2017.

ANALYTICAL RESULTS

Surface Water Sample Analytical Results

Results from the surface water samples indicated the presence of several VOCs, SVOCs, and metals. The sample results were compared to surface water standards, specific to Bubbly Creek, which are located in Title 35, Subtitle C, Chapter I, Part 302, Section 302.407 of the Illinois Administrative Code. Samples CRMS-SW-01-102617, CRMS-SW-03-103117, and CRMS-SW-04-110317 did not have any compounds detected greater than Chicago Area Waterway System Water Quality Standards. Sample CRMS-SW-02-103117 detected lead and mercury at concentrations greater than the water quality standards. None of the samples had any detections

for TOX or PCBs. The Data Validation Report for the laboratory data packages is presented in Appendix E and the full laboratory data packages are presented in Attachment 1.

Oil Sheen Net Sample Analytical Results

Results from the oil fingerprinting analyses, conducted on the two sheen net samples by the US Coast Guard Marine Safety Laboratory, indicate the spilled oil consisted of moderately weathered light fuel oil mixed with lubricating oil. Furthermore, the results indicated that the sample collected at the pier consisted of the same oil as from the inlet. US Coast Guard Marine Safety Laboratory Reports 18-021-1 and 18-025-1 are presented in Attachment 1.

This letter report serves as the final deliverable for this TDD, and Tetra Tech anticipates no further emergency response activities. If you have any questions or comments regarding this report, please contact me at (312) 201-7430.

Sincerely,

Matt Villicana
Project Manager

Appendices:
A – Figures
B – Field Notes
C – Photographic Documentation Log
D – Analytical Summary Table
E – Data Validation Report
F – Environmentally Preferred Practices

Attachments
1 – Laboratory Data Packages
2 – National Response Center Reports

APPENDIX A

Figures

APPENDIX B

Field Notes

TETRA TECH

APPENDIX C

Photographic Documentation Log

TETRA TECH

APPENDIX D

Analytical Summary Table

TETRA TECH

APPENDIX E

Data Validation Report

TETRA TECH

APPENDIX F

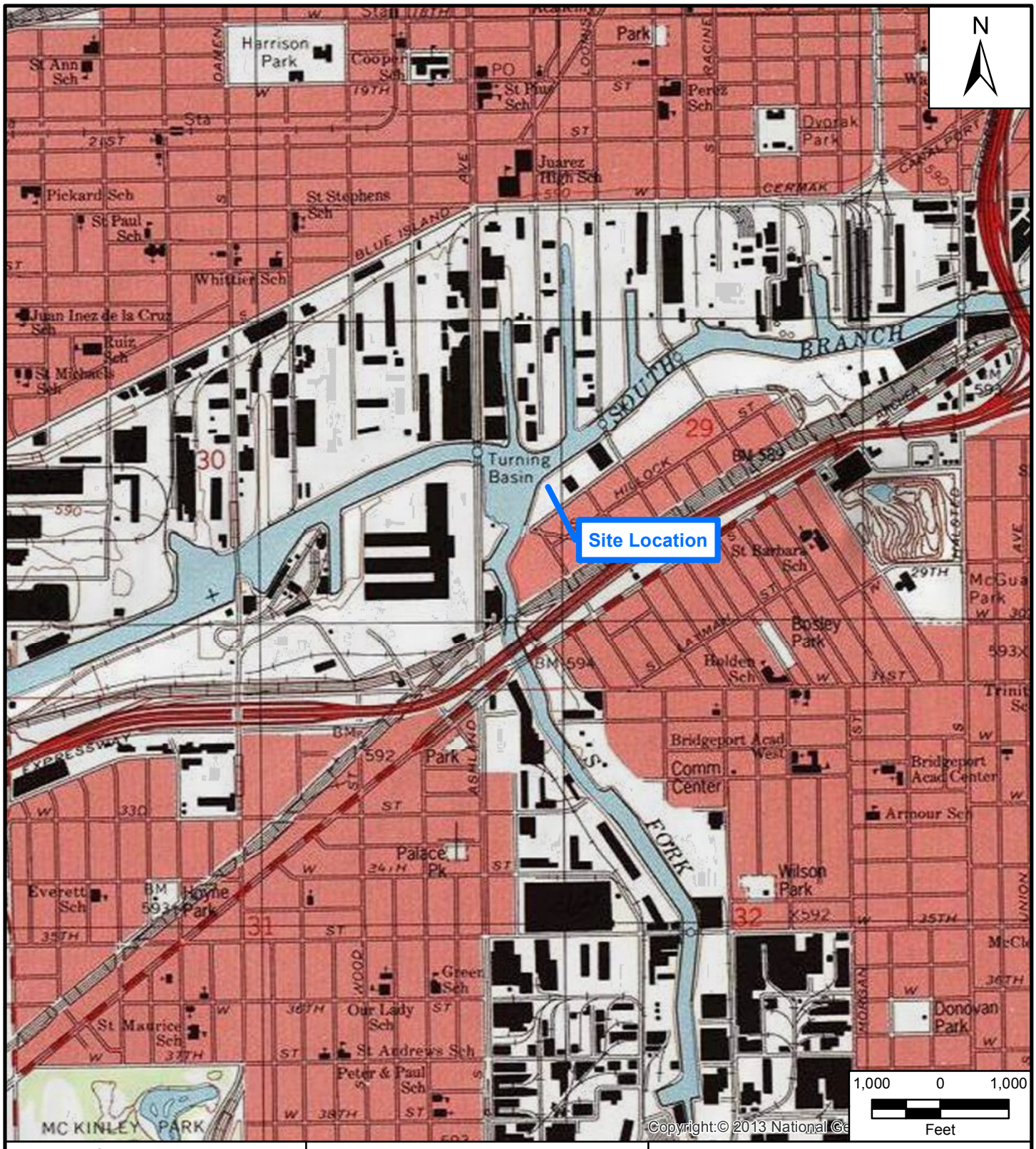
Environmentally Preferred Practices

TETRA TECH

ATTACHMENT 1

Laboratory Data Packages


TETRA TECH



Reference Map

Source: Modified from USGS, Englewood, Illinois 7.5-Minute (1:24,000 Scale) Topographic Map, 1999.

Bubbly Creek Mystery Spill
Chicago, Illinois

Figure 1

Site Location Map

TETRA TECH

Prepared For: USEPA	Prepared By: Tetra Tech, Inc.

File Path: G:\G\G9026-START IV\Illinois\Bubbly Creek Mystery Spill\MXD\Fig1_SiteLocation.mxd

Date Saved: 11/17/2017

EPA Contract No.: EP-S5-13-01 TDD No.: S05-0004-1710-010 Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere Projection: Mercator Auxiliary Sphere Datum:WGS 1984 Units: Meter

Inset 1

SW-04

© 2018 Microsoft Corporation
© 2018 DigitalGlobe ©CNES (2018) Distribution Airbus DS
© 2018 HERE

bing

N

SW-04

See Inset 1

Chicago Yacht Works

South Branch of the Chicago River

See Inset 2

Chicago Sanitary and Ship Canal

South Branch Chicago River

SW-01

Inset 2

South Branch of Chicago River

SW-01

Park #571

© 2018 Microsoft Corporation © 2018 DigitalGlobe ©CNES (2018) Distribution Airbus DS © 2018 HERE

bing

W Marketplace Access Rd

CTA-Ashland-Orange Line

Stevenson Expy S

Stevenson Expy N

S Damen Ave

S Ashland Ave

W 31st St

W 32nd St

W 33rd St

W 34th St

W 35th St

W 36th St

W 37th St

W 38th St

S Archer Ave

South Fork of the Chicago River

A.K.A. Bubbly Creek

SW-03

Inset 3

MWRD Pumping Station

SW-02

© 2018 Microsoft Corporation © 2018 DigitalGlobe ©CNES (2018) Distribution Airbus DS © 2018 HERE

bing

See Inset 3

SW-02

Pepsiamericas

WM Wrigley Jr Company

Tripp-Lite

500 0 500

Feet

Reference Map

Legend

Sample Location

Approximate Boom Location

Source:

Bubbly Creek Mystery Spill
Chicago, Illinois

Figure 2

Site Layout Map

TETRA TECH

Prepared For: USEPA

Prepared By: Tetra Tech, Inc.

File Path: G:\G\G9026-START IV\Illinois\Bubbly Creek Mystery Spill\MXD\Fig2_SiteLayout.mxd

Date Saved: 1/12/2018

EPA Contract No.: EP-S5-13-01

TDD No.: S05-0004-1710-010

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere Projection: Mercator Auxiliary Sphere Datum:WGS 1984 Units: Meter

DEFYING
MOTHER NATURE®
SINCE 1916

All components of this product are recyclable.

Rite in the Rain
A patented, environmentally responsible, all-weather writing paper that sheds water and enables you to write anywhere, in any weather.

Using a pencil or all-weather pen, *Rite in the Rain* ensures that your notes survive the rigors of the field, regardless of the conditions.

J L DARLING LLC
Tacoma, WA 98424-1017 USA
www.RiteintheRain.com

Item No. 351FX
ISBN: 978-1-60134-186-6

Made in the USA
US Pat No. 6,863,940

Rite in the Rain®
ALL-WEATHER
FIELD
№ 351FX

Bubbly Creek
Mystery Spill ER

INCH

MADE IN TACOMA
— SINCE 1916 —
Rite in the Rain®
DEFYING MOTHER NATURE

Name _____

_____

Address _____

_____

Phone _____

Project _____

_____

_____

_____

RiteintheRain.com

CONTENTS

PAGE	REFERENCE	DATE

2 10/26/17

1115 START VILLICANA ARRIVED ON-SITE. WEATHER: 56°F, PARTLY CLOUDY, BREEZY FROM THE SSE 15 MPH. — AW
- START MOT w/ OSC KENDRICK.

1240 CRMS-SW-01-102617 COLLECTED AT BOAT DOCK — AW

1215 OSC ZINTAK + ERRS VILLANUEVA ARRIVED FROM BOAT RIDE w/ MWRD. — AW

1230 OSC ZINTAK RELEASED START TO GO DROP OFF SAMPLES AT LAB

1245 START VILLICANA OFF-SITE TO DROP OFF SAMPLES AT TOST AMERICA

10/26/17

10/27/17

Weather; Cloudy, high 47°F, winds WSW 15-25 mph — AW

0700 - START (NGUYEN) on site — AW
- ERRS on site — AW

0730 H+S conducted by ERRS — AW

0735 - OSC Kendrick on site — AW

0750 - daily goose found dead near boat house — AW

0750 - ERRS (5 team crew) prepping site + removing trash — AW

0810 - ERRS suiting up in tyvec — AW

0825 - ERRS deploying absorbant towel + scraping oil near dock — AW
- ERRS investigating oil pockets NW along Chicago River — AW

0855 OSC Zintak on site — AW

backlog media on site from 0700 to — AW

0925 ERRS removing tyvec, approximately 12 bags of skimmed oil removed on East side of dock — AW

0945 ERRS returns from West banner of Chicago river — AW

0950 Park representative on site — AW
- ERRS brings radios on site — JMS
- Restricted on site

Rite in the Rain

10/27/17

backlog	Chicago Park District Environmental lead at site at 0950 — AW
1000	ERRS securing site with snare fence — AW
	~~Fisheries + Wildlife~~ USDA Personnel onsite with boat — AW
1045	ERRS takes boat on West branch near ~~[illegible]~~ marina to collect bagged skimmed oil (6 bags) — AW
	START NOAA leaves site to inspect South branch of river — AW
1100	Sheen noted along South fork of Chicago River near W 33rd St — AW
1135	Sheen located in pockets on both E+W side of South Fork
1225	Resident onsite with ~~[illegible]~~ possible information on oil source — AW
backlog	START Vilicana onsite at 1200
	~~Fisheries~~ + Wildlife onsite at
1230	Fisheries + Wildlife headed through river to located ~~spotted~~ herring — AW
1300	ERRS breaks for lunch — AW
1330	ERRS resumes work — AW
backlog	START Vilicana offsite at 1225, collected additional sample at boat dock

10/27/17

1345	ERRS piling bags containing oil + oil coated debris — AW
1400	START Vilicana onsite — AW
1405	ERRS deploying additional booms on North side of boat dock — AW
1425	Fisheries + Wildlife returns to dock, ~~within~~ no wild life found — AW
	ERRS takes boat South — AW
	ERRS deploying hard boom around dock — AW
1500	ERRS doing tyvec to continue skimming oil on North side of dock — AW
	Fisheries + Wildlife shooting sound flares to ward off birds — AW
NOTE:	Media onsite - ABC 7, CBS2, WGN9, NBC5, Fox
1515	Fisheries + Wildlife heads out w/ ERRS to search for more affected wildlife — AW
1535	Fisheries + Wildlife return to dock with goose, ERRS heads out on boat to asses oil near Marina
1600	Fisheries + Wildlife offsite — AW
1625	START Vilicana offsite — AW
1635	ERRS returns from marina — AW
1640	OSC Zintak onsite — AW

10/27/17

1655 ERRS takes white booms to marina to contain oil — AW

1717 ERRS finishes skimming oil near dock for the day, approximately 20 bags of skimmed oil removed near dock

1720 ERRS returns from marina 7 bags & 8 branches

1730 ERRS putting up snow fence around dock

1745 OSC Zintak released START NGUYEN

10/28/17

0730 START NGUYEN on site, ERRS on site

Weather: Cloudy, high 42°F, Winds WNW 10 to 20 mph, 20% Chance rain, possible snow

0730 UIC Students Cleaning row boats near boat house — AW

0745 ERRS heading to marina to assess oil — AW

Media onsite: CBS

backlog: Fisheries & Wildlife onsite at 0700

0840 ERRS returns from marina with debris

0915 CBS offsite — AW

0925 ERRS returns from marina with bags

0945 ERRS begins to skim oil on North side of dock — AW

NOTE Oil near dock appears to be moving towards Northeast & contained within booms — AW

1000 START (NGUYEN) to investigate along West branch of Chicago river — AW

1040 Access at S. Western Ave Richard Daley Park, oil noted along S. side of river

1050 START to 571 boat house — AW

1130 ERRS continues to skim oil near dock

NOTE: ERRS crew of 5 onsite — AW

Rain in the Rain

10/28/17

Backlog OSC Zintek onsite at 0800 + offsite at 0945 —— AN

1130 ERRS using leaf blower to migrate oil to North side of dock —— AN

1200 ERRS breaks for lunch, approximately 10 bags removed from dock & 4 from marina - Fox 32 onsite —— AN

1230 Fisheries + Wildlife searching + bagging dead fish near dock —— AN

1250 ERRS returns from lunch —— AN

1320 ERRS, START, + Fish + Wildlife on boat to assess oil locations + search for wildlife —— AN

NOTE Issue with marinas, marina employees dismantle booms for boats without ERRS, START, or EPA consent —— AN

1330 light sheen noted in cove past Domen + light sheen noted East of Domen —— AN

1400 light packet of sheen on S side of river East of Domen, NO significant sheen or oil West of Western

1415 Sheen noted in cove on South side of river across scrapyard, ERRS notes debris is from marina when boats were moved, Sheen noted across from marina —— AN

10/28/17

1500 OSC Zintek onsite, ERRS, START, + Fish + Wildlife return from West branch of river —— AN

1505 CBS 2 news on site —— AN

1545 ERRS, START, Fish + Wildlife head out to investigate Bubbly Creek —— AN

1600 Black oil observed on West side of Bubbly Creek, Sheen noted through out Creek —— AN

1615 Black Stagnant oil noted on West side of Bubbly Creek near Maritime Museum

1620 Stag oil noted at end of Bubbly Creek, ERRS noted oil near pipes moved to end of Creek. Oil noted on pillars and pipes —— AN

1625 Black oil noted on Eastside near Maritime Museum —— AN

1630 ERRS replacing white booms along dock + disposing old booms —— AN
ERRS disposed of ~45 total bags
ERRS placed covering North side of dock with pads to absorb overnight

1700 ERRS cleaning up, bagging, remaining debris —— AN

1710 OSC Zintek releases START MONTEN

10/25/17

Rain in the Rain

10/30/17

0730 START NGUYEN onsite. ERRS onsite

backlog: H+S meeting conducted by ERRS at 0700

Weather: Partly cloudy, High 48°F, Winds W 20-30 mph, 10% chance rain ——— AN

0735 ERRS Crew of 4 prepares ~~Steam~~ Power washing to remove oil from rocks at boat dock

0740 US Coast Guard District Directorate Chief of Prevention onsite to discuss raising water levels from rain events + barge tracking app, offsite at 0750

0750 ERRS bagging + replacing old booms near dock ——— AN

0820 ERRS spraying oil covered rocks with Simple Green + continues to scrape + bag absorbent pads + debris ——— AN

0920 USDA Fish + Wildlife onsite ——— AN

backlog, Resident on site in parking lot at 0900 + offsite at 0930 ——— AN

0935 ERRS begins to pressure wash rocks near dock ——— AN

1020 Metropolitan Water Reclamation on site

1030 Metropolitan Water Reclamation offsite (Spitwalk + Milando) ——— AN

1040 ERRS spraying additional Simple Green on rocks & replacing old booms ——— AN

10/30/17

1045 Chicago Police onsite ——— AN

1055 Chicago Police offsite ——— AN

1110 OSC Kondeck on site ——— AN

1120 ERRS, START, + EPA investigate Chicago river up to Kedzie, little to no sheen found, oil near marina appears to have dispersed ——— AN

1220 ERRS, START, + EPA return to dock, ERRS power washing dock + re-applying Simple Green ——— AN

1230 ERRS replacing 8" white booms near bubbly creek, approximately 20 bags used for the old booms ——— AN

1245 ERRS breaks for lunch ——— AN

ERRS disposes 30 bags from dock + approximately 20 bags of boom ——— AN

1330 ERRS returns from lunch ——— AN

NOTE - ~~[illegible]~~ 1500' AN hard boom + ~~[illegible]~~ 3500' AN 8" boom used to date
- 40 bags of pads, 200 pads total used to date

1345 ERRS disposing 23 bags of boom from Bubbly Creek ——— AN

Fish + Wildlife, ERRS, + EPA head out to Bubbly Creek ——— AN

NOTE: expecting 10 rolls poly, 6 boxes tyvek, 5 cases of [illegible] 10 pdf, 200 pairs warm gloves

12 10/30/17

40 universal absorbent, 3x1 bags pads

1505 ERRS, EPA, Fish + Wildlife return from bubbly creek — RW

1940 UIC students onsite — RW

ERRS + START heads to wards southern end of bubbly creek to deploy absorbent booms — RW

1630 ERRS deploys boom at MWRD to contain oil, ERRS deploys absorbent pads + boom mgs within contained area

NOTE Supplies remaining to date
- 160 bags pads - 4 roll, plastic bags
- 5 bags of 8" absorbent booms
- 6 bags plastic white booms

1720 ERRS disposes 58 bags in total today

1730 OSC Kendreck releases START — RW

10/30/17

10/31/17 13

0700 START (NGUYEN) on site, ERRS (crew of 7)
OSC Kendreck onsite, ERRS crew of 13

Weather: Partly cloudy, High 42°F, Winds W 10-20 mph, 0% chance rain — RW

0705 H+S meeting conducted by ERRS

0805 CRMS-SW-02-103117 collected

0825 CRMS-SW-03-103117 collected

NOTE SW-02 + SW-03 collected from bubbly creek — RW

backlog 0715 START Vilicana onsite to collect SW samples — RW

0900 ERRS power washing rocks near dock — RW

0910 START Vilicana offsite to drop off samples at START LAB — RW
ERRS gathering small debris near rocks at dock — RW

backlog ERRS heads to pump station to collect remaining oil — RW

1045 ERRS placing absorbent pads near dock

1130 ERRS heads to bubbly Creek with pads (3 bags) + booms (2 bags)

1240 ERRS breaks for lunch — RW

1310 ERRS returns from lunch

1410 ERRS replacing absorbent boom at dock

Rite in the Rain

10/31/17

ERRS completes replacing absorbent 8" boom surrounding dock —— AN

-23 bags of boom used —— AN

backlog 1400 ERRS returns to bubbly creek to absorb oil near the pumping station

1545 ERRS disposes 23 bags total —— AN

ERRS returns from changing boom & girthening pads at pump station

-14 bags of boom used in bubbly creek

1630 ERRS bagging remaining old boom & cleaning up —— AN

-31 total bags disposed today

-37 bags boom used today

- bags of pads used today

1650 START OFFSITE —— AN

10/31/17

11/1/17

0700 START (NGUYEN), ERRS on site

H+S conducted by ERRS —— AN

Weather: High 40°F, Winds SSE 10-20mph, 70% chance rain after 1500, Cloudy

NOTE: ERRS crew of 8 on site —— AN

0720: ERRS prepping two boats to asses oil near pumping station & oil near front boom on bubbly creek

ERRS preps pressure washer to clean rocks at dock —— AN

0820 Two ERRS boat crews replacing front boom in bubbly creek & placing absorbent pads in NE corner —— AN

0830 OSC Zintak onsite —— AN

0915 ERRS spraying dock with simple green —— AN

1000 ERRS, START, EPA investigates bubbly creek for oil on vegetation

1015 ERRS, START, EPA investigate possible oil source at current facility, no oil or source found —— AN

1145 ERRS continues to recover oil near docks, bubbly creek boom, & pump station —— AN

EPA on site —— A

Rite in the Rain

11/1/17

1215 ERRS breaks for lunch — AW
1245 ERRS returns from lunch — AW
1300 ERRS continues to power wash dock
1330 Two boat crews assess oil near Front bubbly creek boom — AW
1345 ERRS deploys an additional absorbent boom on East side of bubbly creek boom
1400 OSC Kendreck onsite — AW
ERRS placing & removing absorbent pads near bubbly creek boom — AW
1435 ERRS replacing white absorbent 8" boom at bubbly creek (approximately
backlog ERRS completes recovering oil near pump station at 1200 — AW
1530 Light rain shower, ERRS placing absorbent pads near dock — AW
1630 ERRS continues to recover oil near bubbly creek boom — AW
NOTE Rain dispersing sheen near dock
1645 ERRS begins to secure & clean up site
OSC Kendreck offsite — AW
1700 START NGUYEN released by OSC Zimbrick — AW

11/1/17

11/2/17

0700 ERRS, START (NGUYEN), OSC Kendreck onsite — AW
Weather: Cloudy, high 52°F, Winds NNE 5 to 10 mph, 40% chance rain after 1300 — AW
0705 H&S meeting conducted by ERRS — AW
0715 ERRS prepares two boat crews to recover oil at bubbly creek boom & prepares to power wash hard boom at pier — AW
NOTE: Crew of 8 of ERRS on site — AW
0845 USCG Auxiliary (Gray) onsite — AW
0900 Three boat crews assessing oil in bubbly creek (~~1 boat cleaning vegetation away~~ ~~boom~~ 3 boats recovering oil near boom) — AW
0915 USCG Auxiliary (Gray) offsite — AW
1105 MWRD on site to discuss opening bubbly creek boom to allow access for MWRD to clean creek
backlog 1100 1 boat crew heads down bubbly creek to assess vegetation — AW
1110 MWRD offsite — AW
1120 ERRS replacing 8" absorbent boom in bubbly creek — AW
1200 ERRS breaks for lunch — AW

Rite in the Rain

11/2/2017

1245 ERRS returns from lunch, ERRS spraying boom with Power washer

1300 ERRS boat crew heads to 2400 S. Ashland, oil pool reported to EPA on 11/2/2017, second boat crew assessing oil on vegetation in bubbly creek

1330 Two boat crews assess oil at 2400 S. Ashland, approximately 8,400 sqft of oil

1430 1 boat crew returns to dock, unable to recover debris due to lack of skimmers + nets

1445 1 boat crew headed up bubbly creek to assess vegetation

backlog: ERRS deploys 3 bags of 8" absorbent boom to contain oil at 2400 S. Ashland

~~1630~~ 1600 ERRS returns from assessing portion of vegetation in bubbly creek, returns with 3 bags

ERRS removes + cleans containment boom surrounding dock + securing absorbent 8" boom to prow dock

1610 light rain

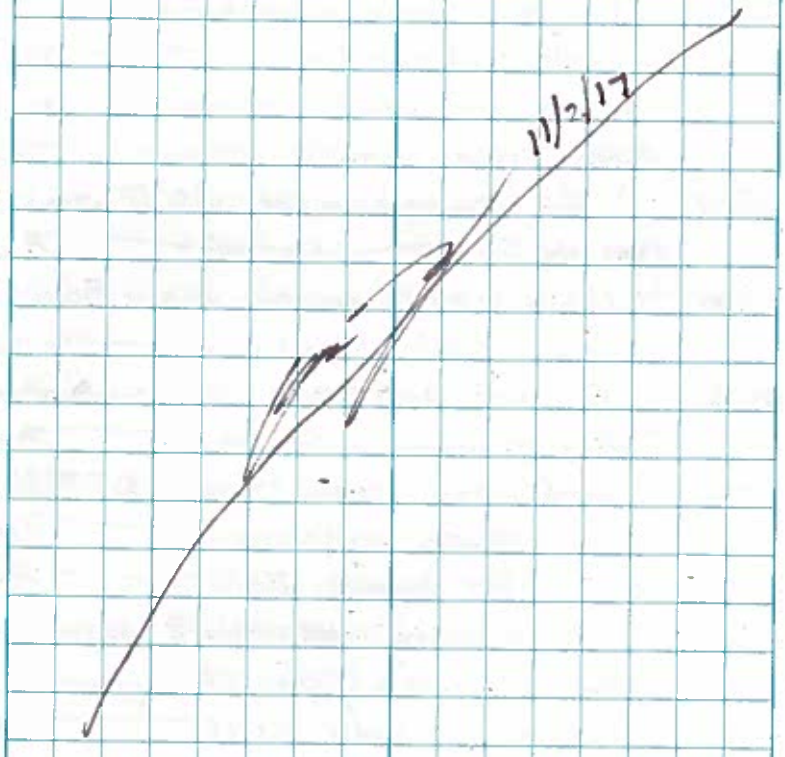
1620 ERRS returns from 2400 S Ashland

1650 ERRS disposing bags + securing site cont.

cont. ERRS disposed 59 bags total, 3 bags of vegetation, utilized 3 bags of boom + 13.5 bags of 8" boom

backlog: 1500, ERRS moves 8" absorbent boom to contain oil + debris along banks near 2400 S. Ashland, ERRS deployed 50' hard boom

1710 ERRS, START, EPA offsite



11/3/17

0700 ~~ERRS~~, OSC Kondrecic, START Nawrocki on site — AN

0650

Weather: High 47°F, Cloudy, Winds NNE 10-15 mph 10% chance of rain — AN

0700 H&S conducted by ERRS crew of 7 onsite

0715 ERRS preps boats for oil recovery, 2 boats to assess oil near 2400 S. Ashland + 1 boat for vegetation

0800 Two boat crews assess oil near 2400 S. Ashland — AN

0830 1 boat crew assess vegetation along Bubbly Creek with chainsaws — AN

0830 UCSG (Gracy) on site, OSC (Zintak) on site — AN

0930 Additional ERRS member on site, total crew of 8 + John on site — AN

0945 ERRS removing straw fence surrounding pier — AN

1000 1 boat crew returns from 2400 S. Ashland with 12 bags for disposal — AN

backlog: 0900 UCSG (Gracy) offsite — AN

1105 ERRS removing ~~containment~~ 8" absorbent boom surrounding pier. EPA approves removal for public access — AN

1120 MWRD onsite — AN

11/3/17

1140 All 3 boat crews return to pier
- 25 bags of oil + debris
- 4 bags of vegetation
- 11 bags old boom
- large pieces of debris

backlog: 0930 OSC Zintak offsite — AN

1150 MWRD offsite — AN

1200: ERRS, OSC Kondrecic, START investigate vegetation along Bubbly Creek — AN

1300 ERRS returns from lunch + prepares boats — AN

backlog: 1132 ERRS completes removing boom around dock — AN

1200 OSC Zintak onsite — AN

1330 OSC Zintak offsite — AN

1345 START Vilicana offsite — AN

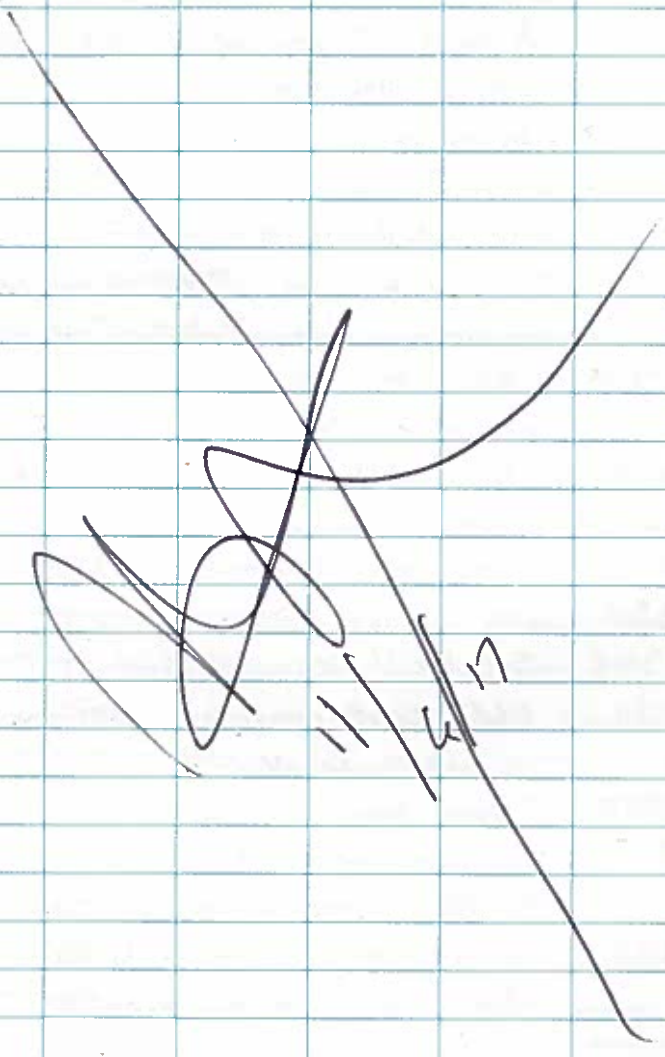
1430 ERRS reports possible oil in sand bar in bubbly creek — AN

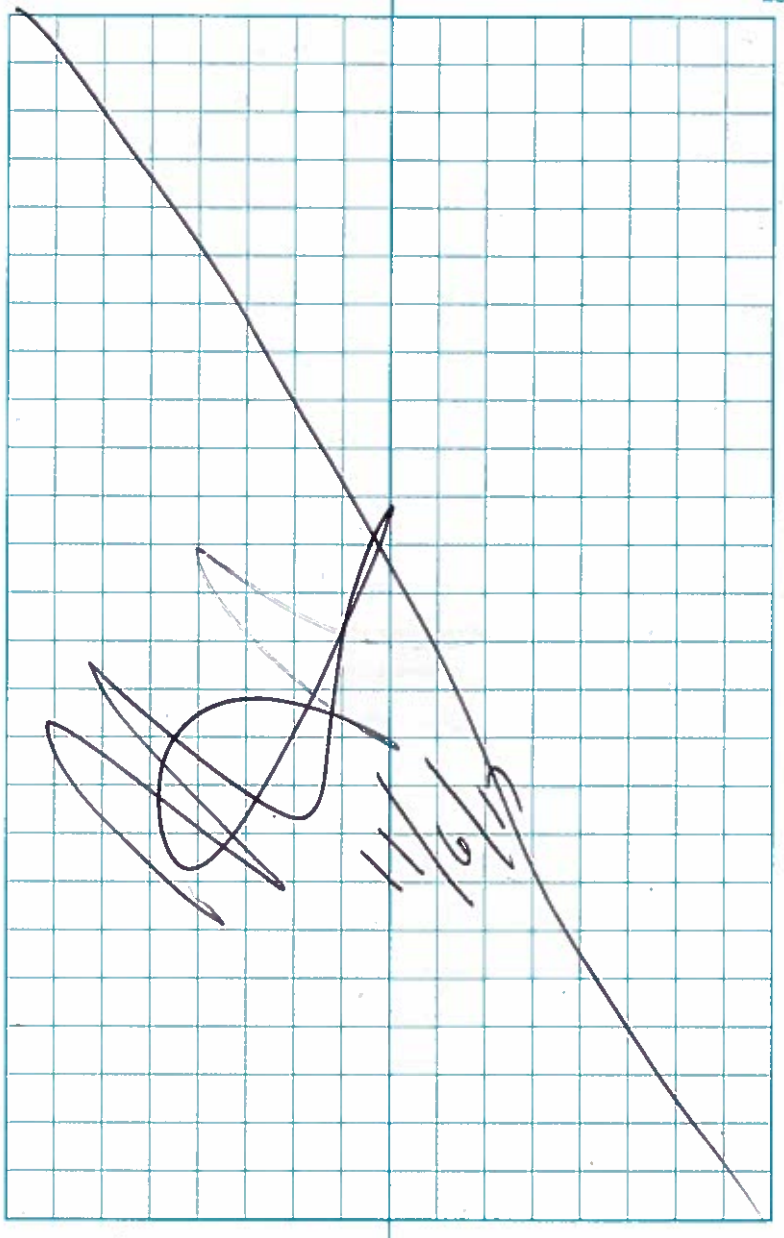
1515 1 boat crew returns from 2400 S. Ashland with 14 bags — AN

START preps to take SW sample

1535 CRMS-SW-04-110317 collected near 2400 S. Ashland Ave — AN

Rite in the Rain





11/6/17

0738 START VILLICANA ON-SITE. SOME MEMBERS OF ERRS ALREADY PRESENT. WEATHER 39°F, PARTLY CLOUDY, N WINDS @ 12 MPH.

0805 EPA OSC KONDRICK ARRIVED ON SITE

0815 ERRS SET OUT IN THE BOATS TO WORK ON A SMALL AREA IN BUBBLY CREEK & THE OFF-SHOOT BETWEEN ASHLAND & LAFLIN.

1005 A THIRD 20 CUBIC YARD ROLL OFF DUMPSTER WAS DELIVERED TO THE SITE.

1030 ONE OF THE BOATS CAME BACK W/ 24 BAGS OF DEBRIS & SEVERAL LOGS & BRANCHES.

1102 EPA OSC ZINTAK ARRIVED ON-SITE

1140 ALL 3 BOATS CAME BACK W/ A TOTAL OF 26 BAGS OF OILY ABSORBS FROM OFF-SHOOT AREA.

1200 START & OSCs ZINTAK & KONDRICK TOOK A BOAT RIDE UP THE CHICAGO RIVER OFF-SHOOT & DOWN BUBBLY CREEK TO SEE THE PROGRESS. ~~THE~~ BUBBLY CREEK NO LONGER HAS A SHEEN, SO OSC ZINTAK SUGGESTED PULLING THE BOOM. ON TUESDAY THE CHICAGO RIVER HAD A LOT

11/6/17

OF PROGRESS MADE & ALL THE DEBRIS SHOULD BE REMOVED BY TODAY

1240 START & EPA BACK FROM BOAT RIDE

1245 START OFF-SITE TO GET LUNCH

1310 START BACK ON-SITE

1400 EPA OSC ZINTAK OFF-SITE.

1415 ONE BOAT CAME BACK W/ 7 BAGS OF DEBRIS & 3 BAGS OF SATURATED SORBENT BOOM.

1500 ONE BOAT RETURNED W/ 12 BAGS OF DEBRIS & 4 BAGS OF SATURATED BOOM.

1540 ONE BOAT CAME IN TO GET 4 BAGS OF BOOM

1615 ALL THREE BOATS CAME BACK IN WITH 31 BAGS OF DEBRIS & BOOM ALONG W/ TWIGS & STICKS

1630 ERRS LOADING BAGS INTO ROLL OF DUMPSTER.

1650 START, ERRS, EPA OFF-SITE

11/6/17

11/7/17

0620 START VILLICANA ARRIVED ON-SITE. LRRS ALREADY PRESENT. WEATHER 45°F, PARTLY CLOUDY, NNE WINDS @ 12 MPH.

0630 LRRS H&S + DAILY PLAN MEETING. LRRS WILL START W/ PULLING THE BOOM FROM BUBBLY CREEK + POWER WASHING IT. THEY WILL USE CLEAN SECTIONS OF BOOM TO CONTAIN OIL WHEN THEY WASH OFF THEIR BOATS. THEY WILL ALSO CONTINUE CLEANING OUT THE OFF-SHOOT.

0800 THE SMALL BOAT DEALING W/ THE BOOM NEEDS OIL, SO THEY STEERED BACK TO JOHN CANNOT SUMP.

0825 A BOAT CAME BACK W/ 13 BAGS OF DEBRIS + BOOM.

0930 LRRS RESUMED REMOVING BOOM.

0955 EPA OSC KONDRICK ARRIVED ON-SCENE.

1000 - HOMEWOOD DISPOSAL ON-SITE TO TAIL END OF THE ROLL-OFF DUMPSTERS.

- LRRS BAGGING UP SORBENT BOOM FROM BUBBLY CREEK INTO 15 BAGS.

- A BOAT CAME BACK W/ 14 BAGS OF

DEBRIS + BOOM.

1050 THE REPRESENTATIVE FROM THE CHICAGO PARK DISTRICT ARRIVED TO DISCUSS PROJECT WITH OSC KONDRICK.

1115 CHICAGO PARK DISTRICT REPRESENTATIVE OFF-SITE.

1129 EPA OSC ZINTAK ON-SITE.

1145 LRRS BOATS RETURNED W/ 12 BAGS OF DEBRIS, PADS, + BOOM.

1210 LRRS TECH, START, + OSC KONDRICK ON A BOAT RIDE UP THE OFF-SHOOT TO SEE THE PROGRESS.

1230 LRRS, START, + OSC KONDRICK RETURNED TO SHORE.

1240 START OFF-SITE FOR LUNCH.

1310 - START BACK ON-SITE.

- LRRS DISCONNECTING BOOM FROM BUBBLY CREEK + BRINGING THE SECTIONS TO THE BOAT LIFTS FOR DISCUS.

- A SECOND BOAT IS GOING UP THE OFF-SHOOT TO PLACE SORBENT PADS TO SOAK UP REMAINING OIL OVERNIGHT.

1415 HOMEWOOD DISPOSAL ARRIVED TO PICK UP THE SECOND 20-CUBIC YARD ROLL OFF

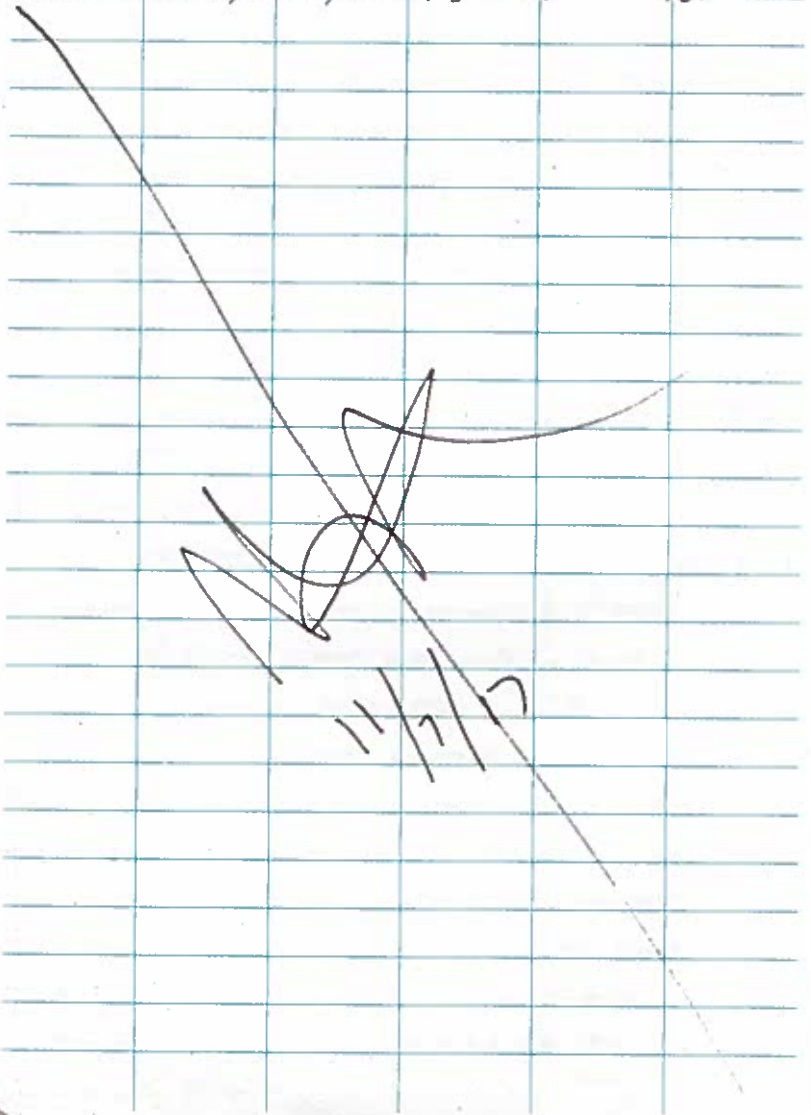
1455 A BOAT CAME BACK FROM THE OFF-SHOOT W/ 4 BAGS OF DEBRIS

Rite in the Rain

11/7/17

1610 ERRS FINISHED DECONNING THE SAINT LOUIS BOAT.

1630 START, GPM, + ERRS OFF-SITE.



11/8/17

0645 Kondreck onsite, 6 ERRs laborers
4 operators onsite + 1 RM.
Weather 34°F light wind to east
Sunny

0700 ERRs preparing to pressure wash boom, starting demob activities

0733 ERRs demobilizing one boat, continue decontaminating boom & boats

1000 Kondreck & ERRs tour inlet, no recoverable oil observed, finish decon

1200 1 person sent home [ERRS]

1300 Continue decon'ing boats,

1600 Demobing equipment to offshore Dolphin

1630 ERRs + Kondreck leave site

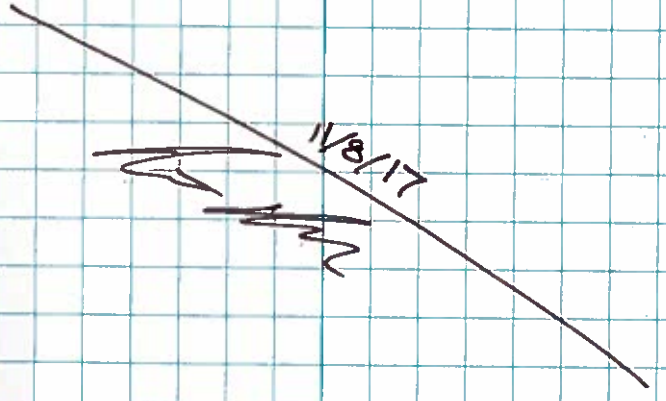


Photo: 1 **Description:** Oil and oil-covered debris found at Park #571 Pier **Orientation:** Facing Southwest **Date:** 10/26/2017	
Photo: 2 **Description:** Oil covered rocks along Park #571 Pier **Orientation:** Facing South **Date:** 10/26/2017	

Photo: 3 **Description:** Oil found at Park #571 Pier **Orientation:** Facing South **Date:** 10/26/2017	
Photo: 4 **Description:** Geese near Park #571 pier and possibly covered in oil **Orientation:** Facing North **Date:** 10/26/2017	

Photo: 5 **Description:** Oil-covered goose found dead near Park #571 pier **Orientation:** Facing North **Date:** 10/27/2017	
Photo: 6 **Description:** Remaining sorbent boom deployed at Chicago Yacht Works marina **Orientation:** Facing Northeast **Date:** 10/28/2017	

Photo: 7 **Description:** ERRS replacing sorbent boom around Park # 571 pier **Orientation:** Facing East **Date:** 10/28/2017	
Photo: 8 **Description:** Oil found at southern terminus of Bubbly Creek near MWRD pumping station **Orientation:** Facing West **Date:** 10/28/2017	

Photo: 9 **Description:** ERRS deploying sorbent boom and pads to recover oil near Park #571 Pier **Orientation:** Facing South **Date:** 10/28/2017	
Photo: 10 **Description:** ERRS cleaning impacted rocks near the pier. **Orientation:** Facing East **Date:** 10/30/2017	

Photo: 11 **Description:** ERRS power-washing residual oil off rocks at Park #571 pier **Orientation:** Facing East **Date:** 10/30/2017	
Photo: 12 **Description:** Sorbent boom and pads deployed at southern terminus of Bubbly Creek near MWRD pump station **Orientation:** Facing West **Date:** 10/30/2017	

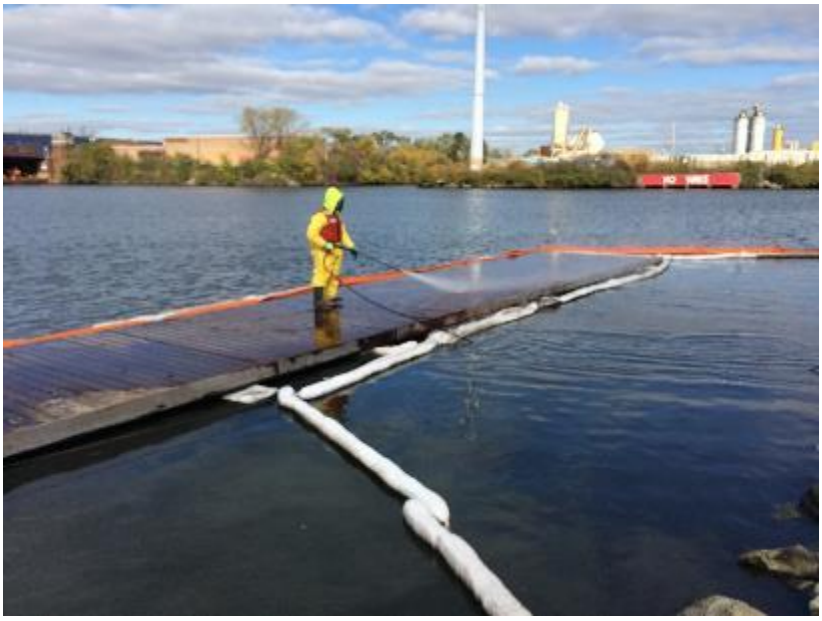
Photo: 13 **Description:** ERRS power-washing residual oil off Park #571 pier **Orientation:** Facing East **Date:** 10/31/2017	
Photo: 14 **Description:** Remaining oil pocket near MRWD pump station in Bubbly Creek **Orientation:** Facing West **Date:** 10/31/2017	

Photo: 15 **Description:** START collecting sample CRMS-SW-02-103117 near MWRD pump station **Orientation:** Facing West **Date:** 10/31/2017	
Photo: 16 **Description:** Remaining oil pocket at southern terminus of Bubbly Creek near MWRD pump station **Orientation:** Facing East **Date:** 11/01/2017	

Photo: 17 **Description:** ERRS recovering oil accumulating near the confluence of Bubbly Creek and the Chicago River **Orientation:** Facing Northwest **Date:** 11/01/2017	
Photo: 18 **Description:** ERRS recovering oil accumulating near the confluence of Bubbly Creek and the Chicago River **Orientation:** Facing Northwest **Date:** 11/01/2017	

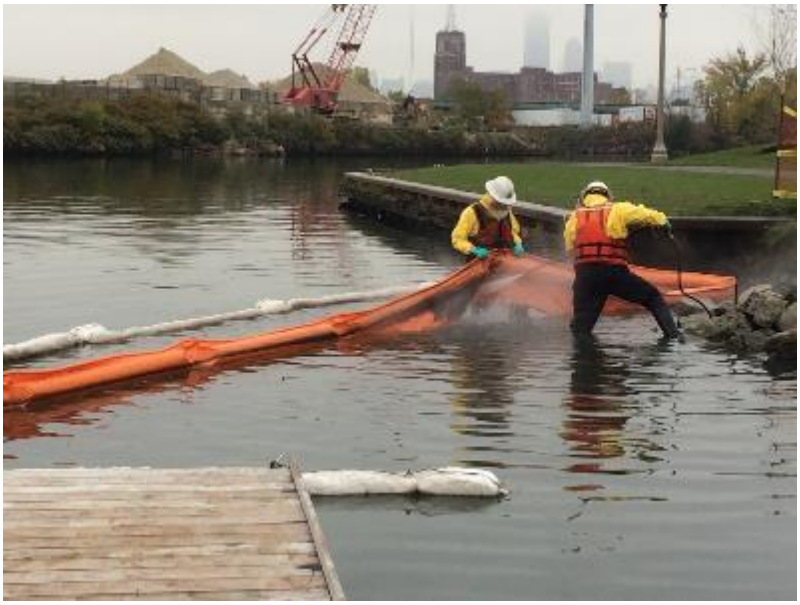
Photo: 19 **Description:** ERRS disposing trash bags of spent pads and boom in two 20 cubic-yard dumpsters **Orientation:** Facing South **Date:** 11/01/2017	
Photo: 20 **Description:** ERRS power-washing residual oil off hard boom surrounding Park #571 pier before removal **Orientation:** Facing East **Date:** 11/02/2017	

Photo: 21 **Description:** Oil found at inlet between S. Ashland Avenue and S. Laflin Street **Orientation:** Facing North **Date:** 11/02/2017	
Photo: 22 **Description:** ERRS recovering oil-covered debris from S. Ashland Avenue and S. Laflin Street inlet **Orientation:** Facing North **Date:** 11/02/2017	

Photo: 23 **Description:** ERRS recovering oil from Bubbly Creek and Chicago River confluence **Orientation:** Facing South **Date:** 11/02/2017	
Photo: 24 **Description:** ERRS recovering impacted vegetation along Bubbly Creek **Orientation:** Facing North **Date:** 11/02/2017	

Photo: 25 **Description:** Completion of oil recovery at Park #571 pier **Orientation:** Facing Northeast **Date:** 11/03/2017	
Photo: 26 **Description:** Completion of oil recovery at Park #571 pier **Orientation:** Facing East **Date:** 11/03/2017	

Photo: 27 **Description:** Hard boom and sorbent boom deployed at northern terminus of S. Ashland Avenue and S. Laflin Street inlet **Orientation:** Facing North **Date:** 11/03/2017	
Photo: 28 **Description:** Two ERRS boat crews recovering oil at northern terminus of S. Ashland Avenue and S. Laflin Street inlet **Orientation:** Facing North **Date:** 11/03/2017	

Photo: 29 **Description:** ERRS bagging trash bags containing spent pads, sorbent boom, and debris **Orientation:** Facing North **Date:** 11/03/2017	
Photo: 30 **Description:** ERRS bagging trash bags containing spent pads, sorbent boom, and debris **Orientation:** Facing North **Date:** 11/06/2017	

Photo: 31 **Description:** Three lined 20 cubic yard dumpsters **Orientation:** Facing South **Date:** 11/06/2017	
Photo: 32 **Description:** Trash bags containing spent pads, booms, and debris in a lined 20 cubic yard dumpster **Orientation:** Facing South **Date:** 11/06/2017	

Photo: 33 **Description:** Contained oil at northern terminus of S. Ashland Avenue and S. Laflin Street inlet **Orientation:** Facing North **Date:** 11/07/2017	
Photo: 34 **Description:** Oil contained by hard boom at northern terminus of S. Ashland Avenue and S. Laflin Street inlet **Orientation:** Facing Northeast **Date:** 11/07/2017	

Photo: 35 **Description:** Oil contained by hard boom at northern terminus of S. Ashland Avenue and S. Laflin Street inlet **Orientation:** Facing Northwest **Date:** 11/07/2017	
Photo: 36 **Description:** ERRS removing hard boom from the confluence of Bubbly Creek and the Chicago River **Orientation:** Facing Northwest **Date:** 11/07/2017	

Bubbly Creek Mystery Spill
Analytical Hit Summary Table

				Laboratory ID :	500-136329-1	500-136532-1	500-136329-2	500-136788-1
				Client Sample ID :	CRMS-SW-01-102617	CRMS-SW-02-103117	CRMS-SW-03-103117	CRMS-SW-04-110317
				Date Collected :	10/26/17 11:48	10/31/2017 8:05	10/31/2017 8:25	11/3/2017 15:35
	CAS No.	Analyte	Units	Chicago Area Waterway System Water Quality Standards[a]				
VOC	67-64-1	Acetone	ug/L	--	**27**	**39**	**40**	**6.9**
	67-66-3	Chloroform	ug/L	--	2 U	**1.2 J**	**1.1 J**	2 U
	79-20-9	Methyl acetate	ug/L	--	5 U	**17**	5 U	5 U
	108-88-3	Toluene	ug/L	600	**0.33 J**	**19**	0.5 U	0.5 U
SVOC	92-52-4	1,1'-Biphenyl	ug/L	--	**7.8 J**	400 U	4 U	40 U
	91-57-6	2-Methylnaphthalene	ug/L	--	**8.2 J**	**7.2 J**	**0.14 J**	**1.6 J**
	84-66-2	Diethyl phthalate	ug/L	--	40 U	400 U	**0.41 J**	40 U
	85-01-8	Phenanthrene	ug/L	--	**2.6 J**	80 U	0.8 UJ	**3.6 J**
	129-00-0	Pyrene	ug/L	--	**4.6 J**	80 U	0.8 UJ	**5.2 J**
INORG	7440-38-2	Arsenic	mg/L	1	0.010 U	**0.048 J-**	0.01 UJ	0.05 U
	7440-39-3	Barium	mg/L	5	**0.03**	**1.4**	**0.031**	**0.12**
	7440-43-9	Cadmium	mg/L	0.15	0.0020 U	**0.019 J+**	0.002 U	0.01 U
	7440-47-3	Chromium	mg/L	1	0.010 U	**0.33 J-**	0.01 UJ	**0.022 J**
	7439-92-1	Lead	mg/L	0.1	**0.0031 J+**	**1.1 J+**	0.005 U	**0.061 J-**
	7439-97-6	Mercury	mg/L	0.0005	0.0002 U	**0.0013**	0.0002 U	0..0002 U
	7782-49-2	Selenium	mg/L	1	0.010 U	**0.046 J+**	0.01 U	0.05 UJ
	7440-22-4	Silver	mg/L	1.1	0.0050 U	**0.013 J+**	0.005 U	0.025 U
Flash	--	Flashpoint	°F	--	**>176**	--	--	--

Notes:

Only detected analytes are reported in this summary table.

Analyte detected greater than at least one remedial objective.

Bolded values indicate analytes that were detected.

CAS	Chemical Abstracts Service
J	The analyte was positively identified; the associated value is the approxiamte concentration of the analyte in the sample
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and my be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and my be biased low.
MCL	Maximum Contaminant Load
µg/L	Micrograms per Liter
SVOC	Semivolatile Organic Compound
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
VOC	Volatile Organic Compound
a	Chicago Area Waterway System Water Quality Standards are located Title 35, Subtitle C, Chapter I, Part 302, Section 302.407 of the Illinois Administrative Code, Which can be found at: ftp://www.ilga.gov/jcar/admincode/035/035003020D04070R.html

TETRA TECH

December 7, 2017

Mr. Leonard Zintak
Mr. Robert Kondreck
On-Scene Coordinators
U.S. Environmental Protection Agency Region 5
77 West Jackson Boulevard, SE-5K
Chicago, Illinois 60604-3507

Subject: **Data Validation Report**
Bubbly Creek Mystery ER
EPA Contract No. EP-S5-13-01
Technical Direction Document No. S05-0004-1710-010
Document Tracking No. 2200

Dear Mr. Zintak and Mr. Kondreck:

Tetra Tech, Inc. (Tetra Tech) is submitting these Data Validation Reports for four water samples collected at the Bubbly Creek Mystery ER site. The samples were collected from October 26 through November 3, 2017, and were analyzed for volatile organic compounds, semivolatile organic compounds, polychlorinated biphenyls, metals, and flashpoint. The laboratory data packages were received on November 14 and 16, 2017.

Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (January 2017) and the EPA *NFG for Inorganic Superfund Methods Data Review* (January 2017).

No results were rejected for these data packages. All results may be used as qualified.

If you have any questions regarding these data validation reports, please call me at (313) 574-3176.

Sincerely,

Kelly D Thomas

Environmental Scientist

Enclosure
cc: Kevin Scott, Tetra Tech Program Manager
Matt Villicana, Tetra Tech Project Manager
TDD File

Tetra Tech, Inc.
1 South Wacker Dr. Suite 3700, Chicago, IL 60606
Tel 312.201.7479 | Fax 312.201.0031
www.tetratech.com

ATTACHMENT 1

DATA VALIDATION REPORTS
TESTAMERICA LABORATORIES PACKAGES J136329-1, J136532-1, AND J136788-1

DATA VALIDATION CHECKLIST – STAGE 4
EPA REGION 5 START CONTRACT

Site Name	Bubbly Creek Mystery ER	**TDD No.**	0004-1710-010
Document Tracking No.	2200A		
Data Reviewer (signature and date)	Kelly D Thomas November 30, 2017	**Technical Reviewer (signature and date)**	Jessica A. Vickers December 6, 2017
Laboratory Report No.	J136329-1	**Laboratory**	TestAmerica Laboratories/Chicago, Illinois
Analyses	Volatile organic compounds (VOCs) by SW-846 Method 8260B, semivolatile organic compounds (SVOCs) by SW-846 Method 8270D, metals by SW-846 Methods 6010C and 7470A, and flashpoint by SW-846 Method 1010A		
Samples and Matrix	One water sample		
Field Duplicate Pairs	None		
Field Blanks	None		

INTRODUCTION

This checklist summarizes the Stage 4 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (January 2017) and the EPA *NFG for Inorganic Superfund Methods Data Review* (January 2017).

OVERALL EVALUATION

No rejection of results was required for this data package. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
Y	The chain of custody indicates that total organic halides (TOX) analysis was requested. However, the analysis was not completed at the request of the client.

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

Instrument Performance Checks:

Within Criteria	Exceedance/Notes
Y	

Initial Calibration:

Within Criteria	Exceedance/Notes
N	In the metals analysis, recoveries for cadmium and silver in the low level initial calibration verification were above the acceptable range. Neither metal was detected in the sample after application of blank contamination qualifiers; therefore, no qualifier was applied.

Continuing Calibration:

Within Criteria	Exceedance/Notes
N	In the VOC analysis, the percent difference for 1,2-dibromo-3-chloropropane exceeded the acceptable range. Therefore, the non-detect result in the sample was qualified as estimated (UJ). In the SVOC analysis, the percent differences for 2,2'-oxybis(1-chloropropane), hexachlorobutadiene, and hexachlorobenzene exceeded the acceptable range. Therefore, the non-detect results for these SVOCs in the sample were qualified as estimated (UJ). In the metals analysis, the percent recovery for arsenic and lead in the low level continuing calibration verification were above the acceptable range. Arsenic was not detected in the sample; therefore, no qualifier was applied. The lead result was qualified as estimated with a possible high bias (J+).

Calibration Verification:

Within Criteria	Exceedance/Notes
N	In the SVOC analysis, the percent difference for benzaldehyde exceeded the acceptable range. Therefore, the non-detect result in the sample result was qualified as estimated (UJ).

Method blanks:

Within Criteria	Exceedance/Notes
N	In the metals analysis, cadmium was detected in the method blank below the reporting limit (RL). Therefore, the cadmium result was elevated to the RL and qualified as non-detect (U).

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
Y	

System monitoring compounds (surrogates and labeled compounds):

Within Criteria	Exceedance/Notes
N	In the SVOC analysis, recoveries for surrogates 2,4,6-tribromophenol, 2-fluorophenol, and nitrobenzene were above the acceptable ranges. All associated compounds were non-detect in the sample; therefore, no qualifiers were applied.

DATA VALIDATION CHECKLIST – STAGE 4
EPA REGION 5 START CONTRACT

MS/MSD:

Within Criteria	Exceedance/Notes
NA	

Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

Serial dilutions:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
NA	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	The SVOC analysis was completed at a 10-fold dilution.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
NA	

Internal Standards:

Within Criteria	Exceedance/Notes
Y	

Target analyte identification:

Within Criteria	Exceedance/Notes
Y	

Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Results between the reporting limit and the MDL were qualified as estimated (J) by the laboratory.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

System performance and instrument stability:

Within Criteria	Exceedance/Notes
Y	

Other [specify]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Client Sample ID: CRMS-SW-01-102617
Date Collected: 10/26/17 11:48
Date Received: 10/26/17 14:05

Lab Sample ID: 500-136329-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<2.0	U	2.0	0.67	ug/L			10/27/17 06:51	1
Chloromethane	<1.0		1.0	0.32	ug/L			10/27/17 06:51	1
Vinyl chloride	<0.50		0.50	0.20	ug/L			10/27/17 06:51	1
Bromomethane	<2.0		2.0	0.80	ug/L			10/27/17 06:51	1
Chloroethane	<1.0		1.0	0.51	ug/L			10/27/17 06:51	1
Trichlorofluoromethane	<1.0		1.0	0.43	ug/L			10/27/17 06:51	1
1,1-Dichloroethene	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46	ug/L			10/27/17 06:51	1
Acetone	**27**		5.0	1.7	ug/L			10/27/17 06:51	1
Carbon disulfide	<2.0	U	2.0	0.45	ug/L			10/27/17 06:51	1
Methyl acetate	<5.0		5.0	2.0	ug/L			10/27/17 06:51	1
Methylene Chloride	<5.0		5.0	1.6	ug/L			10/27/17 06:51	1
trans-1,2-Dichloroethene	<1.0		1.0	0.35	ug/L			10/27/17 06:51	1
Methyl tert-butyl ether	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
1,1-Dichloroethane	<1.0		1.0	0.41	ug/L			10/27/17 06:51	1
cis-1,2-Dichloroethene	<1.0		1.0	0.41	ug/L			10/27/17 06:51	1
Methyl Ethyl Ketone	<5.0		5.0	2.1	ug/L			10/27/17 06:51	1
Chloroform	<2.0		2.0	0.37	ug/L			10/27/17 06:51	1
1,1,1-Trichloroethane	<1.0		1.0	0.38	ug/L			10/27/17 06:51	1
Cyclohexane	<1.0		1.0	0.49	ug/L			10/27/17 06:51	1
Carbon tetrachloride	<1.0		1.0	0.38	ug/L			10/27/17 06:51	1
Benzene	<0.50		0.50	0.15	ug/L			10/27/17 06:51	1
1,2-Dichloroethane	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
Trichloroethene	<0.50		0.50	0.16	ug/L			10/27/17 06:51	1
Methylcyclohexane	<1.0		1.0	0.32	ug/L			10/27/17 06:51	1
1,2-Dichloropropane	<1.0		1.0	0.43	ug/L			10/27/17 06:51	1
Bromodichloromethane	<1.0		1.0	0.37	ug/L			10/27/17 06:51	1
cis-1,3-Dichloropropene	<1.0		1.0	0.42	ug/L			10/27/17 06:51	1
methyl isobutyl ketone	<5.0		5.0	2.2	ug/L			10/27/17 06:51	1
Toluene	**0.33**	J	0.50	0.15	ug/L			10/27/17 06:51	1
trans-1,3-Dichloropropene	<1.0	U	1.0	0.36	ug/L			10/27/17 06:51	1
1,1,2-Trichloroethane	<1.0		1.0	0.35	ug/L			10/27/17 06:51	1
Tetrachloroethene	<1.0		1.0	0.37	ug/L			10/27/17 06:51	1
2-Hexanone	<5.0		5.0	1.6	ug/L			10/27/17 06:51	1
Dibromochloromethane	<1.0		1.0	0.49	ug/L			10/27/17 06:51	1
1,2-Dibromoethane	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
Chlorobenzene	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
Ethylbenzene	<0.50		0.50	0.18	ug/L			10/27/17 06:51	1
Xylenes, Total	<1.0		1.0	0.22	ug/L			10/27/17 06:51	1
Styrene	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
Bromoform	<1.0		1.0	0.48	ug/L			10/27/17 06:51	1
Isopropylbenzene	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40	ug/L			10/27/17 06:51	1
1,3-Dichlorobenzene	<1.0		1.0	0.40	ug/L			10/27/17 06:51	1
1,4-Dichlorobenzene	<1.0		1.0	0.36	ug/L			10/27/17 06:51	1
1,2-Dichlorobenzene	<1.0		1.0	0.33	ug/L			10/27/17 06:51	1
1,2-Dibromo-3-Chloropropane	<5.0	UJ	5.0	2.0	ug/L			10/27/17 06:51	1
1,2,4-Trichlorobenzene	<1.0	U	1.0	0.34	ug/L			10/27/17 06:51	1

KT. 12/6/17

Client Sample ID: CRMS-SW-01-102617
Date Collected: 10/26/17 11:48
Date Received: 10/26/17 14:05

Lab Sample ID: 500-136329-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 126		10/27/17 06:51	1
Toluene-d8 (Surr)	92		75 - 120		10/27/17 06:51	1
4-Bromofluorobenzene (Surr)	107		72 - 124		10/27/17 06:51	1
Dibromofluoromethane	92		75 - 120		10/27/17 06:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<320	UJ	320	120	ug/L		10/27/17 07:20	10/27/17 11:07	10
Phenol	<40	U	40	5.4	ug/L		10/27/17 07:20	10/27/17 11:07	10
Bis(2-chloroethyl)ether	<16	U	16	2.3	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Chlorophenol	<40	U	40	4.5	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Methylphenol	<16	U	16	2.4	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,2'-oxybis[1-chloropropane]	<16	UJ	16	3.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
Acetophenone	<40	U	40	5.3	ug/L		10/27/17 07:20	10/27/17 11:07	10
N-Nitrosodi-n-propylamine	<4.0	U	4.0	1.2	ug/L		10/27/17 07:20	10/27/17 11:07	10
Hexachloroethane	<40	U	40	4.8	ug/L		10/27/17 07:20	10/27/17 11:07	10
Nitrobenzene	<8.0	U	8.0	3.6	ug/L		10/27/17 07:20	10/27/17 11:07	10
Isophorone	<16	U	16	3.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Nitrophenol	<80	U	80	20	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4-Dimethylphenol	<80	U	80	14	ug/L		10/27/17 07:20	10/27/17 11:07	10
Bis(2-chloroethoxy)methane	<16	U	16	2.3	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4-Dichlorophenol	<80	U	80	21	ug/L		10/27/17 07:20	10/27/17 11:07	10
Naphthalene	<8.0	U	8.0	2.5	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Chloroaniline	<80	U	80	16	ug/L		10/27/17 07:20	10/27/17 11:07	10
Hexachlorobutadiene	<40	UJ	40	4.1	ug/L		10/27/17 07:20	10/27/17 11:07	10
Caprolactam	<80	U	80	12	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Chloro-3-methylphenol	<80	U	80	18	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Methylnaphthalene	**8.2**	J	16	0.52	ug/L		10/27/17 07:20	10/27/17 11:07	10
Hexachlorocyclopentadiene	<160	U	160	51	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4,6-Trichlorophenol	<40	U	40	5.7	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4,5-Trichlorophenol	<80	U	80	21	ug/L		10/27/17 07:20	10/27/17 11:07	10
1,1'-Biphenyl	**7.8**	J	40	2.9	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Chloronaphthalene	<16	U	16	1.9	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Nitroaniline	<40	U	40	10	ug/L		10/27/17 07:20	10/27/17 11:07	10
Dimethyl phthalate	<40	U	40	2.5	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,6-Dinitrotoluene	<8.0	U	8.0	0.59	ug/L		10/27/17 07:20	10/27/17 11:07	10
Acenaphthylene	<8.0	U	8.0	2.1	ug/L		10/27/17 07:20	10/27/17 11:07	10
3-Nitroaniline	<80	U	80	14	ug/L		10/27/17 07:20	10/27/17 11:07	10
Acenaphthene	<8.0	U	8.0	2.5	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4-Dinitrophenol	<160	U	160	69	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Nitrophenol	<160	U	160	59	ug/L		10/27/17 07:20	10/27/17 11:07	10
Dibenzofuran	<16	U	16	2.1	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4-Dinitrotoluene	<8.0	U	8.0	2.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
Diethyl phthalate	<40	U	40	2.9	ug/L		10/27/17 07:20	10/27/17 11:07	10
Fluorene	<8.0	U	8.0	2.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Chlorophenyl phenyl ether	<40	U	40	5.1	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Nitroaniline	<80	U	80	13	ug/L		10/27/17 07:20	10/27/17 11:07	10
4,6-Dinitro-2-methylphenol	<160	U	160	47	ug/L		10/27/17 07:20	10/27/17 11:07	10
N-Nitrosodiphenylamine	<16	U	16	3.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Bromophenyl phenyl ether	<40	U	40	4.3	ug/L		10/27/17 07:20	10/27/17 11:07	10

KJ. 12/6/17

Client Sample ID: CRMS-SW-01-102617

Lab Sample ID: 500-136329-1
Matrix: Water

Date Collected: 10/26/17 11:48
Date Received: 10/26/17 14:05

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<4.0	UJ	4.0	0.64	ug/L		10/27/17 07:20	10/27/17 11:07	10
Atrazine	<40	U	40	5.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
Pentachlorophenol	<160	U	160	32	ug/L		10/27/17 07:20	10/27/17 11:07	10
Phenanthrene	**2.6**	J	8.0	2.4	ug/L		10/27/17 07:20	10/27/17 11:07	10
Anthracene	<8.0	U	8.0	2.7	ug/L		10/27/17 07:20	10/27/17 11:07	10
Carbazole	<40		40	2.8	ug/L		10/27/17 07:20	10/27/17 11:07	10
Di-n-butyl phthalate	<40		40	5.8	ug/L		10/27/17 07:20	10/27/17 11:07	10
Fluoranthene	<8.0		8.0	3.6	ug/L		10/27/17 07:20	10/27/17 11:07	10
Pyrene	**4.6**	J	8.0	3.4	ug/L		10/27/17 07:20	10/27/17 11:07	10
Butyl benzyl phthalate	<16	U	16	3.8	ug/L		10/27/17 07:20	10/27/17 11:07	10
3,3'-Dichlorobenzidine	<40		40	14	ug/L		10/27/17 07:20	10/27/17 11:07	10
Benzo[a]anthracene	<1.6		1.6	0.45	ug/L		10/27/17 07:20	10/27/17 11:07	10
Chrysene	<1.6		1.6	0.55	ug/L		10/27/17 07:20	10/27/17 11:07	10
Bis(2-ethylhexyl) phthalate	<80		80	14	ug/L		10/27/17 07:20	10/27/17 11:07	10
Di-n-octyl phthalate	<80		80	8.4	ug/L		10/27/17 07:20	10/27/17 11:07	10
Benzo[b]fluoranthene	<1.6		1.6	0.65	ug/L		10/27/17 07:20	10/27/17 11:07	10
Benzo[k]fluoranthene	<1.6		1.6	0.51	ug/L		10/27/17 07:20	10/27/17 11:07	10
Benzo[a]pyrene	<1.6		1.6	0.79	ug/L		10/27/17 07:20	10/27/17 11:07	10
Indeno[1,2,3-cd]pyrene	<1.6		1.6	0.60	ug/L		10/27/17 07:20	10/27/17 11:07	10
Dibenz(a,h)anthracene	<2.4		2.4	0.41	ug/L		10/27/17 07:20	10/27/17 11:07	10
Benzo[g,h,i]perylene	<8.0		8.0	3.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
3 & 4 Methylphenol	<16		16	3.6	ug/L		10/27/17 07:20	10/27/17 11:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*103*		*27 - 110*	*10/27/17 07:20*	*10/27/17 11:07*	*10*
Phenol-d5 (Surr)	*80*		*20 - 100*	*10/27/17 07:20*	*10/27/17 11:07*	*10*
Nitrobenzene-d5 (Surr)	*124*	*X*	*36 - 120*	*10/27/17 07:20*	*10/27/17 11:07*	*10*
2-Fluorobiphenyl (Surr)	*128*	*X*	*34 - 110*	*10/27/17 07:20*	*10/27/17 11:07*	*10*
2,4,6-Tribromophenol (Surr)	*173*	*X*	*40 - 145*	*10/27/17 07:20*	*10/27/17 11:07*	*10*
Terphenyl-d14 (Surr)	*126*		*40 - 145*	*10/27/17 07:20*	*10/27/17 11:07*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010	U	0.010	0.0037	mg/L		10/26/17 16:54	10/27/17 13:42	1
Barium	**0.030**		0.010	0.0012	mg/L		10/26/17 16:54	10/27/17 13:42	1
Cadmium	~~0.00009~~ <0.0020	~~JB~~ U	0.0020	0.00043	mg/L		10/26/17 16:54	10/27/17 13:42	1
Chromium	<0.010	U	0.010	0.0017	mg/L		10/26/17 16:54	10/27/17 13:42	1
Lead	**0.0031**	~~J~~ J+	0.0050	0.0027	mg/L		10/26/17 16:54	10/27/17 13:42	1
Selenium	<0.010	U	0.010	0.0053	mg/L		10/26/17 16:54	10/27/17 13:42	1
Silver	<0.0050	U	0.0050	0.0015	mg/L		10/26/17 16:54	10/27/17 13:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20	U	0.20	0.098	ug/L		10/26/17 15:11	10/27/17 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			10/27/17 16:28	1

KJ. 12/6/17

DATA VALIDATION CHECKLIST – STAGE 4
EPA REGION 5 START CONTRACT

Site Name	Bubbly Creek Mystery ER	**TDD No.**	0004-1710-010
Document Tracking No.	2200B		
Data Reviewer (signature and date)	Kelly D Thomas November 29, 2017	**Technical Reviewer (signature and date)**	Jessica A. Vickers December 6, 2017
Laboratory Report No.	J136532-1	**Laboratory**	TestAmerica Laboratories/Chicago, Illinois
Analyses	Volatile organic compounds (VOCs) by SW-846 Method 8260B, semivolatile organic compounds (SVOCs) by SW-846 Method 8270D, polychlorinated biphenyls (PCBs) by SW-846 Method 8082A, and metals by SW-846 Methods 6010C and 7470A		
Samples and Matrix	Two water samples (plus Trip Blank)		
Field Duplicate Pairs	None		
Field Blanks	Trip Blank		

INTRODUCTION

This checklist summarizes the Stage 4 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (January 2017) and the EPA *NFG for Inorganic Superfund Methods Data Review* (January 2017).

OVERALL EVALUATION

No rejection of results was required for this data package. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

Instrument Performance Checks:

Within Criteria	Exceedance/Notes
Y	

Initial Calibration:

Within Criteria	Exceedance/Notes
N	In the metals analysis, the percent recoveries for arsenic, cadmium, lead, and selenium in one low level initial calibration verification were above the acceptable range, and chromium was below the acceptance range. The chromium results were qualified as estimated, possibly biased low (J-/UJ), and the cadmium, lead, and selenium results for CRMS-SW-02-103117 were qualified as estimated, possibly biased high (J+). No further qualification were applied because the associated results were non-detect after application of blank contamination qualifiers or were reported from a difference batch. In the metals analysis, the percent recovery for arsenic in the low level initial calibration verification associated with CRMS-SW-02-103117 was below the acceptance range; therefore, the arsenic result for this sample was qualified as estimated, possibly biased low (J-).

Continuing Calibration:

Within Criteria	Exceedance/Notes
N	In the VOC analysis, the percent differences for 1,1,2-trichloroethane, 1,2-dibromoethane, bromomethane, cis-1,3-dichloropropene, dibromochloromethane, and trans-1,3-dichloropropene exceeded the acceptable range. Therefore, the non-detect sample results for these VOCs were qualified as estimated (UJ). In the SVOC analysis, the percent differences for 2,2'-oxybis(1-chloropropane), bis(2-chloroethyl)ether, hexachlorobenzene, and hexachlorobutadiene exceeded the acceptable range. Therefore, the non-detect sample results for these SVOCs were qualified as estimated (UJ). In the metals analysis, the percent recovery for silver in the low level continuing calibration verification was above the acceptable range. Therefore, the positive silver result for CRMS-SW-02-103117 was qualified as estimated, possibly biased high (J+). In the metals analysis, the percent recovery for arsenic in the low level continuing calibration verification was below the acceptance range; therefore, the arsenic results were qualified as estimated, possibly biased low (J-/UJ).

Calibration Verification:

Within Criteria	Exceedance/Notes
N	In the SVOC analysis, the percent difference for benzaldehyde exceeded the acceptable range; therefore, these non-detect results were qualified as estimated (UJ).

Method blanks:

Within Criteria	Exceedance/Notes
N	In the metals analysis, cadmium was detected in the method blank below the reporting limit (RL). The result in sample CRMS-SW-02-103117 was greater than ten times the blank value; therefore, no qualifier was applied. The result in sample CRMS-SW-03-103117 was below the reporting limit (RL). The cadmium result in this sample was elevated to the RL and qualified as non-detect (U).

Field blanks:

Within Criteria	Exceedance/Notes
Y	

Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
Y	

System monitoring compounds (surrogates and labeled compounds):

Within Criteria	Exceedance/Notes
N	In the SVOC analysis, surrogate recoveries could not be calculated in sample CRMS-SW-02-103117 due to the high dilution factor. No qualifications were applied.

MS/MSD:

Within Criteria	Exceedance/Notes
NA	

Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

Serial dilutions:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
NA	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
N	The LCS recovery was below the acceptance limit for 2,2'-oxybis(1-chloropropane); therefore, the non-detect results were qualified as estimated with a possible low bias (UJ). The relative percent difference for benzaldehyde was above the acceptance limit; however, no qualification was applied because the associated results were non-detect.

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	Sample CRMS-SW-02-103117: SVOCs were analyzed at a 50-fold dilution and PCBs were analyzed at a 10-fold dilution.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
NA	

Internal Standards:

Within Criteria	Exceedance/Notes
Y	

Target analyte identification:

Within Criteria	Exceedance/Notes
Y	

Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Results between the reporting limit and the MDL were qualified as estimated (J) by the laboratory.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

System performance and instrument stability:

Within Criteria	Exceedance/Notes
Y	

Other [specify]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136532-1

Client Sample ID: CRMS-SW-02-103117
Date Collected: 10/31/17 08:05
Date Received: 10/31/17 10:30

Lab Sample ID: 500-136532-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0	U	1.0	0.38	ug/L			11/08/17 18:14	1
1,1,2,2-Tetrachloroethane	<1.0	U	1.0	0.40	ug/L			11/08/17 18:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0	U	1.0	0.46	ug/L			11/08/17 18:14	1
1,1,2-Trichloroethane	<1.0	UJ	1.0	0.35	ug/L			11/08/17 18:14	1
1,1-Dichloroethane	<1.0	U	1.0	0.41	ug/L			11/08/17 18:14	1
1,1-Dichloroethene	<1.0	U	1.0	0.39	ug/L			11/08/17 18:14	1
1,2,4-Trichlorobenzene	<1.0	U	1.0	0.34	ug/L			11/08/17 18:14	1
1,2-Dibromo-3-Chloropropane	<5.0	U	5.0	2.0	ug/L			11/08/17 18:14	1
1,2-Dibromoethane	<1.0	UJ	1.0	0.39	ug/L			11/08/17 18:14	1
1,2-Dichlorobenzene	<1.0	U	1.0	0.33	ug/L			11/08/17 18:14	1
1,2-Dichloroethane	<1.0	U	1.0	0.39	ug/L			11/08/17 18:14	1
1,2-Dichloropropane	<1.0	U	1.0	0.43	ug/L			11/08/17 18:14	1
1,3-Dichlorobenzene	<1.0	U	1.0	0.40	ug/L			11/08/17 18:14	1
1,4-Dichlorobenzene	<1.0	U	1.0	0.36	ug/L			11/08/17 18:14	1
2-Hexanone	<5.0	U	5.0	1.6	ug/L			11/08/17 18:14	1
Acetone	**39**		5.0	1.7	ug/L			11/08/17 18:14	1
Benzene	<0.50	U	0.50	0.15	ug/L			11/08/17 18:14	1
Bromodichloromethane	<1.0	U	1.0	0.37	ug/L			11/08/17 18:14	1
Bromoform	<1.0	U	1.0	0.48	ug/L			11/08/17 18:14	1
Bromomethane	<2.0	UJ	2.0	0.80	ug/L			11/08/17 18:14	1
Carbon disulfide	<2.0	U	2.0	0.45	ug/L			11/08/17 18:14	1
Carbon tetrachloride	<1.0	U	1.0	0.38	ug/L			11/08/17 18:14	1
Chlorobenzene	<1.0	U	1.0	0.39	ug/L			11/08/17 18:14	1
Chloroethane	<1.0	U	1.0	0.51	ug/L			11/08/17 18:14	1
Chloroform	**1.2**	J	2.0	0.37	ug/L			11/08/17 18:14	1
Chloromethane	<1.0	U	1.0	0.32	ug/L			11/08/17 18:14	1
cis-1,2-Dichloroethene	<1.0	U	1.0	0.41	ug/L			11/08/17 18:14	1
cis-1,3-Dichloropropene	<1.0	UJ	1.0	0.42	ug/L			11/08/17 18:14	1
Cyclohexane	<1.0	U	1.0	0.49	ug/L			11/08/17 18:14	1
Dibromochloromethane	<1.0	UJ	1.0	0.49	ug/L			11/08/17 18:14	1
Dichlorodifluoromethane	<2.0	U	2.0	0.67	ug/L			11/08/17 18:14	1
Ethylbenzene	<0.50	U	0.50	0.18	ug/L			11/08/17 18:14	1
Isopropylbenzene	<1.0	U	1.0	0.39	ug/L			11/08/17 18:14	1
Methyl acetate	**17**		5.0	2.0	ug/L			11/08/17 18:14	1
Methyl Ethyl Ketone	<5.0	U	5.0	2.1	ug/L			11/08/17 18:14	1
methyl isobutyl ketone	<5.0	U	5.0	2.2	ug/L			11/08/17 18:14	1
Methyl tert-butyl ether	<1.0	U	1.0	0.39	ug/L			11/08/17 18:14	1
Methylcyclohexane	<1.0	U	1.0	0.32	ug/L			11/08/17 18:14	1
Methylene Chloride	<5.0	U	5.0	1.6	ug/L			11/08/17 18:14	1
Styrene	<1.0	U	1.0	0.39	ug/L			11/08/17 18:14	1
Tetrachloroethene	<1.0	U	1.0	0.37	ug/L			11/08/17 18:14	1
Toluene	**1.9**		0.50	0.15	ug/L			11/08/17 18:14	1
trans-1,2-Dichloroethene	<1.0	U	1.0	0.35	ug/L			11/08/17 18:14	1
trans-1,3-Dichloropropene	<1.0	UJ	1.0	0.36	ug/L			11/08/17 18:14	1
Trichloroethene	<0.50	U	0.50	0.16	ug/L			11/08/17 18:14	1
Trichlorofluoromethane	<1.0	U	1.0	0.43	ug/L			11/08/17 18:14	1
Vinyl chloride	<0.50	U	0.50	0.20	ug/L			11/08/17 18:14	1
Xylenes, Total	<1.0	U	1.0	0.22	ug/L			11/08/17 18:14	1

KT. 12/6/17

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136532-1

Client Sample ID: CRMS-SW-02-103117
Date Collected: 10/31/17 08:05
Date Received: 10/31/17 10:30

Lab Sample ID: 500-136532-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 126		11/08/17 18:14	1
4-Bromofluorobenzene (Surr)	92		72 - 124		11/08/17 18:14	1
Dibromofluoromethane	91		75 - 120		11/08/17 18:14	1
Toluene-d8 (Surr)	90		75 - 120		11/08/17 18:14	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<3200	✓ UJ	3200	1200	ug/L		11/01/17 08:17	11/01/17 15:11	50
Phenol	<400	U	400	54	ug/L		11/01/17 08:17	11/01/17 15:11	50
Bis(2-chloroethyl)ether	<160	UJ	160	23	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Chlorophenol	<400	U	400	45	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Methylphenol	<160	U	160	24	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,2'-oxybis[1-chloropropane]	<160	✓ UJ	160	30	ug/L		11/01/17 08:17	11/01/17 15:11	50
Acetophenone	<400	U	400	53	ug/L		11/01/17 08:17	11/01/17 15:11	50
N-Nitrosodi-n-propylamine	<40		40	12	ug/L		11/01/17 08:17	11/01/17 15:11	50
Hexachloroethane	<400		400	48	ug/L		11/01/17 08:17	11/01/17 15:11	50
Nitrobenzene	<80		80	36	ug/L		11/01/17 08:17	11/01/17 15:11	50
Isophorone	<160		160	30	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Nitrophenol	<800		800	200	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4-Dimethylphenol	<800		800	140	ug/L		11/01/17 08:17	11/01/17 15:11	50
Bis(2-chloroethoxy)methane	<160		160	23	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4-Dichlorophenol	<800		800	210	ug/L		11/01/17 08:17	11/01/17 15:11	50
Naphthalene	<80		80	25	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Chloroaniline	<800		800	160	ug/L		11/01/17 08:17	11/01/17 15:11	50
Hexachlorobutadiene	<400	UJ	400	41	ug/L		11/01/17 08:17	11/01/17 15:11	50
Caprolactam	<800	U	800	120	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Chloro-3-methylphenol	<800	U	800	180	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Methylnaphthalene	7.2	J	160	5.2	ug/L		11/01/17 08:17	11/01/17 15:11	50
Hexachlorocyclopentadiene	<1600	U	1600	510	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4,6-Trichlorophenol	<400		400	57	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4,5-Trichlorophenol	<800		800	210	ug/L		11/01/17 08:17	11/01/17 15:11	50
1,1'-Biphenyl	<400		400	29	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Chloronaphthalene	<160		160	19	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Nitroaniline	<400		400	100	ug/L		11/01/17 08:17	11/01/17 15:11	50
Dimethyl phthalate	<400		400	25	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,6-Dinitrotoluene	<80		80	5.9	ug/L		11/01/17 08:17	11/01/17 15:11	50
Acenaphthylene	<80		80	21	ug/L		11/01/17 08:17	11/01/17 15:11	50
3-Nitroaniline	<800		800	140	ug/L		11/01/17 08:17	11/01/17 15:11	50
Acenaphthene	<80		80	25	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4-Dinitrophenol	<1600		1600	690	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Nitrophenol	<1600		1600	590	ug/L		11/01/17 08:17	11/01/17 15:11	50
Dibenzofuran	<160		160	21	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4-Dinitrotoluene	<80		80	20	ug/L		11/01/17 08:17	11/01/17 15:11	50
Diethyl phthalate	<400		400	29	ug/L		11/01/17 08:17	11/01/17 15:11	50
Fluorene	<80		80	20	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Chlorophenyl phenyl ether	<400		400	51	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Nitroaniline	<800		800	130	ug/L		11/01/17 08:17	11/01/17 15:11	50
4,6-Dinitro-2-methylphenol	<1600		1600	470	ug/L		11/01/17 08:17	11/01/17 15:11	50
N-Nitrosodiphenylamine	<160		160	30	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Bromophenyl phenyl ether	<400		400	43	ug/L		11/01/17 08:17	11/01/17 15:11	50

KJ. 12/6/17

Client Sample ID: CRMS-SW-02-103117
Date Collected: 10/31/17 08:05
Date Received: 10/31/17 10:30

Lab Sample ID: 500-136532-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<40	UJ	40	6.4	ug/L		11/01/17 08:17	11/01/17 15:11	50
Atrazine	<400	U	400	50	ug/L		11/01/17 08:17	11/01/17 15:11	50
Pentachlorophenol	<1600		1600	320	ug/L		11/01/17 08:17	11/01/17 15:11	50
Phenanthrene	<80		80	24	ug/L		11/01/17 08:17	11/01/17 15:11	50
Anthracene	<80		80	27	ug/L		11/01/17 08:17	11/01/17 15:11	50
Carbazole	<400		400	28	ug/L		11/01/17 08:17	11/01/17 15:11	50
Di-n-butyl phthalate	<400		400	58	ug/L		11/01/17 08:17	11/01/17 15:11	50
Fluoranthene	<80		80	36	ug/L		11/01/17 08:17	11/01/17 15:11	50
Pyrene	<80		80	34	ug/L		11/01/17 08:17	11/01/17 15:11	50
Butyl benzyl phthalate	<160		160	38	ug/L		11/01/17 08:17	11/01/17 15:11	50
3,3'-Dichlorobenzidine	<400		400	140	ug/L		11/01/17 08:17	11/01/17 15:11	50
Benzo[a]anthracene	<16		16	4.5	ug/L		11/01/17 08:17	11/01/17 15:11	50
Chrysene	<16		16	5.5	ug/L		11/01/17 08:17	11/01/17 15:11	50
Bis(2-ethylhexyl) phthalate	<800		800	140	ug/L		11/01/17 08:17	11/01/17 15:11	50
Di-n-octyl phthalate	<800		800	84	ug/L		11/01/17 08:17	11/01/17 15:11	50
Benzo[b]fluoranthene	<16		16	6.5	ug/L		11/01/17 08:17	11/01/17 15:11	50
Benzo[k]fluoranthene	<16		16	5.1	ug/L		11/01/17 08:17	11/01/17 15:11	50
Benzo[a]pyrene	<16		16	7.9	ug/L		11/01/17 08:17	11/01/17 15:11	50
Indeno[1,2,3-cd]pyrene	<16		16	6.0	ug/L		11/01/17 08:17	11/01/17 15:11	50
Dibenz(a,h)anthracene	<24		24	4.1	ug/L		11/01/17 08:17	11/01/17 15:11	50
Benzo[g,h,i]perylene	<80		80	30	ug/L		11/01/17 08:17	11/01/17 15:11	50
3 & 4 Methylphenol	<160		160	36	ug/L		11/01/17 08:17	11/01/17 15:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*D*	*27 - 110*	*11/01/17 08:17*	*11/01/17 15:11*	*50*
Phenol-d5 (Surr)	*0*	*D*	*20 - 100*	*11/01/17 08:17*	*11/01/17 15:11*	*50*
Nitrobenzene-d5 (Surr)	*0*	*D*	*36 - 120*	*11/01/17 08:17*	*11/01/17 15:11*	*50*
2-Fluorobiphenyl (Surr)	*0*	*D*	*34 - 110*	*11/01/17 08:17*	*11/01/17 15:11*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*40 - 145*	*11/01/17 08:17*	*11/01/17 15:11*	*50*
Terphenyl-d14 (Surr)	*0*	*D*	*40 - 145*	*11/01/17 08:17*	*11/01/17 15:11*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.0	U	4.0	0.67	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1221	<4.0		4.0	2.0	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1232	<4.0		4.0	2.0	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1242	<4.0		4.0	2.0	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1248	<4.0		4.0	2.0	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1254	<4.0		4.0	2.0	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1260	<4.0		4.0	0.70	ug/L		11/01/17 10:02	11/07/17 20:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*30 - 120*	*11/01/17 10:02*	*11/07/17 20:00*	*10*
DCB Decachlorobiphenyl	*111*		*30 - 140*	*11/01/17 10:02*	*11/07/17 20:00*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.048**	J-	0.033	0.012	mg/L		10/31/17 16:02	11/02/17 12:03	1
Barium	**1.4**		0.033	0.0041	mg/L		10/31/17 16:02	11/01/17 18:19	1
Cadmium	**0.019**	B J+	0.0067	0.0014	mg/L		10/31/17 16:02	11/01/17 18:19	1

KJ. 12/4/17

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136532-1

Client Sample ID: CRMS-SW-02-103117
Date Collected: 10/31/17 08:05
Date Received: 10/31/17 10:30

Lab Sample ID: 500-136532-1
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.33	J-	0.033	0.0056	mg/L		10/31/17 16:02	11/01/17 18:19	1
Lead	1.1	J+	0.017	0.0090	mg/L		10/31/17 16:02	11/01/17 18:19	1
Selenium	0.046	J+	0.033	0.018	mg/L		10/31/17 16:02	11/01/17 18:19	1
Silver	0.013	J+	0.017	0.0049	mg/L		10/31/17 16:02	11/01/17 18:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3		0.20	0.098	ug/L		11/01/17 11:10	11/02/17 09:01	1

KJ. 12/6/17

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136532-1

Client Sample ID: CRMS-SW-03-103117

Lab Sample ID: 500-136532-2

Date Collected: 10/31/17 08:25
Date Received: 10/31/17 10:30

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0	U	1.0	0.38	ug/L			11/08/17 18:39	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40	ug/L			11/08/17 18:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46	ug/L			11/08/17 18:39	1
1,1,2-Trichloroethane	<1.0	UJ	1.0	0.35	ug/L			11/08/17 18:39	1
1,1-Dichloroethane	<1.0	U	1.0	0.41	ug/L			11/08/17 18:39	1
1,1-Dichloroethene	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
1,2,4-Trichlorobenzene	<1.0		1.0	0.34	ug/L			11/08/17 18:39	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0	ug/L			11/08/17 18:39	1
1,2-Dibromoethane	<1.0	UJ	1.0	0.39	ug/L			11/08/17 18:39	1
1,2-Dichlorobenzene	<1.0	U	1.0	0.33	ug/L			11/08/17 18:39	1
1,2-Dichloroethane	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
1,2-Dichloropropane	<1.0		1.0	0.43	ug/L			11/08/17 18:39	1
1,3-Dichlorobenzene	<1.0		1.0	0.40	ug/L			11/08/17 18:39	1
1,4-Dichlorobenzene	<1.0		1.0	0.36	ug/L			11/08/17 18:39	1
2-Hexanone	<5.0		5.0	1.6	ug/L			11/08/17 18:39	1
Acetone	**40**		5.0	1.7	ug/L			11/08/17 18:39	1
Benzene	<0.50	U	0.50	0.15	ug/L			11/08/17 18:39	1
Bromodichloromethane	<1.0		1.0	0.37	ug/L			11/08/17 18:39	1
Bromoform	<1.0		1.0	0.48	ug/L			11/08/17 18:39	1
Bromomethane	<2.0	UJ	2.0	0.80	ug/L			11/08/17 18:39	1
Carbon disulfide	<2.0	U	2.0	0.45	ug/L			11/08/17 18:39	1
Carbon tetrachloride	<1.0		1.0	0.38	ug/L			11/08/17 18:39	1
Chlorobenzene	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
Chloroethane	<1.0		1.0	0.51	ug/L			11/08/17 18:39	1
Chloroform	**1.1**	J	2.0	0.37	ug/L			11/08/17 18:39	1
Chloromethane	<1.0	U	1.0	0.32	ug/L			11/08/17 18:39	1
cis-1,2-Dichloroethene	<1.0	U	1.0	0.41	ug/L			11/08/17 18:39	1
cis-1,3-Dichloropropene	<1.0	UJ	1.0	0.42	ug/L			11/08/17 18:39	1
Cyclohexane	<1.0	U	1.0	0.49	ug/L			11/08/17 18:39	1
Dibromochloromethane	<1.0	UJ	1.0	0.49	ug/L			11/08/17 18:39	1
Dichlorodifluoromethane	<2.0	U	2.0	0.67	ug/L			11/08/17 18:39	1
Ethylbenzene	<0.50		0.50	0.18	ug/L			11/08/17 18:39	1
Isopropylbenzene	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
Methyl acetate	<5.0		5.0	2.0	ug/L			11/08/17 18:39	1
Methyl Ethyl Ketone	<5.0		5.0	2.1	ug/L			11/08/17 18:39	1
methyl isobutyl ketone	<5.0		5.0	2.2	ug/L			11/08/17 18:39	1
Methyl tert-butyl ether	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
Methylcyclohexane	<1.0		1.0	0.32	ug/L			11/08/17 18:39	1
Methylene Chloride	<5.0		5.0	1.6	ug/L			11/08/17 18:39	1
Styrene	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
Tetrachloroethene	<1.0		1.0	0.37	ug/L			11/08/17 18:39	1
Toluene	<0.50		0.50	0.15	ug/L			11/08/17 18:39	1
trans-1,2-Dichloroethene	<1.0		1.0	0.35	ug/L			11/08/17 18:39	1
trans-1,3-Dichloropropene	<1.0	UJ	1.0	0.36	ug/L			11/08/17 18:39	1
Trichloroethene	<0.50	U	0.50	0.16	ug/L			11/08/17 18:39	1
Trichlorofluoromethane	<1.0		1.0	0.43	ug/L			11/08/17 18:39	1
Vinyl chloride	<0.50		0.50	0.20	ug/L			11/08/17 18:39	1
Xylenes, Total	<1.0		1.0	0.22	ug/L			11/08/17 18:39	1

KJ. 12/6/17

Client Sample Results

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136532-1

Client Sample ID: CRMS-SW-03-103117

Lab Sample ID: 500-136532-2

Date Collected: 10/31/17 08:25
Date Received: 10/31/17 10:30

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 126		11/08/17 18:39	1
4-Bromofluorobenzene (Surr)	93		72 - 124		11/08/17 18:39	1
Dibromofluoromethane	93		75 - 120		11/08/17 18:39	1
Toluene-d8 (Surr)	88		75 - 120		11/08/17 18:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<32	UJ	32	12	ug/L		11/01/17 08:17	11/01/17 14:45	1
Phenol	<4.0	U	4.0	0.54	ug/L		11/01/17 08:17	11/01/17 14:45	1
Bis(2-chloroethyl)ether	<1.6	UJ	1.6	0.23	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Chlorophenol	<4.0	U	4.0	0.45	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Methylphenol	<1.6	U	1.6	0.24	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,2'-oxybis[1-chloropropane]	<1.6	UJ	1.6	0.30	ug/L		11/01/17 08:17	11/01/17 14:45	1
Acetophenone	<4.0	U	4.0	0.53	ug/L		11/01/17 08:17	11/01/17 14:45	1
N-Nitrosodi-n-propylamine	<0.40		0.40	0.12	ug/L		11/01/17 08:17	11/01/17 14:45	1
Hexachloroethane	<4.0		4.0	0.48	ug/L		11/01/17 08:17	11/01/17 14:45	1
Nitrobenzene	<0.80		0.80	0.36	ug/L		11/01/17 08:17	11/01/17 14:45	1
Isophorone	<1.6		1.6	0.30	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Nitrophenol	<8.0		8.0	2.0	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4-Dimethylphenol	<8.0		8.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:45	1
Bis(2-chloroethoxy)methane	<1.6		1.6	0.23	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4-Dichlorophenol	<8.0		8.0	2.1	ug/L		11/01/17 08:17	11/01/17 14:45	1
Naphthalene	<0.80		0.80	0.25	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Chloroaniline	<8.0		8.0	1.6	ug/L		11/01/17 08:17	11/01/17 14:45	1
Hexachlorobutadiene	<4.0	UJ	4.0	0.41	ug/L		11/01/17 08:17	11/01/17 14:45	1
Caprolactam	<8.0	U	8.0	1.2	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Chloro-3-methylphenol	<8.0	U	8.0	1.8	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Methylnaphthalene	**0.14**	J	1.6	0.052	ug/L		11/01/17 08:17	11/01/17 14:45	1
Hexachlorocyclopentadiene	<16	U	16	5.1	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4,6-Trichlorophenol	<4.0		4.0	0.57	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4,5-Trichlorophenol	<8.0		8.0	2.1	ug/L		11/01/17 08:17	11/01/17 14:45	1
1,1'-Biphenyl	<4.0		4.0	0.29	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Chloronaphthalene	<1.6		1.6	0.19	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Nitroaniline	<4.0		4.0	1.0	ug/L		11/01/17 08:17	11/01/17 14:45	1
Dimethyl phthalate	<4.0		4.0	0.25	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,6-Dinitrotoluene	<0.80		0.80	0.059	ug/L		11/01/17 08:17	11/01/17 14:45	1
Acenaphthylene	<0.80		0.80	0.21	ug/L		11/01/17 08:17	11/01/17 14:45	1
3-Nitroaniline	<8.0		8.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:45	1
Acenaphthene	<0.80		0.80	0.25	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4-Dinitrophenol	<16		16	6.9	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Nitrophenol	<16		16	5.9	ug/L		11/01/17 08:17	11/01/17 14:45	1
Dibenzofuran	<1.6		1.6	0.21	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4-Dinitrotoluene	<0.80		0.80	0.20	ug/L		11/01/17 08:17	11/01/17 14:45	1
Diethyl phthalate	**0.41**	J	4.0	0.29	ug/L		11/01/17 08:17	11/01/17 14:45	1
Fluorene	<0.80	U	0.80	0.20	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Chlorophenyl phenyl ether	<4.0		4.0	0.51	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Nitroaniline	<8.0		8.0	1.3	ug/L		11/01/17 08:17	11/01/17 14:45	1
4,6-Dinitro-2-methylphenol	<16		16	4.7	ug/L		11/01/17 08:17	11/01/17 14:45	1
N-Nitrosodiphenylamine	<1.6		1.6	0.30	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Bromophenyl phenyl ether	<4.0		4.0	0.43	ug/L		11/01/17 08:17	11/01/17 14:45	1

KJ. 12/6/17

Client Sample ID: CRMS-SW-03-103117

Lab Sample ID: 500-136532-2

Date Collected: 10/31/17 08:25
Date Received: 10/31/17 10:30

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<0.40	UJ	0.40	0.064	ug/L		11/01/17 08:17	11/01/17 14:45	1
Atrazine	<4.0		4.0	0.50	ug/L		11/01/17 08:17	11/01/17 14:45	1
Pentachlorophenol	<16		16	3.2	ug/L		11/01/17 08:17	11/01/17 14:45	1
Phenanthrene	<0.80		0.80	0.24	ug/L		11/01/17 08:17	11/01/17 14:45	1
Anthracene	<0.80		0.80	0.27	ug/L		11/01/17 08:17	11/01/17 14:45	1
Carbazole	<4.0		4.0	0.28	ug/L		11/01/17 08:17	11/01/17 14:45	1
Di-n-butyl phthalate	<4.0		4.0	0.58	ug/L		11/01/17 08:17	11/01/17 14:45	1
Fluoranthene	<0.80		0.80	0.36	ug/L		11/01/17 08:17	11/01/17 14:45	1
Pyrene	<0.80		0.80	0.34	ug/L		11/01/17 08:17	11/01/17 14:45	1
Butyl benzyl phthalate	<1.6		1.6	0.38	ug/L		11/01/17 08:17	11/01/17 14:45	1
3,3'-Dichlorobenzidine	<4.0		4.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:45	1
Benzo[a]anthracene	<0.16		0.16	0.045	ug/L		11/01/17 08:17	11/01/17 14:45	1
Chrysene	<0.16		0.16	0.055	ug/L		11/01/17 08:17	11/01/17 14:45	1
Bis(2-ethylhexyl) phthalate	<8.0		8.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:45	1
Di-n-octyl phthalate	<8.0		8.0	0.84	ug/L		11/01/17 08:17	11/01/17 14:45	1
Benzo[b]fluoranthene	<0.16		0.16	0.065	ug/L		11/01/17 08:17	11/01/17 14:45	1
Benzo[k]fluoranthene	<0.16		0.16	0.051	ug/L		11/01/17 08:17	11/01/17 14:45	1
Benzo[a]pyrene	<0.16		0.16	0.079	ug/L		11/01/17 08:17	11/01/17 14:45	1
Indeno[1,2,3-cd]pyrene	<0.16		0.16	0.060	ug/L		11/01/17 08:17	11/01/17 14:45	1
Dibenz(a,h)anthracene	<0.24		0.24	0.041	ug/L		11/01/17 08:17	11/01/17 14:45	1
Benzo[g,h,i]perylene	<0.80		0.80	0.30	ug/L		11/01/17 08:17	11/01/17 14:45	1
3 & 4 Methylphenol	<1.6		1.6	0.36	ug/L		11/01/17 08:17	11/01/17 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	50		27 - 110	11/01/17 08:17	11/01/17 14:45	1
Phenol-d5 (Surr)	36		20 - 100	11/01/17 08:17	11/01/17 14:45	1
Nitrobenzene-d5 (Surr)	68		36 - 120	11/01/17 08:17	11/01/17 14:45	1
2-Fluorobiphenyl (Surr)	65		34 - 110	11/01/17 08:17	11/01/17 14:45	1
2,4,6-Tribromophenol (Surr)	122		40 - 145	11/01/17 08:17	11/01/17 14:45	1
Terphenyl-d14 (Surr)	104		40 - 145	11/01/17 08:17	11/01/17 14:45	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.40	U	0.40	0.067	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1221	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1232	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1242	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1248	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1254	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1260	<0.40		0.40	0.070	ug/L		11/01/17 10:02	11/07/17 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	95		30 - 120	11/01/17 10:02	11/07/17 20:16	1
DCB Decachlorobiphenyl	59		30 - 140	11/01/17 10:02	11/07/17 20:16	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010	UJ	0.010	0.0037	mg/L		10/31/17 16:02	11/01/17 18:27	1
Barium	**0.031**		0.010	0.0012	mg/L		10/31/17 16:02	11/01/17 18:27	1
Cadmium	~~0.0012~~	~~JB~~ U	0.0020	0.00043	mg/L		10/31/17 16:02	11/01/17 18:27	1

< 0.0020

KJ. 12/6/17

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136532-1

Client Sample ID: CRMS-SW-03-103117
Date Collected: 10/31/17 08:25
Date Received: 10/31/17 10:30

Lab Sample ID: 500-136532-2
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010	U5	0.010	0.0017	mg/L		10/31/17 16:02	11/01/17 18:27	1
Lead	<0.0050	U	0.0050	0.0027	mg/L		10/31/17 16:02	11/01/17 18:27	1
Selenium	<0.010	↓	0.010	0.0053	mg/L		10/31/17 16:02	11/01/17 18:27	1
Silver	<0.0050		0.0050	0.0015	mg/L		10/31/17 16:02	11/01/17 18:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20	U	0.20	0.098	ug/L		11/01/17 11:10	11/02/17 09:02	1

K.T. 12/6/17

Client Sample ID: Trip Blank

Lab Sample ID: 500-136532-3
Matrix: Water

Date Collected: 10/31/17 00:00
Date Received: 10/31/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0	U	1.0	0.38	ug/L			11/08/17 19:04	1
1,1,2,2-Tetrachloroethane	<1.0	U	1.0	0.40	ug/L			11/08/17 19:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0	U	1.0	0.46	ug/L			11/08/17 19:04	1
1,1,2-Trichloroethane	<1.0	UJ	1.0	0.35	ug/L			11/08/17 19:04	1
1,1-Dichloroethane	<1.0	U	1.0	0.41	ug/L			11/08/17 19:04	1
1,1-Dichloroethene	<1.0	U	1.0	0.39	ug/L			11/08/17 19:04	1
1,2,4-Trichlorobenzene	<1.0	U	1.0	0.34	ug/L			11/08/17 19:04	1
1,2-Dibromo-3-Chloropropane	<5.0	U	5.0	2.0	ug/L			11/08/17 19:04	1
1,2-Dibromoethane	<1.0	UJ	1.0	0.39	ug/L			11/08/17 19:04	1
1,2-Dichlorobenzene	<1.0	U	1.0	0.33	ug/L			11/08/17 19:04	1
1,2-Dichloroethane	<1.0	U	1.0	0.39	ug/L			11/08/17 19:04	1
1,2-Dichloropropane	<1.0	U	1.0	0.43	ug/L			11/08/17 19:04	1
1,3-Dichlorobenzene	<1.0	U	1.0	0.40	ug/L			11/08/17 19:04	1
1,4-Dichlorobenzene	<1.0	U	1.0	0.36	ug/L			11/08/17 19:04	1
2-Hexanone	<5.0	U	5.0	1.6	ug/L			11/08/17 19:04	1
Acetone	<5.0	U	5.0	1.7	ug/L			11/08/17 19:04	1
Benzene	<0.50	U	0.50	0.15	ug/L			11/08/17 19:04	1
Bromodichloromethane	<1.0	U	1.0	0.37	ug/L			11/08/17 19:04	1
Bromoform	<1.0	U	1.0	0.48	ug/L			11/08/17 19:04	1
Bromomethane	<2.0	UJ	2.0	0.80	ug/L			11/08/17 19:04	1
Carbon disulfide	<2.0	U	2.0	0.45	ug/L			11/08/17 19:04	1
Carbon tetrachloride	<1.0	U	1.0	0.38	ug/L			11/08/17 19:04	1
Chlorobenzene	<1.0	U	1.0	0.39	ug/L			11/08/17 19:04	1
Chloroethane	<1.0	U	1.0	0.51	ug/L			11/08/17 19:04	1
Chloroform	<2.0	U	2.0	0.37	ug/L			11/08/17 19:04	1
Chloromethane	<1.0	U	1.0	0.32	ug/L			11/08/17 19:04	1
cis-1,2-Dichloroethene	<1.0	U	1.0	0.41	ug/L			11/08/17 19:04	1
cis-1,3-Dichloropropene	<1.0	UJ	1.0	0.42	ug/L			11/08/17 19:04	1
Cyclohexane	<1.0	U	1.0	0.49	ug/L			11/08/17 19:04	1
Dibromochloromethane	<1.0	UJ	1.0	0.49	ug/L			11/08/17 19:04	1
Dichlorodifluoromethane	<2.0	U	2.0	0.67	ug/L			11/08/17 19:04	1
Ethylbenzene	<0.50	U	0.50	0.18	ug/L			11/08/17 19:04	1
Isopropylbenzene	<1.0	U	1.0	0.39	ug/L			11/08/17 19:04	1
Methyl acetate	<5.0	U	5.0	2.0	ug/L			11/08/17 19:04	1
Methyl Ethyl Ketone	<5.0	U	5.0	2.1	ug/L			11/08/17 19:04	1
methyl isobutyl ketone	<5.0	U	5.0	2.2	ug/L			11/08/17 19:04	1
Methyl tert-butyl ether	<1.0	U	1.0	0.39	ug/L			11/08/17 19:04	1
Methylcyclohexane	<1.0	U	1.0	0.32	ug/L			11/08/17 19:04	1
Methylene Chloride	<5.0	U	5.0	1.6	ug/L			11/08/17 19:04	1
Styrene	<1.0	U	1.0	0.39	ug/L			11/08/17 19:04	1
Tetrachloroethene	<1.0	U	1.0	0.37	ug/L			11/08/17 19:04	1
Toluene	<0.50	U	0.50	0.15	ug/L			11/08/17 19:04	1
trans-1,2-Dichloroethene	<1.0	U	1.0	0.35	ug/L			11/08/17 19:04	1
trans-1,3-Dichloropropene	<1.0	UJ	1.0	0.36	ug/L			11/08/17 19:04	1
Trichloroethene	<0.50	U	0.50	0.16	ug/L			11/08/17 19:04	1
Trichlorofluoromethane	<1.0	U	1.0	0.43	ug/L			11/08/17 19:04	1
Vinyl chloride	<0.50	U	0.50	0.20	ug/L			11/08/17 19:04	1
Xylenes, Total	<1.0	U	1.0	0.22	ug/L			11/08/17 19:04	1

KJ. 12/6/17

DATA VALIDATION CHECKLIST – STAGE 4
EPA REGION 5 START CONTRACT

Site Name	Bubbly Creek Mystery ER	**TDD No.**	0004-1710-010
Document Tracking No.	2200C		
Data Reviewer (signature and date)	Kelly D Thomas November 29, 2017	**Technical Reviewer (signature and date)**	Jessica A. Vickers December 6, 2017
Laboratory Report No.	J136788-1	**Laboratory**	TestAmerica Laboratories/Chicago, Illinois
Analyses	Volatile organic compounds (VOCs) by SW-846 Method 8260B, semivolatile organic compounds (SVOCs) by SW-846 Method 8270D, polychlorinated biphenyls (PCBs) by SW-846 Method 8082A, and metals by SW-846 Methods 6010C and 7470A		
Samples and Matrix	One water sample		
Field Duplicate Pairs	None		
Field Blanks	None		

INTRODUCTION

This checklist summarizes the Stage 4 validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (January 2017) and the EPA *NFG for Inorganic Superfund Methods Data Review* (January 2017).

OVERALL EVALUATION

No rejection of results was required for this data package. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
Y	

Instrument Performance Checks:

Within Criteria	Exceedance/Notes
Y	

Initial Calibration:

Within Criteria	Exceedance/Notes
N	In the metals analysis, the percent recovery for cadmium in the low level initial calibration verification was above the acceptable range, and percent recoveries for lead and selenium were below the acceptance range. The lead and selenium results were qualified as estimated, possibly biased low (J-/UJ). No qualification was applied for cadmium because the result was non-detect after application of the blank contamination qualifier.

Continuing Calibration:

Within Criteria	Exceedance/Notes
N	In the VOC analysis, percent differences for 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane, 1,2-dichloroethane, bromomethane, bromoform, chloroethane, cis-1,3-dichloropropene, dibromochloromethane, and trans-1,3-dichloropropene exceeded the acceptable range. None of the analytes were detected in the sample; therefore, each was qualified as estimated (UJ). In the metals analysis, the percent recovery for selenium in the low level continuing calibration verification was below the acceptance range. The non-detect selenium result was qualified as estimated, possibly biased low (UJ).

Calibration Verification:

Within Criteria	Exceedance/Notes
N	In the SVOC analysis, the percent difference for benzaldehyde exceeded the acceptable range; therefore, the non-detect result was qualified as estimated (UJ).

Method blanks:

Within Criteria	Exceedance/Notes
N	In the metals analysis, cadmium was detected in the method blank below the reporting limit (RL). The result was below the reporting limit (RL) and was therefore elevated to the RL and qualified as non-detect (U).

Field blanks:

Within Criteria	Exceedance/Notes
NA	

Interference Check Samples (ICS) (ICP metals only):

Within Criteria	Exceedance/Notes
Y	

System monitoring compounds (surrogates and labeled compounds):

Within Criteria	Exceedance/Notes
Y	

MS/MSD:

Within Criteria	Exceedance/Notes
N	In the VOC analysis, recoveries of bromomethane and chloroethane were above the acceptable range in the MS. The average recoveries were within limits; therefore, no qualifications were applied. The relative percent differences (RPDs) for bromomethane, chloroethane, chloromethane, dichlorodifluoromethane, trichlorofluoromethane, and vinyl chloride were above the acceptable range; however, no qualifications were applied because the associated results were non-detect.

Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

Serial dilutions:

Within Criteria	Exceedance/Notes
NA	

Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	

Field duplicates:

Within Criteria	Exceedance/Notes
NA	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
N	In the VOC analysis, the percent recoveries for bromomethane and chloroethane were above the acceptance ranges; however, no qualifications were applied because the associated results were non-detect.

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	SVOCs were analyzed at a ten-fold dilution and metals (excluding mercury) were analyzed at a five-fold dilution.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

Second column confirmation (GC and HPLC analyses only):

Within Criteria	Exceedance/Notes
NA	

Internal Standards:

Within Criteria	Exceedance/Notes
Y	

Target analyte identification:

Within Criteria	Exceedance/Notes
Y	

Analyte quantitation and MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Results between the reporting limit and the MDL were qualified as estimated (J) by the laboratory.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

System performance and instrument stability:

Within Criteria	Exceedance/Notes
Y	

Other [specify]:

Within Criteria	Exceedance/Notes
NA	

Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

Client Sample ID: CRMS-SW-04-110317

Lab Sample ID: 500-136788-1

Date Collected: 11/03/17 15:35
Date Received: 11/03/17 17:56

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0	U	1.0	0.38	ug/L			11/10/17 17:48	1
1,1,2,2-Tetrachloroethane	<1.0	UJ	1.0	0.40	ug/L			11/10/17 17:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0	U	1.0	0.46	ug/L			11/10/17 17:48	1
1,1,2-Trichloroethane	<1.0	UJ	1.0	0.35	ug/L			11/10/17 17:48	1
1,1-Dichloroethane	<1.0	U	1.0	0.41	ug/L			11/10/17 17:48	1
1,1-Dichloroethene	<1.0	U	1.0	0.39	ug/L			11/10/17 17:48	1
1,2,4-Trichlorobenzene	<1.0	U	1.0	0.34	ug/L			11/10/17 17:48	1
1,2-Dibromo-3-Chloropropane	<5.0	UJ	5.0	2.0	ug/L			11/10/17 17:48	1
1,2-Dibromoethane	<1.0	UJ	1.0	0.39	ug/L			11/10/17 17:48	1
1,2-Dichlorobenzene	<1.0	U	1.0	0.33	ug/L			11/10/17 17:48	1
1,2-Dichloroethane	<1.0	UJ	1.0	0.39	ug/L			11/10/17 17:48	1
1,2-Dichloropropane	<1.0	U	1.0	0.43	ug/L			11/10/17 17:48	1
1,3-Dichlorobenzene	<1.0	U	1.0	0.40	ug/L			11/10/17 17:48	1
1,4-Dichlorobenzene	<1.0	U	1.0	0.36	ug/L			11/10/17 17:48	1
2-Hexanone	<5.0	U	5.0	1.6	ug/L			11/10/17 17:48	1
Acetone	6.9		5.0	1.7	ug/L			11/10/17 17:48	1
Benzene	<0.50	U	0.50	0.15	ug/L			11/10/17 17:48	1
Bromodichloromethane	<1.0	U	1.0	0.37	ug/L			11/10/17 17:48	1
Bromoform	<1.0	UJ	1.0	0.48	ug/L			11/10/17 17:48	1
Bromomethane	<2.0	~~F1 F2~~ UJ	2.0	0.80	ug/L			11/10/17 17:48	1
Carbon disulfide	<2.0	U	2.0	0.45	ug/L			11/10/17 17:48	1
Carbon tetrachloride	<1.0	U	1.0	0.38	ug/L			11/10/17 17:48	1
Chlorobenzene	<1.0	U	1.0	0.39	ug/L			11/10/17 17:48	1
Chloroethane	<1.0	~~F1 F2~~ UJ	1.0	0.51	ug/L			11/10/17 17:48	1
Chloroform	<2.0	U	2.0	0.37	ug/L			11/10/17 17:48	1
Chloromethane	<1.0	~~F2~~ ~~UJ~~ U	1.0	0.32	ug/L			11/10/17 17:48	1
cis-1,2-Dichloroethene	<1.0	U	1.0	0.41	ug/L			11/10/17 17:48	1
cis-1,3-Dichloropropene	<1.0	UJ	1.0	0.42	ug/L			11/10/17 17:48	1
Cyclohexane	<1.0	U	1.0	0.49	ug/L			11/10/17 17:48	1
Dibromochloromethane	<1.0	UJ	1.0	0.49	ug/L			11/10/17 17:48	1
Dichlorodifluoromethane	<2.0	~~F2~~ U	2.0	0.67	ug/L			11/10/17 17:48	1
Ethylbenzene	<0.50	U	0.50	0.18	ug/L			11/10/17 17:48	1
Isopropylbenzene	<1.0	U	1.0	0.39	ug/L			11/10/17 17:48	1
Methyl acetate	<5.0	U	5.0	2.0	ug/L			11/10/17 17:48	1
Methyl Ethyl Ketone	<5.0	U	5.0	2.1	ug/L			11/10/17 17:48	1
methyl isobutyl ketone	<5.0	U	5.0	2.2	ug/L			11/10/17 17:48	1
Methyl tert-butyl ether	<1.0	U	1.0	0.39	ug/L			11/10/17 17:48	1
Methylcyclohexane	<1.0	U	1.0	0.32	ug/L			11/10/17 17:48	1
Methylene Chloride	<5.0	U	5.0	1.6	ug/L			11/10/17 17:48	1
Styrene	<1.0	U	1.0	0.39	ug/L			11/10/17 17:48	1
Tetrachloroethene	<1.0	U	1.0	0.37	ug/L			11/10/17 17:48	1
Toluene	<0.50	U	0.50	0.15	ug/L			11/10/17 17:48	1
trans-1,2-Dichloroethene	<1.0	U	1.0	0.35	ug/L			11/10/17 17:48	1
trans-1,3-Dichloropropene	<1.0	UJ	1.0	0.36	ug/L			11/10/17 17:48	1
Trichloroethene	<0.50	U	0.50	0.16	ug/L			11/10/17 17:48	1
Trichlorofluoromethane	<1.0	~~F2~~ U	1.0	0.43	ug/L			11/10/17 17:48	1
Vinyl chloride	<0.50	~~F2~~ U	0.50	0.20	ug/L			11/10/17 17:48	1
Xylenes, Total	<1.0	U	1.0	0.22	ug/L			11/10/17 17:48	1

KJ. 12/6/17

Client Sample ID: CRMS-SW-04-110317
Date Collected: 11/03/17 15:35
Date Received: 11/03/17 17:56

Lab Sample ID: 500-136788-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		75 - 126		11/10/17 17:48	1
4-Bromofluorobenzene (Surr)	95		72 - 124		11/10/17 17:48	1
Dibromofluoromethane	90		75 - 120		11/10/17 17:48	1
Toluene-d8 (Surr)	88		75 - 120		11/10/17 17:48	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<320	U	320	120	ug/L		11/07/17 08:30	11/07/17 18:50	10
Phenol	<40	U	40	5.4	ug/L		11/07/17 08:30	11/07/17 18:50	10
Bis(2-chloroethyl)ether	<16		16	2.3	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Chlorophenol	<40		40	4.5	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Methylphenol	<16		16	2.4	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,2'-oxybis[1-chloropropane]	<16		16	3.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
Acetophenone	<40		40	5.3	ug/L		11/07/17 08:30	11/07/17 18:50	10
N-Nitrosodi-n-propylamine	<4.0		4.0	1.2	ug/L		11/07/17 08:30	11/07/17 18:50	10
Hexachloroethane	<40		40	4.8	ug/L		11/07/17 08:30	11/07/17 18:50	10
Nitrobenzene	<8.0		8.0	3.6	ug/L		11/07/17 08:30	11/07/17 18:50	10
Isophorone	<16		16	3.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Nitrophenol	<80		80	20	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4-Dimethylphenol	<80		80	14	ug/L		11/07/17 08:30	11/07/17 18:50	10
Bis(2-chloroethoxy)methane	<16		16	2.3	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4-Dichlorophenol	<80		80	21	ug/L		11/07/17 08:30	11/07/17 18:50	10
Naphthalene	<8.0		8.0	2.5	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Chloroaniline	<80		80	16	ug/L		11/07/17 08:30	11/07/17 18:50	10
Hexachlorobutadiene	<40		40	4.1	ug/L		11/07/17 08:30	11/07/17 18:50	10
Caprolactam	<80		80	12	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Chloro-3-methylphenol	<80		80	18	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Methylnaphthalene	1.8	J	16	0.52	ug/L		11/07/17 08:30	11/07/17 18:50	10
Hexachlorocyclopentadiene	<160	U	160	51	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4,6-Trichlorophenol	<40		40	5.7	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4,5-Trichlorophenol	<80		80	21	ug/L		11/07/17 08:30	11/07/17 18:50	10
1,1'-Biphenyl	<40		40	2.9	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Chloronaphthalene	<16		16	1.9	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Nitroaniline	<40		40	10	ug/L		11/07/17 08:30	11/07/17 18:50	10
Dimethyl phthalate	<40		40	2.5	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,6-Dinitrotoluene	<8.0		8.0	0.59	ug/L		11/07/17 08:30	11/07/17 18:50	10
Acenaphthylene	<8.0		8.0	2.1	ug/L		11/07/17 08:30	11/07/17 18:50	10
3-Nitroaniline	<80		80	14	ug/L		11/07/17 08:30	11/07/17 18:50	10
Acenaphthene	<8.0		8.0	2.5	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4-Dinitrophenol	<160		160	69	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Nitrophenol	<160		160	59	ug/L		11/07/17 08:30	11/07/17 18:50	10
Dibenzofuran	<16		16	2.1	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4-Dinitrotoluene	<8.0		8.0	2.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
Diethyl phthalate	<40		40	2.9	ug/L		11/07/17 08:30	11/07/17 18:50	10
Fluorene	<8.0		8.0	2.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Chlorophenyl phenyl ether	<40		40	5.1	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Nitroaniline	<80		80	13	ug/L		11/07/17 08:30	11/07/17 18:50	10
4,6-Dinitro-2-methylphenol	<160		160	47	ug/L		11/07/17 08:30	11/07/17 18:50	10
N-Nitrosodiphenylamine	<16		16	3.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Bromophenyl phenyl ether	<40		40	4.3	ug/L		11/07/17 08:30	11/07/17 18:50	10

KJ. 12/6/17

Client Sample ID: CRMS-SW-04-110317

Lab Sample ID: 500-136788-1
Matrix: Water

Date Collected: 11/03/17 15:35
Date Received: 11/03/17 17:56

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<4.0	U	4.0	0.64	ug/L		11/07/17 08:30	11/07/17 18:50	10
Atrazine	<40		40	5.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
Pentachlorophenol	<160		160	32	ug/L		11/07/17 08:30	11/07/17 18:50	10
Phenanthrene	**3.8**	**J**	8.0	2.4	ug/L		11/07/17 08:30	11/07/17 18:50	10
Anthracene	<8.0	U	8.0	2.7	ug/L		11/07/17 08:30	11/07/17 18:50	10
Carbazole	<40		40	2.8	ug/L		11/07/17 08:30	11/07/17 18:50	10
Di-n-butyl phthalate	<40		40	5.8	ug/L		11/07/17 08:30	11/07/17 18:50	10
Fluoranthene	<8.0		8.0	3.6	ug/L		11/07/17 08:30	11/07/17 18:50	10
Pyrene	**5.2**	**J**	8.0	3.4	ug/L		11/07/17 08:30	11/07/17 18:50	10
Butyl benzyl phthalate	<16	U	16	3.8	ug/L		11/07/17 08:30	11/07/17 18:50	10
3,3'-Dichlorobenzidine	<40		40	14	ug/L		11/07/17 08:30	11/07/17 18:50	10
Benzo[a]anthracene	<1.6		1.6	0.45	ug/L		11/07/17 08:30	11/07/17 18:50	10
Chrysene	<1.6		1.6	0.55	ug/L		11/07/17 08:30	11/07/17 18:50	10
Bis(2-ethylhexyl) phthalate	<80		80	14	ug/L		11/07/17 08:30	11/07/17 18:50	10
Di-n-octyl phthalate	<80		80	8.4	ug/L		11/07/17 08:30	11/07/17 18:50	10
Benzo[b]fluoranthene	<1.6		1.6	0.65	ug/L		11/07/17 08:30	11/07/17 18:50	10
Benzo[k]fluoranthene	<1.6		1.6	0.51	ug/L		11/07/17 08:30	11/07/17 18:50	10
Benzo[a]pyrene	<1.6		1.6	0.79	ug/L		11/07/17 08:30	11/07/17 18:50	10
Indeno[1,2,3-cd]pyrene	<1.6		1.6	0.60	ug/L		11/07/17 08:30	11/07/17 18:50	10
Dibenz(a,h)anthracene	<2.4		2.4	0.41	ug/L		11/07/17 08:30	11/07/17 18:50	10
Benzo[g,h,i]perylene	<8.0		8.0	3.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
3 & 4 Methylphenol	<16		16	3.6	ug/L		11/07/17 08:30	11/07/17 18:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*94*		*27 - 110*	*11/07/17 08:30*	*11/07/17 18:50*	*10*
Phenol-d5 (Surr)	*53*		*20 - 100*	*11/07/17 08:30*	*11/07/17 18:50*	*10*
Nitrobenzene-d5 (Surr)	*88*		*36 - 120*	*11/07/17 08:30*	*11/07/17 18:50*	*10*
2-Fluorobiphenyl (Surr)	*93*		*34 - 110*	*11/07/17 08:30*	*11/07/17 18:50*	*10*
2,4,6-Tribromophenol (Surr)	*92*		*40 - 145*	*11/07/17 08:30*	*11/07/17 18:50*	*10*
Terphenyl-d14 (Surr)	*99*		*40 - 145*	*11/07/17 08:30*	*11/07/17 18:50*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.40	U	0.40	0.067	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1221	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1232	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1242	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1248	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1254	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1260	<0.40		0.40	0.070	ug/L		11/06/17 08:38	11/07/17 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 120*	*11/06/17 08:38*	*11/07/17 01:40*	*1*
DCB Decachlorobiphenyl	*107*		*30 - 140*	*11/06/17 08:38*	*11/07/17 01:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050	U	0.050	0.018	mg/L		11/07/17 07:38	11/07/17 18:06	5
Barium	**0.12**		0.050	0.0062	mg/L		11/07/17 07:38	11/07/17 18:06	5
Cadmium	~~0.0035~~ < 0.010	~~J~~ U	0.010	0.0022	mg/L		11/07/17 07:38	11/07/17 18:06	5

K.I. 12/6/17

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136788-1

Client Sample ID: CRMS-SW-04-110317
Date Collected: 11/03/17 15:35
Date Received: 11/03/17 17:56

Lab Sample ID: 500-136788-1
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.022	J	0.050	0.0085	mg/L		11/07/17 07:38	11/07/17 18:06	5
Lead	0.061	J-	0.025	0.014	mg/L		11/07/17 07:38	11/07/17 18:06	5
Selenium	<0.050	UJ	0.050	0.027	mg/L		11/07/17 07:38	11/07/17 18:06	5
Silver	<0.025	U	0.025	0.0074	mg/L		11/07/17 07:38	11/07/17 18:06	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20	U	0.20	0.098	ug/L		11/06/17 14:30	11/07/17 07:08	1

K.T. 12/6/17

APPENDIX F

ENVIRONMENTALLY PREFERRED PRACTICES

START implemented environmentally preferred practices to maximize sustainability; reduce energy, water use, and toxic air emissions; promote carbon neutrality; and encourage industrial material reuse and recycling. In accordance with contract requirements, U.S. Environmental Protection Agency (EPA) policies, and relevant guidance, START documented project-specific environmentally preferred practices and available metrics in the Environmental Field Practices Checklist, Environmental Office Practices Checklist, and Green Metrics Table, (ASTM International 2016; EPA 2012a, 2012b, and 2016)

References:

ASTM International (ASTM). 2016. "Standard Guide for Greener Cleanups." E2893-16. April 1.

EPA. 2012a. "Methodology for Understanding and Reducing a Project's Environmental Footprint." Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation. EPA 542-R-12-002. February.

EPA. 2012b. "U.S. EPA Region 5 Superfund Greener Cleanup Implementation Strategy." March 16.

EPA. 2016. Memorandum Regarding Consideration of Greener Cleanup Activities in the Superfund Cleanup Process. From Woolford, James, Director, *et. al*. To Regional Superfund National Program Managers and Regional Counsels, Regions 1 – 10. August 2.

TDD #:	S05-0004-1710-010
Site Name:	Bubbly Creek Mystery Spill ER
Site City, State:	Chicago, Illinois
Site Project Manager:	Matt Villicana
EPA OSC:	Len Zintak and Robert Kondreck

Environmentally Preferred General Field Practices				
If a general category is not applicable, then check N/A for the category box, not for each subcategory.	N= Not Used	N/A= Not Applicable	Y = Yes Implemented	**Comments Section** Justify in the comments for each BMP field as to why the practice was not used, not applicable, or implemented.
Energy				
Use of Energy Efficient Equipment				
Computer Equipment (FEMP/Energy Star)			**Y**	Laptop is Energy Star
Installation of Electric Service		**N/A**		Did not have trailer onsite
Reduce Carbon Emissions from Transportation				
Use Internet Based Meetings/Conferences		**N/A**		
Maximize Carpooling	**N**			Due to rotation of responders, carpooling was not utilized
Use of Local Labor/Suppliers/Waste Disposal Facilities (50 mile radius)		**N/A**		Did not need extra labor
No idling, except for extreme weather conditions			**Y**	Only idled to warm up after being outside in cold conditions
Use of Alternative Fuels, if available within 10 miles		**N/A**		Could not utilize alternative fuels
Properly Inflated Tires			**Y**	
Email Small Files (less than 8MB)			**Y**	
Reusable Electronic Storage Media or the Cloud			**Y**	
Water				
Use of Low Flow Sampling Pumps		**N/A**		Only surface water was sampled, so pumps were not required.
Waste				
Use of Local Recycling Programs		**N/A**		Recycling not required
Use of Rechargeable Batteries			**Y**	Field Equipment utilized rechargeable batteries
Recycling – Other		**N/A**		No other was needed
Plastic Reduction			**Y**	Did not use plastic
Reuse of Resources	**N**			PPE could not be reused
Direct Push Boring		**N/A**		Did not conduct drilling
Materials				
Printing when Required				
Double-sided Printing			**Y**	Office printer is double-sided
100% post-consumer recycled paper			**Y**	Office uses recycled paper

Environmentally Preferred General Field Practices				
If a general category is not applicable, then check N/A for the category box, not for each subcategory.	N= Not Used	N/A= Not Applicable	Y = Yes Implemented	**Comments Section** Justify in the comments for each BMP field as to why the practice was not used, not applicable, or implemented.
Land & Ecosystems				
Minimize Disruption to Natural Vegetation	**N**			Some removal of oil-impacted vegetation was required
Use of Non-invasive Investigation Techniques		**N/A**		Did not investigate
Environmentally Preferred				
Green Procurement				
Environmentally Preferred Vendors		**N/A**		Vendors not utilized
Green Lodging/Hotels		**N/A**		Lodging not required
Use of Green Laboratories	**N**			Due to turnaround time requirements, local laboratories were utilized.

TDD #: S05-0004-1710-010

Site Name: Bubbly Creek Mystery Spill - ER

Site City, State: Chicago, Illinois

Site Project Manager: Matt Villicana

EPA OSC: Len Zintak and Robert Kodreck

Green Metrics		
Metric	**Amount**	**Unit of Measure**
Diesel Fuel Used		gallons
Distance Traveled[1]	180.00	Miles
Unleaded Fuel Used[2]	7.30	gallons
Alternative/E-85 Fuel Used		gallons
Electricity from Coal		kW
Electricity from Natural Gas		kW
Electricity from solar/wind		kW
Electricity from grid/mix		kW
Solid waste reused		lbs
Solid waste recycled		lbs
Water Used		gallons

Greenhouse Gas Emissions (Site Specific)					
Source	**Amount Used**	**Unit of Measure**	**Methane (CH4) (Grams)[3]**	**Nitrous Oxide (N_2O) (Grams)[3]**	**Carbon Dioxide (CO2) (Kilograms)[3]**
Gasoline	7.30	X gallons	1.19	2.93	65.04
Diesel		X gallons			
E-85		X gallons			
Electricity Office		X Kilowatts			
Natural Gas		X Therms			
Solid Waste		X lbs			
Other		X Unit of Measure			

Note:

[1] Distance traveled based on three round trips between the Tetra Tech Chicago office and the site, which totaled 180 miles.

[2] Fuel consumption based on distance traveled in a large sport utility vehicle. An average fuel efficiency of 24.7 miles per gallon was assumed based on 2011 light duty truck fuel efficiency from "Average Fuel Efficiency of U.S. Light Duty Vehicles," U.S. Department of Transportation, Bureau of Statistics Table 4-23 (Accessed online at http://www.rita.dot.gov/bts/sites/rita.dot.gov.bts/files/publications/national_transportation_statistics/html/table_04_23.html on December 9, 2016).

[3] Methane and nitrous oxide emissions based on emission factors of 0.0066 and 0.0163 grams per mile for EPA Tier 2 light duty gasoline trucks from "Voluntary Reporting of Greenhouse Gases Program, Fuel Emission Coefficients, Table 5" (Accessed online at http://205.254.135.7/oiaf/1605/coefficients.html on December 9, 2016)

[4] Carbon dioxide emissions based on emission factors of 8.91 kilograms carbon dioxide per gallon of gasoline and 10.15 kilograms carbon dioxide per gallon of diesel fuel from "Voluntary Reporting of Greenhouse Gases Program, Fuel Emission Coefficients, Table 2" (Accessed online at http://205.254.135.7/oiaf/1605/coefficients.html on November 14, 2016).

ANALYTICAL REPORT

Job Number: 500-136329-1

Job Description: Chicago River Mystery Spill

For:
Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, IL 60606

Attention: Mr. Matt Villicana

Approved for release.
Therese M Hargraves
Project Manager I
11/16/2017 3:45 PM

Therese M Hargraves, Project Manager I
2417 Bond Street, University Park, IL, 60484
therese.hargraves@testamericainc.com
11/16/2017

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

Table of Contents

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
500-136329-1

Comments
No additional comments.

Receipt
The sample was received on 10/26/2017 2:05 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 17.2º C.

Receipt Exceptions

TOX canceled on 10/27/17.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix (hydrocarbon background): CRMS-SW-01-102617 (500-136329-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: Surrogate recovery for the following sample was outside control limits: CRMS-SW-01-102617 (500-136329-1). Evidence of matrix interference is present; therefore, re-extraction was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The interference check standard solution (ICSA) associated with Analytical batch 500-407357 had results for Arsenic and Lead above the reporting limit (RL). Associated samples CRMS-SW-01-102617 (500-136329-1) were non-detects for Arsenic and Lead, therefore the data has been reported.

Method(s) 6010C: The low-level CCV at line 25 in 6010C batch 500-407357 was above the method acceptance limits of 70-130% recovery for Arsenic and Lead. The sample CRMS-SW-01-102617 (500-136329-1) was bracketed. The sample was a non-detect for Arsenic and Lead, therefore the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136329-1

Client Sample ID: CRMS-SW-01-102617

Lab Sample ID: 500-136329-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	27		5.0	1.7	ug/L	1		8260B	Total/NA
Toluene	0.33	J	0.50	0.15	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	8.2	J	16	0.52	ug/L	10		8270D	Total/NA
1,1'-Biphenyl	7.8	J	40	2.9	ug/L	10		8270D	Total/NA
Phenanthrene	2.6	J	8.0	2.4	ug/L	10		8270D	Total/NA
Pyrene	4.6	J	8.0	3.4	ug/L	10		8270D	Total/NA
Barium	0.030		0.010	0.0012	mg/L	1		6010C	Total/NA
Cadmium	0.00099	J B	0.0020	0.00043	mg/L	1		6010C	Total/NA
Lead	0.0031	J ^	0.0050	0.0027	mg/L	1		6010C	Total/NA
Flashpoint	>176		40.0	40.0	Degrees F	1		1010A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: CRMS-SW-01-102617 Lab Sample ID: 500-136329-1

Date Collected: 10/26/17 11:48 **Matrix: Water**
Date Received: 10/26/17 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<2.0		2.0	0.67	ug/L			10/27/17 06:51	1
Chloromethane	<1.0		1.0	0.32	ug/L			10/27/17 06:51	1
Vinyl chloride	<0.50		0.50	0.20	ug/L			10/27/17 06:51	1
Bromomethane	<2.0		2.0	0.80	ug/L			10/27/17 06:51	1
Chloroethane	<1.0		1.0	0.51	ug/L			10/27/17 06:51	1
Trichlorofluoromethane	<1.0		1.0	0.43	ug/L			10/27/17 06:51	1
1,1-Dichloroethene	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46	ug/L			10/27/17 06:51	1
Acetone	**27**		5.0	1.7	ug/L			10/27/17 06:51	1
Carbon disulfide	<2.0		2.0	0.45	ug/L			10/27/17 06:51	1
Methyl acetate	<5.0		5.0	2.0	ug/L			10/27/17 06:51	1
Methylene Chloride	<5.0		5.0	1.6	ug/L			10/27/17 06:51	1
trans-1,2-Dichloroethene	<1.0		1.0	0.35	ug/L			10/27/17 06:51	1
Methyl tert-butyl ether	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
1,1-Dichloroethane	<1.0		1.0	0.41	ug/L			10/27/17 06:51	1
cis-1,2-Dichloroethene	<1.0		1.0	0.41	ug/L			10/27/17 06:51	1
Methyl Ethyl Ketone	<5.0		5.0	2.1	ug/L			10/27/17 06:51	1
Chloroform	<2.0		2.0	0.37	ug/L			10/27/17 06:51	1
1,1,1-Trichloroethane	<1.0		1.0	0.38	ug/L			10/27/17 06:51	1
Cyclohexane	<1.0		1.0	0.49	ug/L			10/27/17 06:51	1
Carbon tetrachloride	<1.0		1.0	0.38	ug/L			10/27/17 06:51	1
Benzene	<0.50		0.50	0.15	ug/L			10/27/17 06:51	1
1,2-Dichloroethane	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
Trichloroethene	<0.50		0.50	0.16	ug/L			10/27/17 06:51	1
Methylcyclohexane	<1.0		1.0	0.32	ug/L			10/27/17 06:51	1
1,2-Dichloropropane	<1.0		1.0	0.43	ug/L			10/27/17 06:51	1
Bromodichloromethane	<1.0		1.0	0.37	ug/L			10/27/17 06:51	1
cis-1,3-Dichloropropene	<1.0		1.0	0.42	ug/L			10/27/17 06:51	1
methyl isobutyl ketone	<5.0		5.0	2.2	ug/L			10/27/17 06:51	1
Toluene	**0.33**	**J**	0.50	0.15	ug/L			10/27/17 06:51	1
trans-1,3-Dichloropropene	<1.0		1.0	0.36	ug/L			10/27/17 06:51	1
1,1,2-Trichloroethane	<1.0		1.0	0.35	ug/L			10/27/17 06:51	1
Tetrachloroethene	<1.0		1.0	0.37	ug/L			10/27/17 06:51	1
2-Hexanone	<5.0		5.0	1.6	ug/L			10/27/17 06:51	1
Dibromochloromethane	<1.0		1.0	0.49	ug/L			10/27/17 06:51	1
1,2-Dibromoethane	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
Chlorobenzene	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
Ethylbenzene	<0.50		0.50	0.18	ug/L			10/27/17 06:51	1
Xylenes, Total	<1.0		1.0	0.22	ug/L			10/27/17 06:51	1
Styrene	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
Bromoform	<1.0		1.0	0.48	ug/L			10/27/17 06:51	1
Isopropylbenzene	<1.0		1.0	0.39	ug/L			10/27/17 06:51	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40	ug/L			10/27/17 06:51	1
1,3-Dichlorobenzene	<1.0		1.0	0.40	ug/L			10/27/17 06:51	1
1,4-Dichlorobenzene	<1.0		1.0	0.36	ug/L			10/27/17 06:51	1
1,2-Dichlorobenzene	<1.0		1.0	0.33	ug/L			10/27/17 06:51	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0	ug/L			10/27/17 06:51	1
1,2,4-Trichlorobenzene	<1.0		1.0	0.34	ug/L			10/27/17 06:51	1

Client Sample ID: CRMS-SW-01-102617 Lab Sample ID: 500-136329-1

Date Collected: 10/26/17 11:48 **Matrix: Water**
Date Received: 10/26/17 14:05

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*10/27/17 06:51*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*10/27/17 06:51*	*1*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*		*10/27/17 06:51*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*10/27/17 06:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<320	^	320	120	ug/L		10/27/17 07:20	10/27/17 11:07	10
Phenol	<40		40	5.4	ug/L		10/27/17 07:20	10/27/17 11:07	10
Bis(2-chloroethyl)ether	<16		16	2.3	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Chlorophenol	<40		40	4.5	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Methylphenol	<16		16	2.4	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,2'-oxybis[1-chloropropane]	<16		16	3.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
Acetophenone	<40		40	5.3	ug/L		10/27/17 07:20	10/27/17 11:07	10
N-Nitrosodi-n-propylamine	<4.0		4.0	1.2	ug/L		10/27/17 07:20	10/27/17 11:07	10
Hexachloroethane	<40		40	4.8	ug/L		10/27/17 07:20	10/27/17 11:07	10
Nitrobenzene	<8.0		8.0	3.6	ug/L		10/27/17 07:20	10/27/17 11:07	10
Isophorone	<16		16	3.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Nitrophenol	<80		80	20	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4-Dimethylphenol	<80		80	14	ug/L		10/27/17 07:20	10/27/17 11:07	10
Bis(2-chloroethoxy)methane	<16		16	2.3	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4-Dichlorophenol	<80		80	21	ug/L		10/27/17 07:20	10/27/17 11:07	10
Naphthalene	<8.0		8.0	2.5	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Chloroaniline	<80		80	16	ug/L		10/27/17 07:20	10/27/17 11:07	10
Hexachlorobutadiene	<40		40	4.1	ug/L		10/27/17 07:20	10/27/17 11:07	10
Caprolactam	<80		80	12	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Chloro-3-methylphenol	<80		80	18	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Methylnaphthalene	**8.2**	**J**	16	0.52	ug/L		10/27/17 07:20	10/27/17 11:07	10
Hexachlorocyclopentadiene	<160		160	51	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4,6-Trichlorophenol	<40		40	5.7	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4,5-Trichlorophenol	<80		80	21	ug/L		10/27/17 07:20	10/27/17 11:07	10
1,1'-Biphenyl	**7.8**	**J**	40	2.9	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Chloronaphthalene	<16		16	1.9	ug/L		10/27/17 07:20	10/27/17 11:07	10
2-Nitroaniline	<40		40	10	ug/L		10/27/17 07:20	10/27/17 11:07	10
Dimethyl phthalate	<40		40	2.5	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,6-Dinitrotoluene	<8.0		8.0	0.59	ug/L		10/27/17 07:20	10/27/17 11:07	10
Acenaphthylene	<8.0		8.0	2.1	ug/L		10/27/17 07:20	10/27/17 11:07	10
3-Nitroaniline	<80		80	14	ug/L		10/27/17 07:20	10/27/17 11:07	10
Acenaphthene	<8.0		8.0	2.5	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4-Dinitrophenol	<160		160	69	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Nitrophenol	<160		160	59	ug/L		10/27/17 07:20	10/27/17 11:07	10
Dibenzofuran	<16		16	2.1	ug/L		10/27/17 07:20	10/27/17 11:07	10
2,4-Dinitrotoluene	<8.0		8.0	2.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
Diethyl phthalate	<40		40	2.9	ug/L		10/27/17 07:20	10/27/17 11:07	10
Fluorene	<8.0		8.0	2.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Chlorophenyl phenyl ether	<40		40	5.1	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Nitroaniline	<80		80	13	ug/L		10/27/17 07:20	10/27/17 11:07	10
4,6-Dinitro-2-methylphenol	<160		160	47	ug/L		10/27/17 07:20	10/27/17 11:07	10
N-Nitrosodiphenylamine	<16		16	3.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
4-Bromophenyl phenyl ether	<40		40	4.3	ug/L		10/27/17 07:20	10/27/17 11:07	10

Client Sample ID: CRMS-SW-01-102617 Lab Sample ID: 500-136329-1

Date Collected: 10/26/17 11:48 **Matrix: Water**
Date Received: 10/26/17 14:05

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<4.0		4.0	0.64	ug/L		10/27/17 07:20	10/27/17 11:07	10
Atrazine	<40		40	5.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
Pentachlorophenol	<160		160	32	ug/L		10/27/17 07:20	10/27/17 11:07	10
Phenanthrene	**2.6**	**J**	8.0	2.4	ug/L		10/27/17 07:20	10/27/17 11:07	10
Anthracene	<8.0		8.0	2.7	ug/L		10/27/17 07:20	10/27/17 11:07	10
Carbazole	<40		40	2.8	ug/L		10/27/17 07:20	10/27/17 11:07	10
Di-n-butyl phthalate	<40		40	5.8	ug/L		10/27/17 07:20	10/27/17 11:07	10
Fluoranthene	<8.0		8.0	3.6	ug/L		10/27/17 07:20	10/27/17 11:07	10
Pyrene	**4.6**	**J**	8.0	3.4	ug/L		10/27/17 07:20	10/27/17 11:07	10
Butyl benzyl phthalate	<16		16	3.8	ug/L		10/27/17 07:20	10/27/17 11:07	10
3,3'-Dichlorobenzidine	<40		40	14	ug/L		10/27/17 07:20	10/27/17 11:07	10
Benzo[a]anthracene	<1.6		1.6	0.45	ug/L		10/27/17 07:20	10/27/17 11:07	10
Chrysene	<1.6		1.6	0.55	ug/L		10/27/17 07:20	10/27/17 11:07	10
Bis(2-ethylhexyl) phthalate	<80		80	14	ug/L		10/27/17 07:20	10/27/17 11:07	10
Di-n-octyl phthalate	<80		80	8.4	ug/L		10/27/17 07:20	10/27/17 11:07	10
Benzo[b]fluoranthene	<1.6		1.6	0.65	ug/L		10/27/17 07:20	10/27/17 11:07	10
Benzo[k]fluoranthene	<1.6		1.6	0.51	ug/L		10/27/17 07:20	10/27/17 11:07	10
Benzo[a]pyrene	<1.6		1.6	0.79	ug/L		10/27/17 07:20	10/27/17 11:07	10
Indeno[1,2,3-cd]pyrene	<1.6		1.6	0.60	ug/L		10/27/17 07:20	10/27/17 11:07	10
Dibenz(a,h)anthracene	<2.4		2.4	0.41	ug/L		10/27/17 07:20	10/27/17 11:07	10
Benzo[g,h,i]perylene	<8.0		8.0	3.0	ug/L		10/27/17 07:20	10/27/17 11:07	10
3 & 4 Methylphenol	<16		16	3.6	ug/L		10/27/17 07:20	10/27/17 11:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*103*		*27 - 110*	*10/27/17 07:20*	*10/27/17 11:07*	*10*
Phenol-d5 (Surr)	*80*		*20 - 100*	*10/27/17 07:20*	*10/27/17 11:07*	*10*
Nitrobenzene-d5 (Surr)	*124*	*X*	*36 - 120*	*10/27/17 07:20*	*10/27/17 11:07*	*10*
2-Fluorobiphenyl (Surr)	*128*	*X*	*34 - 110*	*10/27/17 07:20*	*10/27/17 11:07*	*10*
2,4,6-Tribromophenol (Surr)	*173*	*X*	*40 - 145*	*10/27/17 07:20*	*10/27/17 11:07*	*10*
Terphenyl-d14 (Surr)	*126*		*40 - 145*	*10/27/17 07:20*	*10/27/17 11:07*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010	^	0.010	0.0037	mg/L		10/26/17 16:54	10/27/17 13:42	1
Barium	**0.030**		0.010	0.0012	mg/L		10/26/17 16:54	10/27/17 13:42	1
Cadmium	**0.00099**	**J B**	0.0020	0.00043	mg/L		10/26/17 16:54	10/27/17 13:42	1
Chromium	<0.010		0.010	0.0017	mg/L		10/26/17 16:54	10/27/17 13:42	1
Lead	**0.0031**	**J ^**	0.0050	0.0027	mg/L		10/26/17 16:54	10/27/17 13:42	1
Selenium	<0.010		0.010	0.0053	mg/L		10/26/17 16:54	10/27/17 13:42	1
Silver	<0.0050		0.0050	0.0015	mg/L		10/26/17 16:54	10/27/17 13:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.098	ug/L		10/26/17 15:11	10/27/17 11:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			10/27/17 16:28	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	1.0	0.38	ug/L	8260B
1,1,2,2-Tetrachloroethane	1.0	0.40	ug/L	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.46	ug/L	8260B
1,1,2-Trichloroethane	1.0	0.35	ug/L	8260B
1,1-Dichloroethane	1.0	0.41	ug/L	8260B
1,1-Dichloroethene	1.0	0.39	ug/L	8260B
1,2,4-Trichlorobenzene	1.0	0.34	ug/L	8260B
1,2-Dibromo-3-Chloropropane	5.0	2.0	ug/L	8260B
1,2-Dibromoethane	1.0	0.39	ug/L	8260B
1,2-Dichlorobenzene	1.0	0.33	ug/L	8260B
1,2-Dichloroethane	1.0	0.39	ug/L	8260B
1,2-Dichloropropane	1.0	0.43	ug/L	8260B
1,3-Dichlorobenzene	1.0	0.40	ug/L	8260B
1,4-Dichlorobenzene	1.0	0.36	ug/L	8260B
2-Hexanone	5.0	1.6	ug/L	8260B
Acetone	5.0	1.7	ug/L	8260B
Benzene	0.50	0.15	ug/L	8260B
Bromodichloromethane	1.0	0.37	ug/L	8260B
Bromoform	1.0	0.48	ug/L	8260B
Bromomethane	2.0	0.80	ug/L	8260B
Carbon disulfide	2.0	0.45	ug/L	8260B
Carbon tetrachloride	1.0	0.38	ug/L	8260B
Chlorobenzene	1.0	0.39	ug/L	8260B
Chloroethane	1.0	0.51	ug/L	8260B
Chloroform	2.0	0.37	ug/L	8260B
Chloromethane	1.0	0.32	ug/L	8260B
cis-1,2-Dichloroethene	1.0	0.41	ug/L	8260B
cis-1,3-Dichloropropene	1.0	0.42	ug/L	8260B
Cyclohexane	1.0	0.49	ug/L	8260B
Dibromochloromethane	1.0	0.49	ug/L	8260B
Dichlorodifluoromethane	2.0	0.67	ug/L	8260B
Ethylbenzene	0.50	0.18	ug/L	8260B
Isopropylbenzene	1.0	0.39	ug/L	8260B
Methyl acetate	5.0	2.0	ug/L	8260B
Methyl Ethyl Ketone	5.0	2.1	ug/L	8260B
methyl isobutyl ketone	5.0	2.2	ug/L	8260B
Methyl tert-butyl ether	1.0	0.39	ug/L	8260B
Methylcyclohexane	1.0	0.32	ug/L	8260B
Methylene Chloride	5.0	1.6	ug/L	8260B
Styrene	1.0	0.39	ug/L	8260B
Tetrachloroethene	1.0	0.37	ug/L	8260B
Toluene	0.50	0.15	ug/L	8260B
trans-1,2-Dichloroethene	1.0	0.35	ug/L	8260B
trans-1,3-Dichloropropene	1.0	0.36	ug/L	8260B
Trichloroethene	0.50	0.16	ug/L	8260B
Trichlorofluoromethane	1.0	0.43	ug/L	8260B
Vinyl chloride	0.50	0.20	ug/L	8260B
Xylenes, Total	1.0	0.22	ug/L	8260B

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Prep: 3510C

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Prep: 3510C

Analyte	RL	MDL	Units	Method
1,1'-Biphenyl	4.0	0.29	ug/L	8270D
2,2'-oxybis[1-chloropropane]	1.6	0.30	ug/L	8270D
2,4,5-Trichlorophenol	8.0	2.1	ug/L	8270D
2,4,6-Trichlorophenol	4.0	0.57	ug/L	8270D
2,4-Dichlorophenol	8.0	2.1	ug/L	8270D
2,4-Dimethylphenol	8.0	1.4	ug/L	8270D
2,4-Dinitrophenol	16	6.9	ug/L	8270D
2,4-Dinitrotoluene	0.80	0.20	ug/L	8270D
2,6-Dinitrotoluene	0.80	0.059	ug/L	8270D
2-Chloronaphthalene	1.6	0.19	ug/L	8270D
2-Chlorophenol	4.0	0.45	ug/L	8270D
2-Methylnaphthalene	1.6	0.052	ug/L	8270D
2-Methylphenol	1.6	0.24	ug/L	8270D
2-Nitroaniline	4.0	1.0	ug/L	8270D
2-Nitrophenol	8.0	2.0	ug/L	8270D
3 & 4 Methylphenol	1.6	0.36	ug/L	8270D
3,3'-Dichlorobenzidine	4.0	1.4	ug/L	8270D
3-Nitroaniline	8.0	1.4	ug/L	8270D
4,6-Dinitro-2-methylphenol	16	4.7	ug/L	8270D
4-Bromophenyl phenyl ether	4.0	0.43	ug/L	8270D
4-Chloro-3-methylphenol	8.0	1.8	ug/L	8270D
4-Chloroaniline	8.0	1.6	ug/L	8270D
4-Chlorophenyl phenyl ether	4.0	0.51	ug/L	8270D
4-Nitroaniline	8.0	1.3	ug/L	8270D
4-Nitrophenol	16	5.9	ug/L	8270D
Acenaphthene	0.80	0.25	ug/L	8270D
Acenaphthylene	0.80	0.21	ug/L	8270D
Acetophenone	4.0	0.53	ug/L	8270D
Anthracene	0.80	0.27	ug/L	8270D
Atrazine	4.0	0.50	ug/L	8270D
Benzaldehyde	32	12	ug/L	8270D
Benzo[a]anthracene	0.16	0.045	ug/L	8270D
Benzo[a]pyrene	0.16	0.079	ug/L	8270D
Benzo[b]fluoranthene	0.16	0.065	ug/L	8270D
Benzo[g,h,i]perylene	0.80	0.30	ug/L	8270D
Benzo[k]fluoranthene	0.16	0.051	ug/L	8270D
Bis(2-chloroethoxy)methane	1.6	0.23	ug/L	8270D
Bis(2-chloroethyl)ether	1.6	0.23	ug/L	8270D
Bis(2-ethylhexyl) phthalate	8.0	1.4	ug/L	8270D
Butyl benzyl phthalate	1.6	0.38	ug/L	8270D
Caprolactam	8.0	1.2	ug/L	8270D
Carbazole	4.0	0.28	ug/L	8270D
Chrysene	0.16	0.055	ug/L	8270D
Dibenz(a,h)anthracene	0.24	0.041	ug/L	8270D
Dibenzofuran	1.6	0.21	ug/L	8270D
Diethyl phthalate	4.0	0.29	ug/L	8270D
Dimethyl phthalate	4.0	0.25	ug/L	8270D
Di-n-butyl phthalate	4.0	0.58	ug/L	8270D
Di-n-octyl phthalate	8.0	0.84	ug/L	8270D
Fluoranthene	0.80	0.36	ug/L	8270D
Fluorene	0.80	0.20	ug/L	8270D

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Prep: 3510C

Analyte	RL	MDL	Units	Method
Hexachlorobenzene	0.40	0.064	ug/L	8270D
Hexachlorobutadiene	4.0	0.41	ug/L	8270D
Hexachlorocyclopentadiene	16	5.1	ug/L	8270D
Hexachloroethane	4.0	0.48	ug/L	8270D
Indeno[1,2,3-cd]pyrene	0.16	0.060	ug/L	8270D
Isophorone	1.6	0.30	ug/L	8270D
Naphthalene	0.80	0.25	ug/L	8270D
Nitrobenzene	0.80	0.36	ug/L	8270D
N-Nitrosodi-n-propylamine	0.40	0.12	ug/L	8270D
N-Nitrosodiphenylamine	1.6	0.30	ug/L	8270D
Pentachlorophenol	16	3.2	ug/L	8270D
Phenanthrene	0.80	0.24	ug/L	8270D
Phenol	4.0	0.54	ug/L	8270D
Pyrene	0.80	0.34	ug/L	8270D

Method: 6010C - Metals (ICP)

Prep: 3010A

Analyte	RL	MDL	Units	Method
Arsenic	0.010	0.0037	mg/L	6010C
Barium	0.010	0.0012	mg/L	6010C
Cadmium	0.0020	0.00043	mg/L	6010C
Chromium	0.010	0.0017	mg/L	6010C
Lead	0.0050	0.0027	mg/L	6010C
Selenium	0.010	0.0053	mg/L	6010C
Silver	0.0050	0.0015	mg/L	6010C

Method: 7470A - Mercury (CVAA)

Prep: 7470A

Analyte	RL	MDL	Units	Method
Mercury	0.20	0.098	ug/L	7470A

General Chemistry

Analyte	RL	MDL	Units	Method
Flashpoint	40.0	40.0	Degrees F	1010A

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136329-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-126)	(75-120)	(72-124)	(75-120)
500-136329-1	CRMS-SW-01-102617	86	92	107	92
LCS 500-407133/4	Lab Control Sample	89	90	92	96
MB 500-407133/6	Method Blank	88	90	95	90

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPH
Lab Sample ID	Client Sample ID	(27-110)	(20-100)	(36-120)	(34-110)	(40-145)	(40-145)
500-136329-1	CRMS-SW-01-102617	103	80	124 X	128 X	173 X	126
LCS 500-407229/2-A	Lab Control Sample	70	60	86	84	96	105
MB 500-407229/1-A	Method Blank	66	44	75	76	88	98

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-407133/6
Matrix: Water
Analysis Batch: 407133

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<2.0		2.0	0.67	ug/L			10/26/17 22:02	1
Chloromethane	<1.0		1.0	0.32	ug/L			10/26/17 22:02	1
Vinyl chloride	<0.50		0.50	0.20	ug/L			10/26/17 22:02	1
Bromomethane	<2.0		2.0	0.80	ug/L			10/26/17 22:02	1
Chloroethane	<1.0		1.0	0.51	ug/L			10/26/17 22:02	1
Trichlorofluoromethane	<1.0		1.0	0.43	ug/L			10/26/17 22:02	1
1,1-Dichloroethene	<1.0		1.0	0.39	ug/L			10/26/17 22:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46	ug/L			10/26/17 22:02	1
Acetone	<5.0		5.0	1.7	ug/L			10/26/17 22:02	1
Carbon disulfide	<2.0		2.0	0.45	ug/L			10/26/17 22:02	1
Methyl acetate	<5.0		5.0	2.0	ug/L			10/26/17 22:02	1
Methylene Chloride	<5.0		5.0	1.6	ug/L			10/26/17 22:02	1
trans-1,2-Dichloroethene	<1.0		1.0	0.35	ug/L			10/26/17 22:02	1
Methyl tert-butyl ether	<1.0		1.0	0.39	ug/L			10/26/17 22:02	1
1,1-Dichloroethane	<1.0		1.0	0.41	ug/L			10/26/17 22:02	1
cis-1,2-Dichloroethene	<1.0		1.0	0.41	ug/L			10/26/17 22:02	1
Methyl Ethyl Ketone	<5.0		5.0	2.1	ug/L			10/26/17 22:02	1
Chloroform	<2.0		2.0	0.37	ug/L			10/26/17 22:02	1
1,1,1-Trichloroethane	<1.0		1.0	0.38	ug/L			10/26/17 22:02	1
Cyclohexane	<1.0		1.0	0.49	ug/L			10/26/17 22:02	1
Carbon tetrachloride	<1.0		1.0	0.38	ug/L			10/26/17 22:02	1
Benzene	<0.50		0.50	0.15	ug/L			10/26/17 22:02	1
1,2-Dichloroethane	<1.0		1.0	0.39	ug/L			10/26/17 22:02	1
Trichloroethene	<0.50		0.50	0.16	ug/L			10/26/17 22:02	1
Methylcyclohexane	<1.0		1.0	0.32	ug/L			10/26/17 22:02	1
1,2-Dichloropropane	<1.0		1.0	0.43	ug/L			10/26/17 22:02	1
Bromodichloromethane	<1.0		1.0	0.37	ug/L			10/26/17 22:02	1
cis-1,3-Dichloropropene	<1.0		1.0	0.42	ug/L			10/26/17 22:02	1
methyl isobutyl ketone	<5.0		5.0	2.2	ug/L			10/26/17 22:02	1
Toluene	<0.50		0.50	0.15	ug/L			10/26/17 22:02	1
trans-1,3-Dichloropropene	<1.0		1.0	0.36	ug/L			10/26/17 22:02	1
1,1,2-Trichloroethane	<1.0		1.0	0.35	ug/L			10/26/17 22:02	1
Tetrachloroethene	<1.0		1.0	0.37	ug/L			10/26/17 22:02	1
2-Hexanone	<5.0		5.0	1.6	ug/L			10/26/17 22:02	1
Dibromochloromethane	<1.0		1.0	0.49	ug/L			10/26/17 22:02	1
1,2-Dibromoethane	<1.0		1.0	0.39	ug/L			10/26/17 22:02	1
Chlorobenzene	<1.0		1.0	0.39	ug/L			10/26/17 22:02	1
Ethylbenzene	<0.50		0.50	0.18	ug/L			10/26/17 22:02	1
Xylenes, Total	<1.0		1.0	0.22	ug/L			10/26/17 22:02	1
Styrene	<1.0		1.0	0.39	ug/L			10/26/17 22:02	1
Bromoform	<1.0		1.0	0.48	ug/L			10/26/17 22:02	1
Isopropylbenzene	<1.0		1.0	0.39	ug/L			10/26/17 22:02	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40	ug/L			10/26/17 22:02	1
1,3-Dichlorobenzene	<1.0		1.0	0.40	ug/L			10/26/17 22:02	1
1,4-Dichlorobenzene	<1.0		1.0	0.36	ug/L			10/26/17 22:02	1
1,2-Dichlorobenzene	<1.0		1.0	0.33	ug/L			10/26/17 22:02	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0	ug/L			10/26/17 22:02	1
1,2,4-Trichlorobenzene	<1.0		1.0	0.34	ug/L			10/26/17 22:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*		*10/26/17 22:02*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*10/26/17 22:02*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*10/26/17 22:02*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*10/26/17 22:02*	*1*

Lab Sample ID: LCS 500-407133/4 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 407133

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	32.1		ug/L		64	40 - 150
Chloromethane	50.0	45.8		ug/L		92	54 - 147
Vinyl chloride	50.0	37.7		ug/L		75	64 - 126
Bromomethane	50.0	54.6		ug/L		109	40 - 130
Chloroethane	50.0	49.0		ug/L		98	45 - 127
Trichlorofluoromethane	50.0	37.6		ug/L		75	70 - 126
1,1-Dichloroethene	50.0	43.8		ug/L		88	67 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.9		ug/L		92	70 - 123
Acetone	50.0	50.1		ug/L		100	40 - 143
Carbon disulfide	50.0	42.4		ug/L		85	66 - 120
Methyl acetate	100	98.2		ug/L		98	56 - 150
Methylene Chloride	50.0	48.9		ug/L		98	69 - 125
trans-1,2-Dichloroethene	50.0	45.1		ug/L		90	70 - 125
Methyl tert-butyl ether	50.0	45.4		ug/L		91	70 - 120
1,1-Dichloroethane	50.0	46.1		ug/L		92	70 - 125
cis-1,2-Dichloroethene	50.0	47.1		ug/L		94	70 - 125
Methyl Ethyl Ketone	50.0	50.1		ug/L		100	53 - 141
Chloroform	50.0	44.5		ug/L		89	70 - 120
1,1,1-Trichloroethane	50.0	44.6		ug/L		89	70 - 125
Cyclohexane	50.0	49.0		ug/L		98	69 - 142
Carbon tetrachloride	50.0	45.5		ug/L		91	65 - 122
Benzene	50.0	49.5		ug/L		99	70 - 120
1,2-Dichloroethane	50.0	45.2		ug/L		90	68 - 127
Trichloroethene	50.0	48.8		ug/L		98	70 - 125
Methylcyclohexane	50.0	45.8		ug/L		92	70 - 120
1,2-Dichloropropane	50.0	49.3		ug/L		99	67 - 130
Bromodichloromethane	50.0	46.9		ug/L		94	69 - 120
cis-1,3-Dichloropropene	50.0	42.8		ug/L		86	64 - 127
methyl isobutyl ketone	50.0	48.2		ug/L		96	56 - 133
Toluene	50.0	47.2		ug/L		94	70 - 125
trans-1,3-Dichloropropene	50.0	41.9		ug/L		84	62 - 128
1,1,2-Trichloroethane	50.0	43.9		ug/L		88	70 - 122
Tetrachloroethene	50.0	46.1		ug/L		92	70 - 128
2-Hexanone	50.0	45.4		ug/L		91	56 - 135
Dibromochloromethane	50.0	43.3		ug/L		87	68 - 125
1,2-Dibromoethane	50.0	44.5		ug/L		89	70 - 125
Chlorobenzene	50.0	47.3		ug/L		95	70 - 120
Ethylbenzene	50.0	46.3		ug/L		93	70 - 120
Xylenes, Total	100	93.5		ug/L		93	70 - 125
Styrene	50.0	47.5		ug/L		95	70 - 120
Bromoform	50.0	41.7		ug/L		83	56 - 132
Isopropylbenzene	50.0	46.0		ug/L		92	70 - 126
1,1,2,2-Tetrachloroethane	50.0	45.8		ug/L		92	67 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-407133/4
Matrix: Water
Analysis Batch: 407133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	50.0	44.9		ug/L		90	70 - 125
1,4-Dichlorobenzene	50.0	45.7		ug/L		91	70 - 120
1,2-Dichlorobenzene	50.0	45.3		ug/L		91	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	37.9		ug/L		76	56 - 123
1,2,4-Trichlorobenzene	50.0	42.1		ug/L		84	66 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*
Toluene-d8 (Surr)	*90*		*75 - 120*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane	*96*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-407229/1-A
Matrix: Water
Analysis Batch: 407268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<32		32	12	ug/L		10/27/17 07:20	10/27/17 11:36	1
Phenol	<4.0		4.0	0.54	ug/L		10/27/17 07:20	10/27/17 11:36	1
Bis(2-chloroethyl)ether	<1.6		1.6	0.23	ug/L		10/27/17 07:20	10/27/17 11:36	1
2-Chlorophenol	<4.0		4.0	0.45	ug/L		10/27/17 07:20	10/27/17 11:36	1
2-Methylphenol	<1.6		1.6	0.24	ug/L		10/27/17 07:20	10/27/17 11:36	1
2,2'-oxybis[1-chloropropane]	<1.6		1.6	0.30	ug/L		10/27/17 07:20	10/27/17 11:36	1
Acetophenone	<4.0		4.0	0.53	ug/L		10/27/17 07:20	10/27/17 11:36	1
N-Nitrosodi-n-propylamine	<0.40		0.40	0.12	ug/L		10/27/17 07:20	10/27/17 11:36	1
Hexachloroethane	<4.0		4.0	0.48	ug/L		10/27/17 07:20	10/27/17 11:36	1
Nitrobenzene	<0.80		0.80	0.36	ug/L		10/27/17 07:20	10/27/17 11:36	1
Isophorone	<1.6		1.6	0.30	ug/L		10/27/17 07:20	10/27/17 11:36	1
2-Nitrophenol	<8.0		8.0	2.0	ug/L		10/27/17 07:20	10/27/17 11:36	1
2,4-Dimethylphenol	<8.0		8.0	1.4	ug/L		10/27/17 07:20	10/27/17 11:36	1
Bis(2-chloroethoxy)methane	<1.6		1.6	0.23	ug/L		10/27/17 07:20	10/27/17 11:36	1
2,4-Dichlorophenol	<8.0		8.0	2.1	ug/L		10/27/17 07:20	10/27/17 11:36	1
Naphthalene	<0.80		0.80	0.25	ug/L		10/27/17 07:20	10/27/17 11:36	1
4-Chloroaniline	<8.0		8.0	1.6	ug/L		10/27/17 07:20	10/27/17 11:36	1
Hexachlorobutadiene	<4.0		4.0	0.41	ug/L		10/27/17 07:20	10/27/17 11:36	1
Caprolactam	<8.0		8.0	1.2	ug/L		10/27/17 07:20	10/27/17 11:36	1
4-Chloro-3-methylphenol	<8.0		8.0	1.8	ug/L		10/27/17 07:20	10/27/17 11:36	1
2-Methylnaphthalene	<1.6		1.6	0.052	ug/L		10/27/17 07:20	10/27/17 11:36	1
Hexachlorocyclopentadiene	<16		16	5.1	ug/L		10/27/17 07:20	10/27/17 11:36	1
2,4,6-Trichlorophenol	<4.0		4.0	0.57	ug/L		10/27/17 07:20	10/27/17 11:36	1
2,4,5-Trichlorophenol	<8.0		8.0	2.1	ug/L		10/27/17 07:20	10/27/17 11:36	1
1,1'-Biphenyl	<4.0		4.0	0.29	ug/L		10/27/17 07:20	10/27/17 11:36	1
2-Chloronaphthalene	<1.6		1.6	0.19	ug/L		10/27/17 07:20	10/27/17 11:36	1
2-Nitroaniline	<4.0		4.0	1.0	ug/L		10/27/17 07:20	10/27/17 11:36	1
Dimethyl phthalate	<4.0		4.0	0.25	ug/L		10/27/17 07:20	10/27/17 11:36	1
2,6-Dinitrotoluene	<0.80		0.80	0.059	ug/L		10/27/17 07:20	10/27/17 11:36	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-407229/1-A
Matrix: Water
Analysis Batch: 407268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.80		0.80	0.21	ug/L		10/27/17 07:20	10/27/17 11:36	1
3-Nitroaniline	<8.0		8.0	1.4	ug/L		10/27/17 07:20	10/27/17 11:36	1
Acenaphthene	<0.80		0.80	0.25	ug/L		10/27/17 07:20	10/27/17 11:36	1
2,4-Dinitrophenol	<16		16	6.9	ug/L		10/27/17 07:20	10/27/17 11:36	1
4-Nitrophenol	<16		16	5.9	ug/L		10/27/17 07:20	10/27/17 11:36	1
Dibenzofuran	<1.6		1.6	0.21	ug/L		10/27/17 07:20	10/27/17 11:36	1
2,4-Dinitrotoluene	<0.80		0.80	0.20	ug/L		10/27/17 07:20	10/27/17 11:36	1
Diethyl phthalate	<4.0		4.0	0.29	ug/L		10/27/17 07:20	10/27/17 11:36	1
Fluorene	<0.80		0.80	0.20	ug/L		10/27/17 07:20	10/27/17 11:36	1
4-Chlorophenyl phenyl ether	<4.0		4.0	0.51	ug/L		10/27/17 07:20	10/27/17 11:36	1
4-Nitroaniline	<8.0		8.0	1.3	ug/L		10/27/17 07:20	10/27/17 11:36	1
4,6-Dinitro-2-methylphenol	<16		16	4.7	ug/L		10/27/17 07:20	10/27/17 11:36	1
N-Nitrosodiphenylamine	<1.6		1.6	0.30	ug/L		10/27/17 07:20	10/27/17 11:36	1
4-Bromophenyl phenyl ether	<4.0		4.0	0.43	ug/L		10/27/17 07:20	10/27/17 11:36	1
Hexachlorobenzene	<0.40		0.40	0.064	ug/L		10/27/17 07:20	10/27/17 11:36	1
Atrazine	<4.0		4.0	0.50	ug/L		10/27/17 07:20	10/27/17 11:36	1
Pentachlorophenol	<16		16	3.2	ug/L		10/27/17 07:20	10/27/17 11:36	1
Phenanthrene	<0.80		0.80	0.24	ug/L		10/27/17 07:20	10/27/17 11:36	1
Anthracene	<0.80		0.80	0.27	ug/L		10/27/17 07:20	10/27/17 11:36	1
Carbazole	<4.0		4.0	0.28	ug/L		10/27/17 07:20	10/27/17 11:36	1
Di-n-butyl phthalate	<4.0		4.0	0.58	ug/L		10/27/17 07:20	10/27/17 11:36	1
Fluoranthene	<0.80		0.80	0.36	ug/L		10/27/17 07:20	10/27/17 11:36	1
Pyrene	<0.80		0.80	0.34	ug/L		10/27/17 07:20	10/27/17 11:36	1
Butyl benzyl phthalate	<1.6		1.6	0.38	ug/L		10/27/17 07:20	10/27/17 11:36	1
3,3'-Dichlorobenzidine	<4.0		4.0	1.4	ug/L		10/27/17 07:20	10/27/17 11:36	1
Benzo[a]anthracene	<0.16		0.16	0.045	ug/L		10/27/17 07:20	10/27/17 11:36	1
Chrysene	<0.16		0.16	0.055	ug/L		10/27/17 07:20	10/27/17 11:36	1
Bis(2-ethylhexyl) phthalate	<8.0		8.0	1.4	ug/L		10/27/17 07:20	10/27/17 11:36	1
Di-n-octyl phthalate	<8.0		8.0	0.84	ug/L		10/27/17 07:20	10/27/17 11:36	1
Benzo[b]fluoranthene	<0.16		0.16	0.065	ug/L		10/27/17 07:20	10/27/17 11:36	1
Benzo[k]fluoranthene	<0.16		0.16	0.051	ug/L		10/27/17 07:20	10/27/17 11:36	1
Benzo[a]pyrene	<0.16		0.16	0.079	ug/L		10/27/17 07:20	10/27/17 11:36	1
Indeno[1,2,3-cd]pyrene	<0.16		0.16	0.060	ug/L		10/27/17 07:20	10/27/17 11:36	1
Dibenz(a,h)anthracene	<0.24		0.24	0.041	ug/L		10/27/17 07:20	10/27/17 11:36	1
Benzo[g,h,i]perylene	<0.80		0.80	0.30	ug/L		10/27/17 07:20	10/27/17 11:36	1
3 & 4 Methylphenol	<1.6		1.6	0.36	ug/L		10/27/17 07:20	10/27/17 11:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*66*		*27 - 110*	*10/27/17 07:20*	*10/27/17 11:36*	*1*
Phenol-d5 (Surr)	*44*		*20 - 100*	*10/27/17 07:20*	*10/27/17 11:36*	*1*
Nitrobenzene-d5 (Surr)	*75*		*36 - 120*	*10/27/17 07:20*	*10/27/17 11:36*	*1*
2-Fluorobiphenyl (Surr)	*76*		*34 - 110*	*10/27/17 07:20*	*10/27/17 11:36*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*40 - 145*	*10/27/17 07:20*	*10/27/17 11:36*	*1*
Terphenyl-d14 (Surr)	*98*		*40 - 145*	*10/27/17 07:20*	*10/27/17 11:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-407229/2-A
Matrix: Water
Analysis Batch: 407268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzaldehyde	32.0	23.6	J	ug/L		74	
Phenol	32.0	18.7		ug/L		58	33 - 100
Bis(2-chloroethyl)ether	32.0	26.9		ug/L		84	49 - 110
2-Chlorophenol	32.0	27.2		ug/L		85	59 - 110
2-Methylphenol	32.0	27.6		ug/L		86	53 - 110
2,2'-oxybis[1-chloropropane]	32.0	23.5		ug/L		73	38 - 110
Acetophenone	32.0	25.9		ug/L		81	60 - 110
N-Nitrosodi-n-propylamine	32.0	26.1		ug/L		82	58 - 110
Hexachloroethane	32.0	15.1		ug/L		47	20 - 100
Nitrobenzene	32.0	26.7		ug/L		83	53 - 110
Isophorone	32.0	26.8		ug/L		84	57 - 110
2-Nitrophenol	32.0	27.2		ug/L		85	58 - 110
2,4-Dimethylphenol	32.0	28.0		ug/L		87	51 - 110
Bis(2-chloroethoxy)methane	32.0	28.6		ug/L		89	60 - 110
2,4-Dichlorophenol	32.0	27.9		ug/L		87	62 - 110
Naphthalene	32.0	19.7		ug/L		62	36 - 110
4-Chloroaniline	32.0	27.5		ug/L		86	35 - 128
Hexachlorobutadiene	32.0	16.1		ug/L		50	20 - 100
Caprolactam	32.0	19.1		ug/L		60	32 - 100
4-Chloro-3-methylphenol	32.0	29.9		ug/L		93	64 - 120
2-Methylnaphthalene	32.0	18.9		ug/L		59	34 - 110
Hexachlorocyclopentadiene	32.0	16.5		ug/L		51	10 - 100
2,4,6-Trichlorophenol	32.0	27.7		ug/L		87	62 - 110
2,4,5-Trichlorophenol	32.0	29.4		ug/L		92	63 - 120
1,1'-Biphenyl	32.0	21.9		ug/L		68	40 - 110
2-Chloronaphthalene	32.0	21.0		ug/L		66	39 - 110
2-Nitroaniline	32.0	30.1		ug/L		94	59 - 122
Dimethyl phthalate	32.0	29.6		ug/L		93	63 - 120
2,6-Dinitrotoluene	32.0	30.3		ug/L		95	63 - 119
Acenaphthylene	32.0	22.8		ug/L		71	47 - 110
3-Nitroaniline	32.0	29.2		ug/L		91	47 - 123
Acenaphthene	32.0	25.6		ug/L		80	46 - 110
2,4-Dinitrophenol	64.0	60.5		ug/L		94	37 - 130
4-Nitrophenol	64.0	39.9		ug/L		62	20 - 110
Dibenzofuran	32.0	25.0		ug/L		78	51 - 110
2,4-Dinitrotoluene	32.0	30.0		ug/L		94	63 - 122
Diethyl phthalate	32.0	29.9		ug/L		93	62 - 120
Fluorene	32.0	26.8		ug/L		84	53 - 120
4-Chlorophenyl phenyl ether	32.0	24.9		ug/L		78	47 - 112
4-Nitroaniline	32.0	30.4		ug/L		95	52 - 147
4,6-Dinitro-2-methylphenol	64.0	61.7		ug/L		96	50 - 117
N-Nitrosodiphenylamine	32.0	30.1		ug/L		94	66 - 110
4-Bromophenyl phenyl ether	32.0	27.1		ug/L		85	58 - 120
Hexachlorobenzene	32.0	27.9		ug/L		87	61 - 120
Atrazine	32.0	29.3		ug/L		92	58 - 118
Pentachlorophenol	64.0	60.0		ug/L		94	23 - 129
Phenanthrene	32.0	29.8		ug/L		93	65 - 120
Anthracene	32.0	30.6		ug/L		96	67 - 110

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-407229/2-A
Matrix: Water
Analysis Batch: 407268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbazole	32.0	32.5		ug/L		102	61 - 145
Di-n-butyl phthalate	32.0	32.3		ug/L		101	70 - 120
Fluoranthene	32.0	31.4		ug/L		98	68 - 120
Pyrene	32.0	31.1		ug/L		97	70 - 110
Butyl benzyl phthalate	32.0	32.9		ug/L		103	68 - 120
3,3'-Dichlorobenzidine	32.0	32.2		ug/L		101	60 - 132
Benzo[a]anthracene	32.0	30.9		ug/L		97	70 - 120
Chrysene	32.0	32.6		ug/L		102	68 - 120
Bis(2-ethylhexyl) phthalate	32.0	32.7		ug/L		102	69 - 120
Di-n-octyl phthalate	32.0	32.1		ug/L		100	70 - 122
Benzo[b]fluoranthene	32.0	32.1		ug/L		100	69 - 123
Benzo[k]fluoranthene	32.0	30.9		ug/L		97	70 - 120
Benzo[a]pyrene	32.0	31.3		ug/L		98	70 - 120
Indeno[1,2,3-cd]pyrene	32.0	32.4		ug/L		101	65 - 133
Dibenz(a,h)anthracene	32.0	32.1		ug/L		100	70 - 127
Benzo[g,h,i]perylene	32.0	31.5		ug/L		98	70 - 120
3 & 4 Methylphenol	32.0	26.8		ug/L		84	53 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*70*		*27 - 110*
Phenol-d5 (Surr)	*60*		*20 - 100*
Nitrobenzene-d5 (Surr)	*86*		*36 - 120*
2-Fluorobiphenyl (Surr)	*84*		*34 - 110*
2,4,6-Tribromophenol (Surr)	*96*		*40 - 145*
Terphenyl-d14 (Surr)	*105*		*40 - 145*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-407180/1-A
Matrix: Water
Analysis Batch: 407357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010	^	0.010	0.0037	mg/L		10/26/17 16:54	10/27/17 13:34	1
Barium	<0.010		0.010	0.0012	mg/L		10/26/17 16:54	10/27/17 13:34	1
Cadmium	0.000571	J	0.0020	0.00043	mg/L		10/26/17 16:54	10/27/17 13:34	1
Chromium	<0.010		0.010	0.0017	mg/L		10/26/17 16:54	10/27/17 13:34	1
Lead	<0.0050	^	0.0050	0.0027	mg/L		10/26/17 16:54	10/27/17 13:34	1
Selenium	<0.010		0.010	0.0053	mg/L		10/26/17 16:54	10/27/17 13:34	1
Silver	<0.0050		0.0050	0.0015	mg/L		10/26/17 16:54	10/27/17 13:34	1

Lab Sample ID: LCS 500-407180/2-A
Matrix: Water
Analysis Batch: 407357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0977	^	mg/L		98	80 - 120
Barium	2.00	1.94		mg/L		97	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-407180/2-A
Matrix: Water
Analysis Batch: 407357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Lead	0.100	0.0969	^	mg/L		97	80 - 120
Selenium	0.100	0.0832		mg/L		83	80 - 120
Silver	0.0500	0.0497		mg/L		99	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-406927/12-A
Matrix: Water
Analysis Batch: 407344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 406927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.098	ug/L		10/25/17 13:45	10/27/17 09:50	1

Lab Sample ID: LCS 500-406927/13-A
Matrix: Water
Analysis Batch: 407344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 406927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.00	2.16		ug/L		108	80 - 120

GC/MS VOA

Analysis Batch: 407133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136329-1	CRMS-SW-01-102617	Total/NA	Water	8260B	
MB 500-407133/6	Method Blank	Total/NA	Water	8260B	
LCS 500-407133/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 407229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136329-1	CRMS-SW-01-102617	Total/NA	Water	3510C	
MB 500-407229/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-407229/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 407256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136329-1	CRMS-SW-01-102617	Total/NA	Water	8270D	407229

Analysis Batch: 407268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-407229/1-A	Method Blank	Total/NA	Water	8270D	407229
LCS 500-407229/2-A	Lab Control Sample	Total/NA	Water	8270D	407229

Metals

Prep Batch: 406927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136329-1	CRMS-SW-01-102617	Total/NA	Water	7470A	
MB 500-406927/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-406927/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 407180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136329-1	CRMS-SW-01-102617	Total/NA	Water	3010A	
MB 500-407180/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-407180/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 407344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136329-1	CRMS-SW-01-102617	Total/NA	Water	7470A	406927
MB 500-406927/12-A	Method Blank	Total/NA	Water	7470A	406927
LCS 500-406927/13-A	Lab Control Sample	Total/NA	Water	7470A	406927

Analysis Batch: 407357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136329-1	CRMS-SW-01-102617	Total/NA	Water	6010C	407180
MB 500-407180/1-A	Method Blank	Total/NA	Water	6010C	407180
LCS 500-407180/2-A	Lab Control Sample	Total/NA	Water	6010C	407180

General Chemistry

Analysis Batch: 407366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136329-1	CRMS-SW-01-102617	Total/NA	Water	1010A	

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136329-1

Client Sample ID: CRMS-SW-01-102617

Date Collected: 10/26/17 11:48
Date Received: 10/26/17 14:05

Lab Sample ID: 500-136329-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	407133	10/27/17 06:51	PMF	TAL CHI
Total/NA	Prep	3510C			407229	10/27/17 07:20	BSO	TAL CHI
Total/NA	Analysis	8270D		10	407256	10/27/17 11:07	WDS	TAL CHI
Total/NA	Prep	3010A			407180	10/26/17 16:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	407357	10/27/17 13:42	PJ1	TAL CHI
Total/NA	Prep	7470A			406927	10/26/17 15:11	EEN	TAL CHI
Total/NA	Analysis	7470A		1	407344	10/27/17 11:50	EEN	TAL CHI
Total/NA	Analysis	1010A		1	407366		MAN	TAL CHI
					(Start)	10/27/17 16:28		
					(End)	10/27/17 15:43		

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tetra Tech EM Inc. TestAmerica Job ID: 500-136329-1
Project/Site: Chicago River Mystery Spill

Laboratory: TestAmerica Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2903	04-30-18 *
Georgia	State Program	4	N/A	04-30-18
Georgia	State Program	4	939	04-30-18
Hawaii	State Program	9	N/A	04-30-18
Illinois	NELAP	5	100201	04-30-18
Indiana	State Program	5	C-IL-02	04-30-18 *
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	12-31-17 *
Kentucky (UST)	State Program	4	66	04-30-18
Kentucky (WW)	State Program	4	KY90023	12-31-17 *
Mississippi	State Program	4	N/A	04-30-18
New York	NELAP	2	12019	04-01-18 *
North Carolina (WW/SW)	State Program	4	291	12-31-17 *
North Dakota	State Program	8	R-194	04-30-18
Oklahoma	State Program	6	8908	08-31-18
South Carolina	State Program	4	77001	04-30-18
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-18
Wyoming	State Program	8	8TMS-Q	04-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech EM Inc. TestAmerica Job ID: 500-136329-1
Project/Site: Chicago River Mystery Spill

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136329-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-136329-1	CRMS-SW-01-102617	Water	10/26/17 11:48	10/26/17 14:05

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 GAS SPK_00129	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260 GASSPKPT_00033	40 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.8260 GASSPKPT_00033	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	GASES SPK STK_00011	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..GASES SPK STK_00011	11/30/18		Restek, Lot A0115484		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260 KET SPK_00100	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260KETSPKPT_00028	8 uL	2-Hexanone	50 ug/mL
							Acetone	50 ug/mL
							Methyl Ethyl Ketone	50 ug/mL
							methyl isobutyl ketone	50 ug/mL
.8260KETSPKPT_00028	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	KET SPK STK_00010	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..KET SPK STK_00010	03/31/19		Restek, Lot A0118013		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260 LOWIS1_00108	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	1,4DIOX-d8 IS_00012	1000 uL	1,4-Dioxane-d8	1000 ug/mL
					8260A IS PT_00026	40 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
					T-BUOH-d9 PT_00026	100 uL	TBA-d9 (IS)	1000 ug/mL
.1,4DIOX-d8 IS_00012	06/30/19		Restek, Lot A0120108		(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
.8260A IS PT_00026	09/30/17	06/26/17	n/a, Lot NA	1 mL	8260A IS SK_00007	1 mL	1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
..8260A IS SK_00007	02/28/21		Restek, Lot A0117358		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
.T-BUOH-d9 PT_00026	09/26/17	06/26/17	n/a, Lot NA	1 mL	T-BUOH-d9 IS_00006	1 mL	TBA-d9 (IS)	20000 ug/mL
..T-BUOH-d9 IS_00006	03/31/19		Restek, Lot A0117777		(Purchased Reagent)		TBA-d9 (IS)	20000 ug/mL
8260 LOWSS1_00133	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260/624 SSPT_00002	40 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260/624 SSPT_00002	09/26/17	06/26/17	na, Lot NA	5 mL	8260 SS PT_00040	5 mL	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
..8260 SS PT_00040	10/31/20		Restek, Lot A0114901		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260 MEGA SPK_00104	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260MEGASPKPT_00029	40 uL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.8260MEGASPKPT_00029	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	MEGA SPK STK_00011	1 mL	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..MEGA SPK STK_00011	07/31/18		Restek, Lot A0120604		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260/624ACRWK_00334	07/12/17	07/05/17	Water, Lot NA	2 mL	8260 ACRPTSPK_00032	400 uL	Acrolein	4000 ug/mL
.8260 ACRPTSPK_00032	08/23/17	05/23/17	Water, Lot NA	1 mL	ACROLN SK STK_00026	1 mL	Acrolein	20000 ug/mL
..ACROLN SK STK_00026	09/30/17		Restek, Lot A0125594		(Purchased Reagent)		Acrolein	20000 ug/mL
8260/624GASWK_00457	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASPT_00084	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00084	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 GAS_00015	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00015	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624GASWK_00475	10/31/17	10/24/17	METHANOL, Lot 177891	2 mL	8260/624GASPT_00088	80 uL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00088	01/04/18	10/04/17	na, Lot na	1 mL	8260/624 GAS_00015	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00015	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624KETWK_00262	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260/624KETPT_00045	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00045	08/06/17	05/06/17	na, Lot na	1 mL	8260/624 KET_00011	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00011	11/30/18		Restek, Lot A0115554		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260/624KETWK_00282	10/27/17	10/13/17	METHANOL, Lot 177891	2 mL	8260/624KETPT_00051	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00051	01/04/18	10/04/17	na, Lot na	1 mL	8260/624 KET_00013	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00013	01/31/20	Restek, Lot A0123890			(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
.8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..8260/624 Mega_00016	03/31/18		Restek, Lot A0108177		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	Xylenes, Total	200 ug/mL
.8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	Xylenes, Total	5000 ug/mL
..8260/624 Mega_00016	03/31/18		Restek, Lot A0108177		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
8260/624MEGWK_00416	11/08/17	10/25/17	METHANOL, Lot 177891	2 mL	8260/624MEGPT_00078	80 uL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							o-Xylene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.8260/624MEGPT_00078	01/23/18	10/23/17	na, Lot na	1 mL	8260/624 Mega_00017	1 mL	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..8260/624 Mega_00017	12/31/18		Restek, Lot A01237		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260LOW IS/SS_00146	07/14/17	06/30/17	METHANOL, Lot 147462	20 mL	8260 IS/SS SK_00034	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00034	01/31/22		Restek, Lot A0124018		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00146	07/14/17	06/30/17	METHANOL, Lot 147462	20 mL	8260 IS/SS SK_00034	4000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00034	01/31/22		Restek, Lot A0124018		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260LOW IS/SS_00155	11/06/17	10/23/17	METHANOL, Lot 177891	20 mL	8260 IS/SS SK_00037	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00037	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00155	11/06/17	10/23/17	METHANOL, Lot 177891	20 mL	8260 IS/SS SK_00037	4000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00037	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260VA/2CEVE_00276	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624 VAPT_00051	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00044	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
.8260/624 VAPT_00051	09/30/17	05/30/17	METHANOL, Lot NA	1 mL	8260/624 VA_00023	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA_00023	09/30/17		Restek, Lot A0125716		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.8260/624CEVPT_00044	09/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260/624 CEVE_00011	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..8260/624 CEVE_00011	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
BFB STD WK_00154							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
					BFB WK PT_00040	25 uL	BFB	25 ug/mL
.BFB WK PT_00040	08/17/17	05/17/17	1, Lot NA	1 mL	BFB STD SK_00008	1 mL	BFB	2000 ug/mL
..BFB STD SK_00008	11/30/17		ultra scientific, Lot CH-3248A		(Purchased Reagent)		BFB	2000 ug/mL
BFB STD WK_00166							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
					BFB WK PT_00043	25 uL	BFB	25 ug/mL
.BFB WK PT_00043	11/30/17	10/08/17	1, Lot NA	1 mL	BFB STD SK_00008	1 mL	BFB	2000 ug/mL
..BFB STD SK_00008	11/30/17		ultra scientific, Lot CH-3248A		(Purchased Reagent)		BFB	2000 ug/mL
EXBNAL1SPW_00191	03/19/18	09/19/17	MEOH, Lot 4415828	50 mL	SMcaLs1S11_ST_00005	1000 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SMcaLs1St1_ST_00032	2000 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SMcaLs1St10_00018	2000 uL	Benzoic acid	80 ug/mL
							Indene	80 ug/mL
					SMcaLs1St9_ST_00018	1000 uL	3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
.SMcaLs1S11_ST_00005	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.SMcaLs1St1_ST_00032	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.SMcaLs1St10_00018	06/30/18		Restek, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.SMcaLs1St9_ST_00018	06/30/18		Restek, Lot A0123497		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
EXBNASURTS_00042	06/30/20		Restek, Lot A0128636		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
HIVOL_DFTPPWK_00069							4,4'-DDD	
							4,4'-DDE	
							Aramite, Total	
							Creosote	
							Diallate	
							Isosafrole	
							Methyl Phenols,Total	
							Tentatively Identified Compound	
							Total Cresols, TCEQ Definition	
					SMDFTPPWK_00103	200 uL	4,4'-DDT	10 ug/mL
							Benzidine	10 ug/mL
							DFTPP	10 ug/mL
							Pentachlorophenol	10 ug/mL
.SMDFTPPWK_00103	02/15/18	02/15/17	Methylene Chloride, Lot 158443	1000 uL	SMTUNEWKS_00015	50 uL	4,4'-DDT	50 ug/mL
							Benzidine	50 ug/mL
							DFTPP	50 ug/mL
							Pentachlorophenol	50 ug/mL
..SMTUNEWKS_00015	02/15/18	02/15/17	n/a, Lot n/a	1000 uL	SMTUNESTK_00012	1000 uL	4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
...SMTUNESTK_00012	12/31/19		RESTEK, Lot A0123348		(Purchased Reagent)		4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
HIVOL_DFTPPWK_00083							4,4'-DDD	
							4,4'-DDE	

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aramite, Total	
							Creosote	
							Diallate	
							Isosafrole	
							Methyl Phenols,Total	
							Tentatively Identified Compound	
							Total Cresols, TCEQ Definition	
					SMDFTPPWK_00106	200 uL	4,4'-DDT	10 ug/mL
							Benzidine	10 ug/mL
							DFTPP	10 ug/mL
							Pentachlorophenol	10 ug/mL
.SMDFTPPWK_00106	02/15/18	06/27/17	Methylene Chloride, Lot 173138	1000 uL	SMTUNEWKS_00015	50 uL	4,4'-DDT	50 ug/mL
							Benzidine	50 ug/mL
							DFTPP	50 ug/mL
							Pentachlorophenol	50 ug/mL
..SMTUNEWKS_00015	02/15/18	02/15/17	n/a, Lot n/a	1000 uL	SMTUNESTK_00012	1000 uL	4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
...SMTUNESTK_00012	12/31/19	RESTEK, Lot A0123348			(Purchased Reagent)		4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
LEVEL1 8260_00001	12/31/17	01/15/13	1, Lot DH247	1 mL	8260/624STD_00001	5 uL	Vinyl chloride	0.5 ug/mL
							Benzene	0.5 ug/mL
							Ethylbenzene	0.5 ug/mL
							m-Xylene & p-Xylene	0.5 ug/mL
							o-Xylene	0.5 ug/mL
							Toluene	0.5 ug/mL
							Trichloroethene	0.5 ug/mL
.8260/624STD_00001	12/31/17	01/15/13	METHANOL, Lot DH247	2 mL	8260/624L1GAS_00001	100 uL	Vinyl chloride	100 ug/mL
					8260/624L1MEG_00001	100 uL	Benzene	100 ug/mL
							Ethylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							o-Xylene	100 ug/mL
							Toluene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624L1GAS_00001	12/31/17	Restek, Lot A092242			(Purchased Reagent)		Vinyl chloride	2000 ug/mL
..8260/624L1MEG_00001	12/31/17	Restek, Lot A092262			(Purchased Reagent)		Benzene	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							o-Xylene	2000 ug/mL
							Toluene	2000 ug/mL
							Trichloroethene	2000 ug/mL
LO8260/624STD_00259	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASWK_00457	100 uL	Bromomethane	5 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butadiene	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					8260/624KETWK_00263	100 uL	2-Hexanone	5 ug/mL
							Acetone	5 ug/mL
							Methyl Ethyl Ketone	5 ug/mL
							methyl isobutyl ketone	5 ug/mL
					8260/624MEGWK_00391	100 uL	1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dibromoethane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							3-Chloro-1-propene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromodichloromethane	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromochloromethane	5 ug/mL
							Dibromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	25 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
					8260VA/2CEVE_00276	100 uL	Vinyl acetate	5 ug/mL
							2-Chloroethyl vinyl ether	5 ug/mL
.8260/624GASWK_00457	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASPT_00084	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
..8260/624GASPT_00084	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 GAS_00015	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
...8260/624 GAS_00015	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260/624KETWK_00263	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624KETPT_00046	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
..8260/624KETPT_00046	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 KET_00012	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
...8260/624 KET_00012	11/30/18		Restek, Lot A0115554		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
.8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	100 ug/mL
..8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
...8260/624 Mega_00016	03/31/18		Restek, Lot A0108177		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	2500 ug/mL
.8260VA/2CEVE_00276	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624 VAPT_00051	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00044	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
..8260/624 VAPT_00051	09/30/17	05/30/17	METHANOL, Lot NA	1 mL	8260/624 VA_00023	1 mL	Vinyl acetate	5000 ug/mL
...8260/624 VA_00023	09/30/17		Restek, Lot A0125716		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..8260/624CEVPT_00044	09/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260/624 CEVE_00011	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
...8260/624 CEVE_00011	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
LOW8260ACR_00173	07/12/17	07/05/17	Water, Lot NA	1 mL	8260/624ACRWK_00334	50 uL	Acrolein	200 ug/mL
.8260/624ACRWK_00334	07/12/17	07/05/17	Water, Lot NA	2 mL	8260 ACRPTSPK_00032	400 uL	Acrolein	4000 ug/mL
..8260 ACRPTSPK_00032	08/23/17	05/23/17	Water, Lot NA	1 mL	ACROLN SK STK_00026	1 mL	Acrolein	20000 ug/mL
...ACROLN SK STK_00026	09/30/17		Restek, Lot A0125594		(Purchased Reagent)		Acrolein	20000 ug/mL
M15HSTKHG_00001	06/30/21		ULTRA, Lot T00602		(Purchased Reagent)		Mercury	1000 ug/mL
M17BSTKHG_00001	02/27/18		Inorganic Ventures, Lot J2-HG02134		(Purchased Reagent)		Mercury	1000 ug/mL
M17ISPKIC_00001	11/16/17	09/27/17	Nitric Acid Water, Lot 165099	1000 mL	M16LSTKIC_00004	100 mL	Al	200 ug/mL
							Barium	200 ug/mL
							Ca	1000 ug/mL
							K	1000 ug/mL
							Mg	1000 ug/mL
							Na	1000 ug/mL
					M16LSTKIC_00005	100 mL	Arsenic	10 ug/mL
							B	100 ug/mL
							Be	5 ug/mL
							Bi	50 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Co	50 ug/mL
							Cu	25 ug/mL
							Fe	100 ug/mL
							Lead	10 ug/mL
							Li	50 ug/mL
							Mn	50 ug/mL
							Ni	50 ug/mL
							Selenium	10 ug/mL
							Sr	100 ug/mL
							Tl	10 ug/mL
							V	50 ug/mL
							Zn	50 ug/mL
					M16LSTKIC_00006	100 mL	Mo	100 ug/mL
							Sb	50 ug/mL
							Si	500 ug/mL
							Silver	5 ug/mL
							Sn	100 ug/mL
							Ti	100 ug/mL
					M17ASTKIC_00003	5 mL	Tl	10 ug/mL
					M17GSTKIC_00007	9 mL	Selenium	10 ug/mL
					M17GSTKIC_00008	8 mL	Lead	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					M17HSTKIC_00002	6 mL	Arsenic	10 ug/mL
.M16LSTKIC_00004	11/16/17	Environ. Express, Lot 1631619			(Purchased Reagent)		Al	2000 ug/mL
							Barium	2000 ug/mL
							Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
.M16LSTKIC_00005	11/16/17	Environ.l Express, Lot 1631620			(Purchased Reagent)		Arsenic	40 ug/mL
							B	1000 ug/mL
							Be	50 ug/mL
							Bi	500 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Cu	250 ug/mL
							Fe	1000 ug/mL
							Lead	20 ug/mL
							Li	500 ug/mL
							Mn	500 ug/mL
							Ni	500 ug/mL
							Selenium	10 ug/mL
							Sr	1000 ug/mL
							Tl	50 ug/mL
							V	500 ug/mL
							Zn	500 ug/mL
.M16LSTKIC_00006	11/16/17	Environ. Express, Lot 1631621			(Purchased Reagent)		Mo	1000 ug/mL
							Sb	500 ug/mL
							Si	5000 ug/mL
							Silver	50 ug/mL
							Sn	1000 ug/mL
							Ti	1000 ug/mL
.M17ASTKIC_00003	01/13/18	Inorganic Ventures, Lot K2-TL651554			(Purchased Reagent)		Tl	1000 ug/mL
.M17GSTKIC_00007	07/25/18	Inorganic Ventures, Lot M2-SE02058R			(Purchased Reagent)		Selenium	1000 ug/mL
.M17GSTKIC_00008	07/25/18	Inorganic Ventures, Lot M2-PB656988			(Purchased Reagent)		Lead	1000 ug/mL
.M17HSTKIC_00002	08/18/18	Inorganic Ventures, Lot M2-AS657780			(Purchased Reagent)		Arsenic	1000 ug/mL
M17JCCVIC_00001	06/01/18	10/03/17	acidic water, Lot 166089/175648	1000 mL	M17GSTKIC_00003	10 mL	Arsenic	0.5 ug/mL
							Barium	0.5 ug/mL
							Cadmium	0.5 ug/mL
							Chromium	0.5 ug/mL
							Lead	0.5 ug/mL
							Selenium	0.5 ug/mL
					M17GSTKIC_00005	10 mL	Silver	0.5 ug/mL
.M17GSTKIC_00003	06/01/18	High Purity Standards, Lot 1718019			(Purchased Reagent)		Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Selenium	50 ug/mL
.M17GSTKIC_00005	06/01/18	High Purity Standards, Lot 1718016			(Purchased Reagent)		Silver	50 ug/mL
M17JCCVLIC_00001	03/08/18	10/05/17	acidic water, Lot 166089/175648	1000 mL	M17CSTKIC_00002	1 mL	Arsenic	0.01 ug/mL
							Barium	0.01 ug/mL
							Cadmium	0.002 ug/mL
							Chromium	0.01 ug/mL
							Lead	0.005 ug/mL
							Selenium	0.01 ug/mL
							Silver	0.005 ug/mL
.M17CSTKIC_00002	03/08/18	Inorganic Ventures, Lot M2-MEB656086			(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	10 ug/mL
							Cadmium	2 ug/mL
							Chromium	10 ug/mL
							Lead	5 ug/mL
							Selenium	10 ug/mL
							Silver	5 ug/mL
M17JCRIIC_00001	12/02/17	10/05/17	acidic water, Lot 166089/175648	1000 mL	M17CSTKIC_00002	2 mL	Arsenic	20 ug/L
							Barium	20 ug/L
							Cadmium	4 ug/L
							Chromium	20 ug/L
							Lead	10 ug/L
							Selenium	20 ug/L
							Silver	10 ug/L
.M17CSTKIC_00002	03/08/18	Inorganic Ventures, Lot M2-MEB656086			(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	10 ug/mL
							Cadmium	2 ug/mL
							Chromium	10 ug/mL
							Lead	5 ug/mL
							Selenium	10 ug/mL
							Silver	5 ug/mL
M17JICVIC_00001	06/01/18	09/26/17	acidic water, Lot 166089/175648	1000 mL	M17GSTKIC_00003	8 mL	Arsenic	0.4 ug/mL
							Barium	0.4 ug/mL
							Cadmium	0.4 ug/mL
							Chromium	0.4 ug/mL
							Lead	0.4 ug/mL
							Selenium	0.4 ug/mL
					M17GSTKIC_00005	8 mL	Silver	0.4 ug/mL
.M17GSTKIC_00003	06/01/18	High Purity Standards, Lot 1718019			(Purchased Reagent)		Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
.M17GSTKIC_00005	06/01/18	High Purity Standards, Lot 1718016			(Purchased Reagent)		Silver	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
M17JISAIC_00001	05/30/18	09/20/17	acidic water, Lot 166089/175648	1000 mL	M17ESTKIC_00003	100 mL	Al	500 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.M17ESTKIC_00003	05/30/18	Inorganic Ventures, Lot K2-MEB643109			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
M17JISBIC_00001	05/30/18	09/20/17	acidic water, Lot 166089/175648	1000 mL	M17ESTKIC_00003	100 mL	Al	500 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
					M17GSTKIC_00002	10 mL	Arsenic	0.1 ug/mL
							Barium	0.5 ug/mL
							Be	0.5 ug/mL
							Cadmium	1 ug/mL
							Chromium	0.5 ug/mL
							Co	0.5 ug/mL
							Cu	0.5 ug/mL
							Lead	0.05 ug/mL
							Mn	0.5 ug/mL
							Ni	1 ug/mL
							Sb	0.6 ug/mL
							Selenium	0.05 ug/mL
							Silver	0.2 ug/mL
							Tl	0.1 ug/mL
							V	0.5 ug/mL
							Zn	1 ug/mL
.M17ESTKIC_00003	05/30/18	Inorganic Ventures, Lot K2-MEB643109			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
.M17GSTKIC_00002	07/17/18	Inorganic Ventures, Lot K2-MEB627074			(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	50 ug/mL
							Be	50 ug/mL
							Cadmium	100 ug/mL
							Chromium	50 ug/mL
							Co	50 ug/mL
							Cu	50 ug/mL
							Lead	5 ug/mL
							Mn	50 ug/mL
							Ni	100 ug/mL
							Sb	60 ug/mL
							Selenium	5 ug/mL
							Silver	20 ug/mL
							Tl	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							V	50 ug/mL
							Zn	100 ug/mL
SM_HIVOLISTD_00158	12/16/17	06/16/17	Methylene Chloride, Lot 173138	4000 uL	SMISTDWORK_00347	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
.SMISTDWORK_00347	06/05/18	06/05/17	Methylene Chloride, Lot 164544	4000 uL	SMISTD_WK_00038	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
..SMISTD_WK_00038	06/05/18	06/05/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
...SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SM_HIVOLISTD_00160	12/26/17	06/26/17	Methylene Chloride, Lot 173138	4000 uL	SMISTDWORK_00348	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
.SMISTDWORK_00348	06/05/18	06/21/17	Methylene Chloride, Lot 173138	4000 uL	SMISTD_WK_00038	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
..SMISTD_WK_00038	06/05/18	06/05/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMlst1_5uLICV_00037	12/28/17	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SM_HIVOLISTD_00172	10 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMlst1_5uLICV_00037	12/28/17	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMICV_L1_W5uL_00016	250 uL	Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							1,1'-Biphenyl	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
.SMICV_L1_W5uL_00016	12/28/17	07/06/17	Methylene Chloride, Lot 173138	1000 uL	SMICVL1_WKG_00019	200 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							1,1'-Biphenyl	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
..SMICVL1_WKG_00019	12/28/17	07/06/17	Methylene Chloride, Lot 173138	1000 uL	SMicLs1S11_WK_00005	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMicvLs1S1_WK_00008	200 uL	1,1'-Biphenyl	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
					SMicvLs1S9_WK_00005	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
...SMicLs1S11_WK_00005	12/28/17	06/28/17	Methylene Chloride, Lot n/a	5000 uL	SMicLs1S11_ST_00006	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	2000 ug/mL
....SMicLs1S11_ST_00006	06/30/18		RESTEK, Lot A0123649		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMicvLs1S1_WK_00008	07/06/18	07/06/17	n/a, Lot n/a	5000 uL	SMicvLs1S1_ST_00017	5000 uL	1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
....SMicvLs1S1_ST_00017	11/30/18		RESTEK, Lot A0127347		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
...SMicvLs1S9_WK_00005	06/30/18	05/02/17	Methylene Chloride, Lot n/a	5000 uL	SMicvLs1S9_ST_00006	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
....SMicvLs1S9_ST_00006	06/30/18	RESTEK, Lot A0123493			(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
SMlst1_5uLL1_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5WKG_00054	20 uL	Benzo[a]anthracene	0.04 ug/mL
							Benzo[a]pyrene	0.04 ug/mL
							Benzo[b]fluoranthene	0.04 ug/mL
							Benzo[k]fluoranthene	0.04 ug/mL
							Chrysene	0.04 ug/mL
							Dibenz(a,h)anthracene	0.04 ug/mL
							Indeno[1,2,3-cd]pyrene	0.04 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
......SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
SMlst1_5uLL10_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	150 uL	1,1'-Biphenyl	12 ug/mL
							1,2,4,5-Tetrachlorobenzene	12 ug/mL
							1,2,4-Trichlorobenzene	12 ug/mL
							1,2-Dichlorobenzene	12 ug/mL
							1,2-Diphenylhydrazine	12 ug/mL
							1,3-Dichlorobenzene	12 ug/mL
							1,3-Dinitrobenzene	12 ug/mL
							1,4-Dichlorobenzene	12 ug/mL
							1,4-Dioxane	12 ug/mL
							1-Methylnaphthalene	12 ug/mL
							2,2'-oxybis[1-chloropropane]	12 ug/mL
							2,3,4,6-Tetrachlorophenol	12 ug/mL
							2,4,5-Trichlorophenol	12 ug/mL
							2,4,6-Trichlorophenol	12 ug/mL
							2,4-Dichlorophenol	12 ug/mL
							2,4-Dimethylphenol	12 ug/mL
							2,4-Dinitrophenol	24 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	12 ug/mL
							2,6-Dichlorophenol	12 ug/mL
							2,6-Dinitrotoluene	12 ug/mL
							2-Chloronaphthalene	12 ug/mL
							2-Chlorophenol	12 ug/mL
							2-Methylnaphthalene	12 ug/mL
							2-Methylphenol	12 ug/mL
							2-Nitroaniline	12 ug/mL
							2-Nitrophenol	12 ug/mL
							3 & 4 Methylphenol	12 ug/mL
							3-Nitroaniline	12 ug/mL
							4,6-Dinitro-2-methylphenol	24 ug/mL
							4-Bromophenyl phenyl ether	12 ug/mL
							4-Chloro-3-methylphenol	12 ug/mL
							4-Chloroaniline	12 ug/mL
							4-Chlorophenyl phenyl ether	12 ug/mL
							4-Nitroaniline	12 ug/mL
							4-Nitrophenol	24 ug/mL
							Acenaphthene	12 ug/mL
							Acenaphthylene	12 ug/mL
							Acetophenone	12 ug/mL
							Aniline	12 ug/mL
							Anthracene	12 ug/mL
							Benzo[a]anthracene	12 ug/mL
							Benzo[a]pyrene	12 ug/mL
							Benzo[b]fluoranthene	12 ug/mL
							Benzo[g,h,i]perylene	12 ug/mL
							Benzo[k]fluoranthene	12 ug/mL
							Benzyl alcohol	12 ug/mL
							Bis(2-chloroethoxy)methane	12 ug/mL
							Bis(2-chloroethyl)ether	12 ug/mL
							Bis(2-ethylhexyl) phthalate	12 ug/mL
							Butyl benzyl phthalate	12 ug/mL
							Carbazole	12 ug/mL
							Chrysene	12 ug/mL
							Di-n-butyl phthalate	12 ug/mL
							Di-n-octyl phthalate	12 ug/mL
							Dibenz(a,h)anthracene	12 ug/mL
							Dibenzofuran	12 ug/mL
							Diethyl phthalate	12 ug/mL
							Dimethyl phthalate	12 ug/mL
							Diphenylamine	10.2 ug/mL
							Fluoranthene	12 ug/mL
							Fluorene	12 ug/mL
							Hexachlorobenzene	12 ug/mL
							Hexachlorobutadiene	12 ug/mL
							Hexachlorocyclopentadiene	12 ug/mL
							Hexachloroethane	12 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexadecane	12 ug/mL
							Indeno[1,2,3-cd]pyrene	12 ug/mL
							Isophorone	12 ug/mL
							n-Decane	12 ug/mL
							N-Nitrosodi-n-propylamine	12 ug/mL
							N-Nitrosodimethylamine	12 ug/mL
							N-Nitrosodiphenylamine	12 ug/mL
							n-Octadecane	12 ug/mL
							Naphthalene	12 ug/mL
							Nitrobenzene	12 ug/mL
							Pentachlorophenol	24 ug/mL
							Phenanthrene	12 ug/mL
							Phenol	12 ug/mL
							Pyrene	12 ug/mL
							Pyridine	24 ug/mL
							Benzoic acid	24 ug/mL
							Indene	24 ug/mL
							Atrazine	12 ug/mL
							Benzaldehyde	12 ug/mL
							Caprolactam	12 ug/mL
							3,3'-Dichlorobenzidine	12 ug/mL
							Benzidine	12 ug/mL
					SMSURR5uLWKG_00060	150 uL	2,4,6-Tribromophenol (Surr)	12 ug/mL
							2-Fluorobiphenyl (Surr)	12 ug/mL
							2-Fluorophenol (Surr)	12 ug/mL
							Nitrobenzene-d5 (Surr)	12 ug/mL
							Phenol-d5 (Surr)	12 ug/mL
							Terphenyl-d14 (Surr)	12 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL11_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	175 uL	1,1'-Biphenyl	14 ug/mL
							1,2,4,5-Tetrachlorobenzene	14 ug/mL
							1,2,4-Trichlorobenzene	14 ug/mL
							1,2-Dichlorobenzene	14 ug/mL
							1,2-Diphenylhydrazine	14 ug/mL
							1,3-Dichlorobenzene	14 ug/mL
							1,3-Dinitrobenzene	14 ug/mL
							1,4-Dichlorobenzene	14 ug/mL
							1,4-Dioxane	14 ug/mL
							1-Methylnaphthalene	14 ug/mL
							2,2'-oxybis[1-chloropropane]	14 ug/mL
							2,3,4,6-Tetrachlorophenol	14 ug/mL
							2,4,5-Trichlorophenol	14 ug/mL
							2,4,6-Trichlorophenol	14 ug/mL
							2,4-Dichlorophenol	14 ug/mL
							2,4-Dimethylphenol	14 ug/mL
							2,4-Dinitrophenol	28 ug/mL
							2,4-Dinitrotoluene	14 ug/mL
							2,6-Dichlorophenol	14 ug/mL
							2,6-Dinitrotoluene	14 ug/mL
							2-Chloronaphthalene	14 ug/mL
							2-Chlorophenol	14 ug/mL
							2-Methylnaphthalene	14 ug/mL
							2-Methylphenol	14 ug/mL
							2-Nitroaniline	14 ug/mL
							2-Nitrophenol	14 ug/mL
							3 & 4 Methylphenol	14 ug/mL
							3-Nitroaniline	14 ug/mL
							4,6-Dinitro-2-methylphenol	28 ug/mL
							4-Bromophenyl phenyl ether	14 ug/mL
							4-Chloro-3-methylphenol	14 ug/mL
							4-Chloroaniline	14 ug/mL
							4-Chlorophenyl phenyl ether	14 ug/mL
							4-Nitroaniline	14 ug/mL
							4-Nitrophenol	28 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	14 ug/mL
							Acenaphthylene	14 ug/mL
							Acetophenone	14 ug/mL
							Aniline	14 ug/mL
							Anthracene	14 ug/mL
							Benzo[a]anthracene	14 ug/mL
							Benzo[a]pyrene	14 ug/mL
							Benzo[b]fluoranthene	14 ug/mL
							Benzo[g,h,i]perylene	14 ug/mL
							Benzo[k]fluoranthene	14 ug/mL
							Benzyl alcohol	14 ug/mL
							Bis(2-chloroethoxy)methane	14 ug/mL
							Bis(2-chloroethyl)ether	14 ug/mL
							Bis(2-ethylhexyl) phthalate	14 ug/mL
							Butyl benzyl phthalate	14 ug/mL
							Carbazole	14 ug/mL
							Chrysene	14 ug/mL
							Di-n-butyl phthalate	14 ug/mL
							Di-n-octyl phthalate	14 ug/mL
							Dibenz(a,h)anthracene	14 ug/mL
							Dibenzofuran	14 ug/mL
							Diethyl phthalate	14 ug/mL
							Dimethyl phthalate	14 ug/mL
							Diphenylamine	11.9 ug/mL
							Fluoranthene	14 ug/mL
							Fluorene	14 ug/mL
							Hexachlorobenzene	14 ug/mL
							Hexachlorobutadiene	14 ug/mL
							Hexachlorocyclopentadiene	14 ug/mL
							Hexachloroethane	14 ug/mL
							Hexadecane	14 ug/mL
							Indeno[1,2,3-cd]pyrene	14 ug/mL
							Isophorone	14 ug/mL
							n-Decane	14 ug/mL
							N-Nitrosodi-n-propylamine	14 ug/mL
							N-Nitrosodimethylamine	14 ug/mL
							N-Nitrosodiphenylamine	14 ug/mL
							n-Octadecane	14 ug/mL
							Naphthalene	14 ug/mL
							Nitrobenzene	14 ug/mL
							Pentachlorophenol	28 ug/mL
							Phenanthrene	14 ug/mL
							Phenol	14 ug/mL
							Pyrene	14 ug/mL
							Pyridine	28 ug/mL
							Benzoic acid	28 ug/mL
							Indene	28 ug/mL
							Atrazine	14 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	14 ug/mL
							Caprolactam	14 ug/mL
							3,3'-Dichlorobenzidine	14 ug/mL
							Benzidine	14 ug/mL
					SMSURR5uLWKG_00060	175 uL	2,4,6-Tribromophenol (Surr)	14 ug/mL
							2-Fluorobiphenyl (Surr)	14 ug/mL
							2-Fluorophenol (Surr)	14 ug/mL
							Nitrobenzene-d5 (Surr)	14 ug/mL
							Phenol-d5 (Surr)	14 ug/mL
							Terphenyl-d14 (Surr)	14 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL2_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5WKG_00054	50 uL	2,6-Dinitrotoluene	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							N-Nitrosodi-n-propylamine	0.1 ug/mL
							Phenol	0.1 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	2,6-Dinitrotoluene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							Phenol	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	2,6-Dinitrotoluene	4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							Phenol	4 ug/mL
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	2,6-Dinitrotoluene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							Phenol	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	2,6-Dinitrotoluene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							Phenol	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol	1000 ug/mL
......SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Phenol	1000 ug/mL
SMlst1_5uLL3_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5WKG_00054	100 uL	1-Methylnaphthalene	0.2 ug/mL
							2,4-Dinitrotoluene	0.2 ug/mL
							2,6-Dinitrotoluene	0.2 ug/mL
							2-Methylnaphthalene	0.2 ug/mL
							Acenaphthene	0.2 ug/mL
							Acenaphthylene	0.2 ug/mL
							Acetophenone	0.2 ug/mL
							Anthracene	0.2 ug/mL
							Benzo[a]anthracene	0.2 ug/mL
							Benzo[a]pyrene	0.2 ug/mL
							Benzo[b]fluoranthene	0.2 ug/mL
							Benzo[g,h,i]perylene	0.2 ug/mL
							Benzo[k]fluoranthene	0.2 ug/mL
							Chrysene	0.2 ug/mL
							Dibenz(a,h)anthracene	0.2 ug/mL
							Fluoranthene	0.2 ug/mL
							Fluorene	0.2 ug/mL
							Hexachlorobenzene	0.2 ug/mL
							Indeno[1,2,3-cd]pyrene	0.2 ug/mL
							n-Decane	0.2 ug/mL
							N-Nitrosodi-n-propylamine	0.2 ug/mL
							N-Nitrosodiphenylamine	0.2 ug/mL
							Naphthalene	0.2 ug/mL
							Nitrobenzene	0.2 ug/mL
							Phenanthrene	0.2 ug/mL
							Pyrene	0.2 ug/mL
							2,4,6-Tribromophenol (Surr)	0.2 ug/mL
							2-Fluorobiphenyl (Surr)	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol (Surr)	0.2 ug/mL
							Nitrobenzene-d5 (Surr)	0.2 ug/mL
							Phenol-d5 (Surr)	0.2 ug/mL
							Terphenyl-d14 (Surr)	0.2 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	1-Methylnaphthalene	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1-Methylnaphthalene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Phenanthrene	4 ug/mL
							Pyrene	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1-Methylnaphthalene	40 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1-Methylnaphthalene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							n-Decane	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
......SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
....SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
......SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.......SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL4_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5WKG_00054	200 uL	1,2,4-Trichlorobenzene	0.4 ug/mL
							1,2-Dichlorobenzene	0.4 ug/mL
							1,3-Dichlorobenzene	0.4 ug/mL
							1,4-Dichlorobenzene	0.4 ug/mL
							1-Methylnaphthalene	0.4 ug/mL
							2,2'-oxybis[1-chloropropane]	0.4 ug/mL
							2,4-Dinitrotoluene	0.4 ug/mL
							2,6-Dinitrotoluene	0.4 ug/mL
							2-Chloronaphthalene	0.4 ug/mL
							2-Methylnaphthalene	0.4 ug/mL
							2-Methylphenol	0.4 ug/mL
							3 & 4 Methylphenol	0.4 ug/mL
							Acenaphthene	0.4 ug/mL
							Acenaphthylene	0.4 ug/mL
							Acetophenone	0.4 ug/mL
							Anthracene	0.4 ug/mL
							Benzo[a]anthracene	0.4 ug/mL
							Benzo[a]pyrene	0.4 ug/mL
							Benzo[b]fluoranthene	0.4 ug/mL
							Benzo[g,h,i]perylene	0.4 ug/mL
							Benzo[k]fluoranthene	0.4 ug/mL
							Bis(2-chloroethoxy)methane	0.4 ug/mL
							Bis(2-chloroethyl)ether	0.4 ug/mL
							Bis(2-ethylhexyl) phthalate	0.4 ug/mL
							Butyl benzyl phthalate	0.4 ug/mL
							Carbazole	0.4 ug/mL
							Chrysene	0.4 ug/mL
							Di-n-butyl phthalate	0.4 ug/mL
							Dibenz(a,h)anthracene	0.4 ug/mL
							Dibenzofuran	0.4 ug/mL
							Diethyl phthalate	0.4 ug/mL
							Dimethyl phthalate	0.4 ug/mL
							Fluoranthene	0.4 ug/mL
							Fluorene	0.4 ug/mL
							Hexachlorobenzene	0.4 ug/mL
							Hexachlorobutadiene	0.4 ug/mL
							Indeno[1,2,3-cd]pyrene	0.4 ug/mL
							Isophorone	0.4 ug/mL
							n-Decane	0.4 ug/mL
							N-Nitrosodi-n-propylamine	0.4 ug/mL
							N-Nitrosodiphenylamine	0.4 ug/mL
							n-Octadecane	0.4 ug/mL
							Naphthalene	0.4 ug/mL
							Nitrobenzene	0.4 ug/mL
							Phenanthrene	0.4 ug/mL
							Pyrene	0.4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Tribromophenol (Surr)	0.4 ug/mL
							2-Fluorobiphenyl (Surr)	0.4 ug/mL
							2-Fluorophenol (Surr)	0.4 ug/mL
							Nitrobenzene-d5 (Surr)	0.4 ug/mL
							Phenol-d5 (Surr)	0.4 ug/mL
							Terphenyl-d14 (Surr)	0.4 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Phenanthrene	4 ug/mL
							Pyrene	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1-Methylnaphthalene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
......SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
....SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
......SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.......SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL5_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5ULWK_00042	125 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Diphenylamine	0.85 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Hexadecane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	4 ug/mL
..SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
...SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	2000 ug/mL
....SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
...SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
.....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
......SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL6_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5ULWK_00042	250 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Diphenylamine	1.7 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Hexadecane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	4 ug/mL
							Benzoic acid	4 ug/mL
							Indene	4 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
..SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
...SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
...SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
.....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
......SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL7_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	50 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00060	50 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL8_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	100 uL	1,1'-Biphenyl	8 ug/mL
							1,2,4,5-Tetrachlorobenzene	8 ug/mL
							1,2,4-Trichlorobenzene	8 ug/mL
							1,2-Dichlorobenzene	8 ug/mL
							1,2-Diphenylhydrazine	8 ug/mL
							1,3-Dichlorobenzene	8 ug/mL
							1,3-Dinitrobenzene	8 ug/mL
							1,4-Dichlorobenzene	8 ug/mL
							1,4-Dioxane	8 ug/mL
							1-Methylnaphthalene	8 ug/mL
							2,2'-oxybis[1-chloropropane]	8 ug/mL
							2,3,4,6-Tetrachlorophenol	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dichlorophenol	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3 & 4 Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Aniline	8 ug/mL
							Anthracene	8 ug/mL
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Benzyl alcohol	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl)ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Diphenylamine	6.8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Hexadecane	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL
							Isophorone	8 ug/mL
							n-Decane	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodimethylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							n-Octadecane	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	8 ug/mL
							Pyridine	16 ug/mL
							Benzoic acid	16 ug/mL
							Indene	16 ug/mL
							Atrazine	8 ug/mL
							Benzaldehyde	8 ug/mL
							Caprolactam	8 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
							Benzidine	8 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	8 ug/mL
							2-Fluorobiphenyl (Surr)	8 ug/mL
							2-Fluorophenol (Surr)	8 ug/mL
							Nitrobenzene-d5 (Surr)	8 ug/mL
							Phenol-d5 (Surr)	8 ug/mL
							Terphenyl-d14 (Surr)	8 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18	RESTEK, Lot A0123819			(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL8X_00107	12/07/17	07/13/17	Methylene Chloride, Lot 173138	500 uL	SM_HIVOLISTD_00162	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SM_HIVOLISTD_00162	12/30/17	07/12/17	Methylene Chloride, Lot 173138	4000 uL	SMISTDWORK_00348	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00348	06/05/18	06/21/17	Methylene Chloride, Lot 173138	4000 uL	SMISTD_WK_00038	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00038	06/05/18	06/05/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMlst1_5uLL8X_00107	12/07/17	07/13/17	Methylene Chloride, Lot 173138	500 uL	SMLIST_1_W5uL_00055	100 uL	1,1'-Biphenyl	8 ug/mL
							2,2'-oxybis[1-chloropropane]	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3 & 4 Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Anthracene	8 ug/mL
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl)ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL
							Isophorone	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Atrazine	8 ug/mL
							Benzaldehyde	8 ug/mL
							Caprolactam	8 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
					SMSURR5uLWKG_00057	100 uL	2,4,6-Tribromophenol (Surr)	8 ug/mL
							2-Fluorobiphenyl (Surr)	8 ug/mL
							2-Fluorophenol (Surr)	8 ug/mL
							Nitrobenzene-d5 (Surr)	8 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	8 ug/mL
							Terphenyl-d14 (Surr)	8 ug/mL
.SMLIST_1_W5uL_00055	12/07/17	07/12/17	Methylene Chloride, Lot 173138	1000 uL	SMLIST_1_W200_00054	200 uL	1,1'-Biphenyl	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
..SMLIST_1_W200_00054	12/07/17	06/07/17	Methylene Chloride, Lot 164544	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
.SMSURR5uLWKG_00057	12/07/17	07/12/17	Methylene Chloride, Lot 173138	1000 uL	SMSURRWORK_00112	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00112	12/07/17	06/07/17	Methylene Chloride, Lot 164544	1000 uL	SMSURROG_2WK_00025	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00025	12/07/17	06/07/17	Methylene Chloride, Lot 164544	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL8X_00115	01/19/18	09/21/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMlst1_5uLL8X_00115	01/19/18	09/21/17	Methylene Chloride, Lot 176171	500 uL	SMLIST_1_W5uL_00058	100 uL	1,1'-Biphenyl	8 ug/mL
							2,2'-oxybis[1-chloropropane]	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3 & 4 Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Anthracene	8 ug/mL
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl)ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isophorone	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Atrazine	8 ug/mL
							Benzaldehyde	8 ug/mL
							Caprolactam	8 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	8 ug/mL
							2-Fluorobiphenyl (Surr)	8 ug/mL
							2-Fluorophenol (Surr)	8 ug/mL
							Nitrobenzene-d5 (Surr)	8 ug/mL
							Phenol-d5 (Surr)	8 ug/mL
							Terphenyl-d14 (Surr)	8 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19	RESTEK, Lot A0103960			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL9_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	125 uL	1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Diphenylamine	8.5 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Hexadecane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
					SMSURR5uLWKG_00060	125 uL	2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19	RESTEK, Lot A0103960			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
CRMS-SW-01-102617	500-136329-1	92	86	92	107
	MB 500-407133/6	90	88	90	95
	LCS 500-407133/4	96	89	90	92

	QC LIMITS
DBFM = Dibromofluoromethane	75-120
DCA = 1,2-Dichloroethane-d4 (Surr)	75-126
TOL = Toluene-d8 (Surr)	75-120
BFB = 4-Bromofluorobenzene (Surr)	72-124

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 18S1026P.d

Lab ID: LCS 500-407133/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	50.0	32.1	64	40-150	
Chloromethane	50.0	45.8	92	54-147	
Vinyl chloride	50.0	37.7	75	64-126	
Bromomethane	50.0	54.6	109	40-130	
Chloroethane	50.0	49.0	98	45-127	
Trichlorofluoromethane	50.0	37.6	75	70-126	
1,1-Dichloroethene	50.0	43.8	88	67-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.9	92	70-123	
Acetone	50.0	50.1	100	40-143	
Carbon disulfide	50.0	42.4	85	66-120	
Methyl acetate	100	98.2	98	56-150	
Methylene Chloride	50.0	48.9	98	69-125	
trans-1,2-Dichloroethene	50.0	45.1	90	70-125	
Methyl tert-butyl ether	50.0	45.4	91	70-120	
1,1-Dichloroethane	50.0	46.1	92	70-125	
cis-1,2-Dichloroethene	50.0	47.1	94	70-125	
Methyl Ethyl Ketone	50.0	50.1	100	53-141	
Chloroform	50.0	44.5	89	70-120	
1,1,1-Trichloroethane	50.0	44.6	89	70-125	
Cyclohexane	50.0	49.0	98	69-142	
Carbon tetrachloride	50.0	45.5	91	65-122	
Benzene	50.0	49.5	99	70-120	
1,2-Dichloroethane	50.0	45.2	90	68-127	
Trichloroethene	50.0	48.8	98	70-125	
Methylcyclohexane	50.0	45.8	92	70-120	
1,2-Dichloropropane	50.0	49.3	99	67-130	
Bromodichloromethane	50.0	46.9	94	69-120	
cis-1,3-Dichloropropene	50.0	42.8	86	64-127	
methyl isobutyl ketone	50.0	48.2	96	56-133	
Toluene	50.0	47.2	94	70-125	
trans-1,3-Dichloropropene	50.0	41.9	84	62-128	
1,1,2-Trichloroethane	50.0	43.9	88	70-122	
Tetrachloroethene	50.0	46.1	92	70-128	
2-Hexanone	50.0	45.4	91	56-135	
Dibromochloromethane	50.0	43.3	87	68-125	
1,2-Dibromoethane	50.0	44.5	89	70-125	
Chlorobenzene	50.0	47.3	95	70-120	
Ethylbenzene	50.0	46.3	93	70-120	
Xylenes, Total	100	93.5	93	70-125	
Styrene	50.0	47.5	95	70-120	
Bromoform	50.0	41.7	83	56-132	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 18S1026P.d

Lab ID: LCS 500-407133/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Isopropylbenzene	50.0	46.0	92	70-126	
1,1,2,2-Tetrachloroethane	50.0	45.8	92	67-127	
1,3-Dichlorobenzene	50.0	44.9	90	70-125	
1,4-Dichlorobenzene	50.0	45.7	91	70-120	
1,2-Dichlorobenzene	50.0	45.3	91	70-125	
1,2-Dibromo-3-Chloropropane	50.0	37.9	76	56-123	
1,2,4-Trichlorobenzene	50.0	42.1	84	66-127	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab File ID: 18M1026P.d Lab Sample ID: MB 500-407133/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CMS18 Date Analyzed: 10/26/2017 22:02

GC Column: DB624 ID: 0.2(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-407133/4	18S1026P.d	10/26/2017 21:12
CRMS-SW-01-102617	500-136329-1	500-136329-a-1.d	10/27/2017 06:51

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab File ID: 18B0705C.d BFB Injection Date: 07/05/2017

Instrument ID: CMS18 BFB Injection Time: 12:47

Analysis Batch No.: 391894

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.1	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	87.6	
175	5.0 - 9.0 % of mass 174	7.3	(8.3) 1
176	95.0 - 101.0 % of mass 174	86.5	(98.7) 1
177	5.0 - 9.0 % of mass 176	6.5	(7.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD01 500-391894/2	18I0705A.d	07/05/2017	13:26
	STD02 500-391894/3	18I0705B.d	07/05/2017	13:52
	STD03 500-391894/4	18I0705C.d	07/05/2017	14:16
	STD04 500-391894/5	18I0705D.d	07/05/2017	14:41
	STD05 500-391894/6	18I0705E.d	07/05/2017	15:06
	STD06 500-391894/7	18I0705F.d	07/05/2017	15:31
	STD07 500-391894/8	18I0705G.d	07/05/2017	15:56
	STD08 500-391894/9	18I0705H.d	07/05/2017	16:21
	STD09 500-391894/10	18I0705I.d	07/05/2017	16:46
	STD10 500-391894/11	18I0705J.d	07/05/2017	17:12
	ICV 500-391894/14	18S0705ICV1.d	07/05/2017	18:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab File ID: 18B1026P.d BFB Injection Date: 10/26/2017

Instrument ID: CMS18 BFB Injection Time: 19:40

Analysis Batch No.: 407133

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.0	
75	30.0 - 60.0 % of mass 95	43.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.7	(0.8) 1
174	50.0 - 120.00 % of mass 95	93.4	
175	5.0 - 9.0 % of mass 174	6.6	(7.1) 1
176	95.0 - 101.0 % of mass 174	92.2	(98.8) 1
177	5.0 - 9.0 % of mass 176	6.9	(7.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 500-407133/2	18C1026P.d	10/26/2017	20:21
	CCV 500-407133/3	18D1026P.d	10/26/2017	20:46
	LCS 500-407133/4	18S1026P.d	10/26/2017	21:12
	MB 500-407133/6	18M1026P.d	10/26/2017	22:02
CRMS-SW-01-102617	500-136329-1	500-136329-a-1.d	10/27/2017	06:51

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: STD07 500-391894/8 Date Analyzed: 07/05/2017 15:56

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18I0705G.d Heated Purge: (Y/N) N

Calibration ID: 24901

		TBAd9		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		180389	3.75	801683	6.14	18119	6.83
UPPER LIMIT		360778	4.25	1603366	6.64	36238	7.33
LOWER LIMIT		90195	3.25	400842	5.64	9060	6.33
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-391894/14		175585	3.75	774889	6.14	18363	6.83
CCVIS 500-407133/2		125715	3.75	731689	6.14	16078	6.83
CCV 500-407133/3		120197	3.74	726330	6.14	15473	6.83
LCS 500-407133/4		127287	3.75	713031	6.14	16349	6.83
MB 500-407133/6		136203	3.75	728518	6.14	18526	6.83
500-136329-1	CRMS-SW-01-102617	107118	3.73	689216	6.14	15282	6.83

TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
DXE = 1,4-Dioxane-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: STD07 500-391894/8 Date Analyzed: 07/05/2017 15:56

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18I0705G.d Heated Purge: (Y/N) N

Calibration ID: 24901

		CBNZd5		DCBd4			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		569472	9.41	326186	12.83		
UPPER LIMIT		1138944	9.91	652372	13.33		
LOWER LIMIT		284736	8.91	163093	12.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-391894/14		555755	9.41	311287	12.84		
CCVIS 500-407133/2		569562	9.41	300345	12.83		
CCV 500-407133/3		574811	9.41	291216	12.83		
LCS 500-407133/4		560792	9.41	298464	12.83		
MB 500-407133/6		585262	9.41	280381	12.83		
500-136329-1	CRMS-SW-01-102617	529546	9.41	223771	12.83		

CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: CCVIS 500-407133/2 Date Analyzed: 10/26/2017 20:21

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18C1026P.d Heated Purge: (Y/N) N

Calibration ID: 24901

		TBAd9		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		125715	3.75	731689	6.14	16078	6.83
UPPER LIMIT		251430	4.25	1463378	6.64	32156	7.33
LOWER LIMIT		62858	3.25	365845	5.64	8039	6.33
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 500-407133/3		120197	3.74	726330	6.14	15473	6.83
LCS 500-407133/4		127287	3.75	713031	6.14	16349	6.83
MB 500-407133/6		136203	3.75	728518	6.14	18526	6.83
500-136329-1	CRMS-SW-01-102617	107118	3.73	689216	6.14	15282	6.83

TBAd9 = TBA-d9 (IS)
TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
DXE = 1,4-Dioxane-d8
Area Limit = 50%-200% of internal standard area
DXE = 1,4-Dioxane-d8
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: CCVIS 500-407133/2 Date Analyzed: 10/26/2017 20:21

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18C1026P.d Heated Purge: (Y/N) N

Calibration ID: 24901

		CBNZd5		DCBd4			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		569562	9.41	300345	12.83		
UPPER LIMIT		1139124	9.91	600690	13.33		
LOWER LIMIT		284781	8.91	150173	12.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 500-407133/3		574811	9.41	291216	12.83		
LCS 500-407133/4		560792	9.41	298464	12.83		
MB 500-407133/6		585262	9.41	280381	12.83		
500-136329-1	CRMS-SW-01-102617	529546	9.41	223771	12.83		

CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: CRMS-SW-01-102617 | Lab Sample ID: 500-136329-1

Matrix: Water | Lab File ID: 500-136329-a-1.d

Analysis Method: 8260B | Date Collected: 10/26/2017 11:48

Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 06:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407133 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	<2.0		2.0	0.67
74-87-3	Chloromethane	<1.0		1.0	0.32
75-01-4	Vinyl chloride	<0.50		0.50	0.20
74-83-9	Bromomethane	<2.0		2.0	0.80
75-00-3	Chloroethane	<1.0		1.0	0.51
75-69-4	Trichlorofluoromethane	<1.0		1.0	0.43
75-35-4	1,1-Dichloroethene	<1.0		1.0	0.39
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46
67-64-1	Acetone	27		5.0	1.7
75-15-0	Carbon disulfide	<2.0		2.0	0.45
79-20-9	Methyl acetate	<5.0		5.0	2.0
75-09-2	Methylene Chloride	<5.0		5.0	1.6
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0	0.35
1634-04-4	Methyl tert-butyl ether	<1.0		1.0	0.39
75-34-3	1,1-Dichloroethane	<1.0		1.0	0.41
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0	0.41
78-93-3	Methyl Ethyl Ketone	<5.0		5.0	2.1
67-66-3	Chloroform	<2.0		2.0	0.37
71-55-6	1,1,1-Trichloroethane	<1.0		1.0	0.38
110-82-7	Cyclohexane	<1.0		1.0	0.49
56-23-5	Carbon tetrachloride	<1.0		1.0	0.38
71-43-2	Benzene	<0.50		0.50	0.15
107-06-2	1,2-Dichloroethane	<1.0		1.0	0.39
79-01-6	Trichloroethene	<0.50		0.50	0.16
108-87-2	Methylcyclohexane	<1.0		1.0	0.32
78-87-5	1,2-Dichloropropane	<1.0		1.0	0.43
75-27-4	Bromodichloromethane	<1.0		1.0	0.37
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0	0.42
108-10-1	methyl isobutyl ketone	<5.0		5.0	2.2
108-88-3	Toluene	0.33	J	0.50	0.15
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0	0.36
79-00-5	1,1,2-Trichloroethane	<1.0		1.0	0.35
127-18-4	Tetrachloroethene	<1.0		1.0	0.37
591-78-6	2-Hexanone	<5.0		5.0	1.6
124-48-1	Dibromochloromethane	<1.0		1.0	0.49

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: CRMS-SW-01-102617 | Lab Sample ID: 500-136329-1

Matrix: Water | Lab File ID: 500-136329-a-1.d

Analysis Method: 8260B | Date Collected: 10/26/2017 11:48

Sample wt/vol: 5(mL) | Date Analyzed: 10/27/2017 06:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407133 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	<1.0		1.0	0.39
108-90-7	Chlorobenzene	<1.0		1.0	0.39
100-41-4	Ethylbenzene	<0.50		0.50	0.18
1330-20-7	Xylenes, Total	<1.0		1.0	0.22
100-42-5	Styrene	<1.0		1.0	0.39
75-25-2	Bromoform	<1.0		1.0	0.48
98-82-8	Isopropylbenzene	<1.0		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40
541-73-1	1,3-Dichlorobenzene	<1.0		1.0	0.40
106-46-7	1,4-Dichlorobenzene	<1.0		1.0	0.36
95-50-1	1,2-Dichlorobenzene	<1.0		1.0	0.33
96-12-8	1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0
120-82-1	1,2,4-Trichlorobenzene	<1.0		1.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		75-126
2037-26-5	Toluene-d8 (Surr)	92		75-120
460-00-4	4-Bromofluorobenzene (Surr)	107		72-124
1868-53-7	Dibromofluoromethane	92		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\500-136329-a-1.d
Lims ID: 500-136329-A-1
Client ID: CRMS-SW-01-102617
Sample Type: Client
Inject. Date: 27-Oct-2017 06:51:30 ALS Bottle#: 4 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136329-a-1
Misc. Info.: 500-0048640-027
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 27-Oct-2017 09:08:09 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: ficarellop Date: 27-Oct-2017 09:08:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
14 Acetone	43	3.256	3.261	-0.005	95	17107	27.1	
* 22 TBA-d9 (IS)	65	3.726	3.748	-0.022	0	107118	1000.0	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	167592	45.9	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	153243	43.0	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	689216	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	15282	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	666990	46.0	
71 Toluene	92	7.878	7.872	0.006	28	3199	0.3292	
* 81 Chlorobenzene-d5	117	9.413	9.408	0.005	86	529546	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	95	235194	53.3	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.831	0.001	94	223771	50.0	

Reagents:

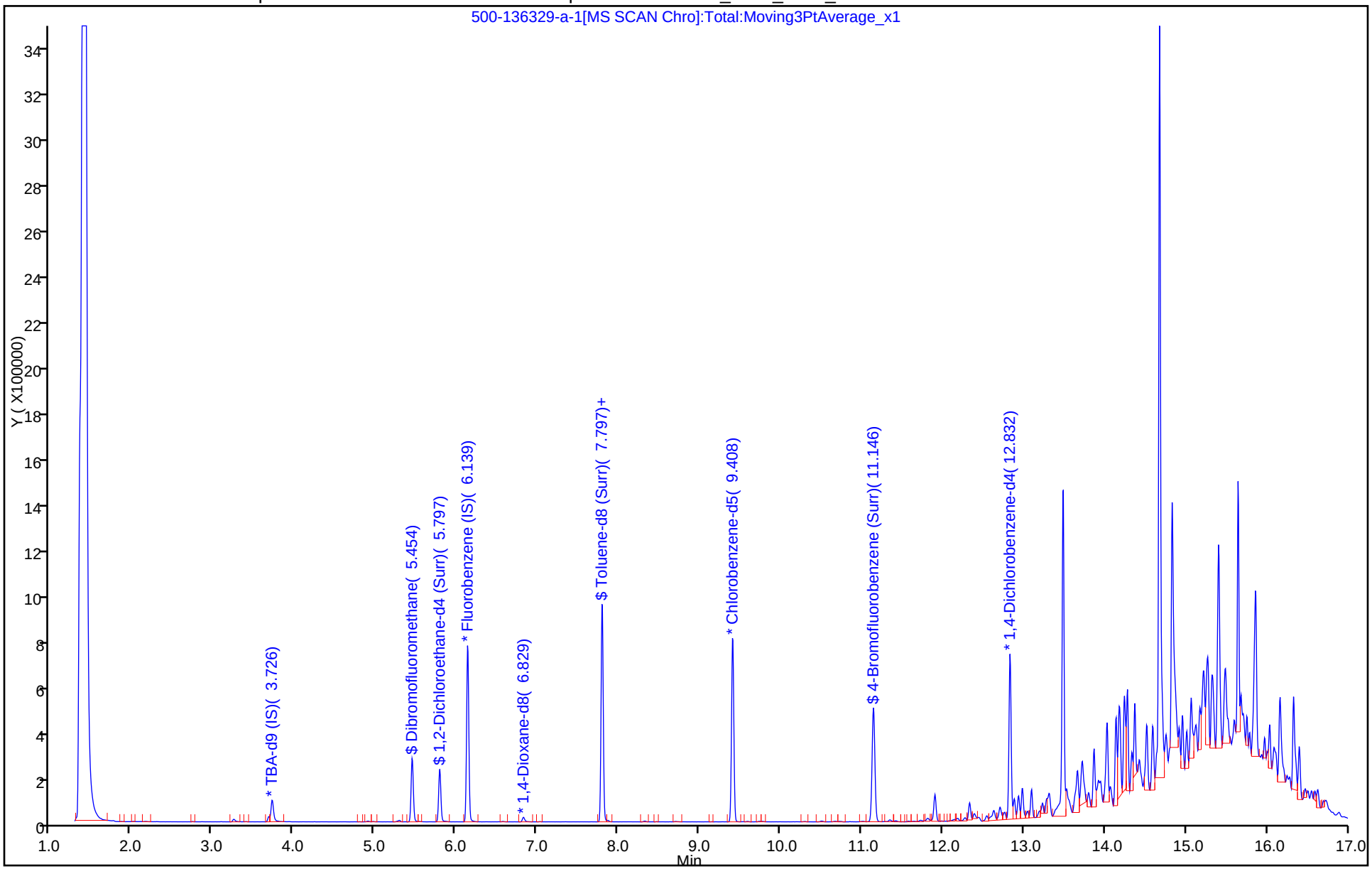
8260LOW IS/SS_00155 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 27-Oct-2017 09:08:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\500-136329-a-1.d

Injection Date:	27-Oct-2017 06:51:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	500-136329-A-1	Lab Sample ID:	500-136329-1	Worklist Smp#:	27
Client ID:	CRMS-SW-01-102617				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\500-136329-a-1.d
Lims ID: 500-136329-A-1
Client ID: CRMS-SW-01-102617
Sample Type: Client
Inject. Date: 27-Oct-2017 06:51:30 ALS Bottle#: 4 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136329-a-1
Misc. Info.: 500-0048640-027
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 27-Oct-2017 09:08:09 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: ficarellop Date: 27-Oct-2017 09:08:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	45.9	91.89
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	43.0	85.96
$ 70 Toluene-d8 (Surr)	50.0	46.0	91.97
$ 92 4-Bromofluorobenzene (Surr)	50.0	53.3	106.52

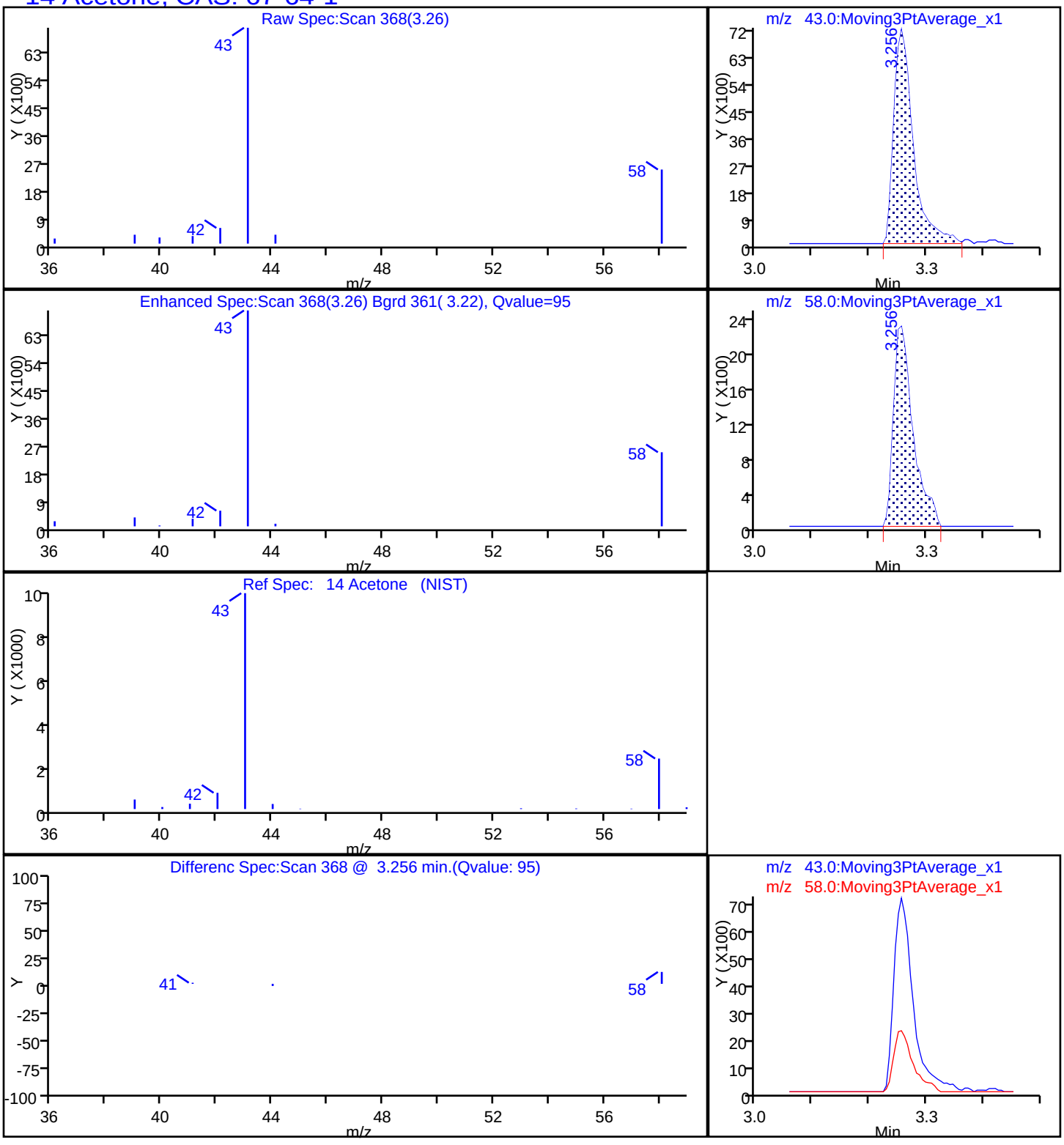
Report Date: 27-Oct-2017 09:08:10 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\500-136329-a-1.d

Injection Date:	27-Oct-2017 06:51:30	Instrument ID:	CMS18
Lims ID:	500-136329-A-1	Lab Sample ID:	500-136329-1
Client ID:	CRMS-SW-01-102617		
Operator ID:	JH	ALS Bottle#:	4 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER
Column:		Detector	MS SCAN

14 Acetone, CAS: 67-64-1



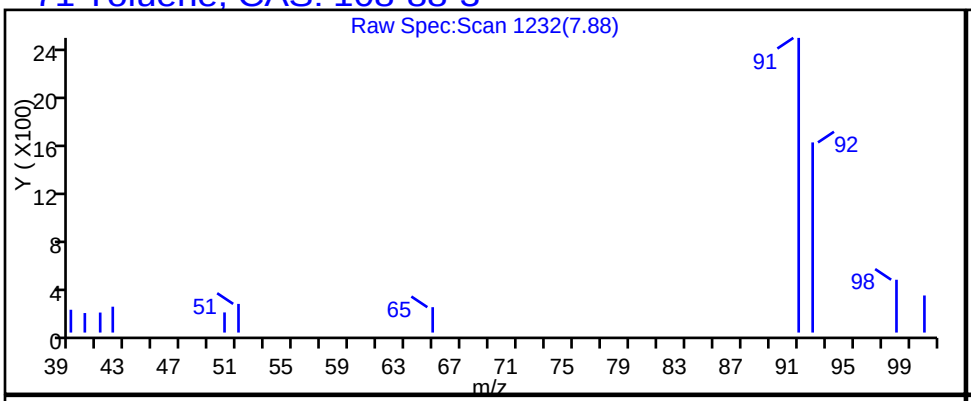
Report Date: 27-Oct-2017 09:08:10 Chrom Revision: 2.2 16-Aug-2017 16:24:46

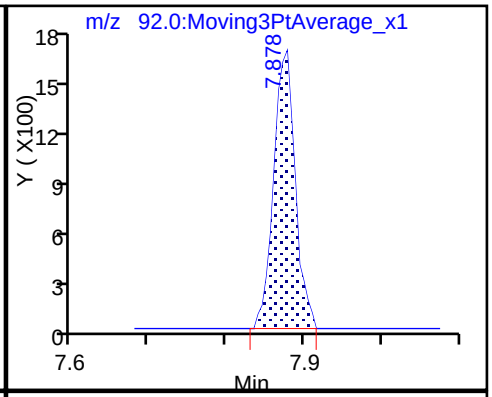
TestAmerica Chicago

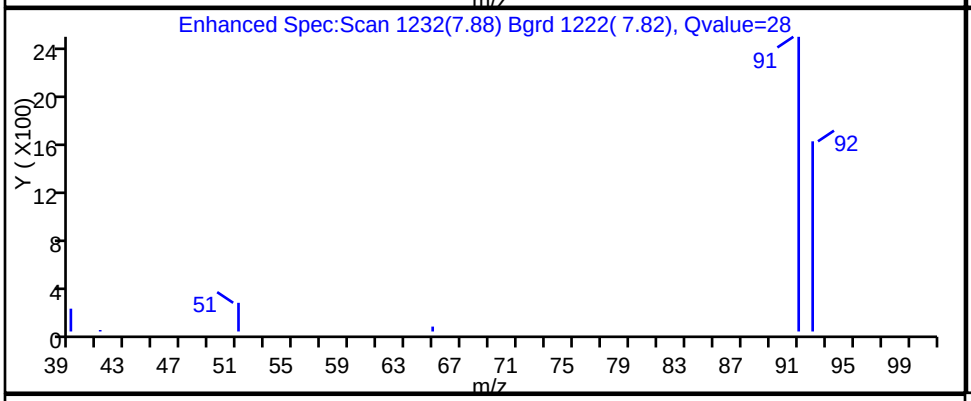
Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\500-136329-a-1.d

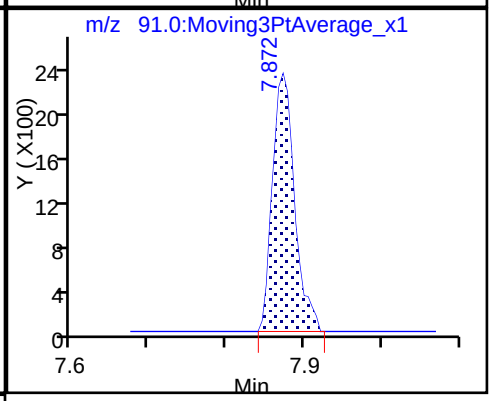
Injection Date:	27-Oct-2017 06:51:30	Instrument ID:	CMS18		
Lims ID:	500-136329-A-1	Lab Sample ID:	500-136329-1		
Client ID:	CRMS-SW-01-102617				
Operator ID:	JH	ALS Bottle#:	4	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

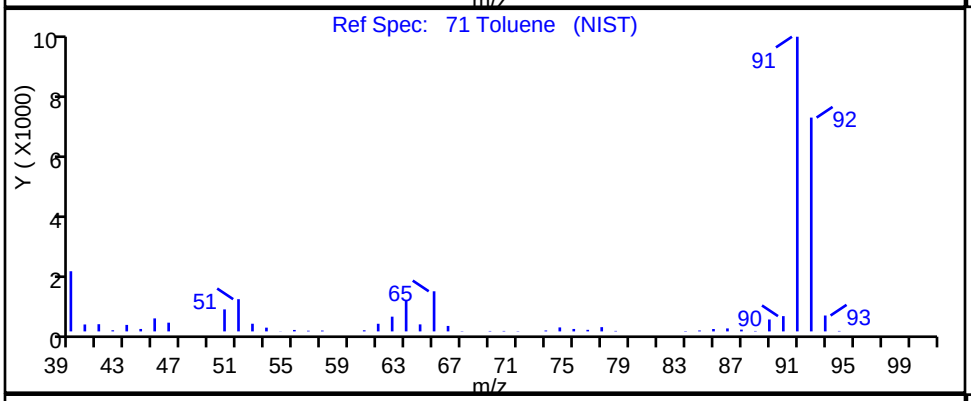
71 Toluene, CAS: 108-88-3

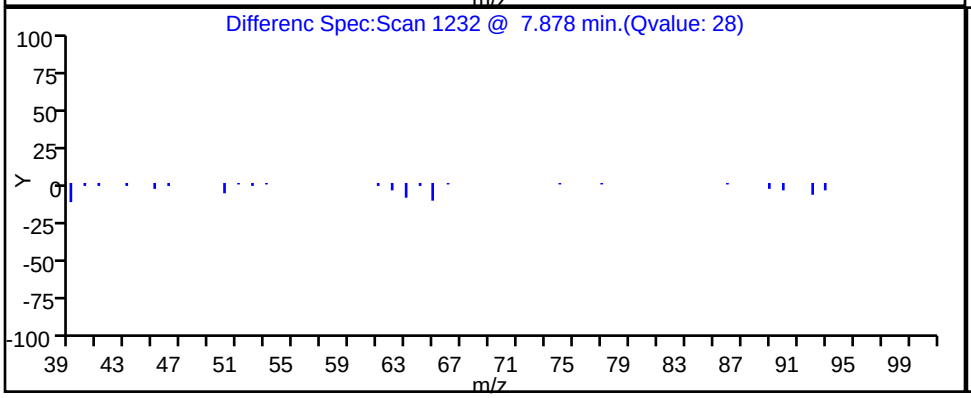


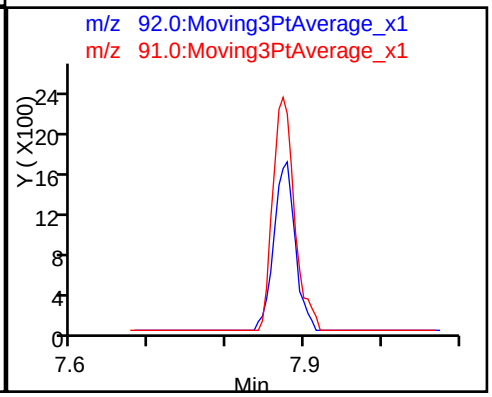












FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.2563	0.3394	0.2763 0.3309	0.2725 0.3258	0.2605 0.3368	Ave		0.2998			0.0100	12.2		15.0			
Chloromethane	0.3769	0.4202	0.5183 0.4228	0.4479 0.4168	0.3821 0.4398	Ave		0.4281			0.1000	10.3		15.0			
Vinyl chloride	0.6443 0.3447	0.4478 0.3806	0.4231 0.3794	0.4209 0.3772	0.3436 0.3894	Lin2	0.0640	0.3653			0.0100				0.9940		0.9900
Butadiene	0.3715	0.4146	0.5076 0.4187	0.4019 0.4189	0.3750 0.4354	Ave		0.4180			0.0100	10.2		15.0			
Bromomethane	0.1180	0.1199	0.1885 0.1216	0.1622 0.1212	0.1298 0.1320	Lin2	0.0692	0.1212			0.0100				0.9970		0.9900
Chloroethane	0.1749	0.1689	0.2198 0.1741	0.1800 0.1747	0.1802 0.1902	Ave		0.1829			0.0100	8.9		15.0			
Dichlorofluoromethane	0.4823	0.4879	0.6069 0.4844	0.5329 0.4748	0.5092 0.4956	Ave		0.5092			0.0100	8.6		15.0			
Trichlorofluoromethane	0.4318	0.4583	0.5418 0.4475	0.5271 0.4452	0.4317 0.4600	Ave		0.4679			0.0100	9.1		15.0			
Ethyl ether	0.1981	0.2033	0.1950 0.2129	0.2077 0.2103	0.1937 0.2122	Ave		0.2041			0.0100	3.8		15.0			
Acrolein	0.0190	0.0199	0.0198 0.0201	0.0184 0.0201	0.0176 0.0207	Ave		0.0195			0.0010	5.2		15.0			
1,1-Dichloroethene	0.2811	0.2854	0.2795 0.2861	0.3079 0.2913	0.2831 0.2900	Ave		0.2881			0.0100	3.1		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2975	0.3087	0.3166 0.3021	0.3127 0.3007	0.2820 0.3045	Ave		0.3031			0.0100	3.5		15.0			
Acetone	0.0420	0.0428	+++++ 0.0444	+++++ 0.0442	0.0552 0.0457	Ave		0.0457			0.0100	10.6		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Iodomethane	0.5137	0.5304	0.5282 0.5377	0.5743 0.5391	0.4895 0.5375	Ave		0.5313			0.0100	4.5		15.0			
Carbon disulfide	0.8819	0.9435	0.9975 0.9654	0.9479 0.9576	0.8528 0.9591	Ave		0.9382			0.0100	5.0		15.0			
3-Chloropropene	0.1683	0.1745	0.1800 0.1677	0.1803 0.1700	0.1660 0.1632	Ave		0.1713			0.0100	3.7		15.0			
Methyl acetate	0.1148	0.1152	0.1275 0.1234	0.1294 0.1211	0.1098 0.1242	Ave		0.1207			0.0100	5.7		15.0			
Methylene Chloride	0.2756	0.2786	+++++ 0.2767	+++++ 0.2768	0.2792 0.2744	Ave		0.2769			0.0100	0.7		15.0			
tert-Butyl alcohol	1.2676	1.1675	+++++ 1.2540	1.2936 1.2208	1.0837 1.2206	Ave		1.2154			0.0100	5.8		15.0			
Acrylonitrile	0.0591	0.0607	0.0724 0.0632	0.0682 0.0629	0.0552 0.0645	Ave		0.0633			0.0010	8.4		15.0			
trans-1,2-Dichloroethene	0.3031	0.3087	0.3351 0.3038	0.3406 0.3015	0.2951 0.3003	Ave		0.3110			0.0100	5.5		15.0			
Methyl tert-butyl ether	0.5218	0.5246	0.6455 0.5374	0.5494 0.5315	0.4843 0.5384	Ave		0.5416			0.0100	8.5		15.0			
Hexane	0.5291	0.5580	0.6150 0.5602	0.5928 0.5693	0.5108 0.5700	Ave		0.5632			0.0100	5.8		15.0			
1,1-Dichloroethane	0.5784	0.5787	0.6132 0.5921	0.6273 0.5989	0.5447 0.5980	Ave		0.5914			0.1000	4.2		15.0			
Vinyl acetate	0.3416	0.3428	0.3961 0.3572	0.3940 0.3799	0.3243 0.3902	Ave		0.3658			0.0100	7.6		15.0			
2,2-Dichloropropane	0.3427	0.3427	0.3777 0.3327	0.3861 0.3232	0.3438 0.3157	Ave		0.3456			0.0100	7.1		15.0			
cis-1,2-Dichloroethene	0.3196	0.3198	0.3554 0.3221	0.3319 0.3216	0.3023 0.3211	Ave		0.3242			0.0100	4.6		15.0			
Methyl Ethyl Ketone	0.0656	0.0666	+++++ 0.0640	+++++ 0.0649	0.0663 0.0669	Ave		0.0657			0.0100	1.7		15.0			
Bromochloromethane	0.1287	0.1275	0.1387 0.1347	0.1375 0.1326	0.1258 0.1340	Ave		0.1324			0.0100	3.6		15.0			
Tetrahydrofuran	0.0459	0.0425	+++++ 0.0440	0.0737 0.0442	0.0481 0.0454	Lin2	0.1149	0.0426			0.0100				0.9940		0.9900
Chloroform	0.4647	0.4647	0.5717 0.4716	0.5087 0.4801	0.4443 0.4794	Ave		0.4856			0.0100	8.1		15.0			
1,1,1-Trichloroethane	0.4212	0.4351	0.4907 0.4387	0.4556 0.4322	0.4060 0.4354	Ave		0.4394			0.0100	5.7		15.0			
Cyclohexane	0.6788	0.7017	0.7423 0.7013	0.7140 0.7053	0.6763 0.7151	Ave		0.7044			0.0100	3.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,1-Dichloropropene	0.3718	0.3763	0.3969 0.3746	0.4013 0.3796	0.3616 0.3760	Ave		0.3798			0.0100	3.5		15.0			
Carbon tetrachloride	0.3723	0.3948	0.4093 0.4005	0.3837 0.4026	0.3594 0.4022	Ave		0.3906			0.0100	4.4		15.0			
Isobutyl alcohol	0.5452	0.5399	+++++ 0.5804	0.6087 0.5609	0.4962 0.5732	Ave		0.5578			0.0010	6.4		15.0			
Benzene	1.1020 1.0510	1.1090 1.0571	1.1657 1.0765	1.1478 1.0894	1.0160 1.0740	Ave		1.0889			0.0100	4.1		15.0			
1,2-Dichloroethane	0.3228	0.3237	0.3511 0.3362	0.3456 0.3373	0.2954 0.3409	Ave		0.3316			0.0100	5.3		15.0			
Heptane	0.5198	0.5448	0.6117 0.5457	0.5860 0.5655	0.5250 0.5600	Ave		0.5573			0.0100	5.5		15.0			
Trichloroethene	0.3246 0.3035	0.3380 0.3050	0.3393 0.3093	0.3082 0.3136	0.2826 0.3125	Ave		0.3137			0.0100	5.4		15.0			
Methylcyclohexane	0.5798	0.5851	0.6265 0.5773	0.6212 0.5767	0.5645 0.5727	Ave		0.5880			0.0100	3.9		15.0			
1,2-Dichloropropane	0.2730	0.2780	0.3336 0.2831	0.2936 0.2914	0.2640 0.2899	Ave		0.2883			0.0100	7.2		15.0			
Dibromomethane	0.1115	0.1136	0.1308 0.1162	0.1249 0.1176	0.1027 0.1175	Ave		0.1168			0.0100	7.2		15.0			
1,4-Dioxane	1.2278	1.0540	+++++ 1.1060	+++++ 1.1021	1.1710 0.9575	Ave		1.1030			0.0010	8.5		15.0			
Bromodichloromethane	0.2711	0.2819	0.3396 0.2925	0.2705 0.3049	0.2618 0.3052	Ave		0.2909			0.0100	8.7		15.0			
2-Chloroethyl vinyl ether	0.1297	0.1258	0.1590 0.1316	0.1414 0.1343	0.1200 0.1368	Ave		0.1348			0.0100	8.7		15.0			
cis-1,3-Dichloropropene	0.4831	0.4864	0.5389 0.5056	0.4865 0.5178	0.4376 0.5133	Ave		0.4961			0.0100	6.1		15.0			
methyl isobutyl ketone	0.2069	0.2044	+++++ 0.2063	+++++ 0.2068	0.2041 0.2110	Ave		0.2066			0.0100	1.2		15.0			
Toluene	1.0019 0.8786	0.8502 0.8647	1.1068 0.9041	0.9279 0.9146	0.8261 0.9009	Ave		0.9176			0.0100	9.0		15.0			
trans-1,3-Dichloropropene	0.3841	0.3771	0.4853 0.3941	0.4035 0.3975	0.3709 0.3974	Ave		0.4013			0.0100	8.9		15.0			
Ethyl methacrylate	0.2716	0.2543	0.3947 0.2639	0.2953 0.2609	0.2680 0.2612	Lin2	0.1255	0.2556			0.0100				0.9970		0.9900
1,1,2-Trichloroethane	0.2049	0.1972	0.2899 0.2111	0.2231 0.2111	0.2052 0.2119	Ave		0.2193			0.0100	13.4		15.0			
Tetrachloroethene	0.4383	0.4390	0.4991 0.4407	0.4633 0.4517	0.4079 0.4402	Ave		0.4475			0.0100	5.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,3-Dichloropropane	0.3646	0.3527	0.4398 0.3661	0.4053 0.3689	0.3567 0.3613	Ave		0.3769			0.0100	8.0		15.0			
2-Hexanone	0.1399	0.1394	+++++ 0.1347	+++++ 0.1331	0.1395 0.1350	Ave		0.1369			0.0100	2.2		15.0			
Dibromochloromethane	0.2520	0.2659	0.3108 0.2845	0.2706 0.2908	0.2380 0.2922	Ave		0.2756			0.0100	8.6		15.0			
1,2-Dibromoethane	0.2115	0.2080	0.2577 0.2165	0.2505 0.2169	0.2056 0.2169	Ave		0.2229			0.0100	8.9		15.0			
Chlorobenzene	1.0275	1.0319	1.4344 1.0408	1.1391 1.0662	1.0054 1.0331	Ave		1.0973			0.3000	12.9		15.0			
1,1,1,2-Tetrachloroethane	0.3664	0.3669	0.4798 0.3878	0.3734 0.3981	0.3308 0.3897	Ave		0.3866			0.0100	11.1		15.0			
Ethylbenzene	0.6855 0.5923	0.5705 0.5878	0.8053 0.5894	0.6239 0.5994	0.5487 0.5817	Ave		0.6185			0.0100	12.1		15.0			
m&p-Xylene	1.5249 1.4150	1.3655 1.4041	1.9679 1.4145	1.5125 1.4143	1.3553 1.3797	Ave		1.4754			0.0100	12.3		15.0			
o-Xylene	1.5071 1.4515	1.4731 1.4611	2.0033 1.4713	1.5498 1.4727	1.4190 1.4309	Ave		1.5240			0.0100	11.3		15.0			
Styrene	1.1285	1.1116	1.5211 1.1310	1.2539 1.1347	1.0477 1.1052	Ave		1.1792			0.0100	12.7		15.0			
Bromoform	0.1413	0.1480	0.1741 0.1675	0.1455 0.1674	0.1252 0.1731	Ave		0.1553			0.1000	11.5		15.0			
Isopropylbenzene	3.4858	3.4318	4.7871 3.5483	3.8520 3.6788	3.4508 3.5404	Ave		3.7219			0.0100	12.1		15.0			
Bromobenzene	0.8249	0.7952	1.1282 0.8286	0.9218 0.8614	0.8321 0.8369	Ave		0.8786			0.0100	12.2		15.0			
1,1,2,2-Tetrachloroethane	0.4176	0.3950	0.6101 0.4272	0.5029 0.4304	0.4246 0.4286	Lin2	0.1908	0.4118			0.3000				0.9980		0.9900
1,2,3-Trichloropropane	0.4598	0.4474	0.4833 0.4716	0.5363 0.4916	0.4380 0.4934	Ave		0.4777			0.0100	6.5		15.0			
trans-1,4-Dichloro-2-butene	0.1557	0.1572	0.2023 0.1661	0.1751 0.1725	0.1549 0.1686	Ave		0.1690			0.0100	9.2		15.0			
N-Propylbenzene	4.1730	4.0181	5.9603 4.1230	4.5582 4.2110	4.1286 4.0344	Ave		4.4008			0.0100	14.8		15.0			
2-Chlorotoluene	2.3608	2.2755	3.5155 2.3483	2.6681 2.4381	2.3146 2.3571	Lin2	1.1057	2.2871			0.0100				0.9960		0.9900
1,3,5-Trimethylbenzene	3.0006	2.9176	4.0621 2.9766	3.1731 3.0475	2.9517 2.9124	Ave		3.1302			0.0100	12.3		15.0			
4-Chlorotoluene	2.7397	2.6230	3.8726 2.6788	3.2077 2.7557	2.7267 2.6632	Ave		2.9084			0.0100	14.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
tert-Butylbenzene	2.7957	2.7280	3.8556 2.8292	3.0764 2.8711	2.7159 2.7740	Ave		2.9557			0.0100	12.9		15.0			
1,2,4-Trimethylbenzene	3.0510	2.9799	4.0948 3.0662	3.3442 3.1285	3.0123 3.0075	Ave		3.2106			0.0100	11.7		15.0			
sec-Butylbenzene	4.0434	3.9618	5.5245 4.0653	4.3376 4.0750	3.9862 3.8786	Ave		4.2340			0.0100	12.7		15.0			
1,3-Dichlorobenzene	1.6954	1.6204	2.3626 1.7009	1.9612 1.7423	1.6346 1.6838	Ave		1.8001			0.0100	13.9		15.0			
p-Isopropyltoluene	3.5794	3.5003	4.7008 3.6040	3.7244 3.6277	3.4852 3.4269	Ave		3.7061			0.0100	11.1		15.0			
1,4-Dichlorobenzene	1.6607	1.5874	2.3665 1.6551	1.7827 1.6954	1.5578 1.6453	Ave		1.7439			0.0100	14.9		15.0			
1,2-Dichlorobenzene	1.4458	1.3925	2.0122 1.4527	1.6010 1.4736	1.3839 1.4169	Ave		1.5223			0.0100	13.7		15.0			
n-Butylbenzene	3.0890	3.0487	4.1233 3.1541	3.3676 3.1271	2.9788 2.9340	Ave		3.2278			0.0100	11.9		15.0			
1,2-Dibromo-3-Chloropropane	0.0616	0.0604	+++++ 0.0679	0.0605 0.0666	0.0687 0.0672	Ave		0.0647			0.0100	5.7		15.0			
1,2,4-Trichlorobenzene	0.9906	0.9766	1.2998 1.0368	1.0997 1.0207	0.9163 0.9451	Ave		1.0357			0.0100	11.7		15.0			
Hexachlorobutadiene	0.6766	0.6718	0.9377 0.6861	0.7609 0.6653	0.6604 0.6196	Ave		0.7098			0.0100	14.1		15.0			
Naphthalene	1.3507	1.3955	1.7701 1.5273	1.4909 1.4907	1.2240 1.4032	Ave		1.4566			0.0100	10.9		15.0			
1,2,3-Trichlorobenzene	0.7587	0.7559	1.0106 0.8093	0.8590 0.7879	0.6934 0.7184	Ave		0.7991			0.0100	12.5		15.0			
Dibromofluoromethane	0.2532	0.2633	0.2680	0.2726	0.2660	Ave		0.2646			0.0100	2.7		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2506	0.2542	0.2589	0.2646	0.2651	Ave		0.2587			0.0100	2.5		15.0			
Toluene-d8 (Surr)	1.3204	1.3563	1.3963	1.4034	1.3716	Ave		1.3696			0.0100	2.4		15.0			
4-Bromofluorobenzene (Surr)	0.9932	0.9432	0.9876	1.0243	0.9854	Ave		0.9867			0.0100	2.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave	81700	272116	4494 527601	8617 775138	20730 1061995	20.0	50.0	1.00 100	2.00 150	5.00 200
Chloromethane	FB	Ave	120142	336875	8429 674171	14166 991831	30407 1386497	20.0	50.0	1.00 100	2.00 150	5.00 200
Vinyl chloride	FB	Lin2	2527 109889	3516 305131	6881 604942	13310 897571	27348 1227798	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
Butadiene	FB	Ave	118412	332358	8254 667705	12711 996872	29843 1372905	20.0	50.0	1.00 100	2.00 150	5.00 200
Bromomethane	FB	Lin2	37607	96111	3065 193959	5130 288419	10328 416245	20.0	50.0	1.00 100	2.00 150	5.00 200
Chloroethane	FB	Ave	55755	135433	3574 277550	5694 415683	14338 599785	20.0	50.0	1.00 100	2.00 150	5.00 200
Dichlorofluoromethane	FB	Ave	153756	391107	9870 772426	16853 1129805	40525 1562454	20.0	50.0	1.00 100	2.00 150	5.00 200
Trichlorofluoromethane	FB	Ave	137633	367395	8810 713643	16670 1059463	34360 1450310	20.0	50.0	1.00 100	2.00 150	5.00 200
Ethyl ether	FB	Ave	63149	162953	3171 339452	6568 500438	15420 668978	20.0	50.0	1.00 100	2.00 150	5.00 200
Acrolein	FB	Ave	242776	637851	12902 1281902	23332 1915013	56091 2604613	800	2000	40.0 4000	80.0 6000	200 8000
1,1-Dichloroethene	FB	Ave	89606	228803	4546 456181	9738 693260	22528 914221	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	94835	247497	5148 481780	9888 715425	22445 960098	20.0	50.0	1.00 100	2.00 150	5.00 200
Acetone	FB	Ave	13388	34308	+++++ 70846	+++++ 105095	4395 144039	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Iodomethane	FB	Ave	163760	425176	8590 857408	18163 1282816	38958 1694761	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Carbon disulfide	FB	Ave	281113	756356	16222 1539407	29977 2278552	67873 3024082	20.0	50.0	1.00 100	2.00 150	5.00 200
3-Chloropropene	FB	Ave	53644	139927	2927 267341	5703 404491	13211 514612	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl acetate	FB	Ave	182964	461931	10371 983993	20462 1441283	43681 1958229	100	250	5.00 500	10.0 750	25.0 1000
Methylene Chloride	FB	Ave	87843	223357	+++++ 441233	+++++ 658706	22221 865146	20.0	50.0	+++++ 100	+++++ 150	5.00 200
tert-Butyl alcohol	TBAd9	Ave	44126	105305	+++++ 221896	4975 330674	9504 439795	200	500	+++++ 1000	20.0 1500	50.0 2000
Acrylonitrile	FB	Ave	188336	486981	11780 1008539	21559 1497067	43933 2032201	200	500	10.0 1000	20.0 1500	50.0 2000
trans-1,2-Dichloroethene	FB	Ave	96622	247445	5450 484469	10772 717405	23487 946972	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl tert-butyl ether	FB	Ave	166346	420529	10497 856864	17374 1264809	38541 1697581	20.0	50.0	1.00 100	2.00 150	5.00 200
Hexane	FB	Ave	168669	447347	10001 893243	18748 1354731	40656 1797062	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1-Dichloroethane	FB	Ave	184372	463937	9972 944075	19840 1425060	43354 1885420	20.0	50.0	1.00 100	2.00 150	5.00 200
Vinyl acetate	FB	Ave	108899	274781	6442 569580	12460 904001	25808 1230286	20.0	50.0	1.00 100	2.00 150	5.00 200
2,2-Dichloropropane	FB	Ave	109238	274726	6142 530587	12209 768970	27362 995454	20.0	50.0	1.00 100	2.00 150	5.00 200
cis-1,2-Dichloroethene	FB	Ave	101874	256370	5779 513610	10495 765209	24059 1012515	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl Ethyl Ketone	FB	Ave	20908	53426	+++++ 102095	+++++ 154325	5274 211058	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Bromochloromethane	FB	Ave	41021	102218	2256 214726	4347 315622	10011 422477	20.0	50.0	1.00 100	2.00 150	5.00 200
Tetrahydrofuran	FB	Lin2	29255	68078	+++++ 140204	4660 210363	7654 286010	40.0	100	+++++ 200	4.00 300	10.0 400
Chloroform	FB	Ave	148141	372573	9297 752011	16087 1142376	35358 1511411	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,1-Trichloroethane	FB	Ave	134251	348782	7980 699595	14409 1028320	32311 1372930	20.0	50.0	1.00 100	2.00 150	5.00 200
Cyclohexane	FB	Ave	216395	562502	12072 1118318	22582 1678279	53827 2254682	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1-Dichloropropene	FB	Ave	118509	301684	6454 597260	12691 903310	28779 1185625	20.0	50.0	1.00 100	2.00 150	5.00 200
Carbon tetrachloride	FB	Ave	118670	316472	6656 638700	12134 957861	28600 1268130	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isobutyl alcohol	TBAd9	Ave	47449	121739	+++++ 256767	5852 379845	10878 516284	500	1250	+++++ 2500	50.0 3750	125 5000
Benzene	FB	Ave	4322 335016	8707 847471	18957 1716482	36301 2592258	80864 3386318	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
1,2-Dichloroethane	FB	Ave	102909	259491	5710 536135	10930 802623	23507 1074681	20.0	50.0	1.00 100	2.00 150	5.00 200
Heptane	FB	Ave	165708	436764	9948 870212	18534 1345711	41785 1765681	20.0	50.0	1.00 100	2.00 150	5.00 200
Trichloroethene	FB	Ave	1273 96750	2654 244484	5518 493280	9747 746200	22491 985429	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
Methylcyclohexane	FB	Ave	184812	469084	10188 920502	19647 1372161	44931 1805649	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dichloropropane	FB	Ave	87032	222854	5425 451436	9284 693362	21014 913964	20.0	50.0	1.00 100	2.00 150	5.00 200
Dibromomethane	FB	Ave	35538	91089	2127 185247	3949 279814	8174 370367	20.0	50.0	1.00 100	2.00 150	5.00 200
1,4-Dioxane	DXE	Ave	8563	19097	+++++ 41154	+++++ 62699	2043 79073	400	1000	+++++ 2000	+++++ 3000	100 4000
Bromodichloromethane	FB	Ave	86406	226010	5522 466445	8554 725445	20839 962188	20.0	50.0	1.00 100	2.00 150	5.00 200
2-Chloroethyl vinyl ether	CBNZ d5	Ave	29172	71633	1900 146114	3221 224705	6935 306734	20.0	50.0	1.00 100	2.00 150	5.00 200
cis-1,3-Dichloropropene	CBNZ d5	Ave	108674	276998	6440 561271	11080 866161	25285 1150948	20.0	50.0	1.00 100	2.00 150	5.00 200
methyl isobutyl ketone	CBNZ d5	Ave	46539	116399	+++++ 229053	+++++ 345903	11794 473140	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Toluene	CBNZ d5	Ave	2923 197663	4902 492442	13227 1003686	21132 1530063	47727 2020225	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
trans-1,3-Dichloropropene	CBNZ d5	Ave	86409	214741	5800 437551	9188 665032	21432 891201	20.0	50.0	1.00 100	2.00 150	5.00 200
Ethyl methacrylate	CBNZ d5	Lin2	61111	144793	4717 292943	6724 436487	15482 585681	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,2-Trichloroethane	CBNZ d5	Ave	46098	112325	3464 234406	5080 353136	11856 475288	20.0	50.0	1.00 100	2.00 150	5.00 200
Tetrachloroethene	CBNZ d5	Ave	98599	250004	5964 489260	10551 755618	23569 987214	20.0	50.0	1.00 100	2.00 150	5.00 200
1,3-Dichloropropane	CBNZ d5	Ave	82025	200846	5256 406391	9229 617105	20609 810185	20.0	50.0	1.00 100	2.00 150	5.00 200
2-Hexanone	CBNZ d5	Ave	31482	79377	+++++ 149581	+++++ 222613	8059 302771	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Dibromochloromethane	CBNZ d5	Ave	56685	151435	3714 315790	6162 486428	13753 655275	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2-Dibromoethane	CBNZ d5	Ave	47581	118442	3079 240318	5705 362820	11878 486421	20.0	50.0	1.00 100	2.00 150	5.00 200
Chlorobenzene	CBNZ d5	Ave	231158	587653	17142 1155483	25942 1783602	58091 2316648	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	82427	208912	5734 430534	8504 665912	19110 873975	20.0	50.0	1.00 100	2.00 150	5.00 200
Ethylbenzene	CBNZ d5	Ave	2000 133251	3289 334739	9624 654389	14208 1002770	31705 1304396	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
m&p-Xylene	CBNZ d5	Ave	4449 318336	7873 799570	23517 1570381	34445 2365982	78305 3093823	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
o-Xylene	CBNZ d5	Ave	4397 326547	8493 832050	23940 1633419	35294 2463745	81986 3208794	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
Styrene	CBNZ d5	Ave	253871	633051	18178 1255558	28555 1898183	60534 2478330	20.0	50.0	1.00 100	2.00 150	5.00 200
Bromoform	CBNZ d5	Ave	31783	84269	2081 185997	3313 279997	7231 388152	20.0	50.0	1.00 100	2.00 150	5.00 200
Isopropylbenzene	DCBd 4	Ave	445645	1119416	31832 2208656	49255 3320949	109768 4287635	20.0	50.0	1.00 100	2.00 150	5.00 200
Bromobenzene	DCBd 4	Ave	105458	259390	7502 515768	11787 777571	26468 1013502	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,2,2-Tetrachloroethane	DCBd 4	Lin2	53394	128840	4057 265906	6431 388572	13507 519097	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2,3-Trichloropropane	DCBd 4	Ave	58789	145921	3214 293535	6858 443741	13934 597569	20.0	50.0	1.00 100	2.00 150	5.00 200
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	19904	51269	1345 103376	2239 155723	4927 204185	20.0	50.0	1.00 100	2.00 150	5.00 200
N-Propylbenzene	DCBd 4	Ave	533504	1310644	39633 2566380	58286 3801360	131329 4885915	20.0	50.0	1.00 100	2.00 150	5.00 200
2-Chlorotoluene	DCBd 4	Lin2	301823	742252	23376 1461715	34117 2200917	73626 2854571	20.0	50.0	1.00 100	2.00 150	5.00 200
1,3,5-Trimethylbenzene	DCBd 4	Ave	383613	951676	27011 1852778	40574 2751022	93893 3527054	20.0	50.0	1.00 100	2.00 150	5.00 200
4-Chlorotoluene	DCBd 4	Ave	350259	855588	25751 1667450	41017 2487588	86734 3225245	20.0	50.0	1.00 100	2.00 150	5.00 200
tert-Butylbenzene	DCBd 4	Ave	357420	889840	25638 1761077	39338 2591771	86392 3359443	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2,4-Trimethylbenzene	DCBd 4	Ave	390056	972016	27228 1908558	42762 2824184	95821 3642256	20.0	50.0	1.00 100	2.00 150	5.00 200
sec-Butylbenzene	DCBd 4	Ave	516926	1292282	36735 2530460	55465 3678597	126798 4697182	20.0	50.0	1.00 100	2.00 150	5.00 200
1,3-Dichlorobenzene	DCBd 4	Ave	216750	528543	15710 1058714	25078 1572809	51997 2039179	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
p-Isopropyltoluene	DCBd 4	Ave	457613	1141738	31258 2243353	47624 3274818	110862 4150107	20.0	50.0	1.00 100	2.00 150	5.00 200
1,4-Dichlorobenzene	DCBd 4	Ave	212318	517781	15736 1030219	22795 1530441	49553 1992490	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dichlorobenzene	DCBd 4	Ave	184844	454217	13380 904238	20472 1330213	44020 1715886	20.0	50.0	1.00 100	2.00 150	5.00 200
n-Butylbenzene	DCBd 4	Ave	394914	994436	27418 1963275	43061 2822903	94755 3553266	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	7872	19714	+++++ 42234	774 60110	2184 81341	20.0	50.0	+++++ 100	2.00 150	5.00 200
1,2,4-Trichlorobenzene	DCBd 4	Ave	126644	318543	8643 645373	14062 921392	29148 1144526	20.0	50.0	1.00 100	2.00 150	5.00 200
Hexachlorobutadiene	DCBd 4	Ave	86502	219148	6235 427080	9729 600596	21008 750421	20.0	50.0	1.00 100	2.00 150	5.00 200
Naphthalene	DCBd 4	Ave	172680	455189	11770 950708	19064 1345710	38936 1699293	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2,3-Trichlorobenzene	DCBd 4	Ave	96998	246565	6720 503726	10984 711241	22057 869993	20.0	50.0	1.00 100	2.00 150	5.00 200
Dibromofluoromethane	FB	Ave	80718	211073	427416	648559	838574	20.0	50.0	100	150	200
1,2-Dichloroethane-d4 (Surr)	FB	Ave	79875	203800	412779	629613	835861	20.0	50.0	100	150	200
Toluene-d8 (Surr)	CBNZ d5	Ave	297039	772381	1550106	2347763	3075705	20.0	50.0	100	150	200
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	126981	307658	614724	924613	1193401	20.0	50.0	100	150	200

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Dichlorodifluoromethane	13.2	10.4	-7.8 8.7	-9.1 12.3	-13.1	-14.5	30	30	50 30	30 30	30	30
Chloromethane	-1.8	-1.2	21.1 -2.6	4.6 2.7	-10.8	-12.0	30	30	50 30	30 30	30	30
Vinyl chloride	6.3 3.9	-12.4 3.7	-1.7 3.2	6.5 6.5	-9.4	-6.5	50 30	30 30	30 30	30 30	30	30
Butadiene	-0.8	0.2	21.4 0.2	-3.8 4.2	-10.3	-11.1	30	30	50 30	30 30	30	30
Bromomethane	-2.2	-0.2	-1.5 -0.3	5.3 8.7	-4.3	-5.5	30	30	50 30	30 30	30	30
Chloroethane	-7.6	-4.8	20.2 -4.5	-1.5 4.0	-1.5	-4.3	30	30	50 30	30 30	30	30
Dichlorofluoromethane	-4.2	-4.9	19.2 -6.8	4.6 -2.7	0.0	-5.3	30	30	50 30	30 30	30	30
Trichlorofluoromethane	-2.1	-4.4	15.8 -4.8	12.6 -1.7	-7.7	-7.7	30	30	50 30	30 30	30	30
Ethyl ether	-0.4	4.3	-4.5 3.0	1.7 3.9	-5.1	-3.0	30	30	50 30	30 30	30	30
Acrolein	2.2	3.3	1.9 3.4	-5.2 6.1	-9.5	-2.2	30	30	50 30	30 30	30	30
1,1-Dichloroethene	-0.9	-0.7	-3.0 1.1	6.9 0.7	-1.7	-2.4	30	30	50 30	30 30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	-0.3	4.4 -0.8	3.2 0.5	-7.0	-1.8	30	30	50 30	30 30	30	30
Acetone	-6.4	-2.8	+++++ -3.4	+++++ -0.1	20.8	-8.1	30	30	30	30	50	30
Iodomethane	-0.2	1.2	-0.6 1.5	8.1 1.2	-7.9	-3.3	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Carbon disulfide	0.6	2.9	6.3 2.1	1.0 2.2	-9.1	-6.0	30	30	50 30	30 30	30	30
3-Chloropropene	1.9	-2.1	5.1 -0.7	5.3 -4.7	-3.1	-1.7	30	30	50 30	30 30	30	30
Methyl acetate	-4.5	2.3	5.7 0.4	7.2 2.9	-9.1	-4.9	30	30	50 30	30 30	30	30
Methylene Chloride	0.6	-0.1	+++++ 0.0	+++++ -0.9	0.8	-0.5	30	30	30	30	50	30
tert-Butyl alcohol	-3.9	3.2	+++++ 0.4	6.4 0.4	-10.8	4.3	30	30	30	50 30	30	30
Acrylonitrile	-4.0	-0.1	14.5 -0.6	7.7 1.9	-12.8	-6.6	30	30	50 30	30 30	30	30
trans-1,2-Dichloroethene	-0.8	-2.3	7.7 -3.1	9.5 -3.4	-5.1	-2.5	30	30	50 30	30 30	30	30
Methyl tert-butyl ether	-3.1	-0.8	19.2 -1.9	1.4 -0.6	-10.6	-3.7	30	30	50 30	30 30	30	30
Hexane	-0.9	-0.5	9.2 1.1	5.3 1.2	-9.3	-6.0	30	30	50 30	30 30	30	30
1,1-Dichloroethane	-2.1	0.1	3.7 1.3	6.1 1.1	-7.9	-2.2	30	30	50 30	30 30	30	30
Vinyl acetate	-6.3	-2.3	8.3 3.9	7.7 6.7	-11.3	-6.6	30	30	50 30	30 30	30	30
2,2-Dichloropropane	-0.8	-3.7	9.3 -6.5	11.7 -8.6	-0.5	-0.8	30	30	50 30	30 30	30	30
cis-1,2-Dichloroethene	-1.4	-0.7	9.6 -0.8	2.4 -0.9	-6.8	-1.4	30	30	50 30	30 30	30	30
Methyl Ethyl Ketone	1.4	-2.6	+++++ -1.3	+++++ 1.9	0.8	-0.2	30	30	30	30	50	30
Bromochloromethane	-3.7	1.7	4.8 0.2	3.8 1.2	-5.0	-2.8	30	30	50 30	30 30	30	30
Tetrahydrofuran	-3.0	1.9	+++++ 2.9	5.5 5.8	-14.1	1.0	30	30	30	50 30	30	30
Chloroform	-4.3	-2.9	17.7 -1.1	4.7 -1.3	-8.5	-4.3	30	30	50 30	30 30	30	30
1,1,1-Trichloroethane	-1.0	-0.1	11.7 -1.6	3.7 -0.9	-7.6	-4.1	30	30	50 30	30 30	30	30
Cyclohexane	-0.4	-0.4	5.4 0.1	1.4 1.5	-4.0	-3.6	30	30	50 30	30 30	30	30
1,1-Dichloropropene	-0.9	-1.4	4.5 0.0	5.7 -1.0	-4.8	-2.1	30	30	50 30	30 30	30	30
Carbon tetrachloride	1.1	2.6	4.8 3.1	-1.8 3.0	-8.0	-4.7	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Isobutyl alcohol	-3.2	4.1	+++++ 0.6	9.1 2.8	-11.0	-2.3	30	30	30	50 30	30	30
Benzene	1.2 -2.9	1.8 -1.1	7.1 0.1	5.4 -1.4	-6.7	-3.5	50 30	30 30	30 30	30 30	30	30
1,2-Dichloroethane	-2.4	1.4	5.9 1.7	4.2 2.8	-10.9	-2.7	30	30	50 30	30 30	30	30
Heptane	-2.2	-2.1	9.8 1.5	5.2 0.5	-5.8	-6.7	30	30	50 30	30 30	30	30
Trichloroethene	3.5 -2.8	7.8 -1.4	8.2 0.0	-1.7 -0.4	-9.9	-3.2	50 30	30 30	30 30	30 30	30	30
Methylcyclohexane	-0.5	-1.8	6.6 -1.9	5.7 -2.6	-4.0	-1.4	30	30	50 30	30 30	30	30
1,2-Dichloropropane	-3.6	-1.8	15.7 1.1	1.8 0.5	-8.4	-5.3	30	30	50 30	30 30	30	30
Dibromomethane	-2.8	-0.6	11.9 0.6	6.9 0.5	-12.1	-4.6	30	30	50 30	30 30	30	30
1,4-Dioxane	-4.4	0.3	+++++ -0.1	+++++ -13.2	6.2	11.3	30	30	30	30	50	30
Bromodichloromethane	-3.1	0.5	16.7 4.8	-7.0 4.9	-10.0	-6.8	30	30	50 30	30 30	30	30
2-Chloroethyl vinyl ether	-6.7	-2.4	17.9 -0.4	4.9 1.4	-11.0	-3.8	30	30	50 30	30 30	30	30
cis-1,3-Dichloropropene	-2.0	1.9	8.6 4.4	-1.9 3.4	-11.8	-2.6	30	30	50 30	30 30	30	30
methyl isobutyl ketone	-1.1	-0.1	+++++ 0.1	+++++ 2.1	-1.2	0.1	30	30	30	30	50	30
Toluene	9.2 -5.8	-7.3 -1.5	20.6 -0.3	1.1 -1.8	-10.0	-4.2	50 30	30 30	30 30	30 30	30	30
trans-1,3-Dichloropropene	-6.0	-1.8	21.0 -0.9	0.5 -1.0	-7.6	-4.3	30	30	50 30	30 30	30	30
Ethyl methacrylate	-1.5	2.7	5.3 1.7	-9.0 1.9	-5.0	3.8	30	30	50 30	30 30	30	30
1,1,2-Trichloroethane	-10.1	-3.7	32.2 -3.7	1.7 -3.4	-6.4	-6.6	30	30	50 30	30 30	30	30
Tetrachloroethene	-1.9	-1.5	11.5 0.9	3.5 -1.6	-8.8	-2.1	30	30	50 30	30 30	30	30
1,3-Dichloropropane	-6.4	-2.9	16.7 -2.1	7.5 -4.1	-5.4	-3.3	30	30	50 30	30 30	30	30
2-Hexanone	1.8	-1.6	+++++ -2.8	+++++ -1.4	1.9	2.2	30	30	30	30	50	30
Dibromochloromethane	-3.5	3.2	12.8 5.5	-1.8 6.0	-13.6	-8.6	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
1,2-Dibromoethane	-6.7	-2.9	15.6 -2.7	12.4 -2.7	-7.8	-5.1	30	30	50 30	30 30	30	30
Chlorobenzene	-6.0	-5.1	30.7 -2.8	3.8 -5.9	-8.4	-6.4	30	30	50 30	30 30	30	30
1,1,1,2-Tetrachloroethane	-5.1	0.3	24.1 3.0	-3.4 0.8	-14.4	-5.2	30	30	50 30	30 30	30	30
Ethylbenzene	10.8 -5.0	-7.8 -4.7	30.2 * -3.1	0.9 -5.9	-11.3	-4.2	50 30	30 30	30 30	30 30	30	30
m&p-Xylene	3.4 -4.8	-7.4 -4.1	33.4 * -4.1	2.5 -6.5	-8.1	-4.1	50 30	30 30	30 30	30 30	30	30
o-Xylene	-1.1 -4.1	-3.3 -3.5	31.5 * -3.4	1.7 -6.1	-6.9	-4.8	50 30	30 30	30 30	30 30	30	30
Styrene	-5.7	-4.1	29.0 -3.8	6.3 -6.3	-11.2	-4.3	30	30	50 30	30 30	30	30
Bromoform	-4.7	7.9	12.2 7.8	-6.3 11.5	-19.4	-9.0	30	30	50 30	30 30	30	30
Isopropylbenzene	-7.8	-4.7	28.6 -1.2	3.5 -4.9	-7.3	-6.3	30	30	50 30	30 30	30	30
Bromobenzene	-9.5	-5.7	28.4 -2.0	4.9 -4.8	-5.3	-6.1	30	30	50 30	30 30	30	30
1,1,2,2-Tetrachloroethane	-5.0	3.3	1.8 4.2	-1.0 3.8	-6.2	-0.9	30	30	50 30	30 30	30	30
1,2,3-Trichloropropane	-6.3	-1.3	1.2 2.9	12.3 3.3	-8.3	-3.7	30	30	50 30	30 30	30	30
trans-1,4-Dichloro-2-butene	-7.0	-1.8	19.7 2.1	3.6 -0.3	-8.4	-7.9	30	30	50 30	30 30	30	30
N-Propylbenzene	-8.7	-6.3	35.4 -4.3	3.6 -8.3	-6.2	-5.2	30	30	50 30	30 30	30	30
2-Chlorotoluene	-1.5	2.2	5.4 6.3	-7.5 2.8	-8.5	0.8	30	30	50 30	30 30	30	30
1,3,5-Trimethylbenzene	-6.8	-4.9	29.8 -2.6	1.4 -7.0	-5.7	-4.1	30	30	50 30	30 30	30	30
4-Chlorotoluene	-9.8	-7.9	33.2 -5.3	10.3 -8.4	-6.2	-5.8	30	30	50 30	30 30	30	30
tert-Butylbenzene	-7.7	-4.3	30.4 -2.9	4.1 -6.1	-8.1	-5.4	30	30	50 30	30 30	30	30
1,2,4-Trimethylbenzene	-7.2	-4.5	27.5 -2.6	4.2 -6.3	-6.2	-5.0	30	30	50 30	30 30	30	30
sec-Butylbenzene	-6.4	-4.0	30.5 -3.8	2.4 -8.4	-5.9	-4.5	30	30	50 30	30 30	30	30
1,3-Dichlorobenzene	-10.0	-5.5	31.2 -3.2	8.9 -6.5	-9.2	-5.8	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
p-Isopropyltoluene	-5.6	-2.8	26.8 -2.1	0.5 -7.5	-6.0	-3.4	30	30	50 30	30 30	30	30
1,4-Dichlorobenzene	-9.0	-5.1	35.7 -2.8	2.2 -5.7	-10.7	-4.8	30	30	50 30	30 30	30	30
1,2-Dichlorobenzene	-8.5	-4.6	32.2 -3.2	5.2 -6.9	-9.1	-5.0	30	30	50 30	30 30	30	30
n-Butylbenzene	-5.6	-2.3	27.7 -3.1	4.3 -9.1	-7.7	-4.3	30	30	50 30	30 30	30	30
1,2-Dibromo-3-Chloropropane	-6.6	4.9	+++++ 2.9	-6.4 3.8	6.1	-4.8	30	30	30	50 30	30	30
1,2,4-Trichlorobenzene	-5.7	0.1	25.5 -1.4	6.2 -8.8	-11.5	-4.4	30	30	50 30	30 30	30	30
Hexachlorobutadiene	-5.3	-3.3	32.1 -6.3	7.2 -12.7	-7.0	-4.7	30	30	50 30	30 30	30	30
Naphthalene	-4.2	4.9	21.5 2.3	2.4 -3.7	-16.0	-7.3	30	30	50 30	30 30	30	30
1,2,3-Trichlorobenzene	-5.4	1.3	26.5 -1.4	7.5 -10.1	-13.2	-5.1	30	30	50 30	30 30	30	30
Dibromofluoromethane	-0.5	1.3	3.0	0.5		-4.3	30	30	30	30		50
1,2-Dichloroethane-d4 (Surr)	-1.7	0.1	2.3	2.5		-3.1	30	30	30	30		50
Toluene-d8 (Surr)	-1.0	1.9	2.5	0.1		-3.6	30	30	30	30		50
4-Bromofluorobenzene (Surr)	-4.4	0.1	3.8	-0.1		0.7	30	30	30	30		50

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705A.d
Lims ID: STD01
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Jul-2017 13:26:30 ALS Bottle#: 3 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD01
Misc. Info.: 500-0046351-002
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:03:51 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:03:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Vinyl chloride	62	1.891	1.891	0.000	25	2527	0.2500	0.2658	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175728	1000.0	1000.0	
49 Benzene	78	5.855	5.861	-0.006	58	4322	0.2500	0.2530	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	784359	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	25	1273	0.2500	0.2587	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18293	1000.0	1000.0	
71 Toluene	92	7.878	7.872	0.006	46	2923	0.2500	0.2730	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	583516	50.0	50.0	
85 Ethylbenzene	106	9.590	9.584	0.006	46	2000	0.2500	0.2771	
86 m-Xylene & p-Xylene	91	9.745	9.739	0.006	54	4449	0.2500	0.2584	
87 o-Xylene	91	10.296	10.296	0.000	45	4397	0.2500	0.2472	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	95	326102	50.0	50.0	
S 123 Xylenes, Total	100				0			0.5056	

Reagents:

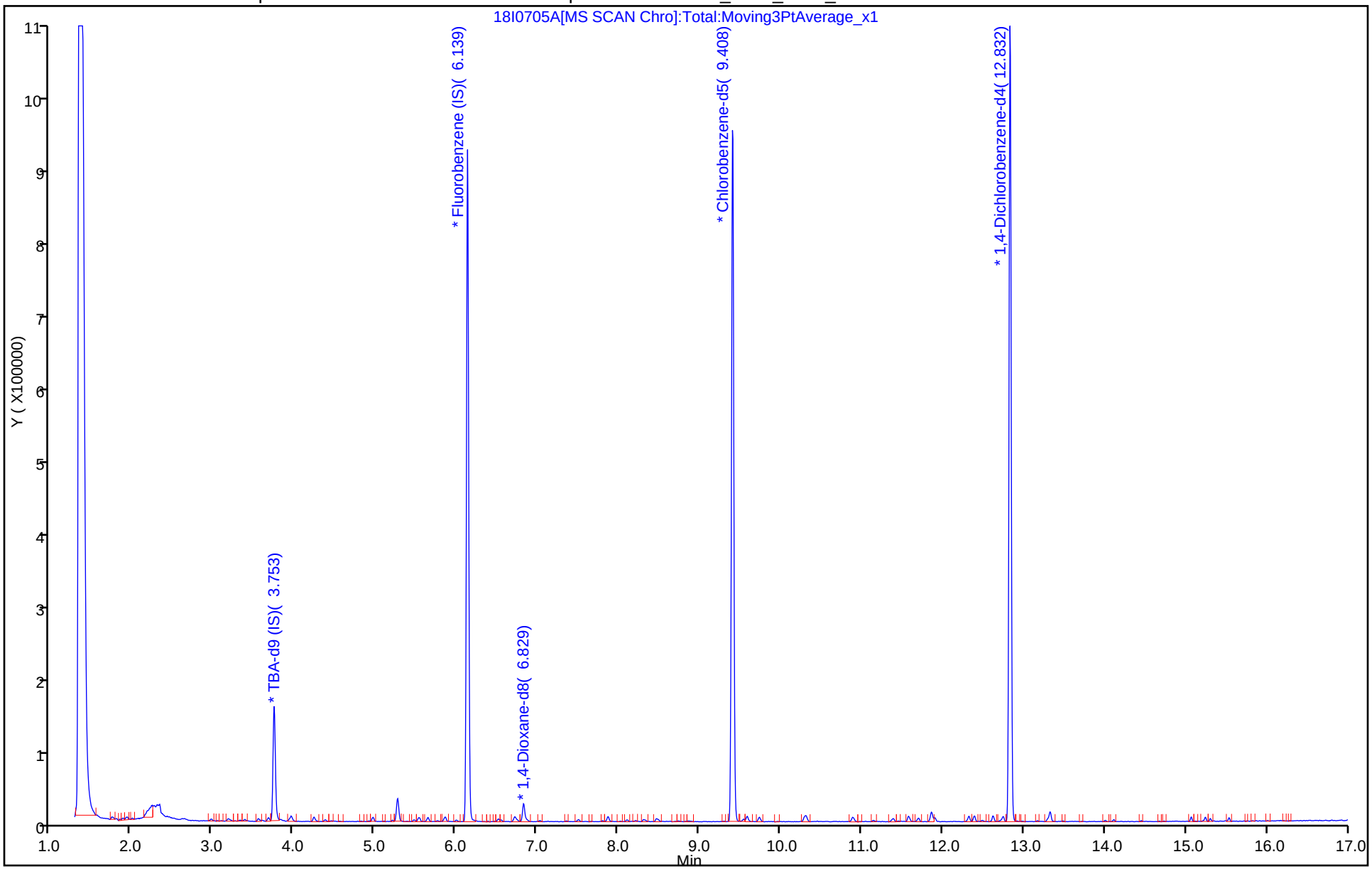
LEVEL1 8260_00001 Amount Added: 2.50 Units: uL
8260 LOWIS1_00108 Amount Added: 5.00 Units: uL

Report Date: 05-Jul-2017 18:03:52 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705A.d

Injection Date:	05-Jul-2017 13:26:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD01			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705B.d
Lims ID: STD02
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Jul-2017 13:52:30 ALS Bottle#: 4 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD02
Misc. Info.: 500-0046351-003
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:21 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Vinyl chloride	62	1.886	1.891	-0.005	41	3516	0.5000	0.4379	
* 22 TBA-d9 (IS)	65	3.732	3.753	-0.021	0	182037	1000.0	1000.0	
49 Benzene	78	5.861	5.861	0.000	89	8707	0.5000	0.5092	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	785119	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	66	2654	0.5000	0.5388	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17950	1000.0	1000.0	
71 Toluene	92	7.872	7.872	0.000	55	4902	0.5000	0.4633	
* 81 Chlorobenzene-d5	117	9.408	9.413	-0.005	88	576557	50.0	50.0	
85 Ethylbenzene	106	9.584	9.584	0.000	82	3289	0.5000	0.4612	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	75	7873	0.5000	0.4628	
87 o-Xylene	91	10.296	10.296	0.000	81	8493	0.5000	0.4833	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	95	316967	50.0	50.0	
S 123 Xylenes, Total	100				0			0.9461	

Reagents:

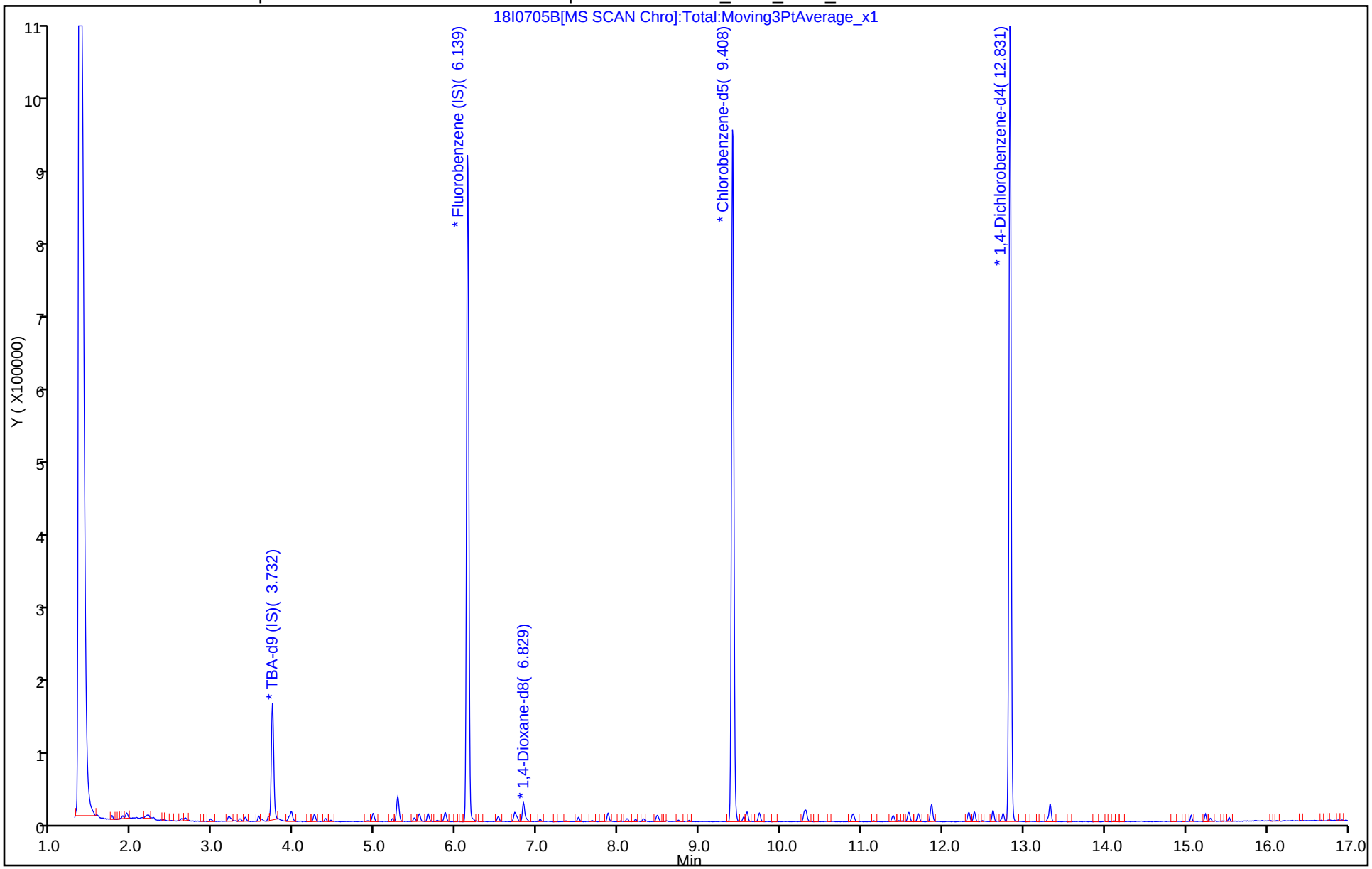
LEVEL1 8260_00001 Amount Added: 5.00 Units: uL
8260 LOWIS1_00108 Amount Added: 5.00 Units: uL

Report Date: 05-Jul-2017 18:04:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705B.d

Injection Date:	05-Jul-2017 13:52:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD02			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705C.d
Lims ID: STD03
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Jul-2017 14:16:30 ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD03
Misc. Info.: 500-0046351-004
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:27 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	52	4494	1.00	0.9217	
2 Chloromethane	50	1.752	1.752	0.000	85	8429	1.00	1.21	
3 Vinyl chloride	62	1.891	1.891	0.000	58	6881	1.00	0.9833	
4 Butadiene	39	1.934	1.940	-0.006	89	8254	1.00	1.21	
5 Bromomethane	94	2.245	2.250	-0.005	74	3065	1.00	0.9847	
6 Chloroethane	64	2.362	2.362	0.000	49	3574	1.00	1.20	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	72	9870	1.00	1.19	
8 Trichlorofluoromethane	101	2.651	2.646	0.005	69	8810	1.00	1.16	
10 Ethyl ether	59	2.977	2.972	0.005	71	3171	1.00	0.9552	
11 Acrolein	56	3.100	3.095	0.005	89	12902	40.0	40.8	
12 1,1-Dichloroethene	96	3.191	3.181	0.010	79	4546	1.00	0.9705	
13 1,1,2-Trichloro-1,2,2-trif	101	3.213	3.218	-0.005	53	5148	1.00	1.04	
15 Iodomethane	142	3.331	3.330	0.000	93	8590	1.00	0.99	
16 Carbon disulfide	76	3.395	3.389	0.006	98	16222	1.00	1.06	
19 3-Chloro-1-propene	76	3.566	3.560	0.006	84	2927	1.00	1.05	
20 Methyl acetate	43	3.598	3.593	0.005	88	10371	5.00	5.28	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	167169	1000.0	1000.0	
24 Acrylonitrile	53	3.940	3.935	0.005	92	11780	10.0	11.4	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	5450	1.00	1.08	
26 Methyl tert-butyl ether	73	3.978	3.972	0.006	83	10497	1.00	1.19	
27 Hexane	57	4.245	4.245	0.000	89	10001	1.00	1.09	
28 1,1-Dichloroethane	63	4.390	4.384	0.006	58	9972	1.00	1.04	
29 Vinyl acetate	43	4.454	4.449	0.005	86	6442	1.00	1.08	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	46	6142	1.00	1.09	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	85	5779	1.00	1.10	
39 Chlorobromomethane	128	5.219	5.214	0.005	73	2256	1.00	1.05	
41 Chloroform	83	5.299	5.294	0.005	86	9297	1.00	1.18	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	78	7980	1.00	1.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Cyclohexane	56	5.540	5.545	-0.005	84	12072	1.00	1.05	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	70	6454	1.00	1.05	
46 Carbon tetrachloride	117	5.652	5.652	0.000	56	6656	1.00	1.05	
49 Benzene	78	5.861	5.861	0.000	90	18957	1.00	1.07	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	36	5710	1.00	1.06	
53 n-Heptane	43	6.134	6.134	0.000	37	9948	1.00	1.10	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	813104	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	69	5518	1.00	1.08	
58 Methylcyclohexane	83	6.722	6.722	0.000	90	10188	1.00	1.07	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	67	5425	1.00	1.16	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17166	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	61	2127	1.00	1.12	
65 Dichlorobromomethane	83	7.033	7.032	0.000	82	5522	1.00	1.17	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	47	1900	1.00	1.18	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	54	6440	1.00	1.09	
71 Toluene	92	7.872	7.872	0.000	86	13227	1.00	1.21	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	78	5800	1.00	1.21	
73 Ethyl methacrylate	69	8.209	8.209	0.000	62	4717	1.00	1.05	
74 1,1,2-Trichloroethane	97	8.311	8.306	0.005	58	3464	1.00	1.32	
75 Tetrachloroethene	166	8.472	8.472	0.000	78	5964	1.00	1.12	
76 1,3-Dichloropropane	76	8.498	8.493	0.005	79	5256	1.00	1.17	
79 Chlorodibromomethane	129	8.744	8.744	0.000	37	3714	1.00	1.13	
80 Ethylene Dibromide	107	8.873	8.873	0.000	53	3079	1.00	1.16	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	597515	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	48	17142	1.00	1.31	
84 1,1,1,2-Tetrachloroethane	131	9.552	9.547	0.005	64	5734	1.00	1.24	
85 Ethylbenzene	106	9.590	9.584	0.006	94	9624	1.00	1.30	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	91	23517	1.00	1.33	
87 o-Xylene	91	10.296	10.296	0.000	87	23940	1.00	1.31	
88 Styrene	104	10.317	10.317	0.000	85	18178	1.00	1.29	
89 Bromoform	173	10.590	10.590	0.000	44	2081	1.00	1.12	
90 Isopropylbenzene	105	10.895	10.895	0.000	89	31832	1.00	1.29	
94 Bromobenzene	156	11.387	11.387	0.000	87	7502	1.00	1.28	
95 1,1,2,2-Tetrachloroethane	83	11.393	11.392	0.001	29	4057	1.00	1.02	
96 1,2,3-Trichloropropane	75	11.457	11.462	-0.005	14	3214	1.00	1.01	
97 trans-1,4-Dichloro-2-buten	53	11.500	11.494	0.006	1	1345	1.00	1.20	
98 N-Propylbenzene	91	11.585	11.585	0.000	93	39633	1.00	1.35	
99 2-Chlorotoluene	91	11.703	11.697	0.006	82	23376	1.00	1.05	
101 4-Chlorotoluene	91	11.869	11.863	0.006	86	25751	1.00	1.33	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	87	27011	1.00	1.30	
103 tert-Butylbenzene	119	12.323	12.323	0.000	80	25638	1.00	1.30	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	61	27228	1.00	1.28	
106 sec-Butylbenzene	105	12.623	12.623	0.000	83	36735	1.00	1.30	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	86	15710	1.00	1.31	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	51	31258	1.00	1.27	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	96	332474	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	32	15736	1.00	1.36	
113 1,2-Dichlorobenzene	146	13.318	13.324	-0.006	85	13380	1.00	1.32	
114 n-Butylbenzene	91	13.329	13.329	0.000	91	27418	1.00	1.28	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	81	8643	1.00	1.26	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	76	6235	1.00	1.32	
119 Naphthalene	128	15.303	15.303	0.000	85	11770	1.00	1.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	75	6720	1.00	1.26	
S 123 Xylenes, Total	100				0			2.65	
S 124 Trihalomethanes, Total	1				0			4.59	
S 125 1,3-Dichloropropene, Total	1				0			2.30	
S 126 Trimethylbenzene, Total	1				0			2.57	
S 127 1,2-Dichloroethene, Total	96				0			2.17	

Reagents:

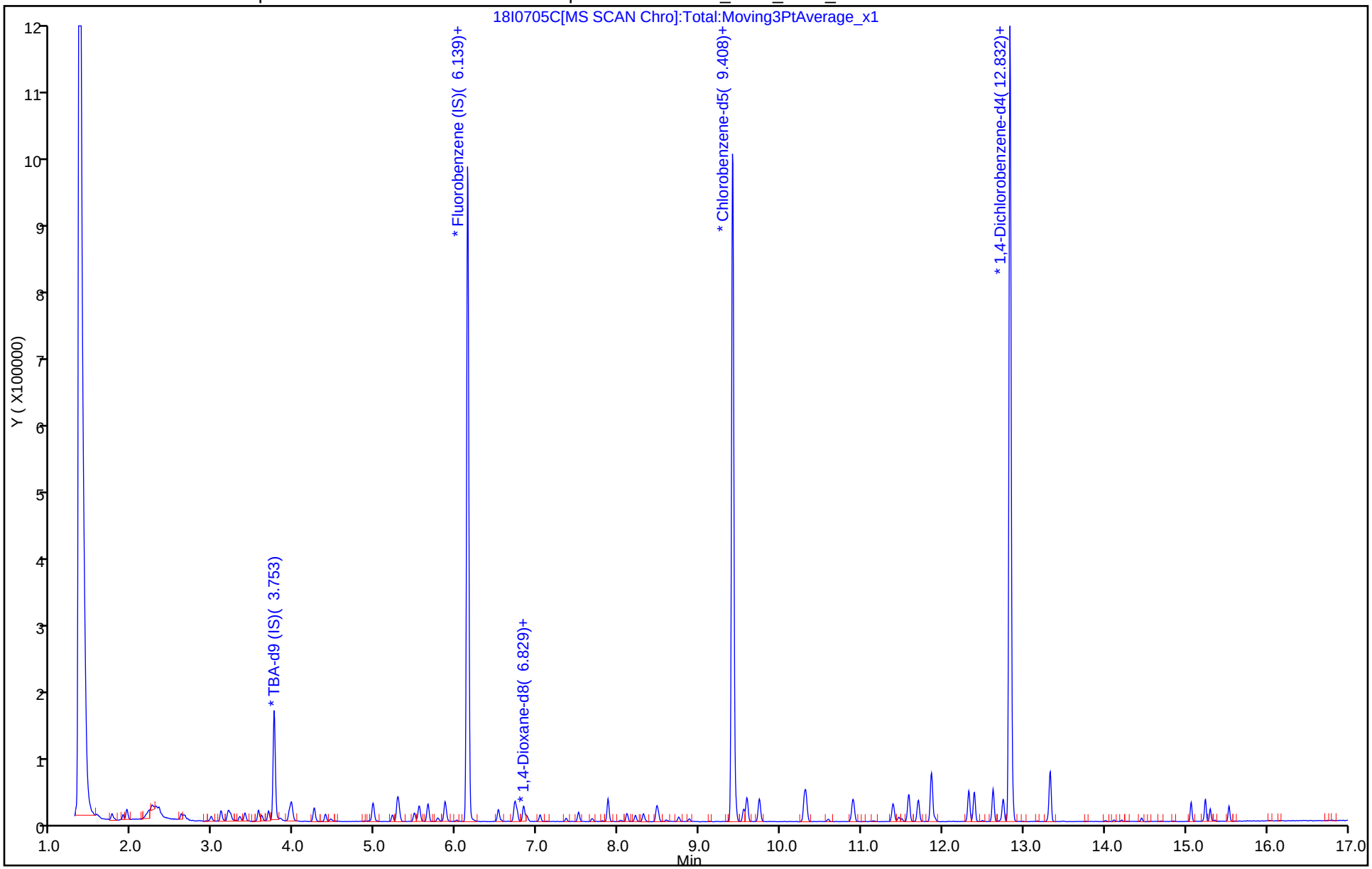
LOW8260ACR_00173	Amount Added:	1.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LO8260/624STD_00259	Amount Added:	1.00	Units: uL

Report Date: 05-Jul-2017 18:04:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705C.d

Injection Date:	05-Jul-2017 14:16:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD03			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705D.d
Lims ID: STD04
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-Jul-2017 14:41:30 ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD04
Misc. Info.: 500-0046351-005
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:35 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	70	8617	2.00	1.82	
2 Chloromethane	50	1.752	1.752	0.000	87	14166	2.00	2.09	
3 Vinyl chloride	62	1.886	1.891	-0.005	74	13310	2.00	2.13	
4 Butadiene	39	1.934	1.940	-0.006	83	12711	2.00	1.92	
5 Bromomethane	94	2.244	2.250	-0.006	78	5130	2.00	2.11	
6 Chloroethane	64	2.357	2.362	-0.005	41	5694	2.00	1.97	
7 Dichlorofluoromethane	67	2.603	2.608	-0.005	75	16853	2.00	2.09	
8 Trichlorofluoromethane	101	2.635	2.646	-0.011	70	16670	2.00	2.25	
10 Ethyl ether	59	2.977	2.972	0.005	85	6568	2.00	2.03	
11 Acrolein	56	3.100	3.095	0.005	80	23332	80.0	75.8	
12 1,1-Dichloroethene	96	3.180	3.181	-0.001	79	9738	2.00	2.14	
13 1,1,2-Trichloro-1,2,2-trif	101	3.207	3.218	-0.011	72	9888	2.00	2.06	
15 Iodomethane	142	3.330	3.330	0.000	94	18163	2.00	2.16	
16 Carbon disulfide	76	3.389	3.389	0.000	98	29977	2.00	2.02	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	84	5703	2.00	2.11	
20 Methyl acetate	43	3.603	3.593	0.010	94	20462	10.0	10.7	
* 22 TBA-d9 (IS)	65	3.758	3.753	0.005	0	192292	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.844	3.839	0.005	66	4975	20.0	21.3	
24 Acrylonitrile	53	3.940	3.935	0.005	97	21559	20.0	21.5	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	87	10772	2.00	2.19	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	79	17374	2.00	2.03	
27 Hexane	57	4.245	4.245	0.000	91	18748	2.00	2.11	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	67	19840	2.00	2.12	
29 Vinyl acetate	43	4.448	4.449	-0.001	96	12460	2.00	2.15	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	81	10495	2.00	2.05	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	66	12209	2.00	2.23	
39 Chlorobromomethane	128	5.213	5.214	-0.001	81	4347	2.00	2.08	
40 Tetrahydrofuran	42	5.267	5.267	0.000	54	4660	4.00	4.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	5.294	5.294	0.000	76	16087	2.00	2.09	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	81	14409	2.00	2.07	
44 Cyclohexane	56	5.545	5.545	0.000	90	22582	2.00	2.03	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	78	12691	2.00	2.11	
46 Carbon tetrachloride	117	5.652	5.652	0.000	79	12134	2.00	1.96	
47 Isobutyl alcohol	43	5.775	5.770	0.005	65	5852	50.0	54.6	
49 Benzene	78	5.861	5.861	0.000	96	36301	2.00	2.11	
50 1,2-Dichloroethane	62	5.877	5.872	0.005	76	10930	2.00	2.08	
53 n-Heptane	43	6.134	6.134	0.000	37	18534	2.00	2.10	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	790635	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	88	9747	2.00	1.97	
58 Methylcyclohexane	83	6.722	6.722	0.000	92	19647	2.00	2.11	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	9284	2.00	2.04	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	22057	1000.0	1000.0	
63 Dibromomethane	93	6.861	6.867	-0.006	72	3949	2.00	2.14	
65 Dichlorobromomethane	83	7.032	7.032	0.000	77	8554	2.00	1.86	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	57	3221	2.00	2.10	
68 cis-1,3-Dichloropropene	75	7.508	7.509	-0.001	66	11080	2.00	1.96	
71 Toluene	92	7.872	7.872	0.000	90	21132	2.00	2.02	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	79	9188	2.00	2.01	
73 Ethyl methacrylate	69	8.209	8.209	0.000	62	6724	2.00	1.82	
74 1,1,2-Trichloroethane	97	8.305	8.306	-0.001	78	5080	2.00	2.03	
75 Tetrachloroethene	166	8.477	8.472	0.005	83	10551	2.00	2.07	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	84	9229	2.00	2.15	
79 Chlorodibromomethane	129	8.744	8.744	0.000	54	6162	2.00	1.96	
80 Ethylene Dibromide	107	8.878	8.873	0.005	62	5705	2.00	2.25	
* 81 Chlorobenzene-d5	117	9.408	9.413	-0.005	87	569332	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	44	25942	2.00	2.08	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	70	8504	2.00	1.93	
85 Ethylbenzene	106	9.584	9.584	0.000	93	14208	2.00	2.02	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	96	34445	2.00	2.05	
87 o-Xylene	91	10.296	10.296	0.000	89	35294	2.00	2.03	
88 Styrene	104	10.317	10.317	0.000	85	28555	2.00	2.13	
89 Bromoform	173	10.595	10.590	0.005	47	3313	2.00	1.87	
90 Isopropylbenzene	105	10.895	10.895	0.000	91	49255	2.00	2.07	
94 Bromobenzene	156	11.387	11.387	0.000	89	11787	2.00	2.10	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	52	6431	2.00	1.98	
96 1,2,3-Trichloropropane	75	11.456	11.462	-0.006	41	6858	2.00	2.25	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	9	2239	2.00	2.07	
98 N-Propylbenzene	91	11.585	11.585	0.000	93	58286	2.00	2.07	
99 2-Chlorotoluene	91	11.703	11.697	0.006	92	34117	2.00	1.85	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	40574	2.00	2.03	
101 4-Chlorotoluene	91	11.868	11.863	0.005	91	41017	2.00	2.21	
103 tert-Butylbenzene	119	12.323	12.323	0.000	85	39338	2.00	2.08	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	51	42762	2.00	2.08	
106 sec-Butylbenzene	105	12.623	12.623	0.000	89	55465	2.00	2.05	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	90	25078	2.00	2.18	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	54	47624	2.00	2.01	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	96	319675	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.863	12.864	-0.001	38	22795	2.00	2.04	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	70	20472	2.00	2.10	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	43061	2.00	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	1	774	2.00	1.87	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	83	14062	2.00	2.12	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	82	9729	2.00	2.14	
119 Naphthalene	128	15.303	15.303	0.000	95	19064	2.00	2.05	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	85	10984	2.00	2.15	
S 123 Xylenes, Total	100				0			4.08	
S 124 Trihalomethanes, Total	1				0			7.79	
S 125 1,3-Dichloropropene, Total	1				0			3.97	
S 126 Trimethylbenzene, Total	1				0			4.11	
S 127 1,2-Dichloroethene, Total	96				0			4.24	

Reagents:

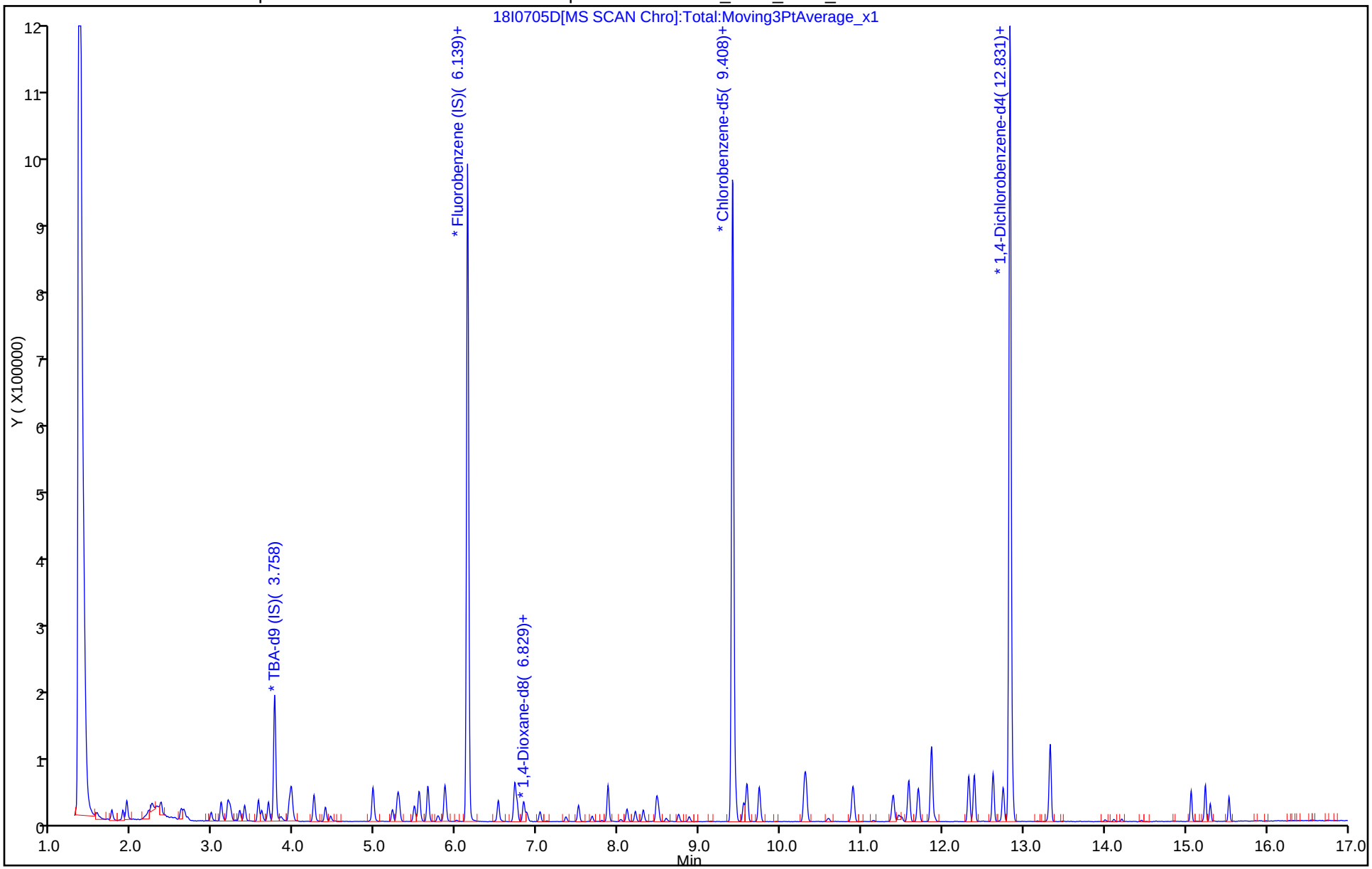
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LOW8260ACR_00173	Amount Added:	2.00	Units: uL
LO8260/624STD_00259	Amount Added:	2.00	Units: uL

Report Date: 05-Jul-2017 18:04:37 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705D.d

Injection Date:	05-Jul-2017 14:41:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD04			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705E.d
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Jul-2017 15:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Misc. Info.: 500-0046351-006
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:41 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	80	20730	5.00	4.34	
2 Chloromethane	50	1.752	1.752	0.000	88	30407	5.00	4.46	
3 Vinyl chloride	62	1.886	1.891	-0.005	81	27348	5.00	4.53	
4 Butadiene	39	1.939	1.940	-0.001	88	29843	5.00	4.49	
5 Bromomethane	94	2.250	2.250	0.000	87	10328	5.00	4.78	
6 Chloroethane	64	2.362	2.362	0.000	79	14338	5.00	4.93	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	97	40525	5.00	5.00	
8 Trichlorofluoromethane	101	2.640	2.646	-0.006	75	34360	5.00	4.61	
10 Ethyl ether	59	2.972	2.972	0.000	89	15420	5.00	4.75	
11 Acrolein	56	3.095	3.095	0.000	90	56091	200.0	181.1	
12 1,1-Dichloroethene	96	3.181	3.181	0.000	85	22528	5.00	4.91	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	81	22445	5.00	4.65	
14 Acetone	43	3.272	3.261	0.011	79	4395	5.00	6.04	
15 Iodomethane	142	3.330	3.330	0.000	97	38958	5.00	4.61	
16 Carbon disulfide	76	3.389	3.389	0.000	98	67873	5.00	4.54	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	91	13211	5.00	4.85	
20 Methyl acetate	43	3.598	3.593	0.005	96	43681	25.0	22.7	
21 Methylene Chloride	84	3.683	3.684	-0.001	92	22221	5.00	5.04	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175392	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	74	9504	50.0	44.6	
24 Acrylonitrile	53	3.935	3.935	0.000	94	43933	50.0	43.6	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	23487	5.00	4.74	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	88	38541	5.00	4.47	
27 Hexane	57	4.245	4.245	0.000	94	40656	5.00	4.54	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	82	43354	5.00	4.61	
29 Vinyl acetate	43	4.448	4.449	-0.001	98	25808	5.00	4.43	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	61	27362	5.00	4.97	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	24059	5.00	4.66	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	5.005	4.994	0.011	67	5274	5.00	5.04	
39 Chlorobromomethane	128	5.213	5.214	-0.001	82	10011	5.00	4.75	
40 Tetrahydrofuran	42	5.267	5.267	0.000	67	7654	10.0	8.59	
41 Chloroform	83	5.294	5.294	0.000	96	35358	5.00	4.57	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	86	32311	5.00	4.62	
44 Cyclohexane	56	5.540	5.545	-0.005	94	53827	5.00	4.80	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	28779	5.00	4.76	
46 Carbon tetrachloride	117	5.652	5.652	0.000	76	28600	5.00	4.60	
47 Isobutyl alcohol	43	5.775	5.770	0.005	83	10878	125.0	111.2	
49 Benzene	78	5.861	5.861	0.000	97	80864	5.00	4.67	
50 1,2-Dichloroethane	62	5.871	5.872	-0.001	62	23507	5.00	4.45	
53 n-Heptane	43	6.134	6.134	0.000	40	41785	5.00	4.71	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	795875	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	85	22491	5.00	4.50	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	44931	5.00	4.80	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	86	21014	5.00	4.58	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17447	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	73	8174	5.00	4.40	
64 1,4-Dioxane	88	6.883	6.888	-0.005	36	2043	100.0	106.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	86	20839	5.00	4.50	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	77	6935	5.00	4.45	
68 cis-1,3-Dichloropropene	75	7.509	7.509	-0.001	73	25285	5.00	4.41	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	78	11794	5.00	4.94	
71 Toluene	92	7.872	7.872	0.000	93	47727	5.00	4.50	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	90	21432	5.00	4.62	
73 Ethyl methacrylate	69	8.209	8.209	0.000	79	15482	5.00	4.75	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	81	11856	5.00	4.68	
75 Tetrachloroethene	166	8.471	8.472	-0.001	88	23569	5.00	4.56	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	93	20609	5.00	4.73	
77 2-Hexanone	43	8.589	8.584	0.005	90	8059	5.00	5.09	
79 Chlorodibromomethane	129	8.744	8.744	0.000	78	13753	5.00	4.32	
80 Ethylene Dibromide	107	8.873	8.873	0.000	92	11878	5.00	4.61	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	85	577772	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	79	58091	5.00	4.58	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	82	19110	5.00	4.28	
85 Ethylbenzene	106	9.590	9.584	0.006	98	31705	5.00	4.44	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	78305	5.00	4.59	
87 o-Xylene	91	10.296	10.296	0.000	92	81986	5.00	4.66	
88 Styrene	104	10.317	10.317	0.000	90	60534	5.00	4.44	
89 Bromoform	173	10.585	10.590	-0.005	74	7231	5.00	4.03	
90 Isopropylbenzene	105	10.895	10.895	0.000	97	109768	5.00	4.64	
94 Bromobenzene	156	11.387	11.387	0.000	91	26468	5.00	4.74	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	60	13507	5.00	4.69	
96 1,2,3-Trichloropropane	75	11.457	11.462	-0.005	45	13934	5.00	4.59	
97 trans-1,4-Dichloro-2-buten	53	11.489	11.494	-0.005	28	4927	5.00	4.58	
98 N-Propylbenzene	91	11.585	11.585	0.000	96	131329	5.00	4.69	
99 2-Chlorotoluene	91	11.703	11.697	0.006	95	73626	5.00	4.58	
101 4-Chlorotoluene	91	11.869	11.863	0.005	91	86734	5.00	4.69	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	90	93893	5.00	4.71	
103 tert-Butylbenzene	119	12.323	12.323	0.000	91	86392	5.00	4.59	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	64	95821	5.00	4.69	
106 sec-Butylbenzene	105	12.623	12.623	0.000	93	126798	5.00	4.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	51997	5.00	4.54	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	68	110862	5.00	4.70	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	96	318096	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	92	49553	5.00	4.47	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	72	44020	5.00	4.55	
114 n-Butylbenzene	91	13.329	13.329	0.000	96	94755	5.00	4.61	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	12	2184	5.00	5.31	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	90	29148	5.00	4.42	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	87	21008	5.00	4.65	
119 Naphthalene	128	15.303	15.303	0.000	98	38936	5.00	4.20	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	93	22057	5.00	4.34	
S 123 Xylenes, Total	100				0			9.25	
S 124 Trihalomethanes, Total	1				0			17.4	
S 125 1,3-Dichloropropene, Total	1				0			9.03	
S 126 Trimethylbenzene, Total	1				0			9.41	
S 127 1,2-Dichloroethene, Total	96				0			9.41	

Reagents:

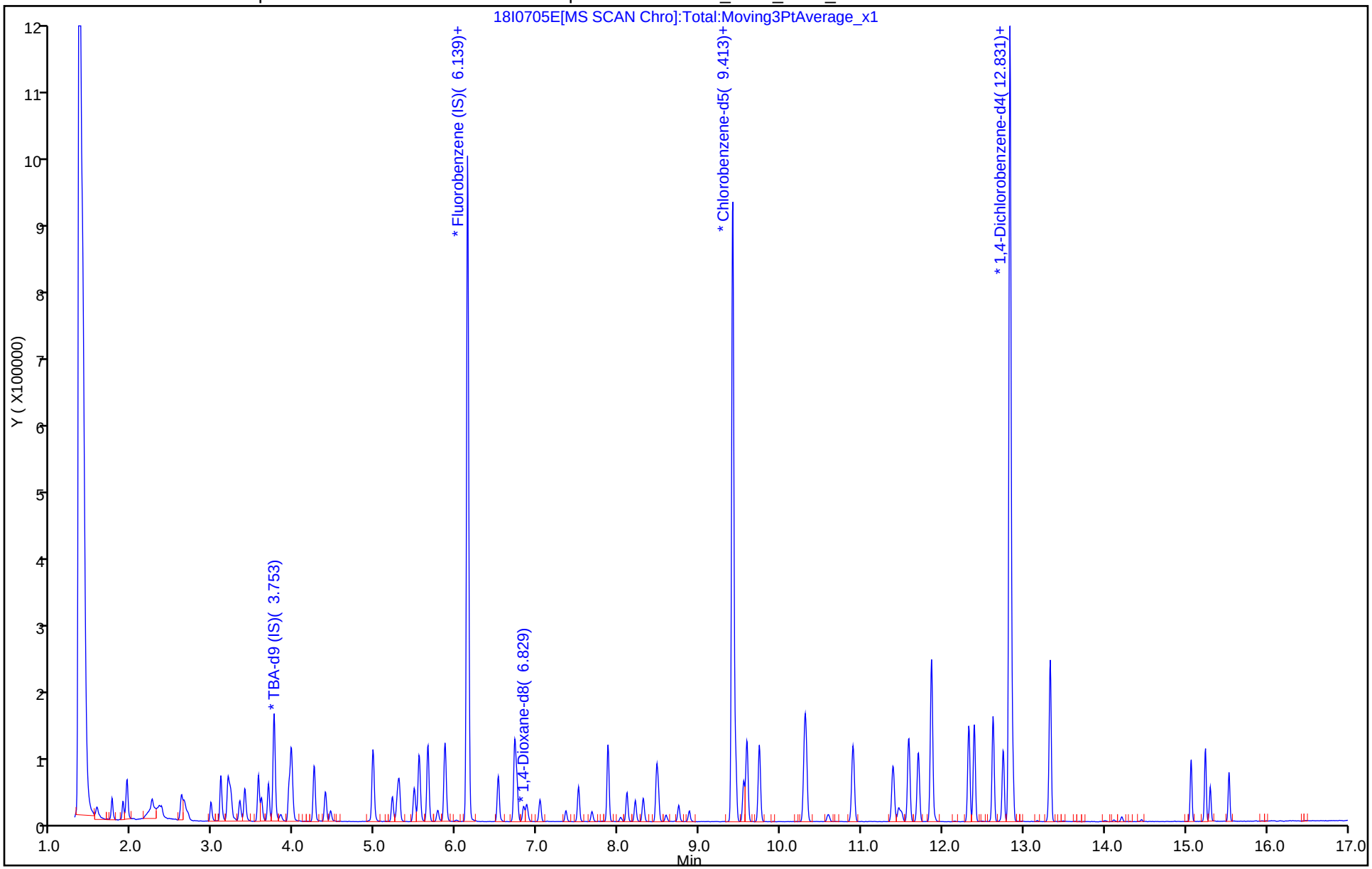
LOW8260ACR_00173	Amount Added:	5.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LO8260/624STD_00259	Amount Added:	5.00	Units: uL

Report Date: 05-Jul-2017 18:04:42 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705E.d

Injection Date:	05-Jul-2017 15:06:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD05			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705F.d
Lims ID: STD06
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Jul-2017 15:31:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD06
Misc. Info.: 500-0046351-007
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:46 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	81700	20.0	17.1	
2 Chloromethane	50	1.758	1.752	0.006	89	120142	20.0	17.6	
3 Vinyl chloride	62	1.891	1.891	0.000	84	109889	20.0	18.7	
4 Butadiene	39	1.940	1.940	0.000	93	118412	20.0	17.8	
5 Bromomethane	94	2.250	2.250	0.000	92	37607	20.0	18.9	
6 Chloroethane	64	2.368	2.362	0.006	91	55755	20.0	19.1	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	82	153756	20.0	18.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	137633	20.0	18.5	
10 Ethyl ether	59	2.972	2.972	0.000	93	63149	20.0	19.4	
11 Acrolein	56	3.095	3.095	0.000	96	242776	800.0	782.6	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	89606	20.0	19.5	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	94835	20.0	19.6	
14 Acetone	43	3.261	3.261	0.000	94	13388	20.0	18.4	
15 Iodomethane	142	3.330	3.330	0.000	98	163760	20.0	19.3	
16 Carbon disulfide	76	3.395	3.389	0.006	99	281113	20.0	18.8	
19 3-Chloro-1-propene	76	3.561	3.560	0.001	91	53644	20.0	19.7	
20 Methyl acetate	43	3.598	3.593	0.005	99	182964	100.0	95.1	
21 Methylene Chloride	84	3.684	3.684	0.000	93	87843	20.0	19.9	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	174054	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	91	44126	200.0	208.6	
24 Acrylonitrile	53	3.935	3.935	0.000	99	188336	200.0	186.7	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	90	96622	20.0	19.5	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	88	166346	20.0	19.3	
27 Hexane	57	4.245	4.245	0.000	94	168669	20.0	18.8	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	184372	20.0	19.6	
29 Vinyl acetate	43	4.449	4.449	0.000	99	108899	20.0	18.7	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	83	101874	20.0	19.7	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	109238	20.0	19.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	55	20908	20.0	20.0	
39 Chlorobromomethane	128	5.214	5.214	0.000	91	41021	20.0	19.4	
40 Tetrahydrofuran	42	5.267	5.267	0.000	87	29255	40.0	40.4	
41 Chloroform	83	5.299	5.294	0.005	83	148141	20.0	19.1	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	67	80718	20.0	19.1	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	88	134251	20.0	19.2	
44 Cyclohexane	56	5.545	5.545	0.000	93	216395	20.0	19.3	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	85	118509	20.0	19.6	
46 Carbon tetrachloride	117	5.652	5.652	0.000	78	118670	20.0	19.1	
47 Isobutyl alcohol	43	5.770	5.770	0.000	95	47449	500.0	488.7	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	79875	20.0	19.4	
49 Benzene	78	5.861	5.861	0.000	96	335016	20.0	19.3	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	56	102909	20.0	19.5	
53 n-Heptane	43	6.134	6.134	0.000	54	165708	20.0	18.7	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	97	796927	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	96750	20.0	19.4	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	184812	20.0	19.7	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	86	87032	20.0	18.9	
* 61 1,4-Dioxane-d8	96	6.835	6.834	0.001	0	17436	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	83	35538	20.0	19.1	
64 1,4-Dioxane	88	6.888	6.888	0.000	52	8563	400.0	445.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	90	86406	20.0	18.6	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	91	29172	20.0	19.2	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	81	108674	20.0	19.5	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	95	46539	20.0	20.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.803	-0.006	94	297039	20.0	19.3	
71 Toluene	92	7.872	7.872	0.000	88	197663	20.0	19.2	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	86409	20.0	19.1	
73 Ethyl methacrylate	69	8.209	8.209	0.000	81	61111	20.0	20.8	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	90	46098	20.0	18.7	
75 Tetrachloroethene	166	8.472	8.472	0.000	90	98599	20.0	19.6	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	82025	20.0	19.3	
77 2-Hexanone	43	8.584	8.584	0.000	95	31482	20.0	20.4	
79 Chlorodibromomethane	129	8.744	8.744	0.000	87	56685	20.0	18.3	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	47581	20.0	19.0	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	562417	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	92	231158	20.0	18.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	86	82427	20.0	19.0	
85 Ethylbenzene	106	9.584	9.584	0.000	99	133251	20.0	19.2	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	318336	20.0	19.2	
87 o-Xylene	91	10.296	10.296	0.000	92	326547	20.0	19.0	
88 Styrene	104	10.317	10.317	0.000	92	253871	20.0	19.1	
89 Bromoform	173	10.590	10.590	0.000	97	31783	20.0	18.2	
90 Isopropylbenzene	105	10.895	10.895	0.000	97	445645	20.0	18.7	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	90	126981	20.0	20.1	
94 Bromobenzene	156	11.387	11.387	0.000	90	105458	20.0	18.8	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	65	53394	20.0	19.8	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	49	58789	20.0	19.3	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	47	19904	20.0	18.4	
98 N-Propylbenzene	91	11.580	11.585	-0.005	98	533504	20.0	19.0	
99 2-Chlorotoluene	91	11.703	11.697	0.006	97	301823	20.0	20.2	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	88	383613	20.0	19.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.863	11.863	0.000	87	350259	20.0	18.8	
103 tert-Butylbenzene	119	12.323	12.323	0.000	93	357420	20.0	18.9	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	390056	20.0	19.0	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	516926	20.0	19.1	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	216750	20.0	18.8	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	93	457613	20.0	19.3	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	96	319614	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	93	212318	20.0	19.0	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	73	184844	20.0	19.0	
114 n-Butylbenzene	91	13.329	13.329	0.000	96	394914	20.0	19.1	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	47	7872	20.0	19.0	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	92	126644	20.0	19.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	86502	20.0	19.1	
119 Naphthalene	128	15.303	15.303	0.000	99	172680	20.0	18.5	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	96998	20.0	19.0	
S 123 Xylenes, Total	100				0			38.2	
S 124 Trihalomethanes, Total	1				0			74.3	
S 125 1,3-Dichloropropene, Total	1				0			38.6	
S 126 Trimethylbenzene, Total	1				0			38.2	
S 127 1,2-Dichloroethene, Total	96				0			39.2	

Reagents:

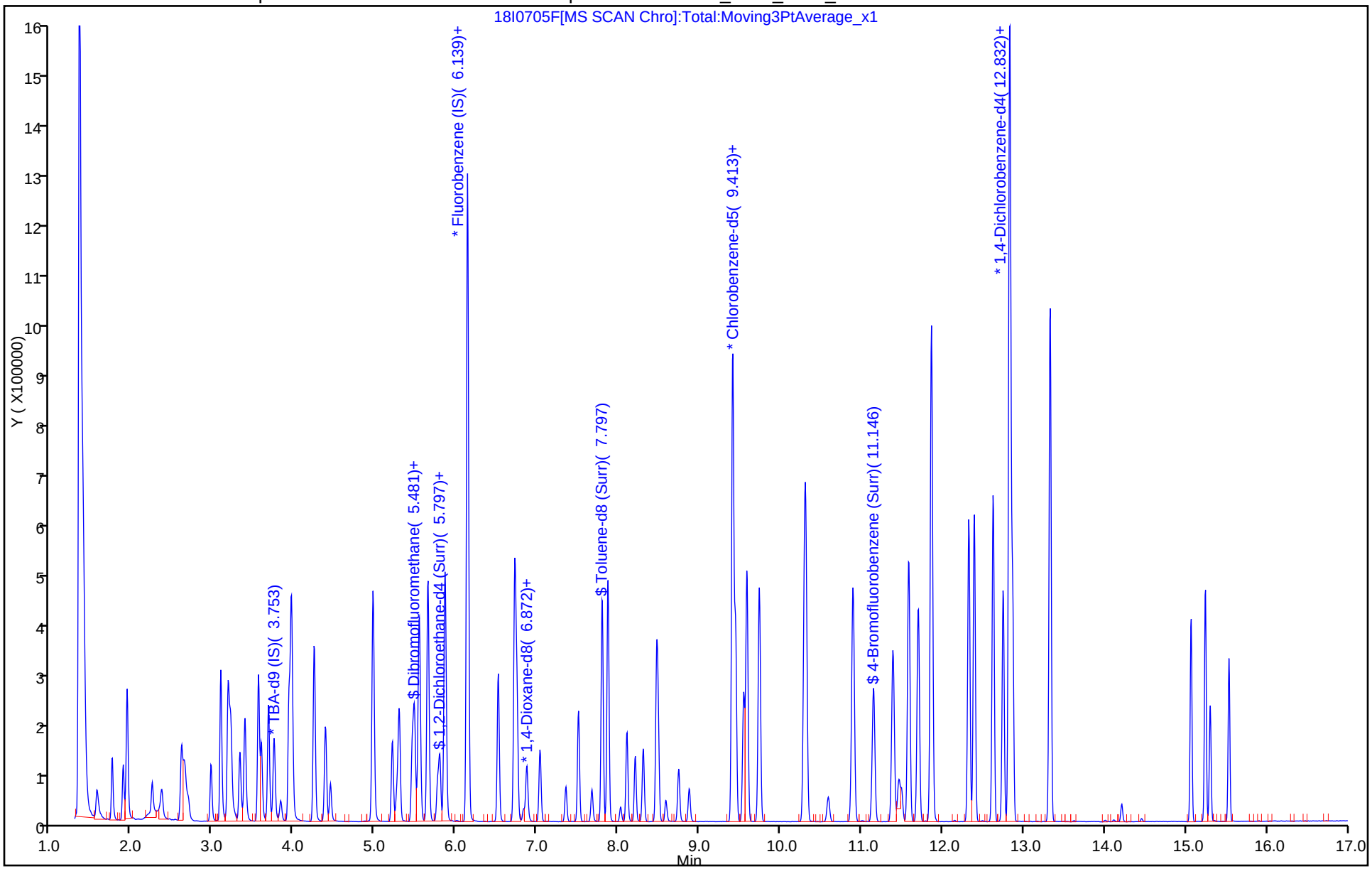
LOW8260ACR_00173	Amount Added: 20.00	Units: uL
8260 LOWSS1_00133	Amount Added: 2.00	Units: uL
8260 LOWIS1_00108	Amount Added: 5.00	Units: uL
LO8260/624STD_00259	Amount Added: 20.00	Units: uL

Report Date: 05-Jul-2017 18:04:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705F.d

Injection Date:	05-Jul-2017 15:31:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD06			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



11/16/2017

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705G.d
Lims ID: STD07
Client ID:
Sample Type: ICIS Calib Level: 7
Inject. Date: 05-Jul-2017 15:56:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD07
Misc. Info.: 500-0046351-008
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:52 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	272116	50.0	56.6	
2 Chloromethane	50	1.752	1.752	0.000	89	336875	50.0	49.1	
3 Vinyl chloride	62	1.891	1.891	0.000	84	305131	50.0	51.9	
4 Butadiene	39	1.940	1.940	0.000	94	332358	50.0	49.6	
5 Bromomethane	94	2.250	2.250	0.000	90	96111	50.0	48.9	
6 Chloroethane	64	2.362	2.362	0.000	92	135433	50.0	46.2	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	83	391107	50.0	47.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	367395	50.0	49.0	
10 Ethyl ether	59	2.972	2.972	0.000	96	162953	50.0	49.8	
11 Acrolein	56	3.095	3.095	0.000	96	637851	2000.0	2044.0	
12 1,1-Dichloroethene	96	3.181	3.181	0.000	86	228803	50.0	49.5	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	83	247497	50.0	50.9	
14 Acetone	43	3.261	3.261	0.000	98	34308	50.0	46.8	
15 Iodomethane	142	3.330	3.330	0.000	97	425176	50.0	49.9	
16 Carbon disulfide	76	3.389	3.389	0.000	99	756356	50.0	50.3	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	139927	50.0	51.0	
20 Methyl acetate	43	3.593	3.593	0.000	97	461931	250.0	238.7	
21 Methylene Chloride	84	3.684	3.684	0.000	93	223357	50.0	50.3	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180389	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.839	3.839	0.000	90	105305	500.0	480.3	
24 Acrylonitrile	53	3.935	3.935	0.000	99	486981	500.0	480.0	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	90	247445	50.0	49.6	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	420529	50.0	48.4	
27 Hexane	57	4.245	4.245	0.000	95	447347	50.0	49.5	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	86	463937	50.0	48.9	
29 Vinyl acetate	43	4.449	4.449	0.000	99	274781	50.0	46.9	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	274726	50.0	49.6	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	256370	50.0	49.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	59	53426	50.0	50.7	
39 Chlorobromomethane	128	5.214	5.214	0.000	90	102218	50.0	48.1	
40 Tetrahydrofuran	42	5.267	5.267	0.000	89	68078	100.0	97.0	
41 Chloroform	83	5.294	5.294	0.000	84	372573	50.0	47.8	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	63	211073	50.0	49.7	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	348782	50.0	49.5	
44 Cyclohexane	56	5.545	5.545	0.000	93	562502	50.0	49.8	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	85	301684	50.0	49.5	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	316472	50.0	50.5	
47 Isobutyl alcohol	43	5.770	5.770	0.000	96	121739	1250.0	1209.9	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	203800	50.0	49.1	
49 Benzene	78	5.861	5.861	0.000	95	847471	50.0	48.5	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	58	259491	50.0	48.8	
53 n-Heptane	43	6.134	6.134	0.000	80	436764	50.0	48.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	93	801683	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	244484	50.0	48.6	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	469084	50.0	49.8	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	222854	50.0	48.2	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	18119	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	86	91089	50.0	48.6	
64 1,4-Dioxane	88	6.888	6.888	0.000	67	19097	1000.0	955.5	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	226010	50.0	48.5	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	71633	50.0	46.6	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	276998	50.0	49.0	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	116399	50.0	49.5	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	772381	50.0	49.5	
71 Toluene	92	7.872	7.872	0.000	85	492442	50.0	47.1	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	214741	50.0	47.0	
73 Ethyl methacrylate	69	8.209	8.209	0.000	84	144793	50.0	49.2	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	112325	50.0	45.0	
75 Tetrachloroethene	166	8.472	8.472	0.000	90	250004	50.0	49.0	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	97	200846	50.0	46.8	
77 2-Hexanone	43	8.584	8.584	0.000	76	79377	50.0	50.9	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	151435	50.0	48.2	
80 Ethylene Dibromide	107	8.873	8.873	0.000	97	118442	50.0	46.6	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	87	569472	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	93	587653	50.0	47.0	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	208912	50.0	47.4	
85 Ethylbenzene	106	9.584	9.584	0.000	99	334739	50.0	47.5	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	799570	50.0	47.6	
87 o-Xylene	91	10.296	10.296	0.000	94	832050	50.0	47.9	
88 Styrene	104	10.317	10.317	0.000	91	633051	50.0	47.1	
89 Bromoform	173	10.590	10.590	0.000	98	84269	50.0	47.7	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	1119416	50.0	46.1	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	91	307658	50.0	47.8	
94 Bromobenzene	156	11.387	11.387	0.000	92	259390	50.0	45.3	
95 1,1,2,2-Tetrachloroethane	83	11.392	11.392	0.000	58	128840	50.0	47.5	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	51	145921	50.0	46.8	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	70	51269	50.0	46.5	
98 N-Propylbenzene	91	11.585	11.585	0.000	98	1310644	50.0	45.7	
99 2-Chlorotoluene	91	11.697	11.697	0.000	98	742252	50.0	49.3	
101 4-Chlorotoluene	91	11.863	11.863	0.000	87	855588	50.0	45.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	951676	50.0	46.6	
103 tert-Butylbenzene	119	12.323	12.323	0.000	93	889840	50.0	46.1	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	972016	50.0	46.4	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	1292282	50.0	46.8	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	528543	50.0	45.0	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	94	1141738	50.0	47.2	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	80	326186	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	94	517781	50.0	45.5	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	72	454217	50.0	45.7	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	994436	50.0	47.2	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	56	19714	50.0	46.7	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	318543	50.0	47.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	219148	50.0	47.3	
119 Naphthalene	128	15.303	15.303	0.000	99	455189	50.0	47.9	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	246565	50.0	47.3	

Reagents:

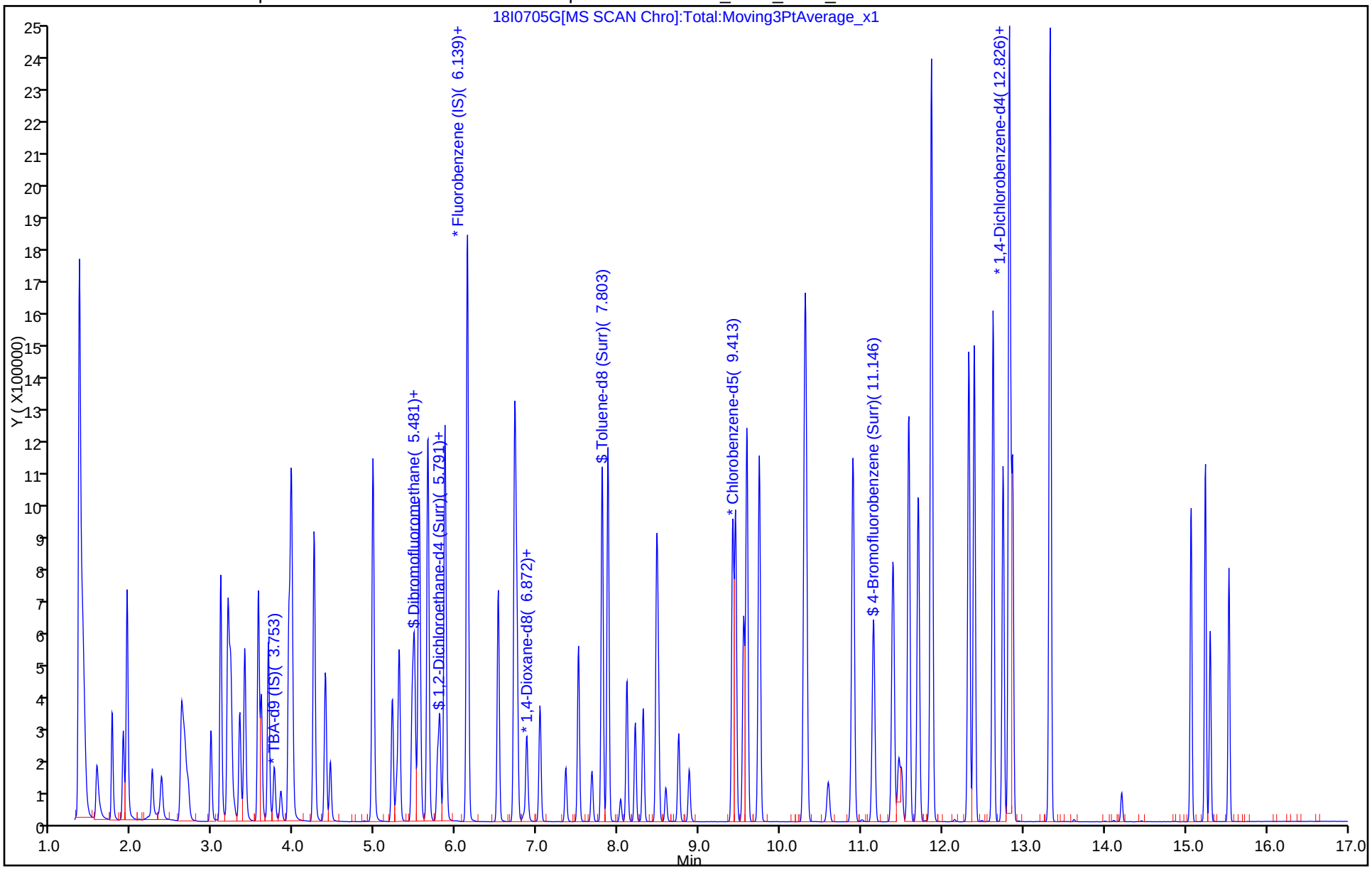
8260 LOWSS1_00133	Amount Added:	5.00	Units: uL
8260/624ACRWK_00334	Amount Added:	2.50	Units: uL
8260/624GASWK_00457	Amount Added:	2.50	Units: uL
8260/624KETWK_00262	Amount Added:	2.50	Units: uL
8260VA/2CEVE_00276	Amount Added:	2.50	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	2.50	Units: uL

Report Date: 05-Jul-2017 18:04:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705G.d

Injection Date:	05-Jul-2017 15:56:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD07			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705H.d
Lims ID: STD08
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 05-Jul-2017 16:21:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD08
Misc. Info.: 500-0046351-009
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:58 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	527601	100.0	110.4	
2 Chloromethane	50	1.752	1.752	0.000	89	674171	100.0	98.8	
3 Vinyl chloride	62	1.891	1.891	0.000	84	604942	100.0	103.7	
4 Butadiene	39	1.940	1.940	0.000	93	667705	100.0	100.2	
5 Bromomethane	94	2.250	2.250	0.000	90	193959	100.0	99.8	
6 Chloroethane	64	2.362	2.362	0.000	92	277550	100.0	95.2	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	84	772426	100.0	95.1	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	713643	100.0	95.6	
10 Ethyl ether	59	2.972	2.972	0.000	97	339452	100.0	104.3	
11 Acrolein	56	3.095	3.095	0.000	94	1281902	4000.0	4130.6	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	456181	100.0	99.3	
13 1,1,2-Trichloro-1,2,2-trif	101	3.213	3.218	-0.005	84	481780	100.0	99.7	
14 Acetone	43	3.261	3.261	0.000	96	70846	100.0	97.2	
15 Iodomethane	142	3.330	3.330	0.000	97	857408	100.0	101.2	
16 Carbon disulfide	76	3.389	3.389	0.000	99	1539407	100.0	102.9	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	267341	100.0	97.9	
20 Methyl acetate	43	3.593	3.593	0.000	100	983993	500.0	511.3	
21 Methylene Chloride	84	3.684	3.684	0.000	93	441233	100.0	99.9	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	176950	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	99	221896	1000.0	1031.8	
24 Acrylonitrile	53	3.935	3.935	0.000	98	1008539	1000.0	999.5	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	484469	100.0	97.7	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	856864	100.0	99.2	
27 Hexane	57	4.245	4.245	0.000	94	893243	100.0	99.5	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	944075	100.0	100.1	
29 Vinyl acetate	43	4.449	4.449	0.000	99	569580	100.0	97.7	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	513610	100.0	99.3	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	530587	100.0	96.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	42	102095	100.0	97.4	
39 Chlorobromomethane	128	5.214	5.214	0.000	92	214726	100.0	101.7	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	88	140204	200.0	203.7	
41 Chloroform	83	5.294	5.294	0.000	74	752011	100.0	97.1	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	65	427416	100.0	101.3	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	699595	100.0	99.9	
44 Cyclohexane	56	5.545	5.545	0.000	94	1118318	100.0	99.6	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	597260	100.0	98.6	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	638700	100.0	102.6	
47 Isobutyl alcohol	43	5.770	5.770	0.000	97	256767	2500.0	2601.5	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	412779	100.0	100.1	
49 Benzene	78	5.861	5.861	0.000	95	1716482	100.0	98.9	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	55	536135	100.0	101.4	
53 n-Heptane	43	6.134	6.134	0.000	95	870212	100.0	97.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	85	797286	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	91	493280	100.0	98.6	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	920502	100.0	98.2	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	451436	100.0	98.2	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18605	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	185247	100.0	99.4	
64 1,4-Dioxane	88	6.888	6.888	0.000	64	41154	2000.0	2005.3	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	466445	100.0	100.5	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	94	146114	100.0	97.6	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	561271	100.0	101.9	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	229053	100.0	99.9	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	1550106	100.0	101.9	
71 Toluene	92	7.872	7.872	0.000	93	1003686	100.0	98.5	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	437551	100.0	98.2	
73 Ethyl methacrylate	69	8.209	8.209	0.000	83	292943	100.0	102.7	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	87	234406	100.0	96.3	
75 Tetrachloroethene	166	8.471	8.472	-0.001	91	489260	100.0	98.5	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	406391	100.0	97.1	
77 2-Hexanone	43	8.584	8.584	0.000	98	149581	100.0	98.4	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	315790	100.0	103.2	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	240318	100.0	97.1	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	88	555088	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	95	1155483	100.0	94.9	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	430534	100.0	100.3	
85 Ethylbenzene	106	9.590	9.584	0.006	99	654389	100.0	95.3	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	1570381	100.0	95.9	
87 o-Xylene	91	10.296	10.296	0.000	93	1633419	100.0	96.5	
88 Styrene	104	10.317	10.317	0.000	92	1255558	100.0	95.9	
89 Bromoform	173	10.590	10.590	0.000	98	185997	100.0	107.9	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	2208656	100.0	95.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	90	614724	100.0	100.1	
94 Bromobenzene	156	11.387	11.387	0.000	91	515768	100.0	94.3	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	66	265906	100.0	103.3	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	52	293535	100.0	98.7	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	76	103376	100.0	98.2	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	2566380	100.0	93.7	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	1461715	100.0	102.2	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	1852778	100.0	95.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.869	11.863	0.006	92	1667450	100.0	92.1	
103 tert-Butylbenzene	119	12.323	12.323	0.000	89	1761077	100.0	95.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	1908558	100.0	95.5	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	2530460	100.0	96.0	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	1058714	100.0	94.5	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	95	2243353	100.0	97.2	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	72	311229	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	94	1030219	100.0	94.9	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	75	904238	100.0	95.4	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	1963275	100.0	97.7	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	63	42234	100.0	104.9	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	92	645373	100.0	100.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	427080	100.0	96.7	
119 Naphthalene	128	15.303	15.303	0.000	98	950708	100.0	104.9	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	503726	100.0	101.3	
S 123 Xylenes, Total	100				0			192.4	
S 124 Trihalomethanes, Total	1				0			408.8	
S 125 1,3-Dichloropropene, Total	1				0			200.1	
S 126 Trimethylbenzene, Total	1				0			190.6	
S 127 1,2-Dichloroethene, Total	96				0			197.0	

Reagents:

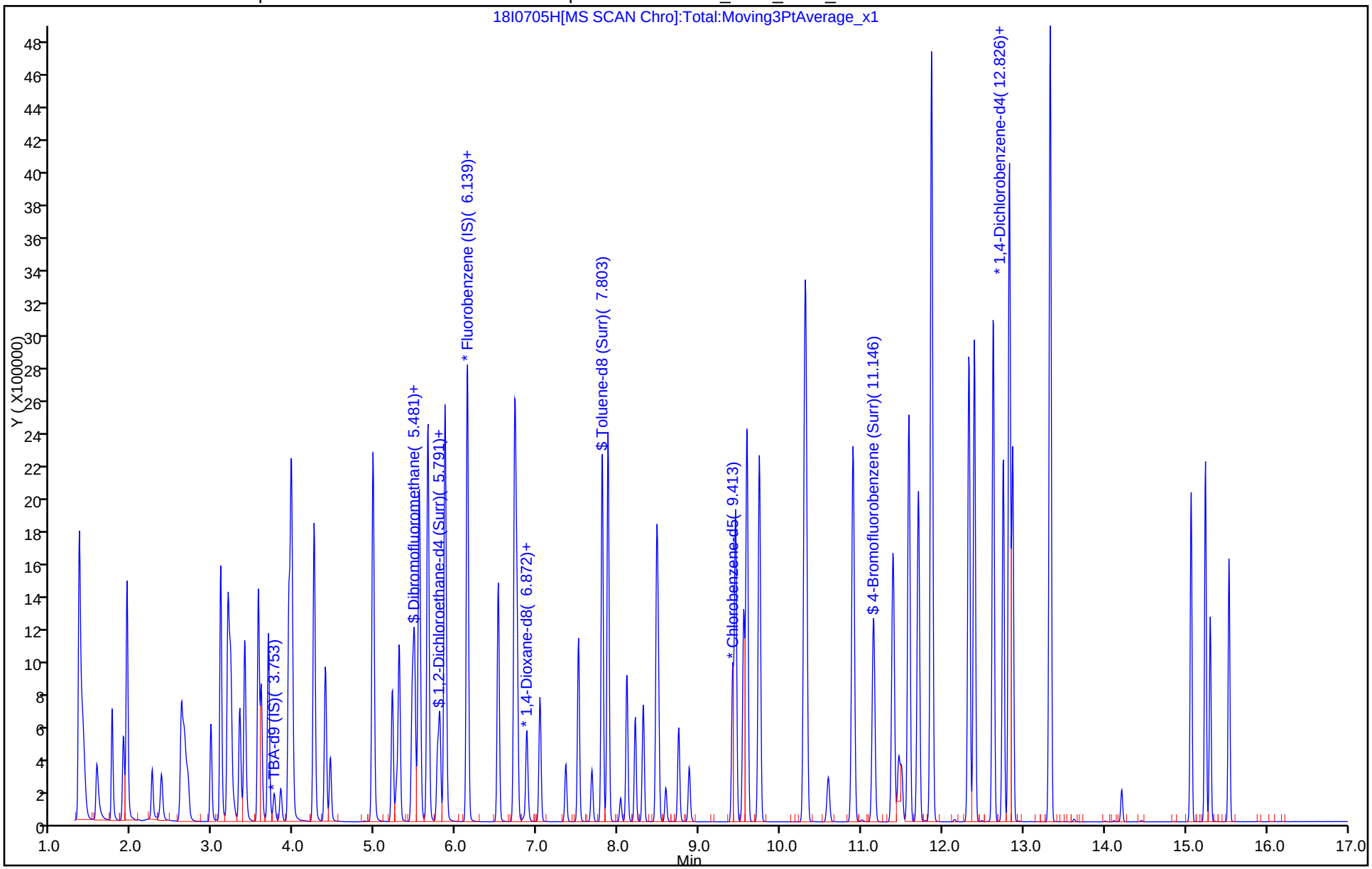
8260 LOWSS1_00133	Amount Added:	10.00	Units: uL
8260/624ACRWK_00334	Amount Added:	5.00	Units: uL
8260/624GASWK_00457	Amount Added:	5.00	Units: uL
8260/624KETWK_00262	Amount Added:	5.00	Units: uL
8260VA/2CEVE_00276	Amount Added:	5.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	5.00	Units: uL

Report Date: 05-Jul-2017 18:05:00 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705H.d

Injection Date:	05-Jul-2017 16:21:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD08			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705I.d
Lims ID: STD09
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 05-Jul-2017 16:46:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD09
Misc. Info.: 500-0046351-010
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:05:05 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:05:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	88	775138	150.0	163.0	
2 Chloromethane	50	1.757	1.752	0.005	89	991831	150.0	146.1	
3 Vinyl chloride	62	1.897	1.891	0.006	83	897571	150.0	154.7	
4 Butadiene	39	1.939	1.940	-0.001	93	996872	150.0	150.4	
5 Bromomethane	94	2.250	2.250	0.000	91	288419	150.0	149.5	
6 Chloroethane	64	2.367	2.362	0.005	91	415683	150.0	143.3	
7 Dichlorofluoromethane	67	2.613	2.608	0.005	83	1129805	150.0	139.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	1059463	150.0	142.7	
10 Ethyl ether	59	2.972	2.972	0.000	98	500438	150.0	154.5	
11 Acrolein	56	3.095	3.095	0.000	96	1915013	6000.0	6202.8	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	693260	150.0	151.7	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	715425	150.0	148.8	
14 Acetone	43	3.261	3.261	0.000	97	105095	150.0	144.9	
15 Iodomethane	142	3.330	3.330	0.000	98	1282816	150.0	152.2	
16 Carbon disulfide	76	3.394	3.389	0.005	99	2278552	150.0	153.1	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	91	404491	150.0	148.9	
20 Methyl acetate	43	3.592	3.593	-0.001	100	1441283	750.0	752.8	
21 Methylene Chloride	84	3.683	3.684	-0.001	92	658706	150.0	150.0	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180577	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	99	330674	1500.0	1506.7	
24 Acrylonitrile	53	3.935	3.935	0.000	98	1497067	1500.0	1491.3	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	717405	150.0	145.4	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	92	1264809	150.0	147.2	
27 Hexane	57	4.250	4.245	0.005	95	1354731	150.0	151.6	
28 1,1-Dichloroethane	63	4.390	4.384	0.006	85	1425060	150.0	151.9	
29 Vinyl acetate	43	4.448	4.449	-0.001	99	904001	150.0	155.8	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	58	768970	150.0	140.3	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	765209	150.0	148.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	42	154325	150.0	148.0	
39 Chlorobromomethane	128	5.213	5.214	-0.001	92	315622	150.0	150.2	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	90	210363	300.0	308.7	
41 Chloroform	83	5.299	5.294	0.005	84	1142376	150.0	148.3	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	65	648559	150.0	154.5	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	90	1028320	150.0	147.5	
44 Cyclohexane	56	5.545	5.545	0.000	94	1678279	150.0	150.2	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	84	903310	150.0	149.9	
46 Carbon tetrachloride	117	5.652	5.652	0.000	74	957861	150.0	154.6	
47 Isobutyl alcohol	43	5.770	5.770	0.000	95	379845	3750.0	3771.2	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.796	5.797	-0.001	0	629613	150.0	153.4	
49 Benzene	78	5.861	5.861	0.000	95	2592258	150.0	150.1	
50 1,2-Dichloroethane	62	5.871	5.872	-0.001	54	802623	150.0	152.6	
53 n-Heptane	43	6.134	6.134	0.000	96	1345711	150.0	152.2	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	68	793160	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	746200	150.0	150.0	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	1372161	150.0	147.1	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	87	693362	150.0	151.6	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	18964	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	88	279814	150.0	151.0	
64 1,4-Dioxane	88	6.888	6.888	0.000	63	62699	3000.0	2997.3	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	725445	150.0	157.2	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	224705	150.0	149.4	
68 cis-1,3-Dichloropropene	75	7.508	7.509	-0.001	86	866161	150.0	156.5	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	345903	150.0	150.1	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	2347763	150.0	153.7	
71 Toluene	92	7.872	7.872	0.000	91	1530063	150.0	149.5	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	665032	150.0	148.6	
73 Ethyl methacrylate	69	8.209	8.209	0.000	82	436487	150.0	152.6	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	89	353136	150.0	144.4	
75 Tetrachloroethene	166	8.477	8.472	0.005	91	755618	150.0	151.4	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	617105	150.0	146.8	
77 2-Hexanone	43	8.584	8.584	0.000	98	222613	150.0	145.8	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	486428	150.0	158.3	
80 Ethylene Dibromide	107	8.873	8.873	0.000	100	362820	150.0	145.9	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	557640	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	1783602	150.0	145.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	665912	150.0	154.4	
85 Ethylbenzene	106	9.589	9.584	0.005	99	1002770	150.0	145.4	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	2365982	150.0	143.8	
87 o-Xylene	91	10.301	10.296	0.005	91	2463745	150.0	145.0	
88 Styrene	104	10.317	10.317	0.000	91	1898183	150.0	144.3	
89 Bromoform	173	10.590	10.590	0.000	97	279997	150.0	161.7	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	3320949	150.0	148.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	89	924613	150.0	155.7	
94 Bromobenzene	156	11.387	11.387	0.000	90	777571	150.0	147.1	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	64	388572	150.0	156.3	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	53	443741	150.0	154.4	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	78	155723	150.0	153.1	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	3801360	150.0	143.5	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	2200917	150.0	159.4	
101 4-Chlorotoluene	91	11.868	11.863	0.005	91	2487588	150.0	142.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	2751022	150.0	146.0	
103 tert-Butylbenzene	119	12.328	12.323	0.005	93	2591771	150.0	145.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	2824184	150.0	146.2	
106 sec-Butylbenzene	105	12.628	12.623	0.005	94	3678597	150.0	144.4	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	1572809	150.0	145.2	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	94	3274818	150.0	146.8	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	57	300905	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.863	12.864	-0.001	94	1530441	150.0	145.8	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	77	1330213	150.0	145.2	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	2822903	150.0	145.3	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	59	60110	150.0	154.4	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	90	921392	150.0	147.8	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	600596	150.0	140.6	
119 Naphthalene	128	15.303	15.303	0.000	98	1345710	150.0	153.5	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	93	711241	150.0	147.9	
S 123 Xylenes, Total	100				0			288.7	
S 124 Trihalomethanes, Total	1				0			625.4	
S 125 1,3-Dichloropropene, Total	1				0			305.1	
S 126 Trimethylbenzene, Total	1				0			292.2	
S 127 1,2-Dichloroethene, Total	96				0			294.2	

Reagents:

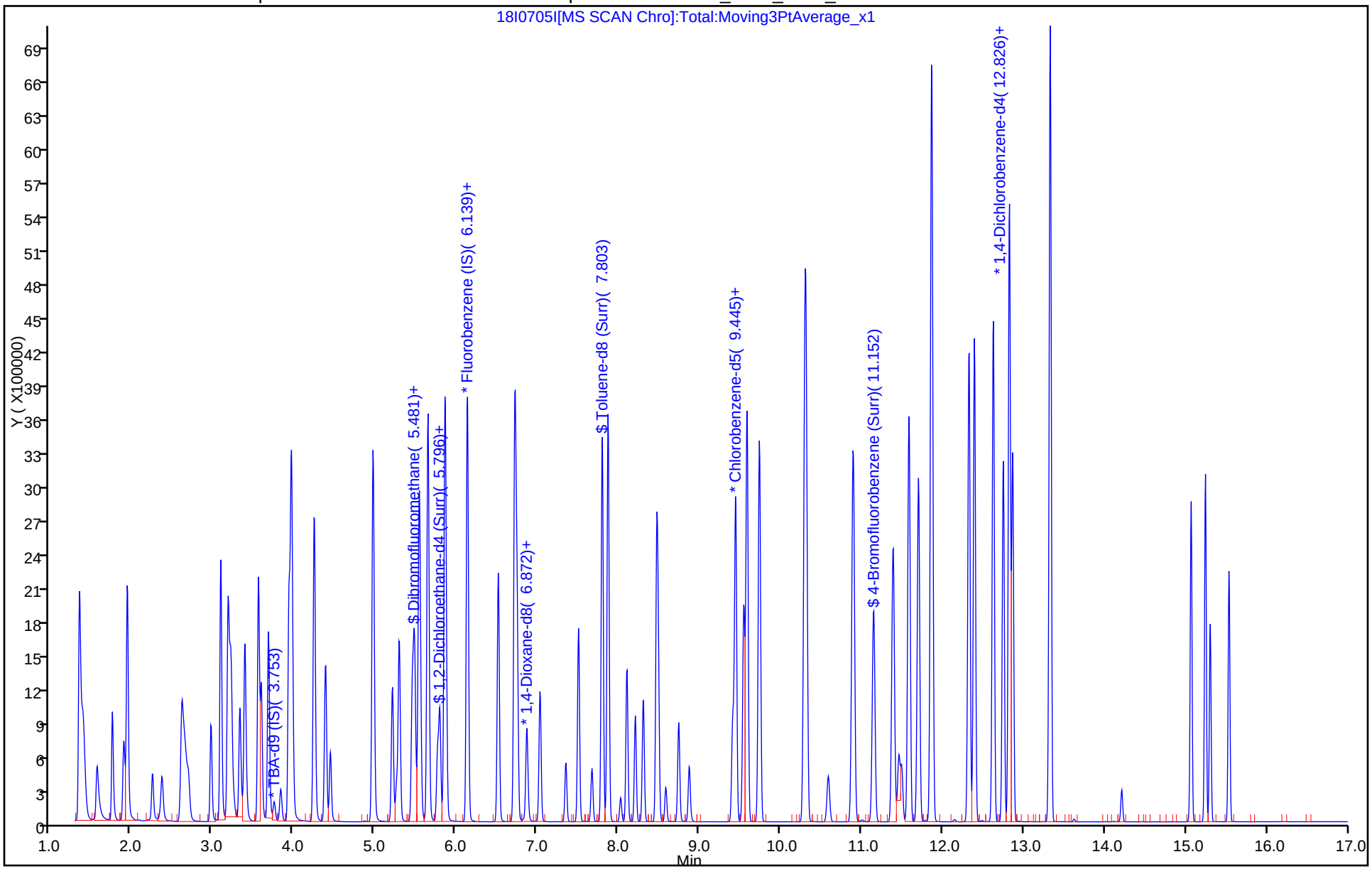
8260 LOWSS1_00133	Amount Added:	15.00	Units: uL
8260/624ACRWK_00334	Amount Added:	7.50	Units: uL
8260/624GASWK_00457	Amount Added:	7.50	Units: uL
8260/624KETWK_00262	Amount Added:	7.50	Units: uL
8260VA/2CEVE_00276	Amount Added:	7.50	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	7.50	Units: uL

Report Date: 05-Jul-2017 18:05:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705I.d

Injection Date:	05-Jul-2017 16:46:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD09			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



11/16/2017

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 05-Jul-2017 17:12:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Misc. Info.: 500-0046351-011
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:05:10 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:05:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	88	1061995	200.0	224.7	
2 Chloromethane	50	1.758	1.752	0.006	88	1386497	200.0	205.4	
3 Vinyl chloride	62	1.902	1.891	0.011	82	1227798	200.0	213.1	
4 Butadiene	39	1.940	1.940	0.000	93	1372905	200.0	208.4	
5 Bromomethane	94	2.250	2.250	0.000	90	416245	200.0	217.4	
6 Chloroethane	64	2.368	2.362	0.006	92	599785	200.0	208.1	
7 Dichlorofluoromethane	67	2.614	2.608	0.006	83	1562454	200.0	194.6	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	1450310	200.0	196.6	
10 Ethyl ether	59	2.972	2.972	0.000	98	668978	200.0	207.9	
11 Acrolein	56	3.095	3.095	0.000	94	2604613	8000.0	8489.1	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	914221	200.0	201.3	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	960098	200.0	200.9	
14 Acetone	43	3.261	3.261	0.000	97	144039	200.0	199.9	
15 Iodomethane	142	3.330	3.330	0.000	98	1694761	200.0	202.3	
16 Carbon disulfide	76	3.395	3.389	0.006	99	3024082	200.0	204.5	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	514612	200.0	190.6	
20 Methyl acetate	43	3.593	3.593	0.000	98	1958229	1000.0	1029.2	
21 Methylene Chloride	84	3.684	3.684	0.000	92	865146	200.0	198.2	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180156	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	98	439795	2000.0	2008.5	
24 Acrylonitrile	53	3.935	3.935	0.000	98	2032201	2000.0	2037.1	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	946972	200.0	193.1	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	92	1697581	200.0	198.8	
27 Hexane	57	4.251	4.245	0.006	95	1797062	200.0	202.4	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	1885420	200.0	202.2	
29 Vinyl acetate	43	4.449	4.449	0.000	99	1230286	200.0	213.4	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	1012515	200.0	198.1	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	58	995454	200.0	182.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	43	211058	200.0	203.7	
39 Chlorobromomethane	128	5.214	5.214	0.000	91	422477	200.0	202.4	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	91	286010	400.0	423.3	
41 Chloroform	83	5.299	5.294	0.005	84	1511411	200.0	197.4	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	68	838574	200.0	201.0	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	89	1372930	200.0	198.2	
44 Cyclohexane	56	5.545	5.545	0.000	93	2254682	200.0	203.0	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	83	1185625	200.0	198.0	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	1268130	200.0	206.0	
47 Isobutyl alcohol	43	5.770	5.770	0.000	97	516284	5000.0	5137.8	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	835861	200.0	205.0	
49 Benzene	78	5.861	5.861	0.000	95	3386318	200.0	197.3	
50 1,2-Dichloroethane	62	5.877	5.872	0.005	71	1074681	200.0	205.6	
53 n-Heptane	43	6.134	6.134	0.000	96	1765681	200.0	201.0	
* 54 Fluorobenzene (IS)	96	6.144	6.139	0.005	65	788230	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	985429	200.0	199.3	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	1805649	200.0	194.8	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	87	913964	200.0	201.1	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	20646	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	370367	200.0	201.1	
64 1,4-Dioxane	88	6.888	6.888	0.000	62	79073	4000.0	3472.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	962188	200.0	209.8	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	306734	200.0	202.9	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	86	1150948	200.0	206.9	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	473140	200.0	204.3	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	94	3075705	200.0	200.3	
71 Toluene	92	7.872	7.872	0.000	88	2020225	200.0	196.4	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	891201	200.0	198.1	
73 Ethyl methacrylate	69	8.209	8.209	0.000	83	585681	200.0	203.9	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	475288	200.0	193.3	
75 Tetrachloroethene	166	8.472	8.472	0.000	91	987214	200.0	196.7	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	95	810185	200.0	191.7	
77 2-Hexanone	43	8.584	8.584	0.000	98	302771	200.0	197.2	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	655275	200.0	212.1	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	486421	200.0	194.6	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	560615	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	96	2316648	200.0	188.3	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	873975	200.0	201.6	
85 Ethylbenzene	106	9.590	9.584	0.006	99	1304396	200.0	188.1	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	3093823	200.0	187.0	
87 o-Xylene	91	10.301	10.296	0.005	92	3208794	200.0	187.8	
88 Styrene	104	10.317	10.317	0.000	90	2478330	200.0	187.4	
89 Bromoform	173	10.590	10.590	0.000	98	388152	200.0	223.0	
90 Isopropylbenzene	105	10.900	10.895	0.005	98	4287635	200.0	190.2	
$ 92 4-Bromofluorobenzene (Surr	95	11.152	11.146	0.006	91	1193401	200.0	199.7	
94 Bromobenzene	156	11.387	11.387	0.000	90	1013502	200.0	190.5	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	64	519097	200.0	207.7	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	51	597569	200.0	206.6	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	74	204185	200.0	199.5	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	4885915	200.0	183.3	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	2854571	200.0	205.6	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	88	3527054	200.0	186.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.869	11.863	0.006	88	3225245	200.0	183.1	
103 tert-Butylbenzene	119	12.329	12.323	0.006	88	3359443	200.0	187.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	3642256	200.0	187.4	
106 sec-Butylbenzene	105	12.628	12.623	0.005	94	4697182	200.0	183.2	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	2039179	200.0	187.1	
108 4-Isopropyltoluene	119	12.826	12.821	0.005	95	4150107	200.0	184.9	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	53	302763	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.869	12.864	0.005	94	1992490	200.0	188.7	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	80	1715886	200.0	186.1	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	3553266	200.0	181.8	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	66	81341	200.0	207.7	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	1144526	200.0	182.5	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	750421	200.0	174.6	
119 Naphthalene	128	15.303	15.303	0.000	98	1699293	200.0	192.7	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	869993	200.0	179.8	
S 123 Xylenes, Total	100				0			374.8	
S 124 Trihalomethanes, Total	1				0			842.3	
S 125 1,3-Dichloropropene, Total	1				0			405.0	
S 126 Trimethylbenzene, Total	1				0			373.4	
S 127 1,2-Dichloroethene, Total	96				0			391.2	

Reagents:

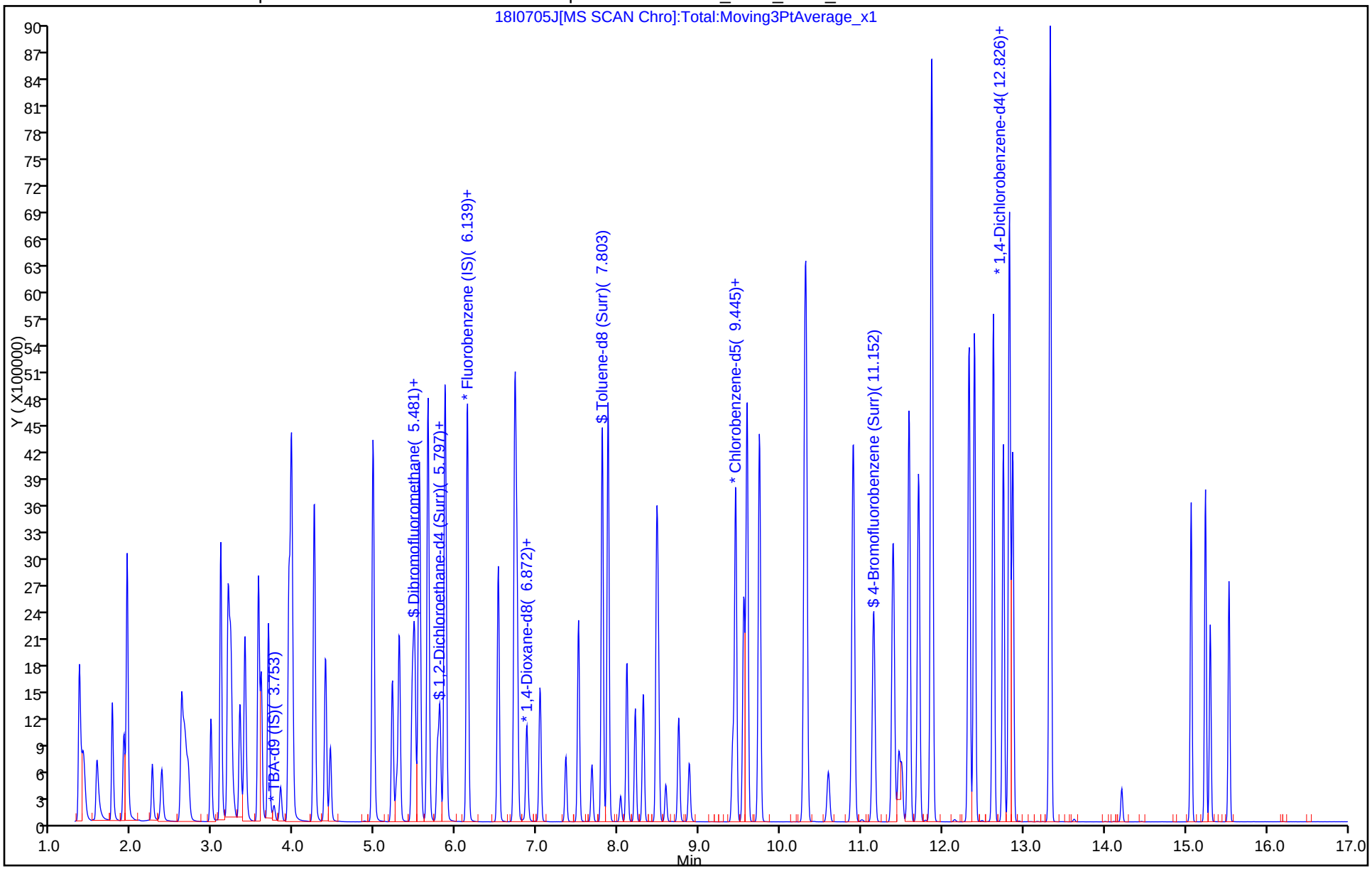
8260 LOWSS1_00133	Amount Added:	20.00	Units: uL
8260/624ACRWK_00334	Amount Added:	10.00	Units: uL
8260/624GASWK_00457	Amount Added:	10.00	Units: uL
8260/624KETWK_00262	Amount Added:	10.00	Units: uL
8260VA/2CEVE_00276	Amount Added:	10.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	10.00	Units: uL

Report Date: 05-Jul-2017 18:05:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Injection Date:	05-Jul-2017 17:12:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD10			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2998	0.2920	0.0100	48.7	50.0	-2.6	30.0
Chloromethane	Ave	0.4281	0.3997	0.1000	46.7	50.0	-6.6	30.0
Vinyl chloride	Lin2		0.3704	0.0100	50.5	50.0	1.0	30.0
Butadiene	Ave	0.4180	0.3885	0.0100	46.5	50.0	-7.1	30.0
Bromomethane	Lin2		0.1169	0.0100	47.7	50.0	-4.7	30.0
Chloroethane	Ave	0.1829	0.1695	0.0100	46.3	50.0	-7.3	30.0
Dichlorofluoromethane	Ave	0.5092	0.5182	0.0100	50.9	50.0	1.8	30.0
Trichlorofluoromethane	Ave	0.4679	0.4430	0.0100	47.3	50.0	-5.3	30.0
Ethyl ether	Ave	0.2041	0.2052	0.0100	50.3	50.0	0.5	30.0
Acrolein	Ave	0.0195	0.0192	0.0010	1980	2000	-1.2	30.0
1,1-Dichloroethene	Ave	0.2881	0.2728	0.0100	47.4	50.0	-5.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3031	0.2857	0.0100	47.1	50.0	-5.8	30.0
Acetone	Ave	0.0457	0.0473	0.0100	51.7	50.0	3.4	30.0
Iodomethane	Ave	0.5313	0.5202	0.0100	48.9	50.0	-2.1	30.0
Carbon disulfide	Ave	0.9382	0.8937	0.0100	47.6	50.0	-4.7	30.0
3-Chloropropene	Ave	0.1713	0.1610	0.0100	47.0	50.0	-6.0	30.0
Methyl acetate	Ave	0.1207	0.1144	0.0100	237	250	-5.3	30.0
Methylene Chloride	Ave	0.2769	0.2784	0.0100	50.3	50.0	0.5	30.0
tert-Butyl alcohol	Ave	1.215	1.249	0.0100	514	500	2.7	30.0
Acrylonitrile	Ave	0.0633	0.0606	0.0010	479	500	-4.2	30.0
trans-1,2-Dichloroethene	Ave	0.3110	0.2992	0.0100	48.1	50.0	-3.8	30.0
Methyl tert-butyl ether	Ave	0.5416	0.5337	0.0100	49.3	50.0	-1.5	30.0
Hexane	Ave	0.5632	0.5254	0.0100	46.6	50.0	-6.7	30.0
1,1-Dichloroethane	Ave	0.5914	0.5734	0.1000	48.5	50.0	-3.0	30.0
Vinyl acetate	Ave	0.3658	0.3379	0.0100	46.2	50.0	-7.6	30.0
2,2-Dichloropropane	Ave	0.3456	0.3247	0.0100	47.0	50.0	-6.0	30.0
cis-1,2-Dichloroethene	Ave	0.3242	0.3126	0.0100	48.2	50.0	-3.6	30.0
Methyl Ethyl Ketone	Ave	0.0657	0.0688	0.0100	52.3	50.0	4.7	30.0
Bromochloromethane	Ave	0.1324	0.1249	0.0100	47.1	50.0	-5.7	30.0
Tetrahydrofuran	Lin2		0.0410	0.0100	93.6	100	-6.4	30.0
Chloroform	Ave	0.4856	0.4596	0.0100	47.3	50.0	-5.4	30.0
1,1,1-Trichloroethane	Ave	0.4394	0.4141	0.0100	47.1	50.0	-5.8	30.0
Cyclohexane	Ave	0.7044	0.6678	0.0100	47.4	50.0	-5.2	30.0
1,1-Dichloropropene	Ave	0.3798	0.3639	0.0100	47.9	50.0	-4.2	30.0
Carbon tetrachloride	Ave	0.3906	0.3804	0.0100	48.7	50.0	-2.6	30.0
Isobutyl alcohol	Ave	0.5578	0.5501	0.0010	1230	1250	-1.4	30.0
Benzene	Ave	1.089	1.048	0.0100	48.1	50.0	-3.7	30.0
1,2-Dichloroethane	Ave	0.3316	0.3186	0.0100	48.0	50.0	-3.9	30.0
Heptane	Ave	0.5573	0.5113	0.0100	45.9	50.0	-8.3	30.0
Trichloroethene	Ave	0.3137	0.2951	0.0100	47.0	50.0	-5.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5880	0.5515	0.0100	46.9	50.0	-6.2	30.0
1,2-Dichloropropane	Ave	0.2883	0.2805	0.0100	48.7	50.0	-2.7	30.0
Dibromomethane	Ave	0.1168	0.1079	0.0100	46.2	50.0	-7.7	30.0
1,4-Dioxane	Ave	1.103	1.128	0.0010	1020	1000	2.2	30.0
Bromodichloromethane	Ave	0.2909	0.2777	0.0100	47.7	50.0	-4.6	30.0
2-Chloroethyl vinyl ether	Ave	0.1348	0.1332	0.0100	49.4	50.0	-1.2	30.0
cis-1,3-Dichloropropene	Ave	0.4961	0.4686	0.0100	47.2	50.0	-5.5	30.0
methyl isobutyl ketone	Ave	0.2066	0.2308	0.0100	55.9	50.0	11.7	30.0
Toluene	Ave	0.9176	0.8446	0.0100	46.0	50.0	-8.0	30.0
trans-1,3-Dichloropropene	Ave	0.4013	0.3550	0.0100	44.2	50.0	-11.5	30.0
Ethyl methacrylate	Lin2		0.2514	0.0100	48.7	50.0	-2.6	30.0
1,1,2-Trichloroethane	Ave	0.2193	0.2012	0.0100	45.9	50.0	-8.2	30.0
Tetrachloroethene	Ave	0.4475	0.4075	0.0100	45.5	50.0	-9.0	30.0
1,3-Dichloropropane	Ave	0.3769	0.3369	0.0100	44.7	50.0	-10.6	30.0
2-Hexanone	Ave	0.1369	0.1559	0.0100	56.9	50.0	13.8	30.0
Dibromochloromethane	Ave	0.2756	0.2523	0.0100	45.8	50.0	-8.4	30.0
1,2-Dibromoethane	Ave	0.2229	0.2055	0.0100	46.1	50.0	-7.8	30.0
Chlorobenzene	Ave	1.097	1.004	0.3000	45.7	50.0	-8.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3866	0.3726	0.0100	48.2	50.0	-3.6	30.0
Ethylbenzene	Ave	0.6185	0.5694	0.0100	46.0	50.0	-7.9	30.0
m&p-Xylene	Ave	1.475	1.329	0.0100	45.0	50.0	-9.9	30.0
o-Xylene	Ave	1.524	1.409	0.0100	46.2	50.0	-7.5	30.0
Styrene	Ave	1.179	1.091	0.0100	46.2	50.0	-7.5	30.0
Bromoform	Ave	0.1553	0.1455	0.1000	46.8	50.0	-6.3	30.0
Isopropylbenzene	Ave	3.722	3.359	0.0100	45.1	50.0	-9.7	30.0
Bromobenzene	Ave	0.8786	0.7999	0.0100	45.5	50.0	-9.0	30.0
1,1,2,2-Tetrachloroethane	Lin2		0.3999	0.3000	48.1	50.0	-3.8	30.0
1,2,3-Trichloropropane	Ave	0.4777	0.4635	0.0100	48.5	50.0	-3.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1690	0.1596	0.0100	47.2	50.0	-5.6	30.0
N-Propylbenzene	Ave	4.401	3.906	0.0100	44.4	50.0	-11.2	30.0
2-Chlorotoluene	Lin2		2.261	0.0100	48.9	50.0	-2.1	30.0
1,3,5-Trimethylbenzene	Ave	3.130	2.879	0.0100	46.0	50.0	-8.0	30.0
4-Chlorotoluene	Ave	2.908	2.594	0.0100	44.6	50.0	-10.8	30.0
tert-Butylbenzene	Ave	2.956	2.680	0.0100	45.3	50.0	-9.3	30.0
1,2,4-Trimethylbenzene	Ave	3.211	2.935	0.0100	45.7	50.0	-8.6	30.0
sec-Butylbenzene	Ave	4.234	3.820	0.0100	45.1	50.0	-9.8	30.0
1,3-Dichlorobenzene	Ave	1.800	1.607	0.0100	44.6	50.0	-10.7	30.0
p-Isopropyltoluene	Ave	3.706	3.412	0.0100	46.0	50.0	-7.9	30.0
1,4-Dichlorobenzene	Ave	1.744	1.595	0.0100	45.7	50.0	-8.5	30.0
1,2-Dichlorobenzene	Ave	1.522	1.401	0.0100	46.0	50.0	-7.9	30.0
n-Butylbenzene	Ave	3.228	2.910	0.0100	45.1	50.0	-9.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0647	0.0603	0.0100	46.6	50.0	-6.8	30.0
1,2,4-Trichlorobenzene	Ave	1.036	0.9580	0.0100	46.2	50.0	-7.5	30.0
Hexachlorobutadiene	Ave	0.7098	0.6503	0.0100	45.8	50.0	-8.4	30.0
Naphthalene	Ave	1.457	1.373	0.0100	47.1	50.0	-5.7	30.0
1,2,3-Trichlorobenzene	Ave	0.7991	0.7788	0.0100	48.7	50.0	-2.5	30.0
Dibromofluoromethane	Ave	0.2646	0.2543	0.0100	48.0	50.0	-3.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.2409	0.0100	46.6	50.0	-6.9	30.0
Toluene-d8 (Surr)	Ave	1.370	1.271	0.0100	46.4	50.0	-7.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.9346	0.0100	47.4	50.0	-5.3	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18S0705ICV1.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 05-Jul-2017 18:26:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV 1
Misc. Info.: 500-0046351-014
Operator ID: EA Instrument ID: CMS18
Sublist:
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:50:13 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:50:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	86	226273	50.0	48.7	
2 Chloromethane	50	1.758	1.752	0.006	89	309726	50.0	46.7	
3 Vinyl chloride	62	1.891	1.891	0.000	83	286985	50.0	50.5	
4 Butadiene	39	1.939	1.940	-0.001	93	301021	50.0	46.5	
5 Bromomethane	94	2.250	2.250	0.000	90	90546	50.0	47.7	
6 Chloroethane	64	2.367	2.362	0.005	91	131305	50.0	46.3	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	83	401573	50.0	50.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	343254	50.0	47.3	
10 Ethyl ether	59	2.977	2.972	0.005	97	158994	50.0	50.3	
11 Acrolein	56	3.095	3.095	0.000	95	596015	2000.0	1976.0	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	211424	50.0	47.4	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	83	221349	50.0	47.1	
14 Acetone	43	3.261	3.261	0.000	97	36629	50.0	51.7	
15 Iodomethane	142	3.330	3.330	0.000	98	403056	50.0	48.9	
16 Carbon disulfide	76	3.389	3.389	0.000	99	692541	50.0	47.6	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	124779	50.0	47.0	
20 Methyl acetate	43	3.598	3.593	0.005	98	443049	250.0	236.9	
21 Methylene Chloride	84	3.683	3.683	-0.001	93	215692	50.0	50.3	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175585	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.839	3.844	0.000	98	109636	500.0	513.7	
24 Acrylonitrile	53	3.935	3.935	0.000	98	469707	500.0	478.9	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	88	231852	50.0	48.1	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	93	413516	50.0	49.3	
27 Hexane	57	4.245	4.245	0.000	95	407146	50.0	46.6	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	444312	50.0	48.5	
29 Vinyl acetate	43	4.449	4.448	-0.001	99	261850	50.0	46.2	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	59	251593	50.0	47.0	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	242217	50.0	48.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	63	53306	50.0	52.3	
39 Chlorobromomethane	128	5.214	5.214	0.000	92	96753	50.0	47.1	
40 Tetrahydrofuran	42	5.267	5.267	0.000	86	63582	100.0	93.6	
41 Chloroform	83	5.299	5.294	0.005	84	356098	50.0	47.3	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	58	197027	50.0	48.0	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	320856	50.0	47.1	
44 Cyclohexane	56	5.545	5.545	0.000	94	517488	50.0	47.4	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	281968	50.0	47.9	
46 Carbon tetrachloride	117	5.652	5.652	0.000	76	294765	50.0	48.7	
47 Isobutyl alcohol	43	5.770	5.778	0.000	96	120745	1250.0	1232.9	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	186691	50.0	46.6	
49 Benzene	78	5.861	5.861	0.000	96	812290	50.0	48.1	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	55	246848	50.0	48.0	
53 n-Heptane	43	6.134	6.134	0.000	79	396182	50.0	45.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	94	774889	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	228678	50.0	47.0	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	427327	50.0	46.9	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	217391	50.0	48.7	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18363	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	83580	50.0	46.2	
64 1,4-Dioxane	88	6.883	6.883	-0.005	49	20710	1000.0	1022.5	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	215163	50.0	47.7	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	74010	50.0	49.4	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	260439	50.0	47.2	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	97	128264	50.0	55.9	
$ 70 Toluene-d8 (Surr)	98	7.797	7.803	-0.006	95	706171	50.0	46.4	
71 Toluene	92	7.872	7.872	0.000	91	469396	50.0	46.0	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	197296	50.0	44.2	
73 Ethyl methacrylate	69	8.209	8.209	0.000	84	139741	50.0	48.7	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	111838	50.0	45.9	
75 Tetrachloroethene	166	8.471	8.471	-0.001	90	226452	50.0	45.5	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	97	187232	50.0	44.7	
77 2-Hexanone	43	8.584	8.584	0.000	98	86636	50.0	56.9	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	140223	50.0	45.8	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	114194	50.0	46.1	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	555755	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	557899	50.0	45.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	207093	50.0	48.2	
85 Ethylbenzene	106	9.584	9.584	0.000	99	316461	50.0	46.0	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	738658	50.0	45.0	
87 o-Xylene	91	10.296	10.296	0.000	93	783156	50.0	46.2	
88 Styrene	104	10.317	10.317	0.000	92	606139	50.0	46.2	
89 Bromoform	173	10.590	10.590	0.000	98	80844	50.0	46.8	
90 Isopropylbenzene	105	10.895	10.899	0.000	98	1045747	50.0	45.1	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.151	0.000	90	290937	50.0	47.4	
94 Bromobenzene	156	11.387	11.392	0.000	90	248989	50.0	45.5	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.397	0.006	64	124477	50.0	48.1	
96 1,2,3-Trichloropropane	75	11.462	11.467	0.000	50	144270	50.0	48.5	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.499	0.000	69	49680	50.0	47.2	
98 N-Propylbenzene	91	11.585	11.590	0.000	97	1215984	50.0	44.4	
99 2-Chlorotoluene	91	11.703	11.702	0.006	98	703837	50.0	48.9	
101 4-Chlorotoluene	91	11.869	11.868	0.006	93	807562	50.0	44.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.868	0.000	87	896129	50.0	46.0	
103 tert-Butylbenzene	119	12.323	12.328	0.000	89	834297	50.0	45.3	
105 1,2,4-Trimethylbenzene	105	12.393	12.398	0.000	66	913765	50.0	45.7	
106 sec-Butylbenzene	105	12.623	12.628	0.000	94	1189197	50.0	45.1	
107 1,3-Dichlorobenzene	146	12.746	12.751	0.000	97	500307	50.0	44.6	
108 4-Isopropyltoluene	119	12.821	12.826	0.000	96	1062237	50.0	46.0	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	96	311287	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.869	0.000	94	496520	50.0	45.7	
113 1,2-Dichlorobenzene	146	13.324	13.329	0.000	76	436255	50.0	46.0	
114 n-Butylbenzene	91	13.329	13.335	0.000	98	905937	50.0	45.1	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.218	0.000	51	18757	50.0	46.6	
117 1,2,4-Trichlorobenzene	180	15.068	15.074	0.000	93	298203	50.0	46.2	
118 Hexachlorobutadiene	225	15.244	15.251	0.000	93	202436	50.0	45.8	
119 Naphthalene	128	15.303	15.309	0.000	99	427430	50.0	47.1	
120 1,2,3-Trichlorobenzene	180	15.533	15.540	0.000	93	242437	50.0	48.7	
S 123 Xylenes, Total	100				0		100.0	91.3	
S 127 1,2-Dichloroethene, Total	96				0		100.0	96.3	

Reagents:

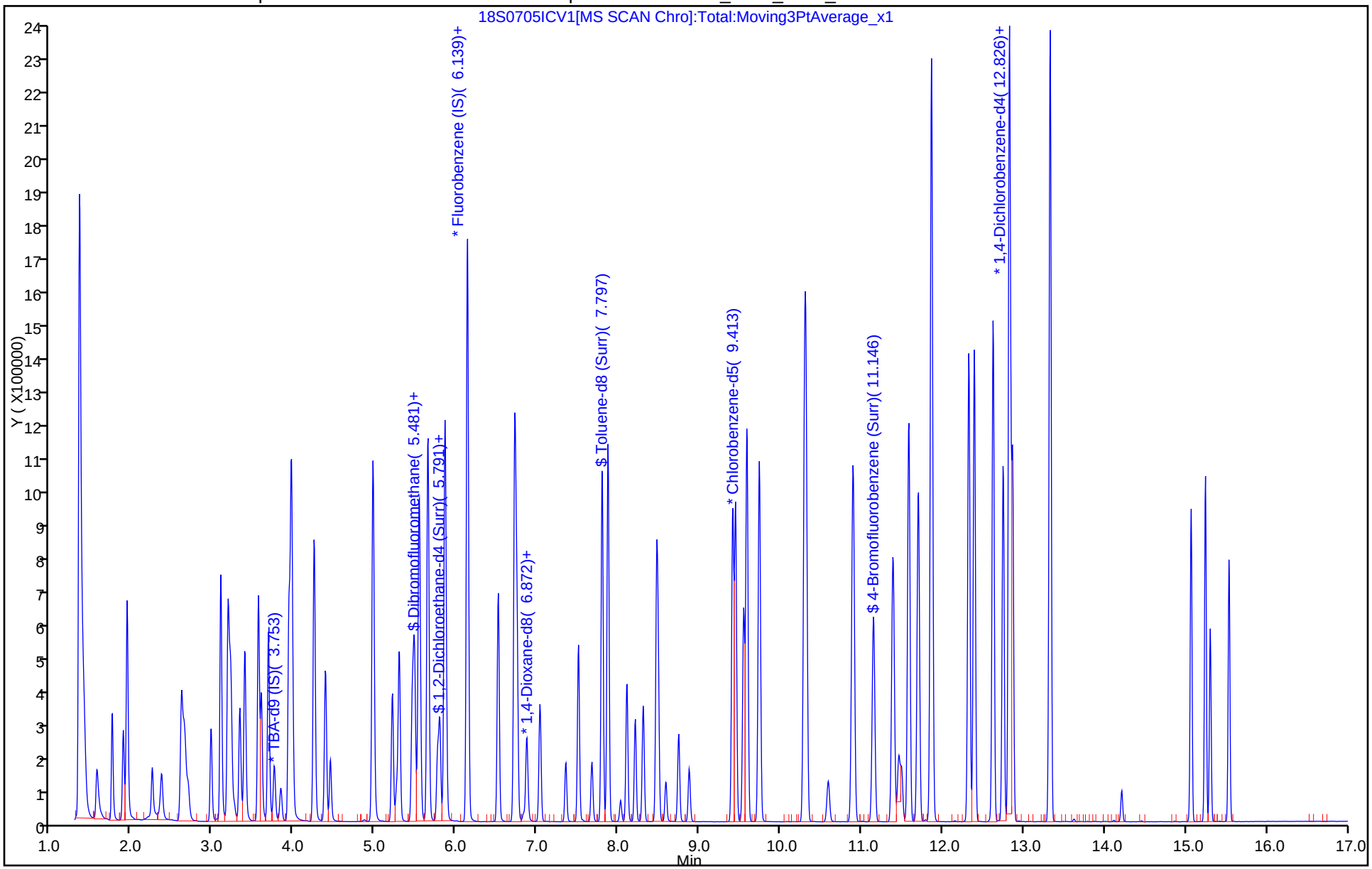
8260 MEGA SPK_00104	Amount Added:	5.00	Units: uL	
8260 KET SPK_00100	Amount Added:	5.00	Units: uL	
8260 ACR SPK_00129	Amount Added:	5.00	Units: uL	
8260 GAS SPK_00129	Amount Added:	5.00	Units: uL	
VA/2CEVE SPK_00114	Amount Added:	5.00	Units: uL	
8260LOW IS/SS_00146	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Jul-2017 18:50:14 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18S0705ICV1.d

Injection Date:	05-Jul-2017 18:26:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	ICV			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: CCVIS 500-407133/2 Calibration Date: 10/26/2017 20:21

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1026P.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2998	0.2052	0.0100	34.2	50.0	-31.6	50.0
Chloromethane	Ave	0.4281	0.3977	0.1000	46.4	50.0	-7.1	50.0
Vinyl chloride	Lin2		0.3026	0.0100	41.2	50.0	-17.5	20.0
Butadiene	Ave	0.4180	0.3389	0.0100	40.5	50.0	-18.9	50.0
Bromomethane	Lin2		0.1374	0.0100	56.1	50.0	12.3	50.0
Chloroethane	Ave	0.1829	0.1933	0.0100	52.8	50.0	5.7	50.0
Dichlorofluoromethane	Ave	0.5092	0.4382	0.0100	43.0	50.0	-14.0	50.0
Trichlorofluoromethane	Ave	0.4679	0.3779	0.0100	40.4	50.0	-19.2	50.0
Ethyl ether	Ave	0.2041	0.1851	0.0100	45.3	50.0	-9.4	50.0
Acrolein	Ave	0.0195	0.0153	0.0010	1570	2000	-21.3	50.0
1,1-Dichloroethene	Ave	0.2881	0.2395	0.0100	41.6	50.0	-16.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3031	0.2670	0.0100	44.0	50.0	-11.9	50.0
Acetone	Ave	0.0457	0.0445	0.0100	48.7	50.0	-2.7	50.0
Iodomethane	Ave	0.5313	0.4749	0.0100	44.7	50.0	-10.6	50.0
Carbon disulfide	Ave	0.9382	0.7623	0.0100	40.6	50.0	-18.7	50.0
3-Chloropropene	Ave	0.1713	0.1454	0.0100	42.5	50.0	-15.1	50.0
Methyl acetate	Ave	0.1207	0.1119	0.0100	92.7	100	-7.3	50.0
Methylene Chloride	Ave	0.2769	0.2560	0.0100	46.2	50.0	-7.5	50.0
tert-Butyl alcohol	Ave	1.215	1.193	0.0100	491	500	-1.8	50.0
Acrylonitrile	Ave	0.0633	0.0607	0.0010	479	500	-4.1	50.0
trans-1,2-Dichloroethene	Ave	0.3110	0.2703	0.0100	43.5	50.0	-13.1	50.0
Methyl tert-butyl ether	Ave	0.5416	0.4631	0.0100	42.8	50.0	-14.5	50.0
Hexane	Ave	0.5632	0.5310	0.0100	47.1	50.0	-5.7	50.0
1,1-Dichloroethane	Ave	0.5914	0.5262	0.1000	44.5	50.0	-11.0	50.0
Vinyl acetate	Ave	0.3658	0.3238	0.0100	44.3	50.0	-11.5	50.0
2,2-Dichloropropane	Ave	0.3456	0.3104	0.0100	44.9	50.0	-10.2	50.0
cis-1,2-Dichloroethene	Ave	0.3242	0.2922	0.0100	45.1	50.0	-9.9	50.0
Methyl Ethyl Ketone	Ave	0.0657	0.0620	0.0100	47.2	50.0	-5.7	50.0
Bromochloromethane	Ave	0.1324	0.1197	0.0100	45.2	50.0	-9.6	50.0
Tetrahydrofuran	Lin2		0.0436	0.0100	99.7	100	-0.3	50.0
Chloroform	Ave	0.4856	0.4202	0.0100	43.3	50.0	-13.5	20.0
1,1,1-Trichloroethane	Ave	0.4394	0.3759	0.0100	42.8	50.0	-14.5	50.0
Cyclohexane	Ave	0.7044	0.6541	0.0100	46.4	50.0	-7.1	50.0
1,1-Dichloropropene	Ave	0.3798	0.3522	0.0100	46.4	50.0	-7.3	50.0
Carbon tetrachloride	Ave	0.3906	0.3412	0.0100	43.7	50.0	-12.6	50.0
Isobutyl alcohol	Ave	0.5578	0.6342	0.0010	1420	1250	13.7	50.0
Benzene	Ave	1.089	1.043	0.0100	47.9	50.0	-4.2	50.0
1,2-Dichloroethane	Ave	0.3316	0.2878	0.0100	43.4	50.0	-13.2	50.0
Heptane	Ave	0.5573	0.5547	0.0100	49.8	50.0	-0.5	50.0
Trichloroethene	Ave	0.3137	0.2958	0.0100	47.2	50.0	-5.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: CCVIS 500-407133/2 Calibration Date: 10/26/2017 20:21

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1026P.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5880	0.5180	0.0100	44.1	50.0	-11.9	50.0
1,2-Dichloropropane	Ave	0.2883	0.2799	0.0100	48.5	50.0	-2.9	20.0
Dibromomethane	Ave	0.1168	0.1085	0.0100	46.4	50.0	-7.2	50.0
1,4-Dioxane	Ave	1.103	1.126	0.0010	1020	1000	2.1	50.0
Bromodichloromethane	Ave	0.2909	0.2622	0.0100	45.1	50.0	-9.9	50.0
2-Chloroethyl vinyl ether	Ave	0.1348	0.1207	0.0100	44.8	50.0	-10.5	50.0
cis-1,3-Dichloropropene	Ave	0.4961	0.4058	0.0100	40.9	50.0	-18.2	50.0
methyl isobutyl ketone	Ave	0.2066	0.1838	0.0100	44.5	50.0	-11.0	50.0
Toluene	Ave	0.9176	0.8517	0.0100	46.4	50.0	-7.2	20.0
trans-1,3-Dichloropropene	Ave	0.4013	0.3231	0.0100	40.3	50.0	-19.5	50.0
Ethyl methacrylate	Lin2		0.2313	0.0100	44.8	50.0	-10.5	50.0
1,1,2-Trichloroethane	Ave	0.2193	0.1860	0.0100	42.4	50.0	-15.2	50.0
Tetrachloroethene	Ave	0.4475	0.3989	0.0100	44.6	50.0	-10.9	50.0
1,3-Dichloropropane	Ave	0.3769	0.3359	0.0100	44.6	50.0	-10.9	50.0
2-Hexanone	Ave	0.1369	0.1258	0.0100	45.9	50.0	-8.1	50.0
Dibromochloromethane	Ave	0.2756	0.2292	0.0100	41.6	50.0	-16.9	50.0
1,2-Dibromoethane	Ave	0.2229	0.1846	0.0100	41.4	50.0	-17.2	50.0
Chlorobenzene	Ave	1.097	1.013	0.3000	46.1	50.0	-7.7	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3866	0.3239	0.0100	41.9	50.0	-16.2	50.0
Ethylbenzene	Ave	0.6185	0.5494	0.0100	44.4	50.0	-11.2	20.0
m&p-Xylene	Ave	1.475	1.332	0.0100	45.1	50.0	-9.7	50.0
o-Xylene	Ave	1.524	1.383	0.0100	45.4	50.0	-9.2	50.0
Styrene	Ave	1.179	1.086	0.0100	46.0	50.0	-7.9	50.0
Bromoform	Ave	0.1553	0.1236	0.1000	39.8	50.0	-20.4	50.0
Isopropylbenzene	Ave	3.722	3.357	0.0100	45.1	50.0	-9.8	50.0
Bromobenzene	Ave	0.8786	0.8109	0.0100	46.1	50.0	-7.7	50.0
1,1,2,2-Tetrachloroethane	Lin2		0.3647	0.3000	43.8	50.0	-12.4	50.0
1,2,3-Trichloropropane	Ave	0.4777	0.4003	0.0100	41.9	50.0	-16.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1690	0.1242	0.0100	36.7	50.0	-26.6	50.0
N-Propylbenzene	Ave	4.401	3.959	0.0100	45.0	50.0	-10.0	50.0
2-Chlorotoluene	Lin2		2.288	0.0100	49.5	50.0	-0.9	50.0
1,3,5-Trimethylbenzene	Ave	3.130	2.840	0.0100	45.4	50.0	-9.3	50.0
4-Chlorotoluene	Ave	2.908	2.611	0.0100	44.9	50.0	-10.2	50.0
tert-Butylbenzene	Ave	2.956	2.638	0.0100	44.6	50.0	-10.8	50.0
1,2,4-Trimethylbenzene	Ave	3.211	2.854	0.0100	44.4	50.0	-11.1	50.0
sec-Butylbenzene	Ave	4.234	3.668	0.0100	43.3	50.0	-13.4	50.0
1,3-Dichlorobenzene	Ave	1.800	1.594	0.0100	44.3	50.0	-11.4	50.0
p-Isopropyltoluene	Ave	3.706	3.222	0.0100	43.5	50.0	-13.0	50.0
1,4-Dichlorobenzene	Ave	1.744	1.557	0.0100	44.6	50.0	-10.7	50.0
1,2-Dichlorobenzene	Ave	1.522	1.362	0.0100	44.7	50.0	-10.5	50.0
n-Butylbenzene	Ave	3.228	2.727	0.0100	42.2	50.0	-15.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: CCVIS 500-407133/2 Calibration Date: 10/26/2017 20:21

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1026P.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0647	0.0444	0.0100	34.3	50.0	-31.4	50.0
1,2,4-Trichlorobenzene	Ave	1.036	0.8551	0.0100	41.3	50.0	-17.4	50.0
Hexachlorobutadiene	Ave	0.7098	0.6098	0.0100	43.0	50.0	-14.1	50.0
Naphthalene	Ave	1.457	1.175	0.0100	40.3	50.0	-19.4	50.0
1,2,3-Trichlorobenzene	Ave	0.7991	0.6725	0.0100	42.1	50.0	-15.8	50.0
Dibromofluoromethane	Ave	0.2646	0.2442	0.0100	46.1	50.0	-7.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.2228	0.0100	43.1	50.0	-13.9	50.0
Toluene-d8 (Surr)	Ave	1.370	1.239	0.0100	45.2	50.0	-9.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.9006	0.0100	45.6	50.0	-8.7	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18C1026P.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Oct-2017 20:21:30 ALS Bottle#: 30 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 500-0048640-002
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 26-Oct-2017 21:15:32 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: petruszakj Date: 26-Oct-2017 21:15:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.570	0.000	86	150128	50.0	34.2	
2 Chloromethane	50	1.790	1.790	0.000	89	290956	50.0	46.4	
3 Vinyl chloride	62	1.918	1.918	0.000	82	221411	50.0	41.2	
4 Butadiene	39	1.955	1.955	0.000	90	247961	50.0	40.5	
5 Bromomethane	94	2.276	2.276	0.000	90	100527	50.0	56.1	
6 Chloroethane	64	2.383	2.383	0.000	93	141410	50.0	52.8	
7 Dichlorofluoromethane	67	2.624	2.624	0.000	83	320586	50.0	43.0	
8 Trichlorofluoromethane	101	2.672	2.672	0.000	79	276475	50.0	40.4	
10 Ethyl ether	59	2.972	2.972	0.000	99	135398	50.0	45.3	
11 Acrolein	56	3.095	3.095	0.000	96	448126	2000.0	1573.4	
12 1,1-Dichloroethene	96	3.186	3.186	0.000	85	175207	50.0	41.6	
13 1,1,2-Trichloro-1,2,2-trif	101	3.229	3.229	0.000	82	195354	50.0	44.0	
14 Acetone	43	3.261	3.261	0.000	95	32558	50.0	48.7	
15 Iodomethane	142	3.330	3.330	0.000	96	347456	50.0	44.7	
16 Carbon disulfide	76	3.400	3.400	0.000	100	557764	50.0	40.6	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	91	106394	50.0	42.5	
20 Methyl acetate	43	3.592	3.592	0.000	97	163774	100.0	92.7	
21 Methylene Chloride	84	3.683	3.683	0.000	92	187308	50.0	46.2	
* 22 TBA-d9 (IS)	65	3.748	3.748	0.000	0	125715	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.828	3.828	0.000	97	75015	500.0	491.0	
24 Acrylonitrile	53	3.935	3.935	0.000	98	443872	500.0	479.3	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	90	197798	50.0	43.5	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	338848	50.0	42.8	
27 Hexane	57	4.250	4.250	0.000	94	388511	50.0	47.1	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	384996	50.0	44.5	
29 Vinyl acetate	43	4.448	4.448	0.000	100	236903	50.0	44.3	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	58	227099	50.0	44.9	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	85	213762	50.0	45.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.989	0.000	40	45368	50.0	47.2	
39 Chlorobromomethane	128	5.213	5.213	0.000	91	87599	50.0	45.2	
40 Tetrahydrofuran	42	5.262	5.262	0.000	93	63835	100.0	99.7	
41 Chloroform	83	5.294	5.294	0.000	97	307426	50.0	43.3	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	68	178671	50.0	46.1	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	90	275018	50.0	42.8	
44 Cyclohexane	56	5.545	5.545	0.000	92	478604	50.0	46.4	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	89	257682	50.0	46.4	
46 Carbon tetrachloride	117	5.652	5.652	0.000	71	249655	50.0	43.7	
47 Isobutyl alcohol	43	5.764	5.764	0.000	96	99661	1250.0	1421.3	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	162989	50.0	43.1	
49 Benzene	78	5.861	5.861	0.000	95	763212	50.0	47.9	
50 1,2-Dichloroethane	62	5.871	5.871	0.000	56	210586	50.0	43.4	
53 n-Heptane	43	6.134	6.134	0.000	80	405867	50.0	49.8	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	94	731689	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	88	216428	50.0	47.2	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	379021	50.0	44.1	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	93	204773	50.0	48.5	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	16078	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	86	79375	50.0	46.4	
64 1,4-Dioxane	88	6.888	6.888	0.000	72	18109	1000.0	1021.1	
65 Dichlorobromomethane	83	7.032	7.032	0.000	92	191809	50.0	45.1	
67 2-Chloroethyl vinyl ether	63	7.348	7.348	0.000	90	68746	50.0	44.8	
68 cis-1,3-Dichloropropene	75	7.508	7.508	0.000	89	231098	50.0	40.9	
69 4-Methyl-2-pentanone (MIBK	43	7.669	7.669	0.000	96	104697	50.0	44.5	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	705439	50.0	45.2	
71 Toluene	92	7.872	7.872	0.000	93	485069	50.0	46.4	
72 trans-1,3-Dichloropropene	75	8.102	8.102	0.000	93	184011	50.0	40.3	
73 Ethyl methacrylate	69	8.209	8.209	0.000	84	131736	50.0	44.8	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	92	105912	50.0	42.4	
75 Tetrachloroethene	166	8.471	8.471	0.000	89	227190	50.0	44.6	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	98	191340	50.0	44.6	
77 2-Hexanone	43	8.584	8.584	0.000	97	71646	50.0	45.9	
79 Chlorodibromomethane	129	8.744	8.744	0.000	88	130513	50.0	41.6	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	105158	50.0	41.4	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	84	569562	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	576749	50.0	46.1	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	89	184475	50.0	41.9	
85 Ethylbenzene	106	9.584	9.584	0.000	99	312926	50.0	44.4	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	0	758612	50.0	45.1	
87 o-Xylene	91	10.296	10.296	0.000	93	787795	50.0	45.4	
88 Styrene	104	10.317	10.317	0.000	94	618510	50.0	46.0	
89 Bromoform	173	10.590	10.590	0.000	96	70405	50.0	39.8	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	1008343	50.0	45.1	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	94	270487	50.0	45.6	
94 Bromobenzene	156	11.387	11.387	0.000	91	243537	50.0	46.1	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.398	0.000	65	109525	50.0	43.8	
96 1,2,3-Trichloropropane	75	11.457	11.457	0.000	46	120212	50.0	41.9	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	33	37288	50.0	36.7	
98 N-Propylbenzene	91	11.585	11.585	0.000	98	1189125	50.0	45.0	
99 2-Chlorotoluene	91	11.697	11.697	0.000	98	687224	50.0	49.5	
100 1,3,5-Trimethylbenzene	105	11.858	11.858	0.000	88	852858	50.0	45.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.863	11.863	0.000	89	784104	50.0	44.9	
103 tert-Butylbenzene	119	12.323	12.323	0.000	92	792160	50.0	44.6	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	857094	50.0	44.4	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	1101573	50.0	43.3	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	478852	50.0	44.3	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	96	967855	50.0	43.5	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	82	300345	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	90	467488	50.0	44.6	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	76	409022	50.0	44.7	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	818951	50.0	42.2	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	54	13320	50.0	34.3	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	256816	50.0	41.3	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	95	183147	50.0	43.0	
119 Naphthalene	128	15.303	15.303	0.000	99	352799	50.0	40.3	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	93	201984	50.0	42.1	
S 123 Xylenes, Total	100				0		100.0	90.5	
S 127 1,2-Dichloroethene, Total	96				0		100.0	88.5	

Reagents:

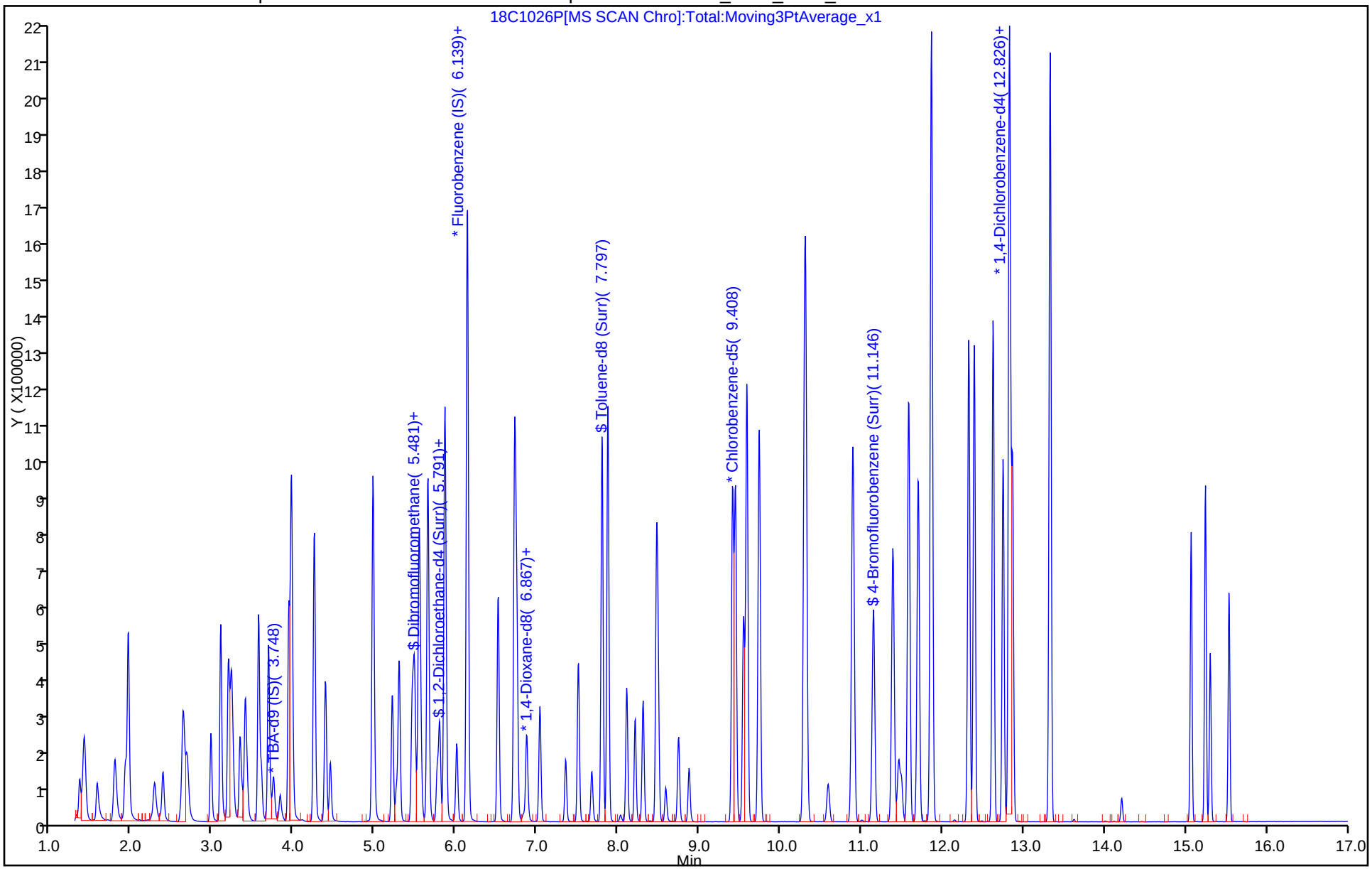
8260/624KETWK_00282	Amount Added:	2.50	Units: uL	
8260/624GASWK_00475	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00358	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00297	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00416	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 26-Oct-2017 21:15:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18C1026P.d

Injection Date:	26-Oct-2017 20:21:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



11/16/2017

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: CCV 500-407133/3 Calibration Date: 10/26/2017 20:46

Instrument ID: CMS18 Calib Start Date: 06/30/2017 18:41

GC Column: DB624 ID: 0.20(mm) Calib End Date: 06/30/2017 22:00

Lab File ID: 18D1026P.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.1910	0.0010	2230	2000	11.6	50.0
Isopropyl alcohol	Ave	0.9581	0.9193	0.0010	480	500	-4.1	50.0
Acetonitrile	Ave	0.0230	0.0200	0.0010	435	500	-13.1	50.0
Isopropyl ether	Ave	1.174	1.035	0.0100	44.1	50.0	-11.8	50.0
2-Chloro-1,3-butadiene	Ave	0.6406	0.5750	0.0100	44.9	50.0	-10.2	50.0
Tert-butyl ethyl ether	Ave	0.8952	0.7437	0.0010	41.5	50.0	-16.9	50.0
Propionitrile	Ave	0.0219	0.0205	0.0010	468	500	-6.3	50.0
Ethyl acetate	Ave	0.1396	0.1278	0.0100	91.5	100	-8.5	50.0
Methacrylonitrile	Ave	0.1095	0.1023	0.0100	467	500	-6.6	50.0
Isooctane	Ave	1.641	1.600	0.0100	48.7	50.0	-2.5	50.0
Tert-amyl methyl ether	Ave	0.5850	0.4766	0.0100	40.7	50.0	-18.5	50.0
n-Butyl alcohol	Ave	0.3693	0.3711	0.0010	1260	1250	0.5	50.0
Ethyl acrylate	Ave	0.1844	0.1903	0.0010	51.6	50.0	3.2	50.0
2,3-Dichloro-1-propene	Ave	0.3684	0.3616	0.0010	49.1	50.0	-1.8	50.0
Methyl methacrylate	Ave	0.1493	0.1385	0.0100	92.8	100	-7.2	50.0
2-Nitropropane	Ave	0.0682	0.0380	0.0100	55.7	100	-44.3	50.0
n-Butyl acetate	Ave	0.4169	0.3067	0.0010	36.8	50.0	-26.4	50.0
1-Chlorohexane	Ave	0.5127	0.5133	0.0100	50.1	50.0	0.1	50.0
Cyclohexanone	Ave	0.0135	0.0112	0.0100	4170	5000	-16.6	50.0
2-Ethyltoluene	Ave	3.530	3.551	0.0010	50.3	50.0	0.6	50.0
Pentachloroethane	Ave	0.3740	0.3345	0.0100	44.7	50.0	-10.5	50.0
1,2,3-Trimethylbenzene	Ave	2.786	2.873	0.0010	51.6	50.0	3.1	50.0
Benzyl chloride	Ave	0.1985	0.1063	0.0010	26.8	50.0	-46.4	50.0
1,3,5-Trichlorobenzene	Ave	1.227	1.208	0.0100	49.2	50.0	-1.5	50.0
2-Methylnaphthalene	Lin1		0.3750	0.0100	26.4	50.0	-47.2	50.0
1-Methylnaphthalene	Lin1		0.3047	0.0100	29.2	50.0	-41.6	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18D1026P.d
Lims ID: CCV IX
Client ID:
Sample Type: CCV
Inject. Date: 26-Oct-2017 20:46:30 ALS Bottle#: 31 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV IX
Misc. Info.: 500-0048640-003
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub50
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 26-Oct-2017 21:16:38 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: petruszakj Date: 26-Oct-2017 21:16:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.902	2.908	-0.006	93	45911	2000.0	2231.9	
17 Isopropyl alcohol	45	3.427	3.427	0.000	96	55246	500.0	479.7	
18 Acetonitrile	41	3.534	3.534	0.000	99	144943	500.0	434.6	
* 22 TBA-d9 (IS)	65	3.742	3.748	-0.006	0	120197	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	97	751991	50.0	44.1	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	84	417601	50.0	44.9	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	98	540158	50.0	41.5	
36 Propionitrile	54	5.048	5.042	0.006	99	149199	500.0	468.4	
37 Ethyl acetate	43	5.058	5.053	0.005	99	185688	100.0	91.5	
38 Methacrylonitrile	41	5.203	5.203	0.000	96	742780	500.0	467.1	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	175461	50.0	45.6	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	163587	50.0	43.5	
51 Isooctane	57	5.946	5.946	0.000	97	1161919	50.0	48.7	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	88	346146	50.0	40.7	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	726330	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	94	55758	1250.0	1256.1	
57 Ethyl acrylate	55	6.626	6.626	0.000	97	138192	50.0	51.6	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	94	262656	50.0	49.1	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	15473	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	0.000	95	201170	100.0	92.8	
66 2-Nitropropane	43	7.268	7.268	0.000	93	43631	100.0	55.7	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	703774	50.0	44.7	
78 n-Butyl acetate	43	8.728	8.728	0.000	97	176285	50.0	36.8	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	574811	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	90	295026	50.0	50.1	
91 Cyclohexanone	55	11.034	11.034	0.000	90	327465	5000.0	4171.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	92	269237	50.0	46.8	
102 2-Ethyltoluene	105	12.147	12.147	0.000	98	1034070	50.0	50.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Pentachloroethane	167	12.334	12.334	0.000	86	97422	50.0	44.7	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	94	291216	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	94	836529	50.0	51.6	
112 Benzyl chloride	126	13.040	13.046	-0.006	98	30959	50.0	26.8	
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	97	351839	50.0	49.2	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	88	109207	50.0	26.4	
122 1-Methylnaphthalene	142	16.544	16.539	0.005	92	88741	50.0	29.2	

Reagents:

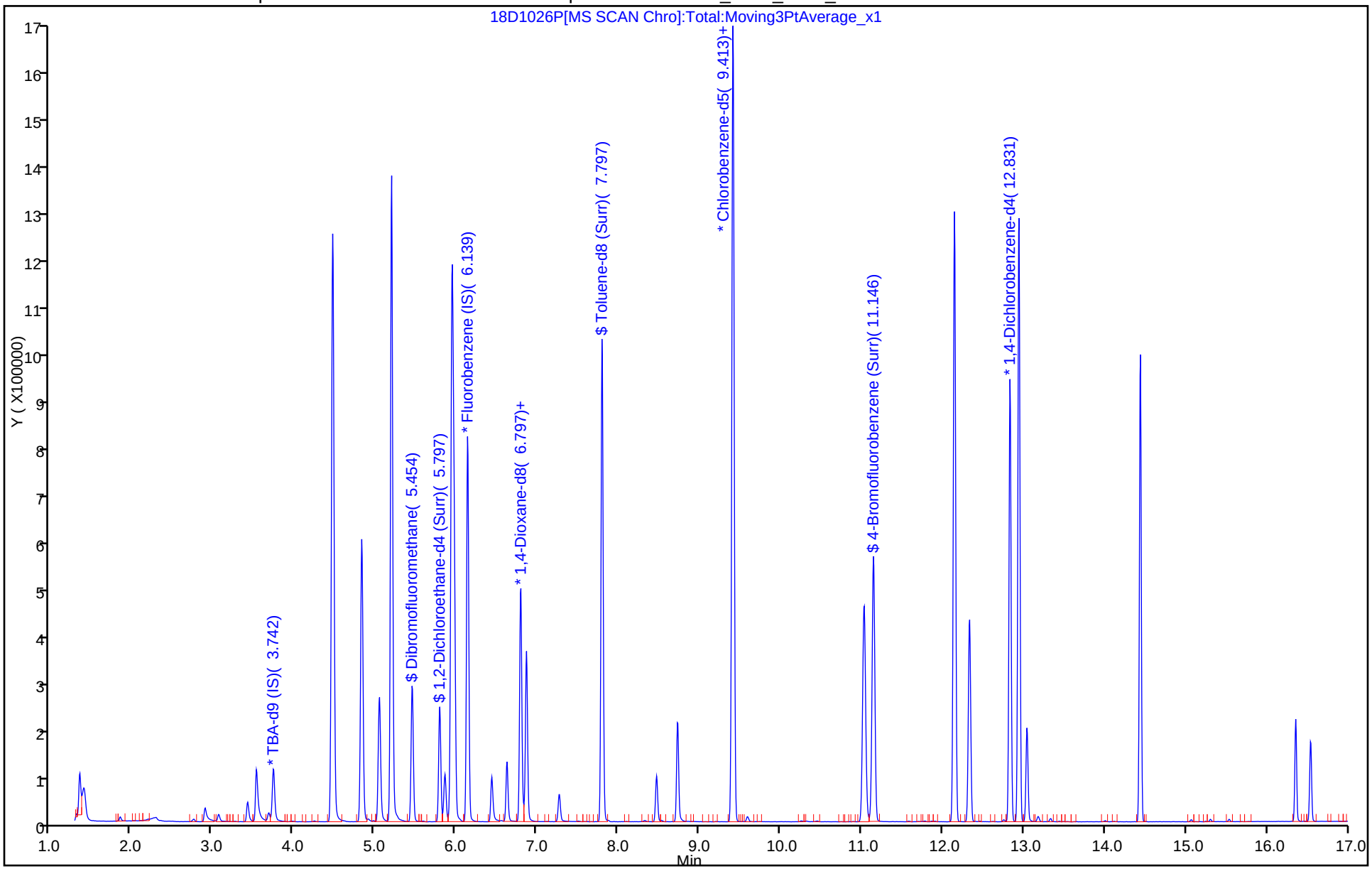
8260 23DCP WK_00105	Amount Added:	2.50	Units: uL	
8260/624STD2_00171	Amount Added:	2.50	Units: uL	
8260ADDS 2016_00055	Amount Added:	2.50	Units: uL	
8260CYCHXWK_00176	Amount Added:	2.50	Units: uL	
8260POLR ADDS_00130	Amount Added:	2.50	Units: uL	
2ETTOL WK STD_00040	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 26-Oct-2017 21:16:39 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18D1026P.d

Injection Date:	26-Oct-2017 20:46:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	CCV IX			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: CCV 500-407133/3 Calibration Date: 10/26/2017 20:46

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18D1026P.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.2646	0.2416	0.0100	45.6	50.0	-8.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.2252	0.0100	43.5	50.0	-12.9	50.0
Toluene-d8 (Surr)	Ave	1.370	1.224	0.0100	44.7	50.0	-10.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.9245	0.0100	46.8	50.0	-6.3	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18D1026P.d
Lims ID: CCV IX
Client ID:
Sample Type: CCV
Inject. Date: 26-Oct-2017 20:46:30 ALS Bottle#: 31 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV IX
Misc. Info.: 500-0048640-003
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub50
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 26-Oct-2017 21:16:38 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: petruszakj Date: 26-Oct-2017 21:16:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.902	2.908	-0.006	93	45911	2000.0	2231.9	
17 Isopropyl alcohol	45	3.427	3.427	0.000	96	55246	500.0	479.7	
18 Acetonitrile	41	3.534	3.534	0.000	99	144943	500.0	434.6	
* 22 TBA-d9 (IS)	65	3.742	3.748	-0.006	0	120197	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	97	751991	50.0	44.1	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	84	417601	50.0	44.9	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	98	540158	50.0	41.5	
36 Propionitrile	54	5.048	5.042	0.006	99	149199	500.0	468.4	
37 Ethyl acetate	43	5.058	5.053	0.005	99	185688	100.0	91.5	
38 Methacrylonitrile	41	5.203	5.203	0.000	96	742780	500.0	467.1	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	175461	50.0	45.6	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	163587	50.0	43.5	
51 Isooctane	57	5.946	5.946	0.000	97	1161919	50.0	48.7	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	88	346146	50.0	40.7	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	726330	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	94	55758	1250.0	1256.1	
57 Ethyl acrylate	55	6.626	6.626	0.000	97	138192	50.0	51.6	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	94	262656	50.0	49.1	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	15473	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	0.000	95	201170	100.0	92.8	
66 2-Nitropropane	43	7.268	7.268	0.000	93	43631	100.0	55.7	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	703774	50.0	44.7	
78 n-Butyl acetate	43	8.728	8.728	0.000	97	176285	50.0	36.8	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	574811	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	90	295026	50.0	50.1	
91 Cyclohexanone	55	11.034	11.034	0.000	90	327465	5000.0	4171.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	92	269237	50.0	46.8	
102 2-Ethyltoluene	105	12.147	12.147	0.000	98	1034070	50.0	50.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Pentachloroethane	167	12.334	12.334	0.000	86	97422	50.0	44.7	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	94	291216	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.944	0.000	94	836529	50.0	51.6	
112 Benzyl chloride	126	13.040	13.046	-0.006	98	30959	50.0	26.8	
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	97	351839	50.0	49.2	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	88	109207	50.0	26.4	
122 1-Methylnaphthalene	142	16.544	16.539	0.005	92	88741	50.0	29.2	

Reagents:

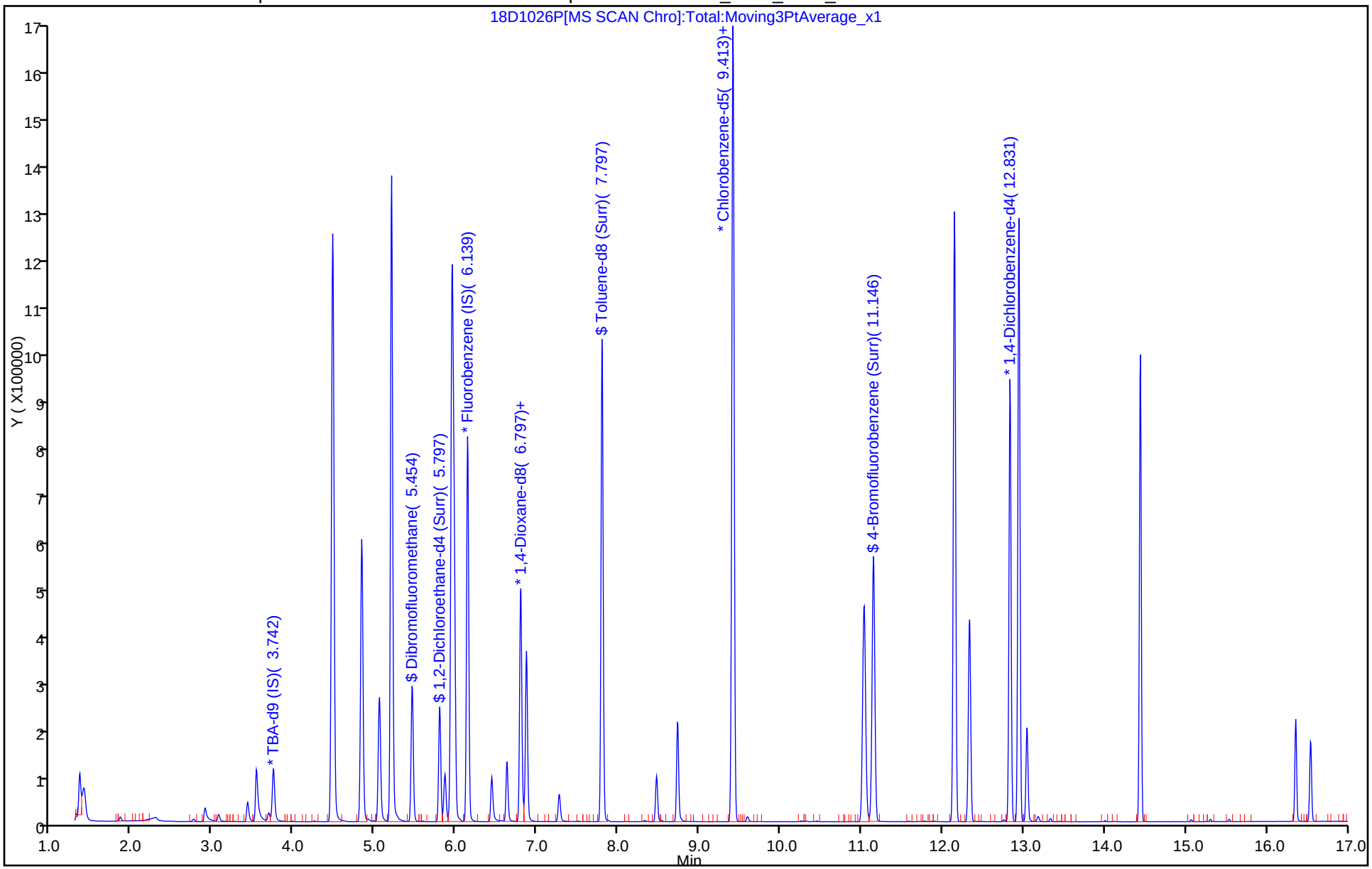
8260 23DCP WK_00105	Amount Added:	2.50	Units: uL	
8260/624STD2_00171	Amount Added:	2.50	Units: uL	
8260ADDS 2016_00055	Amount Added:	2.50	Units: uL	
8260CYCHXWK_00176	Amount Added:	2.50	Units: uL	
8260POLR ADDS_00130	Amount Added:	2.50	Units: uL	
2ETTOL WK STD_00040	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 26-Oct-2017 21:16:39 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18D1026P.d

Injection Date:	26-Oct-2017 20:46:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	CCV IX			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



11/16/2017

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Jul-2017 12:47:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	500-0046351-001				
Operator ID:	EA	Instrument ID:	CMS18		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Method Label:	TAL Chicago VOA Report				
Last Update:	05-Jul-2017 13:09:31	Calib Date:	30-Jun-2017 22:00:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK024				
First Level Reviewer: alikpalae		Date:	05-Jul-2017 13:09:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 93 BFB	95	11.146	11.146	0.000	89	61346	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

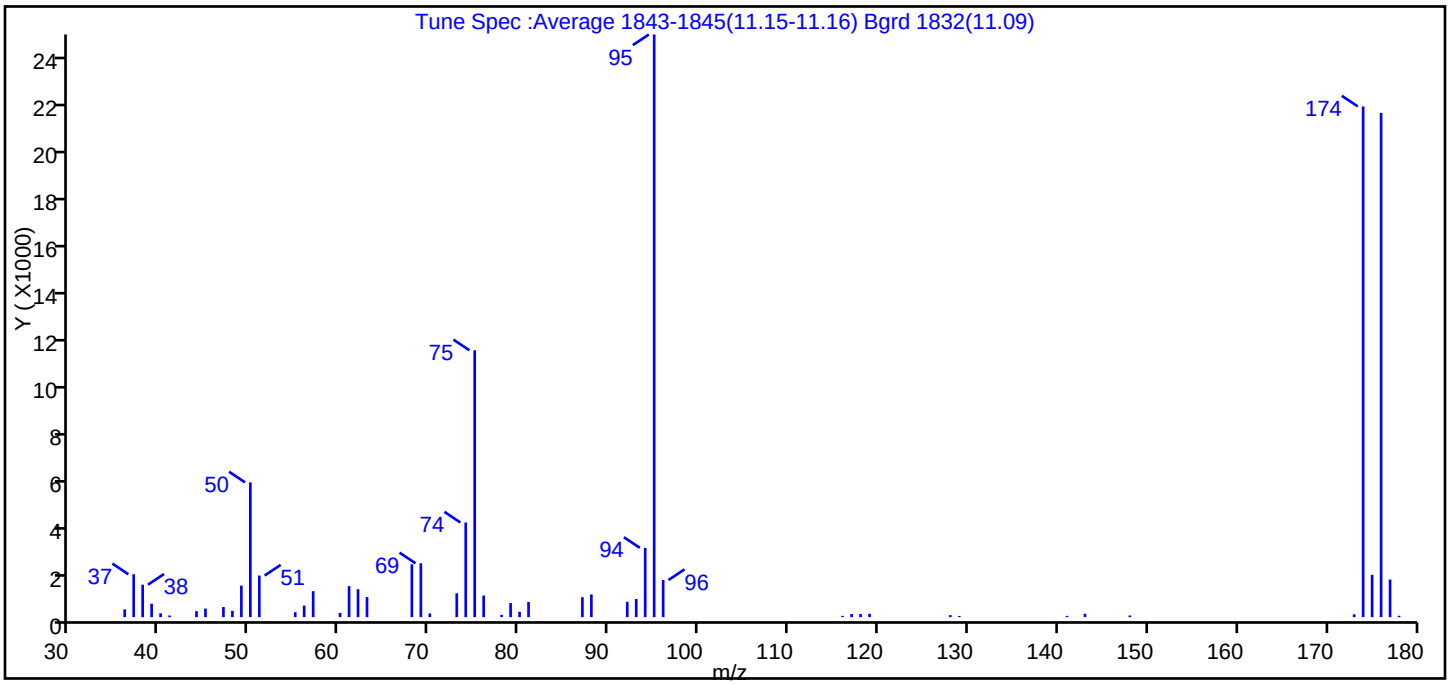
BFB STD WK_00154 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d
Injection Date: 05-Jul-2017 12:47:30 Instrument ID: CMS18
Lims ID: BFB
Client ID:
Operator ID: EA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W18cps Limit Group: MSVOA_8260_ICAL_WATER
Tune Method: BFB Method 8260

$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.1
75	30 to 60% of m/z 95	45.8
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	87.6
175	5 to 9% of m/z 174	7.3 (8.3)
176	Greater than 95% but less than 101% of m/z 174	86.5 (98.7)
177	5 to 9% of m/z 176	6.5 (7.5)

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d\8260W18cps.rslt\spectra.d
Injection Date: 05-Jul-2017 12:47:30
Spectrum: Tune Spec :Average 1843-1845(11.15-11.16) Bgrd 1832(11.09)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 53

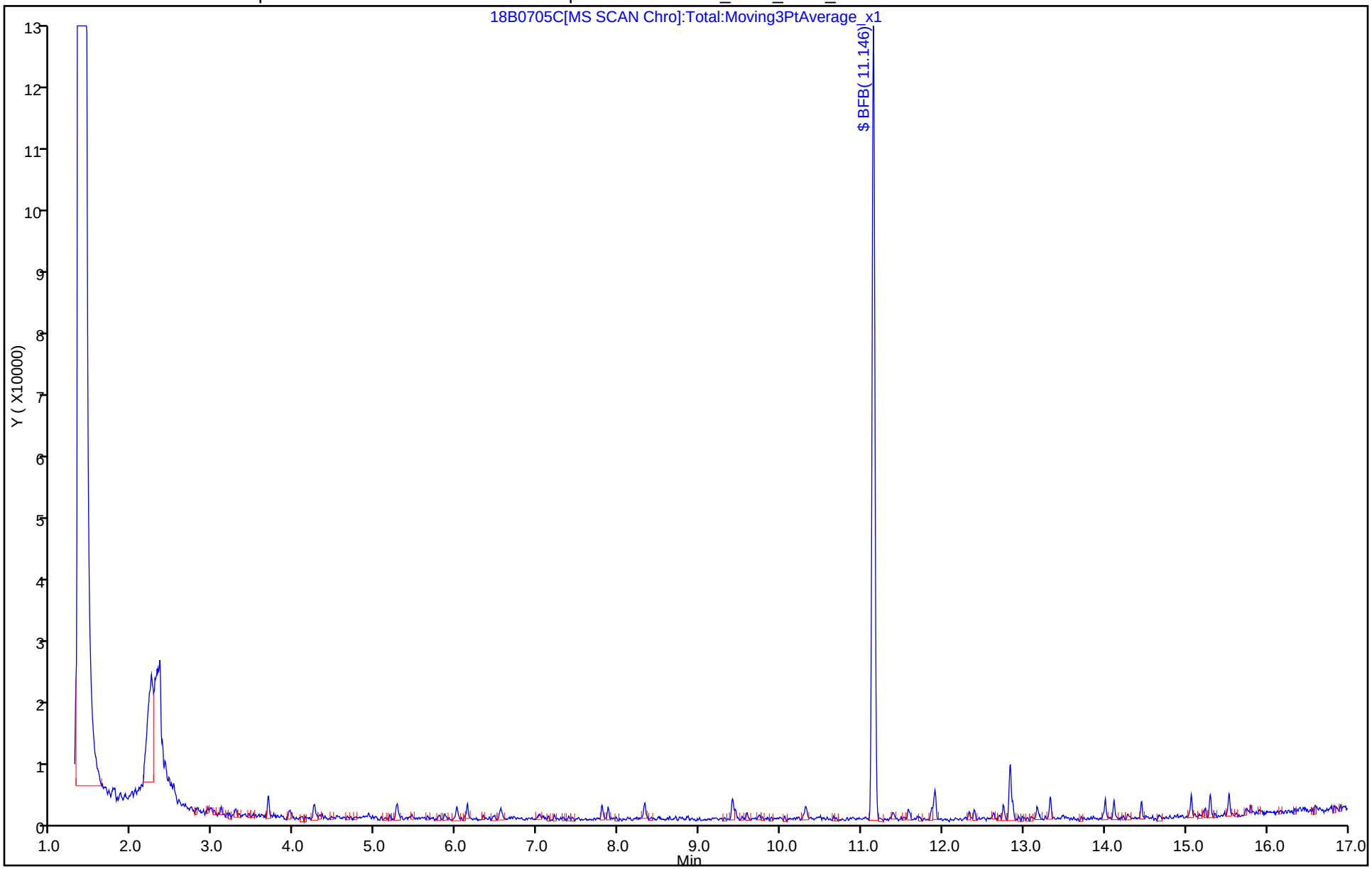
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	320	56.00	478	79.00	580	128.00	83
37.00	1768	57.00	1071	80.00	220	129.00	50
38.00	1338	60.00	176	81.00	629	141.00	53
39.00	553	61.00	1278	87.00	822	143.00	139
40.00	160	62.00	1152	88.00	936	148.00	69
41.00	67	63.00	827	92.00	632	173.00	116
44.00	247	68.00	2180	93.00	748	174.00	21056
45.00	353	69.00	2220	94.00	2856	175.00	1746
47.00	417	70.00	153	95.00	24024	176.00	20792
48.00	260	73.00	982	96.00	1530	177.00	1552
49.00	1300	74.00	3902	116.00	54	178.00	56
50.00	5557	75.00	11004	117.00	128		
51.00	1715	76.00	891	118.00	126		
55.00	203	78.00	95	119.00	137		

Report Date: 05-Jul-2017 13:09:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d

Injection Date:	05-Jul-2017 12:47:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18B1026P.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	26-Oct-2017 19:40:30	ALS Bottle#:	29	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	500-0048640-001				
Operator ID:	JH	Instrument ID:	CMS18		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\8260W18cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Method Label:	TAL Chicago VOA Report				
Last Update:	26-Oct-2017 20:04:26	Calib Date:	05-Jul-2017 17:12:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK051				
First Level Reviewer: petruszakj		Date:	26-Oct-2017 20:04:26		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 93 BFB	95	11.146	11.146	0.000	93	42148	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

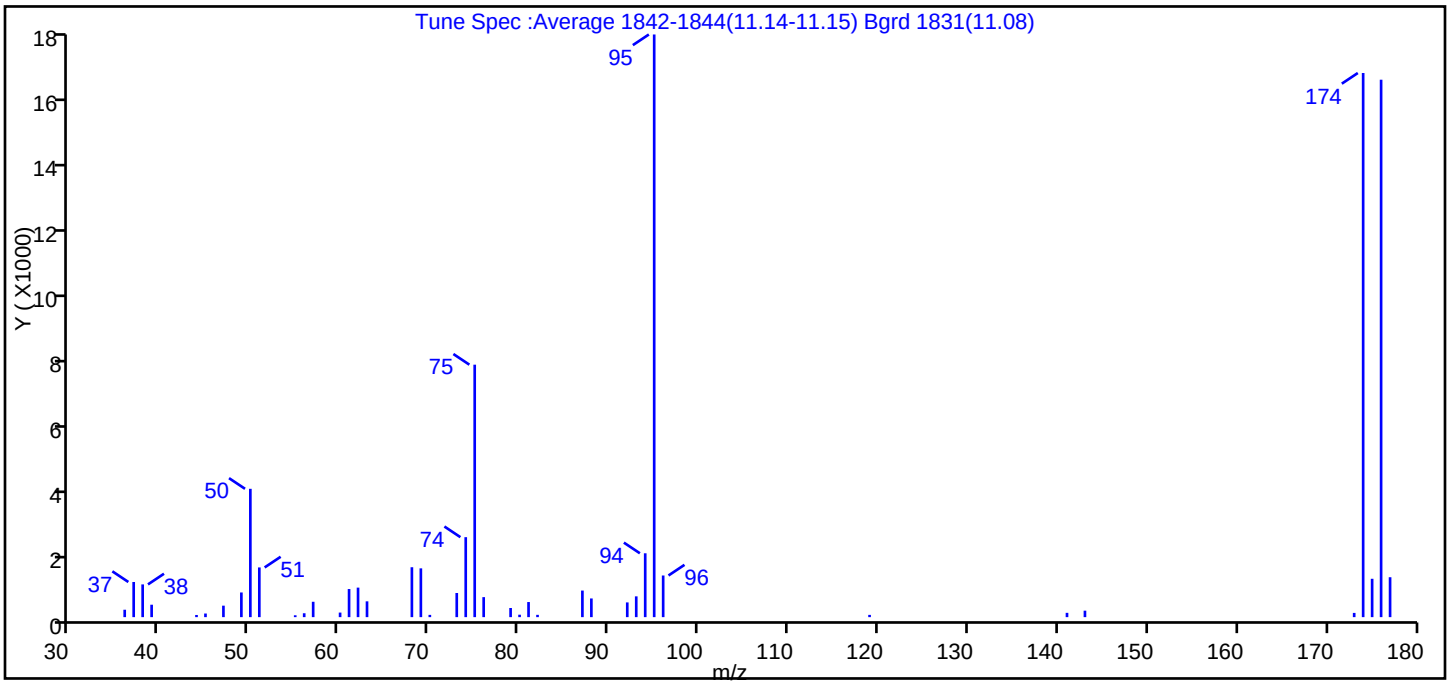
BFB STD WK_00166 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18B1026P.d
Injection Date: 26-Oct-2017 19:40:30 Instrument ID: CMS18
Lims ID: BFB
Client ID:
Operator ID: JH ALS Bottle#: 29 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W18cps Limit Group: MSVOA_8260_ICAL_WATER
Tune Method: BFB Method 8260

$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.0
75	30 to 60% of m/z 95	43.3
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.7 (0.8)
174	50 to 120% of m/z 95	93.4
175	5 to 9% of m/z 174	6.6 (7.1)
176	Greater than 95% but less than 101% of m/z 174	92.2 (98.8)
177	5 to 9% of m/z 176	6.9 (7.4)

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18B1026P.d\8260W18cps.rslt\spectra.d
Injection Date: 26-Oct-2017 19:40:30
Spectrum: Tune Spec :Average 1842-1844(11.14-11.15) Bgrd 1831(11.08)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 43

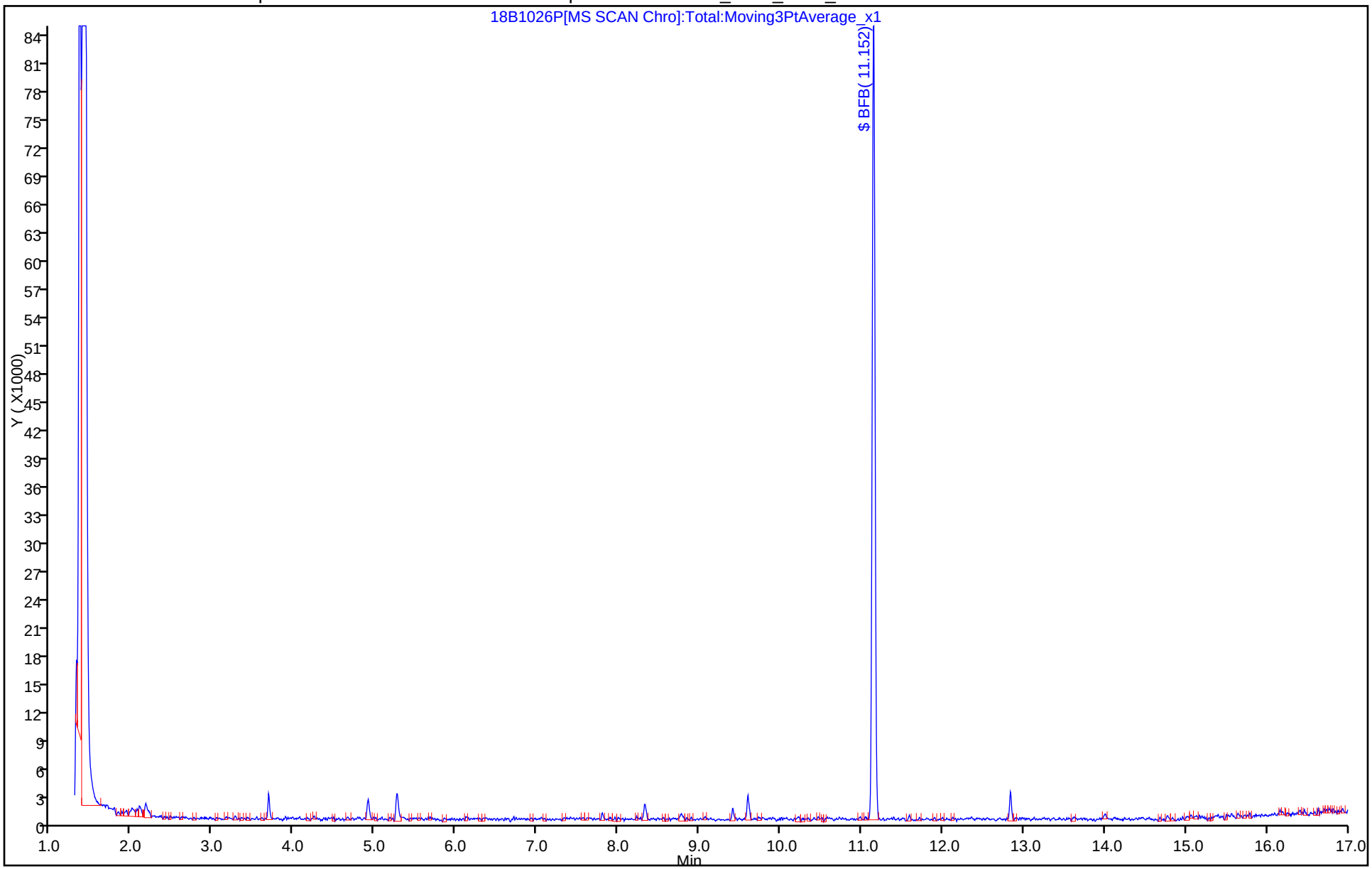
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	219	56.00	115	75.00	7456	95.00	17208
37.00	1038	57.00	454	76.00	591	96.00	1230
38.00	967	60.00	135	79.00	270	119.00	67
39.00	367	61.00	830	80.00	72	141.00	127
44.00	64	62.00	872	81.00	446	143.00	191
45.00	107	63.00	467	82.00	68	173.00	125
47.00	339	68.00	1474	87.00	785	174.00	16070
49.00	729	69.00	1441	88.00	552	175.00	1133
50.00	3790	70.00	67	92.00	435	176.00	15872
51.00	1468	73.00	713	93.00	614	177.00	1179
55.00	55	74.00	2362	94.00	1886		

Report Date: 26-Oct-2017 20:04:27 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18B1026P.d

Injection Date:	26-Oct-2017 19:40:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-407133/6

Matrix: Water | Lab File ID: 18M1026P.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 22:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407133 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	<2.0		2.0	0.67
74-87-3	Chloromethane	<1.0		1.0	0.32
75-01-4	Vinyl chloride	<0.50		0.50	0.20
74-83-9	Bromomethane	<2.0		2.0	0.80
75-00-3	Chloroethane	<1.0		1.0	0.51
75-69-4	Trichlorofluoromethane	<1.0		1.0	0.43
75-35-4	1,1-Dichloroethene	<1.0		1.0	0.39
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46
67-64-1	Acetone	<5.0		5.0	1.7
75-15-0	Carbon disulfide	<2.0		2.0	0.45
79-20-9	Methyl acetate	<5.0		5.0	2.0
75-09-2	Methylene Chloride	<5.0		5.0	1.6
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0	0.35
1634-04-4	Methyl tert-butyl ether	<1.0		1.0	0.39
75-34-3	1,1-Dichloroethane	<1.0		1.0	0.41
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0	0.41
78-93-3	Methyl Ethyl Ketone	<5.0		5.0	2.1
67-66-3	Chloroform	<2.0		2.0	0.37
71-55-6	1,1,1-Trichloroethane	<1.0		1.0	0.38
110-82-7	Cyclohexane	<1.0		1.0	0.49
56-23-5	Carbon tetrachloride	<1.0		1.0	0.38
71-43-2	Benzene	<0.50		0.50	0.15
107-06-2	1,2-Dichloroethane	<1.0		1.0	0.39
79-01-6	Trichloroethene	<0.50		0.50	0.16
108-87-2	Methylcyclohexane	<1.0		1.0	0.32
78-87-5	1,2-Dichloropropane	<1.0		1.0	0.43
75-27-4	Bromodichloromethane	<1.0		1.0	0.37
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0	0.42
108-10-1	methyl isobutyl ketone	<5.0		5.0	2.2
108-88-3	Toluene	<0.50		0.50	0.15
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0	0.36
79-00-5	1,1,2-Trichloroethane	<1.0		1.0	0.35
127-18-4	Tetrachloroethene	<1.0		1.0	0.37
591-78-6	2-Hexanone	<5.0		5.0	1.6
124-48-1	Dibromochloromethane	<1.0		1.0	0.49

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-407133/6

Matrix: Water | Lab File ID: 18M1026P.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 22:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407133 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	<1.0		1.0	0.39
108-90-7	Chlorobenzene	<1.0		1.0	0.39
100-41-4	Ethylbenzene	<0.50		0.50	0.18
1330-20-7	Xylenes, Total	<1.0		1.0	0.22
100-42-5	Styrene	<1.0		1.0	0.39
75-25-2	Bromoform	<1.0		1.0	0.48
98-82-8	Isopropylbenzene	<1.0		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40
541-73-1	1,3-Dichlorobenzene	<1.0		1.0	0.40
106-46-7	1,4-Dichlorobenzene	<1.0		1.0	0.36
95-50-1	1,2-Dichlorobenzene	<1.0		1.0	0.33
96-12-8	1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0
120-82-1	1,2,4-Trichlorobenzene	<1.0		1.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		75-126
2037-26-5	Toluene-d8 (Surr)	90		75-120
460-00-4	4-Bromofluorobenzene (Surr)	95		72-124
1868-53-7	Dibromofluoromethane	90		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18M1026P.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 26-Oct-2017 22:02:30 ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500-0048640-006
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 26-Oct-2017 22:41:07 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: petruszakj Date: 26-Oct-2017 22:41:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 22 TBA-d9 (IS)	65	3.748	3.748	0.000	0	136203	1000.0	1000.0	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	172876	50.0	44.8	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	165882	50.0	44.0	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	728518	50.0	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	18526	1000.0	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.798	7.797	0.001	94	723878	50.0	45.2	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	84	585262	50.0	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	94	263200	50.0	47.6	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.831	0.001	94	280381	50.0	50.0	

Reagents:

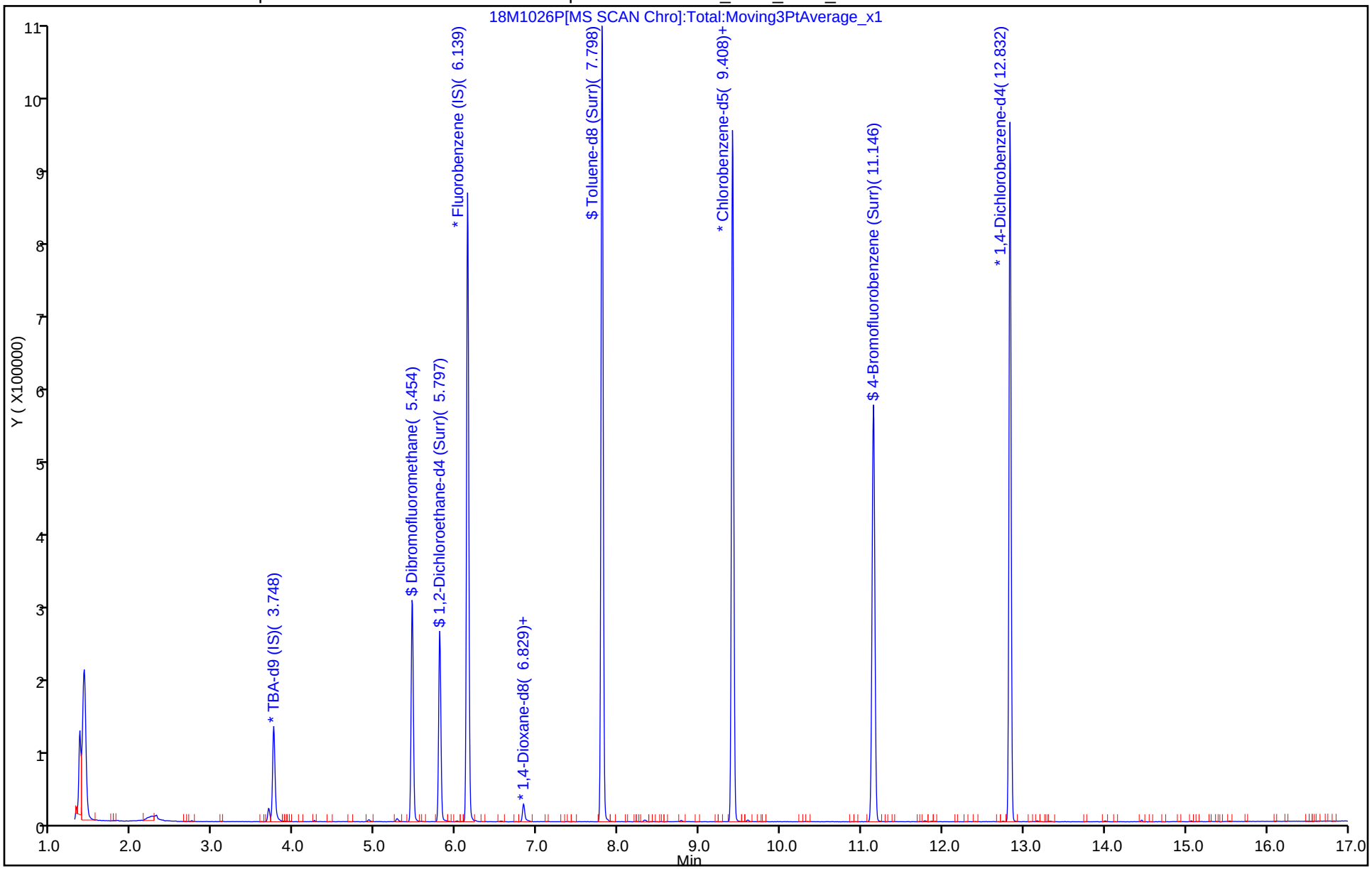
8260LOW IS/SS_00155 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 26-Oct-2017 22:41:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18M1026P.d

Injection Date:	26-Oct-2017 22:02:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



11/16/2017

TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18M1026P.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 26-Oct-2017 22:02:30 ALS Bottle#: 34 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500-0048640-006
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 26-Oct-2017 22:41:07 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: petruszakj Date: 26-Oct-2017 22:41:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	44.8	89.68
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	44.0	88.03
$ 70 Toluene-d8 (Surr)	50.0	45.2	90.31
$ 92 4-Bromofluorobenzene (Surr)	50.0	47.6	95.13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-407133/4

Matrix: Water | Lab File ID: 18S1026P.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 21:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407133 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	32.1		2.0	0.67
74-87-3	Chloromethane	45.8		1.0	0.32
75-01-4	Vinyl chloride	37.7		0.50	0.20
74-83-9	Bromomethane	54.6		2.0	0.80
75-00-3	Chloroethane	49.0		1.0	0.51
75-69-4	Trichlorofluoromethane	37.6		1.0	0.43
75-35-4	1,1-Dichloroethene	43.8		1.0	0.39
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	45.9		1.0	0.46
67-64-1	Acetone	50.1		5.0	1.7
75-15-0	Carbon disulfide	42.4		2.0	0.45
79-20-9	Methyl acetate	98.2		5.0	2.0
75-09-2	Methylene Chloride	48.9		5.0	1.6
156-60-5	trans-1,2-Dichloroethene	45.1		1.0	0.35
1634-04-4	Methyl tert-butyl ether	45.4		1.0	0.39
75-34-3	1,1-Dichloroethane	46.1		1.0	0.41
156-59-2	cis-1,2-Dichloroethene	47.1		1.0	0.41
78-93-3	Methyl Ethyl Ketone	50.1		5.0	2.1
67-66-3	Chloroform	44.5		2.0	0.37
71-55-6	1,1,1-Trichloroethane	44.6		1.0	0.38
110-82-7	Cyclohexane	49.0		1.0	0.49
56-23-5	Carbon tetrachloride	45.5		1.0	0.38
71-43-2	Benzene	49.5		0.50	0.15
107-06-2	1,2-Dichloroethane	45.2		1.0	0.39
79-01-6	Trichloroethene	48.8		0.50	0.16
108-87-2	Methylcyclohexane	45.8		1.0	0.32
78-87-5	1,2-Dichloropropane	49.3		1.0	0.43
75-27-4	Bromodichloromethane	46.9		1.0	0.37
10061-01-5	cis-1,3-Dichloropropene	42.8		1.0	0.42
108-10-1	methyl isobutyl ketone	48.2		5.0	2.2
108-88-3	Toluene	47.2		0.50	0.15
10061-02-6	trans-1,3-Dichloropropene	41.9		1.0	0.36
79-00-5	1,1,2-Trichloroethane	43.9		1.0	0.35
127-18-4	Tetrachloroethene	46.1		1.0	0.37
591-78-6	2-Hexanone	45.4		5.0	1.6
124-48-1	Dibromochloromethane	43.3		1.0	0.49

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-407133/4

Matrix: Water | Lab File ID: 18S1026P.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/26/2017 21:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 407133 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	44.5		1.0	0.39
108-90-7	Chlorobenzene	47.3		1.0	0.39
100-41-4	Ethylbenzene	46.3		0.50	0.18
1330-20-7	Xylenes, Total	93.5		1.0	0.22
100-42-5	Styrene	47.5		1.0	0.39
75-25-2	Bromoform	41.7		1.0	0.48
98-82-8	Isopropylbenzene	46.0		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	45.8		1.0	0.40
541-73-1	1,3-Dichlorobenzene	44.9		1.0	0.40
106-46-7	1,4-Dichlorobenzene	45.7		1.0	0.36
95-50-1	1,2-Dichlorobenzene	45.3		1.0	0.33
96-12-8	1,2-Dibromo-3-Chloropropane	37.9		5.0	2.0
120-82-1	1,2,4-Trichlorobenzene	42.1		1.0	0.34

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		75-126
2037-26-5	Toluene-d8 (Surr)	90		75-120
460-00-4	4-Bromofluorobenzene (Surr)	92		72-124
1868-53-7	Dibromofluoromethane	96		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18S1026P.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 26-Oct-2017 21:12:30 ALS Bottle#: 32 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 500-0048640-004
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 26-Oct-2017 21:37:59 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: petruszakj Date: 26-Oct-2017 21:37:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.570	0.000	87	137156	50.0	32.1	
2 Chloromethane	50	1.790	1.790	0.000	99	279313	50.0	45.8	
3 Vinyl chloride	62	1.918	1.918	0.000	82	197525	50.0	37.7	
4 Butadiene	39	1.955	1.955	0.000	92	228804	50.0	38.4	
5 Bromomethane	94	2.276	2.276	0.000	91	95356	50.0	54.6	
6 Chloroethane	64	2.383	2.383	0.000	93	127880	50.0	49.0	
7 Dichlorofluoromethane	67	2.630	2.624	0.006	83	313109	50.0	43.1	
8 Trichlorofluoromethane	101	2.672	2.672	0.000	95	250976	50.0	37.6	
10 Ethyl ether	59	2.972	2.972	0.000	98	140759	50.0	48.4	
11 Acrolein	56	3.095	3.095	0.000	96	454540	2000.0	1637.7	
12 1,1-Dichloroethene	96	3.191	3.186	0.005	85	180091	50.0	43.8	
13 1,1,2-Trichloro-1,2,2-trif	101	3.234	3.229	0.005	82	198512	50.0	45.9	
14 Acetone	43	3.261	3.261	0.000	91	32654	50.0	50.1	
15 Iodomethane	142	3.336	3.330	0.006	97	347633	50.0	45.9	
16 Carbon disulfide	76	3.400	3.400	0.000	100	567341	50.0	42.4	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	88	107854	50.0	44.2	
20 Methyl acetate	43	3.598	3.592	0.006	97	169054	100.0	98.2	
21 Methylene Chloride	84	3.683	3.683	0.000	90	192916	50.0	48.9	
* 22 TBA-d9 (IS)	65	3.748	3.748	0.000	0	127287	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.828	3.828	0.000	96	78327	500.0	506.3	
24 Acrylonitrile	53	3.935	3.935	0.000	99	455468	500.0	504.7	
25 trans-1,2-Dichloroethene	96	3.967	3.962	0.005	92	200219	50.0	45.1	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	93	350783	50.0	45.4	
27 Hexane	57	4.251	4.250	0.001	94	387850	50.0	48.3	
28 1,1-Dichloroethane	63	4.390	4.384	0.006	96	388916	50.0	46.1	
29 Vinyl acetate	43	4.448	4.448	0.000	100	247587	50.0	47.5	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	232418	50.0	47.2	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	94	217561	50.0	47.1	
35 2-Butanone (MEK)	43	4.994	4.989	0.005	57	46946	50.0	50.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	5.213	5.213	0.000	91	90027	50.0	47.7	
40 Tetrahydrofuran	42	5.262	5.262	0.000	93	64677	100.0	103.8	
41 Chloroform	83	5.299	5.294	0.005	82	307937	50.0	44.5	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	69	181467	50.0	48.1	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	90	279361	50.0	44.6	
44 Cyclohexane	56	5.545	5.545	0.000	91	492269	50.0	49.0	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	89	259943	50.0	48.0	
46 Carbon tetrachloride	117	5.652	5.652	0.000	71	253254	50.0	45.5	
47 Isobutyl alcohol	43	5.770	5.764	0.006	97	104544	1250.0	1472.5	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	164082	50.0	44.5	
49 Benzene	78	5.861	5.861	0.000	95	769174	50.0	49.5	
50 1,2-Dichloroethane	62	5.871	5.871	0.000	60	213562	50.0	45.2	
53 n-Heptane	43	6.134	6.134	0.000	81	409207	50.0	51.5	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	93	713031	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	95	218229	50.0	48.8	
58 Methylcyclohexane	83	6.722	6.722	0.000	93	383636	50.0	45.8	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	92	202696	50.0	49.3	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	16349	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.001	88	79542	50.0	47.7	
64 1,4-Dioxane	88	6.888	6.888	0.000	69	17544	1000.0	972.8	
65 Dichlorobromomethane	83	7.032	7.032	0.000	92	194533	50.0	46.9	
67 2-Chloroethyl vinyl ether	63	7.353	7.348	0.005	92	71569	50.0	47.3	
68 cis-1,3-Dichloropropene	75	7.508	7.508	0.000	88	237958	50.0	42.8	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.669	0.005	96	111770	50.0	48.2	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	689578	50.0	44.9	
71 Toluene	92	7.872	7.872	0.000	92	485623	50.0	47.2	
72 trans-1,3-Dichloropropene	75	8.102	8.102	0.000	93	188468	50.0	41.9	
73 Ethyl methacrylate	69	8.209	8.209	0.000	84	138284	50.0	47.7	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	94	107930	50.0	43.9	
75 Tetrachloroethene	166	8.471	8.471	0.000	89	231549	50.0	46.1	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	98	198163	50.0	46.9	
77 2-Hexanone	43	8.584	8.584	0.000	98	69804	50.0	45.4	
79 Chlorodibromomethane	129	8.744	8.744	0.000	88	133780	50.0	43.3	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	111303	50.0	44.5	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	560792	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	581553	50.0	47.3	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	188725	50.0	43.5	
85 Ethylbenzene	106	9.584	9.584	0.000	99	321090	50.0	46.3	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	0	774245	50.0	46.8	
87 o-Xylene	91	10.296	10.296	0.000	93	798011	50.0	46.7	
88 Styrene	104	10.317	10.317	0.000	94	627964	50.0	47.5	
89 Bromoform	173	10.590	10.590	0.000	97	72636	50.0	41.7	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	1021849	50.0	46.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	93	271309	50.0	46.1	
94 Bromobenzene	156	11.387	11.387	0.000	90	244991	50.0	46.7	
95 1,1,2,2-Tetrachloroethane	83	11.392	11.398	-0.006	59	113662	50.0	45.8	
96 1,2,3-Trichloropropane	75	11.457	11.457	0.000	41	125455	50.0	44.0	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	38	39042	50.0	38.7	
98 N-Propylbenzene	91	11.585	11.585	0.000	98	1214286	50.0	46.2	
99 2-Chlorotoluene	91	11.703	11.697	0.006	97	690457	50.0	50.1	
100 1,3,5-Trimethylbenzene	105	11.858	11.858	0.000	88	870488	50.0	46.6	
101 4-Chlorotoluene	91	11.863	11.863	0.000	88	796450	50.0	45.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 tert-Butylbenzene	119	12.323	12.323	0.000	92	800964	50.0	45.4	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	868635	50.0	45.3	
106 sec-Butylbenzene	105	12.623	12.623	0.000	93	1125834	50.0	44.5	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	481996	50.0	44.9	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	95	995725	50.0	45.0	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.831	0.000	79	298464	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	94	475934	50.0	45.7	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	75	411557	50.0	45.3	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	823568	50.0	42.7	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	50	14634	50.0	37.9	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	91	260307	50.0	42.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	187175	50.0	44.2	
119 Naphthalene	128	15.303	15.303	0.000	99	361090	50.0	41.5	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	203281	50.0	42.6	
S 123 Xylenes, Total	100				0		100.0	93.5	
S 127 1,2-Dichloroethene, Total	96				0		100.0	92.2	

Reagents:

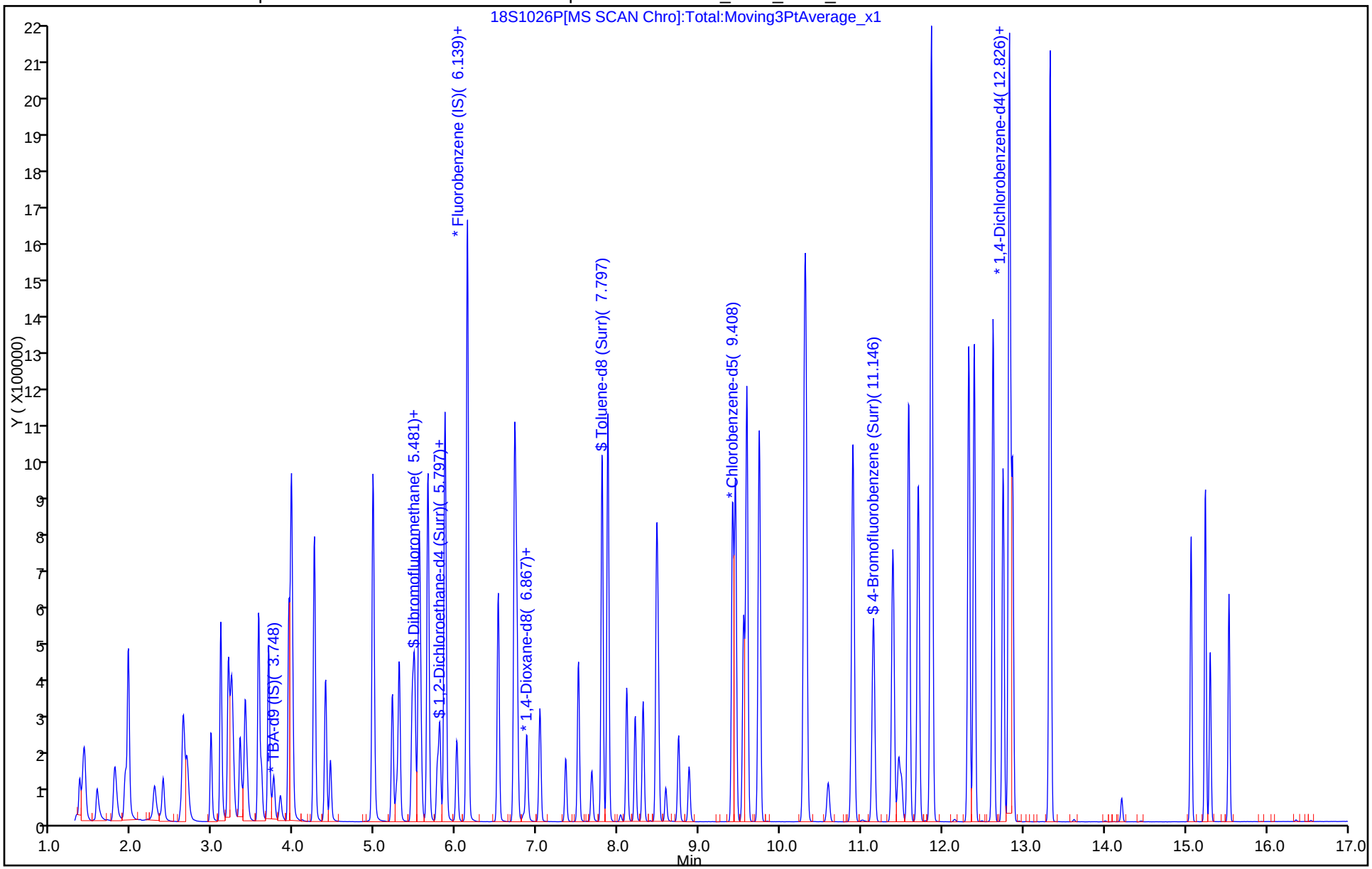
8260/624KETWK_00282	Amount Added:	2.50	Units: uL	
8260/624GASWK_00475	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00358	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00297	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00416	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00155	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 26-Oct-2017 21:38:03 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18S1026P.d

Injection Date:	26-Oct-2017 21:12:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\18S1026P.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 26-Oct-2017 21:12:30 ALS Bottle#: 32 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 500-0048640-004
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171026-48640.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 26-Oct-2017 21:37:59 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK051

First Level Reviewer: petruszakj Date: 26-Oct-2017 21:37:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	48.1	96.18
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	44.5	88.96
$ 70 Toluene-d8 (Surr)	50.0	44.9	89.78
$ 92 4-Bromofluorobenzene (Surr)	50.0	46.1	92.12

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: CMS18 Start Date: 07/05/2017 12:47

Analysis Batch Number: 391894 End Date: 07/05/2017 18:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-391894/1		07/05/2017 12:47	1	18B0705C.d	DB624 0.2(mm)
STD01 500-391894/2 IC		07/05/2017 13:26	1	18I0705A.d	DB624 0.2(mm)
STD02 500-391894/3 IC		07/05/2017 13:52	1	18I0705B.d	DB624 0.2(mm)
STD03 500-391894/4 IC		07/05/2017 14:16	1	18I0705C.d	DB624 0.2(mm)
STD04 500-391894/5 IC		07/05/2017 14:41	1	18I0705D.d	DB624 0.2(mm)
STD05 500-391894/6 IC		07/05/2017 15:06	1	18I0705E.d	DB624 0.2(mm)
STD06 500-391894/7 IC		07/05/2017 15:31	1	18I0705F.d	DB624 0.2(mm)
STD07 500-391894/8 ICIS		07/05/2017 15:56	1	18I0705G.d	DB624 0.2(mm)
STD08 500-391894/9 IC		07/05/2017 16:21	1	18I0705H.d	DB624 0.2(mm)
STD09 500-391894/10 IC		07/05/2017 16:46	1	18I0705I.d	DB624 0.2(mm)
STD10 500-391894/11 IC		07/05/2017 17:12	1	18I0705J.d	DB624 0.2(mm)
ICV 500-391894/14		07/05/2017 18:26	1	18S0705ICV1.d	DB624 0.2(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: CMS18 Start Date: 10/26/2017 19:40

Analysis Batch Number: 407133 End Date: 10/27/2017 06:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-407133/1		10/26/2017 19:40	1	18B1026P.d	DB624 0.2(mm)
CCVIS 500-407133/2		10/26/2017 20:21	1	18C1026P.d	DB624 0.2(mm)
CCV 500-407133/3		10/26/2017 20:46	1	18D1026P.d	DB624 0.2(mm)
LCS 500-407133/4		10/26/2017 21:12	1	18S1026P.d	DB624 0.2(mm)
MB 500-407133/6		10/26/2017 22:02	1	18M1026P.d	DB624 0.2(mm)
ZZZZZ		10/26/2017 22:27	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 22:53	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 23:18	1		DB624 0.2(mm)
ZZZZZ		10/26/2017 23:43	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 00:08	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 00:34	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 00:59	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 01:24	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 01:49	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 02:15	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 02:40	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 03:05	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 03:30	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 03:55	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 04:20	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 04:45	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 05:10	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 05:36	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 06:01	1		DB624 0.2(mm)
ZZZZZ		10/27/2017 06:26	1		DB624 0.2(mm)
500-136329-1		10/27/2017 06:51	1	500-136329-a-1.d	DB624 0.2(mm)

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB5MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHL #
CRMS-SW-01-102617	500-136329-1	103	80	124 X	128 X	173 X	126
	MB 500-407229/1-A	66	44	75	76	88	98
	LCS 500-407229/2-A	70	60	86	84	96	105

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	27-110
PHL = Phenol-d5 (Surr)	20-100
NBZ = Nitrobenzene-d5 (Surr)	36-120
FBP = 2-Fluorobiphenyl (Surr)	34-110
TBP = 2,4,6-Tribromophenol (Surr)	40-145
TPHL = Terphenyl-d14 (Surr)	40-145

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCS 500-407229.D

Lab ID: LCS 500-407229/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzaldehyde	32.0	23.6 J	74		
Phenol	32.0	18.7	58	33-100	
Bis(2-chloroethyl)ether	32.0	26.9	84	49-110	
2-Chlorophenol	32.0	27.2	85	59-110	
2-Methylphenol	32.0	27.6	86	53-110	
2,2'-oxybis[1-chloropropane]	32.0	23.5	73	38-110	
Acetophenone	32.0	25.9	81	60-110	
N-Nitrosodi-n-propylamine	32.0	26.1	82	58-110	
Hexachloroethane	32.0	15.1	47	20-100	
Nitrobenzene	32.0	26.7	83	53-110	
Isophorone	32.0	26.8	84	57-110	
2-Nitrophenol	32.0	27.2	85	58-110	
2,4-Dimethylphenol	32.0	28.0	87	51-110	
Bis(2-chloroethoxy)methane	32.0	28.6	89	60-110	
2,4-Dichlorophenol	32.0	27.9	87	62-110	
Naphthalene	32.0	19.7	62	36-110	
4-Chloroaniline	32.0	27.5	86	35-128	
Hexachlorobutadiene	32.0	16.1	50	20-100	
Caprolactam	32.0	19.1	60	32-100	
4-Chloro-3-methylphenol	32.0	29.9	93	64-120	
2-Methylnaphthalene	32.0	18.9	59	34-110	
Hexachlorocyclopentadiene	32.0	16.5	51	10-100	
2,4,6-Trichlorophenol	32.0	27.7	87	62-110	
2,4,5-Trichlorophenol	32.0	29.4	92	63-120	
1,1'-Biphenyl	32.0	21.9	68	40-110	
2-Chloronaphthalene	32.0	21.0	66	39-110	
2-Nitroaniline	32.0	30.1	94	59-122	
Dimethyl phthalate	32.0	29.6	93	63-120	
2,6-Dinitrotoluene	32.0	30.3	95	63-119	
Acenaphthylene	32.0	22.8	71	47-110	
3-Nitroaniline	32.0	29.2	91	47-123	
Acenaphthene	32.0	25.6	80	46-110	
2,4-Dinitrophenol	64.0	60.5	94	37-130	
4-Nitrophenol	64.0	39.9	62	20-110	
Dibenzofuran	32.0	25.0	78	51-110	
2,4-Dinitrotoluene	32.0	30.0	94	63-122	
Diethyl phthalate	32.0	29.9	93	62-120	
Fluorene	32.0	26.8	84	53-120	
4-Chlorophenyl phenyl ether	32.0	24.9	78	47-112	
4-Nitroaniline	32.0	30.4	95	52-147	
4,6-Dinitro-2-methylphenol	64.0	61.7	96	50-117	
N-Nitrosodiphenylamine	32.0	30.1	94	66-110	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCS 500-407229.D

Lab ID: LCS 500-407229/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
4-Bromophenyl phenyl ether	32.0	27.1	85	58-120	
Hexachlorobenzene	32.0	27.9	87	61-120	
Atrazine	32.0	29.3	92	58-118	
Pentachlorophenol	64.0	60.0	94	23-129	
Phenanthrene	32.0	29.8	93	65-120	
Anthracene	32.0	30.6	96	67-110	
Carbazole	32.0	32.5	102	61-145	
Di-n-butyl phthalate	32.0	32.3	101	70-120	
Fluoranthene	32.0	31.4	98	68-120	
Pyrene	32.0	31.1	97	70-110	
Butyl benzyl phthalate	32.0	32.9	103	68-120	
3,3'-Dichlorobenzidine	32.0	32.2	101	60-132	
Benzo[a]anthracene	32.0	30.9	97	70-120	
Chrysene	32.0	32.6	102	68-120	
Bis(2-ethylhexyl) phthalate	32.0	32.7	102	69-120	
Di-n-octyl phthalate	32.0	32.1	100	70-122	
Benzo[b]fluoranthene	32.0	32.1	100	69-123	
Benzo[k]fluoranthene	32.0	30.9	97	70-120	
Benzo[a]pyrene	32.0	31.3	98	70-120	
Indeno[1,2,3-cd]pyrene	32.0	32.4	101	65-133	
Dibenz(a,h)anthracene	32.0	32.1	100	70-127	
Benzo[g,h,i]perylene	32.0	31.5	98	70-120	
3 & 4 Methylphenol	32.0	26.8	84	53-110	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab File ID: MB 500-407229.D Lab Sample ID: MB 500-407229/1-A

Matrix: Water Date Extracted: 10/27/2017 07:20

Instrument ID: CMS01 Date Analyzed: 10/27/2017 11:36

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-407229/2-A	LCS 500-407229.D	10/27/2017 10:36
CRMS-SW-01-102617	500-136329-1	500-136329-E-1-A.D	10/27/2017 11:07

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab File ID: 1D1026D.D DFTPP Injection Date: 10/26/2017

Instrument ID: CMS01 DFTPP Injection Time: 16:17

Analysis Batch No.: 407173

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	48.0	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	60.7	
70	Less than 2% of mass 69	0.1	(0.2) 1
127	10-80% of Base Peak	52.9	
197	Less than 2% of mass 198	0.7	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	19.7	
365	Greater than 1% of mass 198	2.5	
441	present but less than 24% of mass 442	13.1	(16.5) 2
442	Greater than 50% of mass 198	79.3	
443	15-24% of mass 442	14.4	(18.2) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 500-407173/2	L1STD2.D	10/26/2017	16:56
	IC 500-407173/3	L1STD02.D	10/26/2017	17:26
	IC 500-407173/4	L1STD05.D	10/26/2017	17:56
	IC 500-407173/5	L1STD1.D	10/26/2017	18:26
	IC 500-407173/6	L1STD5.D	10/26/2017	18:56
	IC 500-407173/7	L1STD10.D	10/26/2017	19:25
	IC 500-407173/8	L1STD20.D	10/26/2017	19:55
	ICIS 500-407173/9	L1STD40.D	10/26/2017	20:25
	IC 500-407173/10	L1STD50.D	10/26/2017	20:55
	IC 500-407173/11	L1STD60.D	10/26/2017	21:25
	IC 500-407173/12	L1STD70.D	10/26/2017	21:55
	ICV 500-407173/13	L1ICV.D	10/26/2017	22:25

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab File ID: 1D1027a.D DFTPP Injection Date: 10/27/2017

Instrument ID: CMS01 DFTPP Injection Time: 09:14

Analysis Batch No.: 407268

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	49.4	
68	Less than 2% of mass 69	0.2	(0.3) 1
69	Mass 69 Relative abundance	58.9	
70	Less than 2% of mass 69	0.1	(0.1) 1
127	10-80% of Base Peak	51.5	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.2	
275	10-60% of Base Peak	20.1	
365	Greater than 1% of mass 198	2.3	
441	present but less than 24% of mass 442	13.7	(18.0) 2
442	Greater than 50% of mass 198	76.1	
443	15-24% of mass 442	15.4	(20.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 500-407268/4	1C1027.D	10/27/2017	10:01
	LCS 500-407229/2-A	LCS 500-407229.D	10/27/2017	10:36
	MB 500-407229/1-A	MB 500-407229.D	10/27/2017	11:36

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab File ID: 12D0927B.D DFTPP Injection Date: 09/27/2017

Instrument ID: CMS12 DFTPP Injection Time: 12:29

Analysis Batch No.: 402944

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	48.1	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	36.2	
70	Less than 2% of mass 69	0.2	(0.6) 1
127	10-80% of Base Peak	46.7	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	29.4	
365	Greater than 1% of mass 198	4.8	
441	present but less than 24% of mass 442	22.1	(15.7) 2
442	Greater than 50% of mass 198	141.2	
443	15-24% of mass 442	26.4	(18.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 500-402944/2	L1STD2.D	09/27/2017	13:02
	IC 500-402944/3	L1STD02.D	09/27/2017	13:31
	IC 500-402944/4	L1STD05.D	09/27/2017	14:01
	IC 500-402944/5	L1STD1.D	09/27/2017	14:30
	IC 500-402944/6	L1STD5.D	09/27/2017	14:59
	IC 500-402944/7	L1STD10.D	09/27/2017	15:29
	IC 500-402944/8	L1STD20.D	09/27/2017	15:58
	ICIS 500-402944/9	L1STD40.D	09/27/2017	16:28
	IC 500-402944/10	L1STD50.D	09/27/2017	16:57
	IC 500-402944/11	L1STD60.D	09/27/2017	17:27
	IC 500-402944/12	L1STD70.D	09/27/2017	17:56
	ICV 500-402944/13	L1ICV.D	09/27/2017	18:26

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab File ID: 12D1027.D DFTPP Injection Date: 10/27/2017

Instrument ID: CMS12 DFTPP Injection Time: 08:50

Analysis Batch No.: 407256

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	51.0	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	46.6	
70	Less than 2% of mass 69	0.3	(0.6) 1
127	10-80% of Base Peak	54.3	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	31.2	
365	Greater than 1% of mass 198	5.0	
441	present but less than 24% of mass 442	23.5	(16.5) 2
442	Greater than 50% of mass 198	143.0	
443	15-24% of mass 442	27.7	(19.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 500-407256/2	12C1027.D	10/27/2017	09:17
CRMS-SW-01-102617	500-136329-1	500-136329-E-1-A.D	10/27/2017	11:07

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: ICIS 500-407173/9 Date Analyzed: 10/26/2017 20:25

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): L1STD40.D Heated Purge: (Y/N) N

Calibration ID: 25663

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		82384	6.52	318863	7.58	159792	9.07
UPPER LIMIT		164768	7.02	637726	8.08	319584	9.57
LOWER LIMIT		41192	6.02	159432	7.08	79896	8.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-407173/13		139103	6.52	508449	7.58	247723	9.07

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: ICIS 500-407173/9 Date Analyzed: 10/26/2017 20:25

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): L1STD40.D Heated Purge: (Y/N) N

Calibration ID: 25663

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		258574	10.33	203422	13.83	204736	17.84
UPPER LIMIT		517148	10.83	406844	14.33	409472	18.34
LOWER LIMIT		129287	9.83	101711	13.33	102368	17.34
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-407173/13		417144	10.33	328729	13.84	333235	17.86

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: CCVIS 500-407268/4 Date Analyzed: 10/27/2017 10:01

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): 1C1027.D Heated Purge: (Y/N) N

Calibration ID: 25663

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		78014	6.52	295414	7.59	149913	9.07
UPPER LIMIT		156028	7.02	590828	8.09	299826	9.57
LOWER LIMIT		39007	6.02	147707	7.09	74957	8.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 500-407229/2-A		104492	6.52	408296	7.58	203283	9.07
MB 500-407229/1-A		88637	6.51	363714	7.58	206610	9.07

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: CCVIS 500-407268/4 Date Analyzed: 10/27/2017 10:01

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): 1C1027.D Heated Purge: (Y/N) N

Calibration ID: 25663

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		246350	10.34	192747	13.84	190327	17.85
UPPER LIMIT		492700	10.84	385494	14.34	380654	18.35
LOWER LIMIT		123175	9.84	96374	13.34	95164	17.35
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 500-407229/2-A		323764	10.33	257926	13.84	264234	17.86
MB 500-407229/1-A		350353	10.33	273641	13.82	273974	17.83

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: ICIS 500-402944/9 Date Analyzed: 09/27/2017 16:28

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): L1STD40.D Heated Purge: (Y/N) N

Calibration ID: 25507

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		316570	6.42	1242167	7.48	622490	8.96
UPPER LIMIT		633140	6.92	2484334	7.98	1244980	9.46
LOWER LIMIT		158285	5.92	621084	6.98	311245	8.46
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-402944/13		299883	6.42	1176792	7.48	584917	8.96

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: ICIS 500-402944/9 Date Analyzed: 09/27/2017 16:28

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): L1STD40.D Heated Purge: (Y/N) N

Calibration ID: 25507

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1226646	10.21	1254384	13.55	1319215	17.27
UPPER LIMIT		2453292	10.71	2508768	14.05	2638430	17.77
LOWER LIMIT		613323	9.71	627192	13.05	659608	16.77
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-402944/13		1155594	10.21	1188691	13.55	1262084	17.27

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: CCVIS 500-407256/2 Date Analyzed: 10/27/2017 09:17

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): 12C1027.D Heated Purge: (Y/N) N

Calibration ID: 25610

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		291588	5.65	1086046	6.71	536566	8.16
UPPER LIMIT		583176	6.15	2172092	7.21	1073132	8.66
LOWER LIMIT		145794	5.15	543023	6.21	268283	7.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
500-136329-1	CRMS-SW-01-102617	210146	5.65	754942	6.70	384956	8.16

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Sample No.: CCVIS 500-407256/2 Date Analyzed: 10/27/2017 09:17

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): 12C1027.D Heated Purge: (Y/N) N

Calibration ID: 25610

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1080385	9.39	1140138	12.03	1267089	14.62
UPPER LIMIT		2160770	9.89	2280276	12.53	2534178	15.12
LOWER LIMIT		540193	8.89	570069	11.53	633545	14.12
LAB SAMPLE ID	CLIENT SAMPLE ID						
500-136329-1	CRMS-SW-01-102617	778834	9.38	935417	12.03	1009024	14.66

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: CRMS-SW-01-102617 | Lab Sample ID: 500-136329-1

Matrix: Water | Lab File ID: 500-136329-E-1-A.D

Analysis Method: 8270D | Date Collected: 10/26/2017 11:48

Extract. Method: 3510C | Date Extracted: 10/27/2017 07:20

Sample wt/vol: 250(mL) | Date Analyzed: 10/27/2017 11:07

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407256 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	<320	^	320	120
108-95-2	Phenol	<40		40	5.4
111-44-4	Bis(2-chloroethyl)ether	<16		16	2.3
95-57-8	2-Chlorophenol	<40		40	4.5
95-48-7	2-Methylphenol	<16		16	2.4
108-60-1	2,2'-oxybis[1-chloropropane]	<16		16	3.0
98-86-2	Acetophenone	<40		40	5.3
621-64-7	N-Nitrosodi-n-propylamine	<4.0		4.0	1.2
67-72-1	Hexachloroethane	<40		40	4.8
98-95-3	Nitrobenzene	<8.0		8.0	3.6
78-59-1	Isophorone	<16		16	3.0
88-75-5	2-Nitrophenol	<80		80	20
105-67-9	2,4-Dimethylphenol	<80		80	14
111-91-1	Bis(2-chloroethoxy)methane	<16		16	2.3
120-83-2	2,4-Dichlorophenol	<80		80	21
91-20-3	Naphthalene	<8.0		8.0	2.5
106-47-8	4-Chloroaniline	<80		80	16
87-68-3	Hexachlorobutadiene	<40		40	4.1
105-60-2	Caprolactam	<80		80	12
59-50-7	4-Chloro-3-methylphenol	<80		80	18
91-57-6	2-Methylnaphthalene	8.2	J	16	0.52
77-47-4	Hexachlorocyclopentadiene	<160		160	51
88-06-2	2,4,6-Trichlorophenol	<40		40	5.7
95-95-4	2,4,5-Trichlorophenol	<80		80	21
92-52-4	1,1'-Biphenyl	7.8	J	40	2.9
91-58-7	2-Chloronaphthalene	<16		16	1.9
88-74-4	2-Nitroaniline	<40		40	10
131-11-3	Dimethyl phthalate	<40		40	2.5
606-20-2	2,6-Dinitrotoluene	<8.0		8.0	0.59
208-96-8	Acenaphthylene	<8.0		8.0	2.1
99-09-2	3-Nitroaniline	<80		80	14
83-32-9	Acenaphthene	<8.0		8.0	2.5
51-28-5	2,4-Dinitrophenol	<160		160	69
100-02-7	4-Nitrophenol	<160		160	59

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: CRMS-SW-01-102617 | Lab Sample ID: 500-136329-1

Matrix: Water | Lab File ID: 500-136329-E-1-A.D

Analysis Method: 8270D | Date Collected: 10/26/2017 11:48

Extract. Method: 3510C | Date Extracted: 10/27/2017 07:20

Sample wt/vol: 250(mL) | Date Analyzed: 10/27/2017 11:07

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407256 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
132-64-9	Dibenzofuran	<16		16	2.1
121-14-2	2,4-Dinitrotoluene	<8.0		8.0	2.0
84-66-2	Diethyl phthalate	<40		40	2.9
86-73-7	Fluorene	<8.0		8.0	2.0
7005-72-3	4-Chlorophenyl phenyl ether	<40		40	5.1
100-01-6	4-Nitroaniline	<80		80	13
534-52-1	4,6-Dinitro-2-methylphenol	<160		160	47
86-30-6	N-Nitrosodiphenylamine	<16		16	3.0
101-55-3	4-Bromophenyl phenyl ether	<40		40	4.3
118-74-1	Hexachlorobenzene	<4.0		4.0	0.64
1912-24-9	Atrazine	<40		40	5.0
87-86-5	Pentachlorophenol	<160		160	32
85-01-8	Phenanthrene	2.6	J	8.0	2.4
120-12-7	Anthracene	<8.0		8.0	2.7
86-74-8	Carbazole	<40		40	2.8
84-74-2	Di-n-butyl phthalate	<40		40	5.8
206-44-0	Fluoranthene	<8.0		8.0	3.6
129-00-0	Pyrene	4.6	J	8.0	3.4
85-68-7	Butyl benzyl phthalate	<16		16	3.8
91-94-1	3,3'-Dichlorobenzidine	<40		40	14
56-55-3	Benzo[a]anthracene	<1.6		1.6	0.45
218-01-9	Chrysene	<1.6		1.6	0.55
117-81-7	Bis(2-ethylhexyl) phthalate	<80		80	14
117-84-0	Di-n-octyl phthalate	<80		80	8.4
205-99-2	Benzo[b]fluoranthene	<1.6		1.6	0.65
207-08-9	Benzo[k]fluoranthene	<1.6		1.6	0.51
50-32-8	Benzo[a]pyrene	<1.6		1.6	0.79
193-39-5	Indeno[1,2,3-cd]pyrene	<1.6		1.6	0.60
53-70-3	Dibenz(a,h)anthracene	<2.4		2.4	0.41
191-24-2	Benzo[g,h,i]perylene	<8.0		8.0	3.0
15831-10-4	3 & 4 Methylphenol	<16		16	3.6

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: CRMS-SW-01-102617 | Lab Sample ID: 500-136329-1

Matrix: Water | Lab File ID: 500-136329-E-1-A.D

Analysis Method: 8270D | Date Collected: 10/26/2017 11:48

Extract. Method: 3510C | Date Extracted: 10/27/2017 07:20

Sample wt/vol: 250(mL) | Date Analyzed: 10/27/2017 11:07

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407256 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	103		27-110
4165-62-2	Phenol-d5 (Surr)	80		20-100
4165-60-0	Nitrobenzene-d5 (Surr)	124	X	36-120
321-60-8	2-Fluorobiphenyl (Surr)	128	X	34-110
118-79-6	2,4,6-Tribromophenol (Surr)	173	X	40-145
1718-51-0	Terphenyl-d14 (Surr)	126		40-145

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\500-136329-E-1-A.D
Lims ID: 500-136329-E-1-A
Client ID: CRMS-SW-01-102617
Sample Type: Client
Inject. Date: 27-Oct-2017 11:07:30 ALS Bottle#: 3 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 10.0000
Sample Info: 500-136329-E-1-A
Misc. Info.: 500-0048658-008
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 11:43:43 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: squiresb Date: 27-Oct-2017 11:43:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.650	5.654	-0.004	96	210146	3.20	
* 2 Naphthalene-d8	136	6.700	6.705	-0.005	99	754942	3.20	
* 3 Acenaphthene-d10	164	8.156	8.156	0.000	98	384956	3.20	
* 4 Phenanthrene-d10	188	9.383	9.387	-0.004	97	778834	3.20	
* 5 Chrysene-d12	240	12.031	12.032	-0.001	100	935417	3.20	
* 6 Perylene-d12	264	14.661	14.623	0.038	99	1009024	3.20	
$ 7 2-Fluorophenol	112	4.584	4.589	-0.005	93	46527	1.03	
$ 8 Phenol-d5	99	5.383	5.393	-0.010	90	57231	0.8007	
$ 9 Nitrobenzene-d5	82	6.106	6.116	-0.010	97	91467	1.24	
$ 10 2-Fluorobiphenyl	172	7.590	7.595	-0.005	99	206799	1.28	
$ 11 2,4,6-Tribromophenol	330	8.812	8.817	-0.005	71	64784	1.73	
$ 12 Terphenyl-d14	244	10.747	10.748	-0.001	99	287595	1.26	
56 Naphthalene	128	6.720	6.724	-0.004	53	5635	0.0256	7
67 2-Methylnaphthalene	142	7.290	7.295	-0.005	92	32208	0.2055	
75 1,1'-Biphenyl	154	7.671	7.680	-0.009	48	34185	0.1953	
126 Phenanthrene	178	9.402	9.411	-0.009	92	16399	0.0656	
137 Pyrene	202	10.605	10.610	-0.005	93	38775	0.1153	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

SM_HIVOLISTD_00160 Amount Added: 10.00 Units: uL Run Reagent

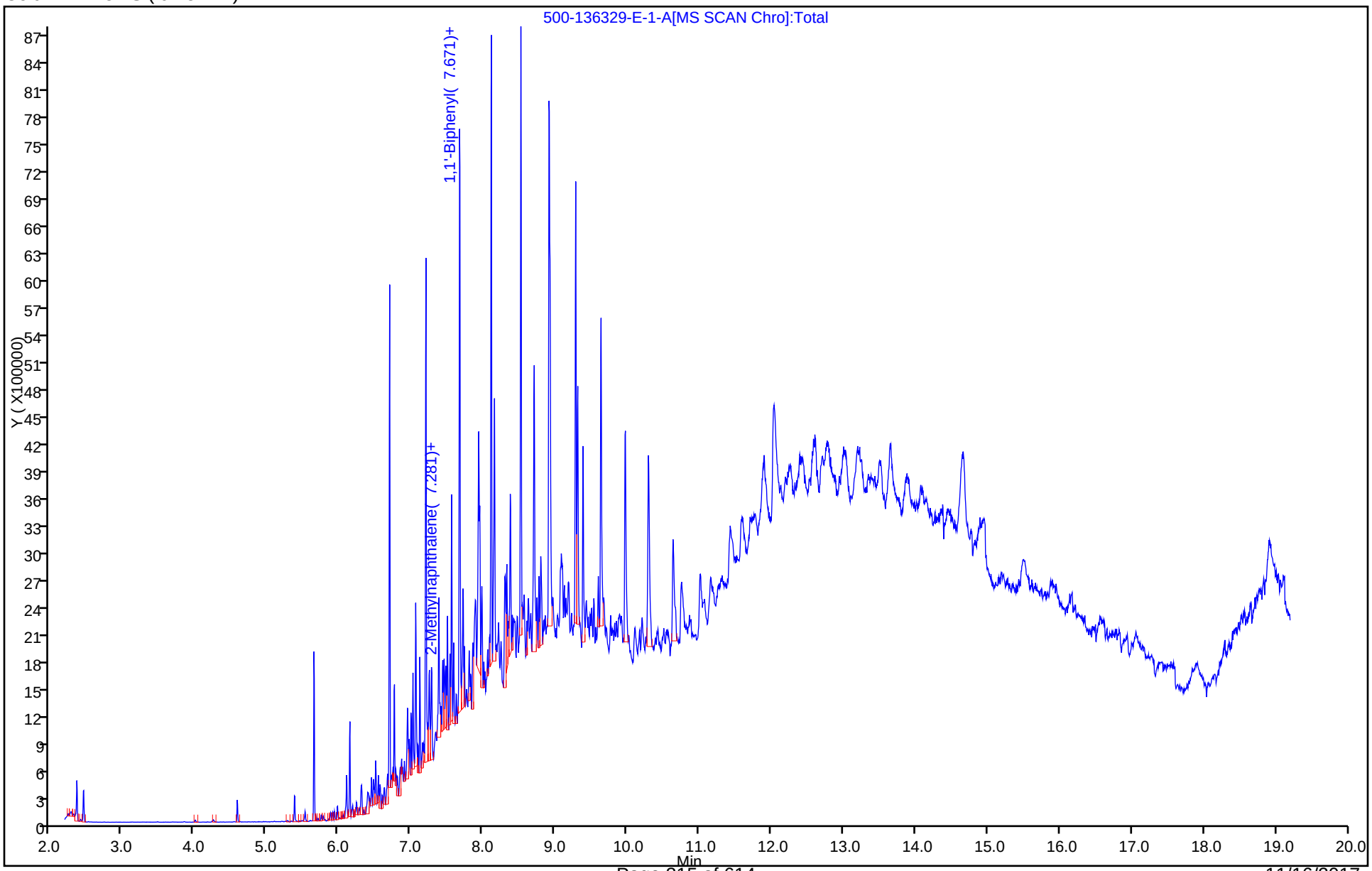
Report Date: 27-Oct-2017 11:43:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\500-136329-E-1-A.D

Injection Date:	27-Oct-2017 11:07:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	500-136329-E-1-A	Lab Sample ID:	500-136329-1	Worklist Smp#:	8
Client ID:	CRMS-SW-01-102617				
Injection Vol:	5.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	3
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\500-136329-E-1-A.D
Lims ID: 500-136329-E-1-A
Client ID: CRMS-SW-01-102617
Sample Type: Client
Inject. Date: 27-Oct-2017 11:07:30 ALS Bottle#: 3 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 10.0000
Sample Info: 500-136329-E-1-A
Misc. Info.: 500-0048658-008
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 11:43:43 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

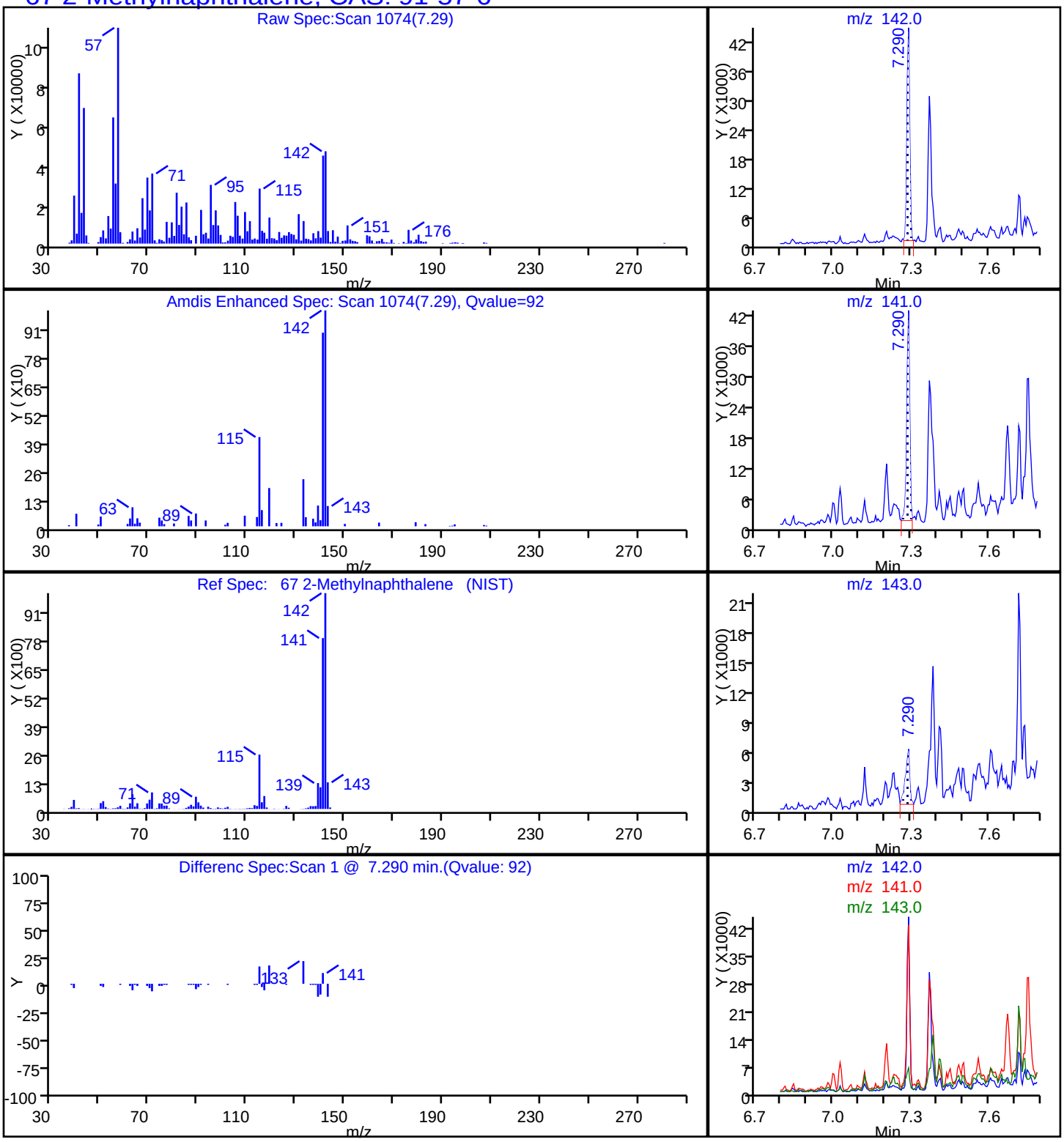
First Level Reviewer: squiresb Date: 27-Oct-2017 11:43:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	10.0	1.03	103.24
$ 8 Phenol-d5	10.0	0.8007	80.07
$ 9 Nitrobenzene-d5	10.0	1.24	123.59
$ 10 2-Fluorobiphenyl	10.0	1.28	127.75
$ 11 2,4,6-Tribromophenol	10.0	1.73	173.25
$ 12 Terphenyl-d14	10.0	1.26	125.84

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\500-136329-E-1-A.D				
Injection Date:	27-Oct-2017 11:07:30	Instrument ID:	CMS12		
Lims ID:	500-136329-E-1-A	Lab Sample ID:	500-136329-1		
Client ID:	CRMS-SW-01-102617				
Operator ID:	AD	ALS Bottle#:	3	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	10.0000		
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		
Column:	ZB5MS (0.25 mm)	Detector	MS SCAN		

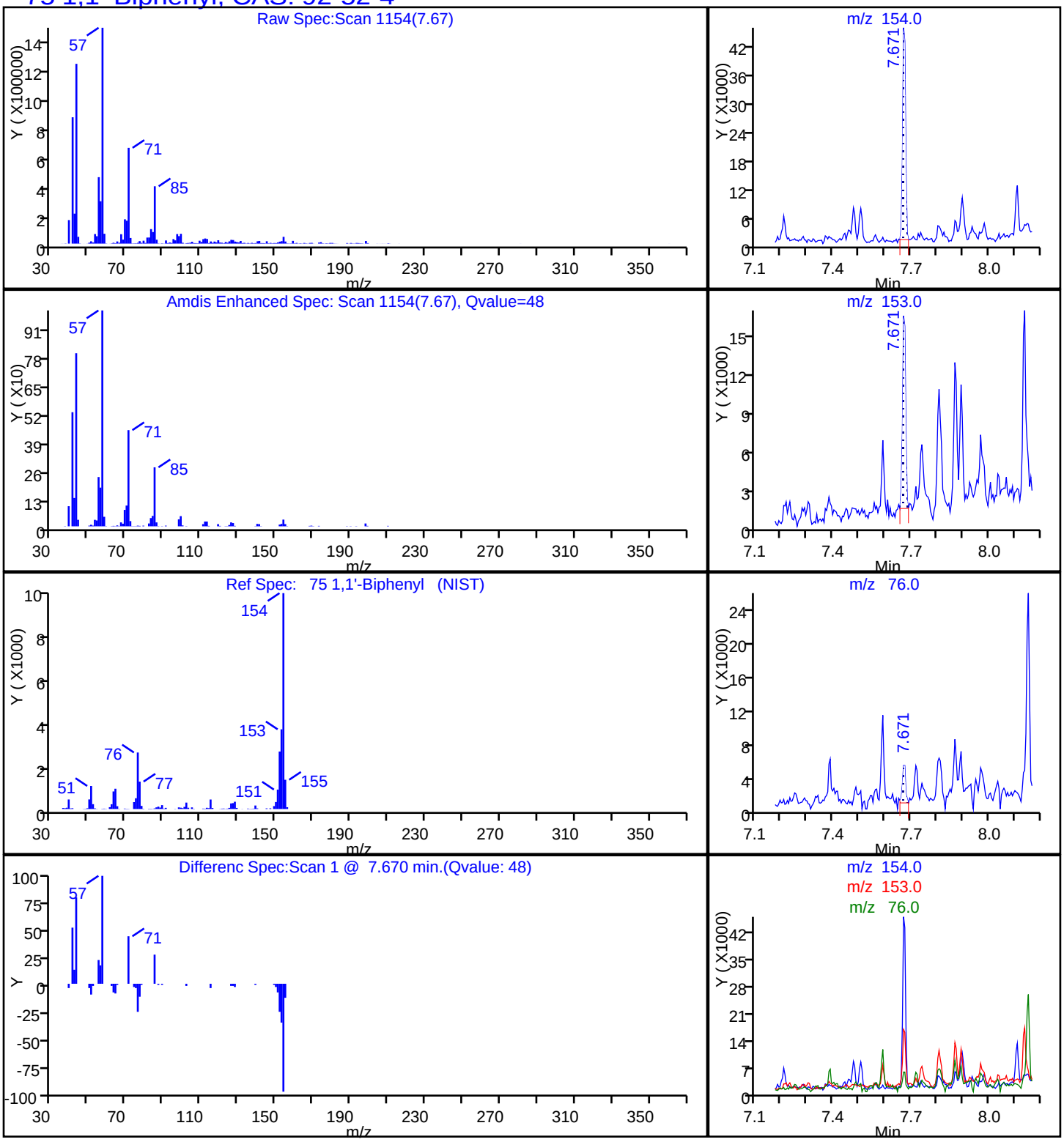
67 2-Methylnaphthalene, CAS: 91-57-6



TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\500-136329-E-1-A.D				
Injection Date:	27-Oct-2017 11:07:30	Instrument ID:	CMS12		
Lims ID:	500-136329-E-1-A	Lab Sample ID:	500-136329-1		
Client ID:	CRMS-SW-01-102617				
Operator ID:	AD	ALS Bottle#:	3	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	10.0000		
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		
Column:	ZB5MS (0.25 mm)	Detector	MS SCAN		

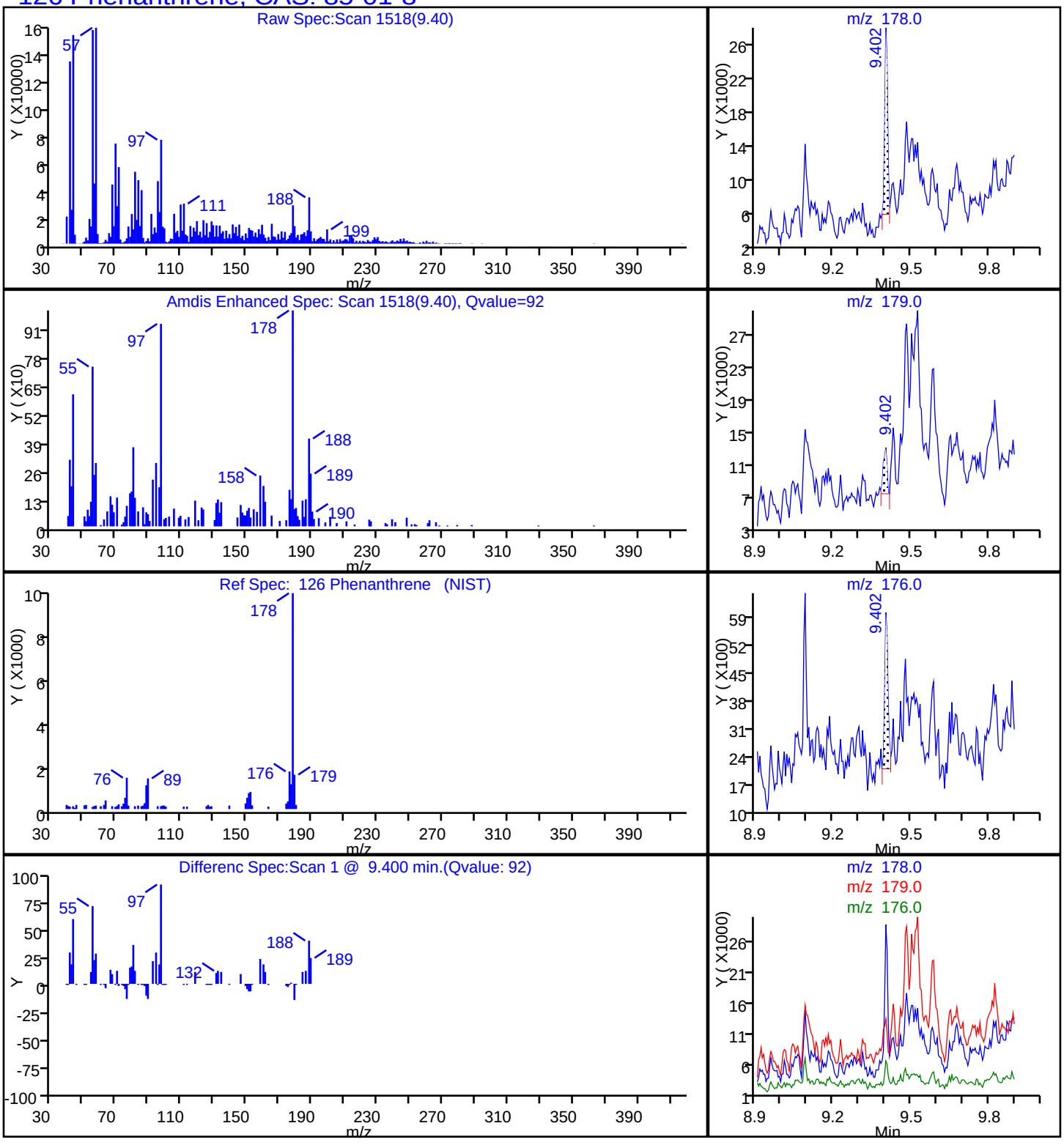
75 1,1'-Biphenyl, CAS: 92-52-4



TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\500-136329-E-1-A.D		
Injection Date:	27-Oct-2017 11:07:30	Instrument ID:	CMS12
Lims ID:	500-136329-E-1-A	Lab Sample ID:	500-136329-1
Client ID:	CRMS-SW-01-102617		
Operator ID:	AD	ALS Bottle#:	3 Worklist Smp#: 8
Injection Vol:	5.0 ul	Dil. Factor:	10.0000
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL
Column:	ZB5MS (0.25 mm)	Detector	MS SCAN

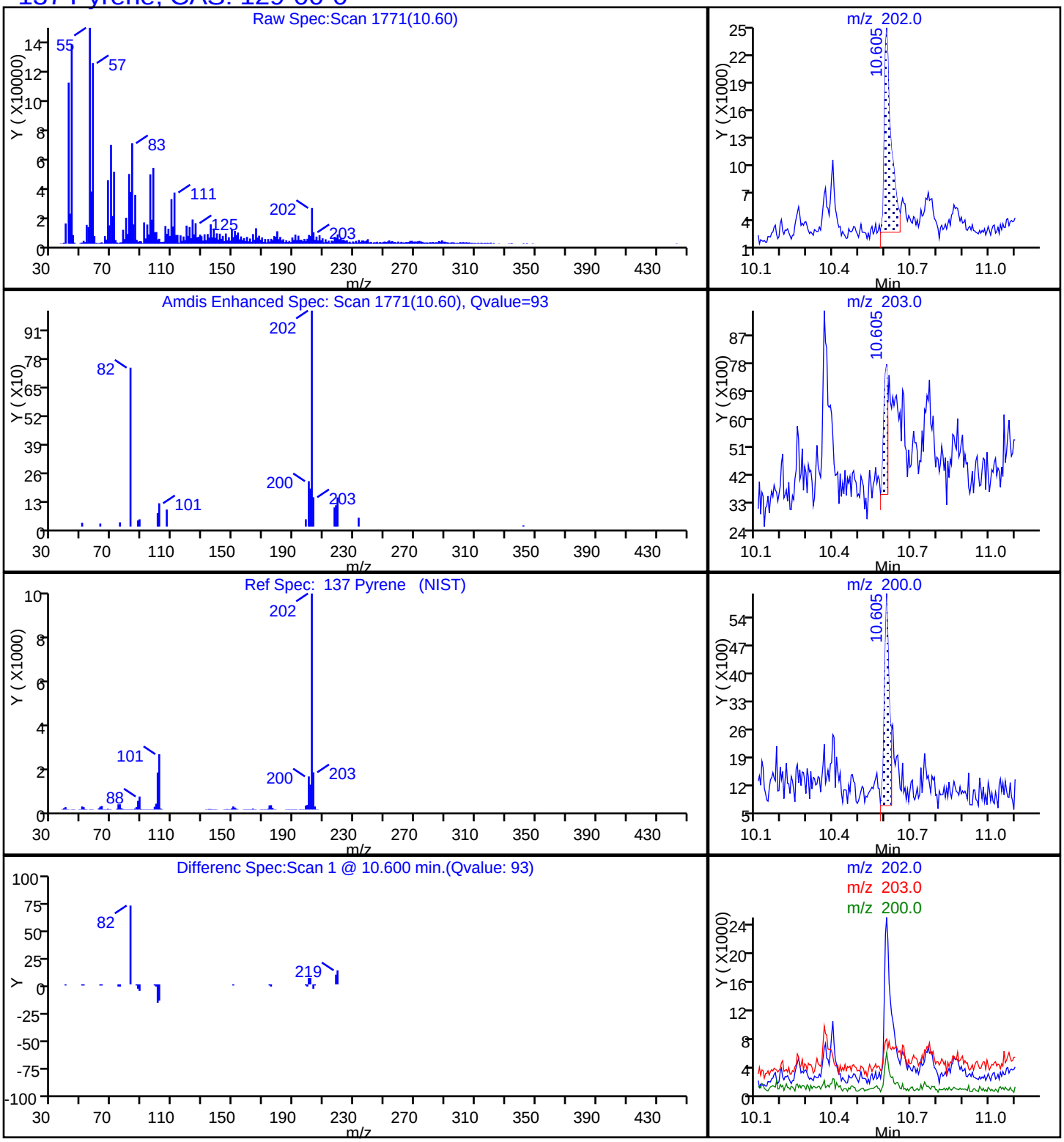
126 Phenanthrene, CAS: 85-01-8



TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\500-136329-E-1-A.D		
Injection Date:	27-Oct-2017 11:07:30	Instrument ID:	CMS12
Lims ID:	500-136329-E-1-A	Lab Sample ID:	500-136329-1
Client ID:	CRMS-SW-01-102617		
Operator ID:	AD	ALS Bottle#:	3 Worklist Smp#: 8
Injection Vol:	5.0 ul	Dil. Factor:	10.0000
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL
Column:	ZB5MS (0.25 mm)	Detector	MS SCAN

137 Pyrene, CAS: 129-00-0



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407173/3	L1STD02.D
Level 2	IC 500-407173/4	L1STD05.D
Level 3	IC 500-407173/5	L1STD1.D
Level 4	IC 500-407173/2	L1STD2.D
Level 5	IC 500-407173/6	L1STD5.D
Level 6	IC 500-407173/7	L1STD10.D
Level 7	IC 500-407173/8	L1STD20.D
Level 8	ICIS 500-407173/9	L1STD40.D
Level 9	IC 500-407173/10	L1STD50.D
Level 10	IC 500-407173/11	L1STD60.D
Level 11	IC 500-407173/12	L1STD70.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,4-Dioxane	0.2335 0.3901	0.2561	0.2564	0.2773	0.2549 0.3059	Ave		0.2820			0.0100	18.7		20.0			
N-Nitrosodimethylamine	1.2008 1.2355	1.1292	1.1352	1.1751	1.1685 1.2227	Ave		1.1810			0.0100	3.5		20.0			
Pyridine	0.7446 1.4391	0.9649	1.0143	1.2670	0.6736 1.3769	Qua2	-0.170	0.7025	0.0268974		0.0100				0.9970		0.9900
Benzaldehyde	0.7446 0.2896	0.5070	0.4369	0.3285	+++++ 0.3135	Ave		0.4367			0.0100	39.4	*	20.0			
Phenol	1.2733 1.6747	+++++ 1.3667	1.4041	1.5304	1.2718 1.6276	Ave		1.4498			0.8000	11.3		20.0			
Aniline	1.9244 1.9821	1.8038	1.8124	1.8920	1.9765 1.9513	Ave		1.9061			0.0100	3.9		20.0			
Bis(2-chloroethyl)ether	1.1072 1.2032	1.0123	1.0481	1.0723 1.0562	1.1829 1.1640	Ave		1.1058			0.7000	6.3		20.0			
2-Chlorophenol	1.1447 1.3814	1.1674	1.1850	1.2614	1.1261 1.3381	Ave		1.2291			0.8000	8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
n-Decane	2.4630 2.3003	2.2470	2.1908 2.3130	2.3656 2.1736	2.5000 2.2636	Ave		2.3130			0.0100	4.9		20.0			
1,3-Dichlorobenzene	1.5246 1.5938	1.4018	1.4765	1.3738 1.5146	1.5609 1.5690	Ave		1.5019			0.0100	5.3		20.0			
1,4-Dichlorobenzene	1.5259 1.5918	1.4544	1.4943	1.5045 1.5349	1.6377 1.5963	Ave		1.5425			0.0100	4.0		20.0			
Benzyl alcohol	0.8837 0.8784	0.7910	0.8181	0.8372	0.9794 0.8591	Ave		0.8638			0.0100	7.0		20.0			
1,2-Dichlorobenzene	1.4507 1.5451	1.4293	1.4141	1.4179 1.4661	1.5462 1.5225	Ave		1.4740			0.0100	3.8		20.0			
2-Methylphenol	1.0354 1.1053	0.9738	1.0076	0.8214 1.0298	1.0767 1.0782	Ave		1.0160			0.7000	8.8		20.0			
2,2'-oxybis[1-chloropropane]	3.4192 3.0865	2.9791	2.9604	3.5511 2.9127	3.6348 3.0500	Ave		3.1992			0.0100	9.0		20.0			
Indene	2.4928 2.4273	2.2961	2.3700	2.3594	2.4926 2.4433	Ave		2.4116			0.0100	3.0		20.0			
3 & 4 Methylphenol	1.3051 1.3219	1.1999	1.1997	1.1077 1.2296	1.3636 1.2906	Ave		1.2523			0.6000	6.6		20.0			
N-Nitrosodi-n-propylamine	1.0521 0.9859	1.0844 0.8661	1.0704 0.8937	1.1784 0.8923	1.1503 0.9625	Ave		1.0136			0.5000	10.9		20.0			
Acetophenone	2.0129 1.8758	1.7548	2.2518 1.7089	1.8903 1.7401	2.1581 1.8268	Ave		1.9133			0.0100	10.0		20.0			
Hexachloroethane	0.6054 0.6339	0.5663	0.5798	0.5944	0.6069 0.6262	Ave		0.6018			0.3000	4.0		20.0			
Nitrobenzene	0.3395 0.4054	0.3356	0.2930 0.3455	0.3076 0.3627	0.3518 0.3802	Ave		0.3468			0.2000	9.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Isophorone	0.5803 0.6604	0.5496	0.5645	0.6310 0.5852	0.6223 0.6071	Ave		0.6001			0.4000	6.2		20.0			
2-Nitrophenol	0.1634 0.1993	0.1650	0.1646	0.1801	0.1579 0.1841	Ave		0.1735			0.1000	8.5		20.0			
2,4-Dimethylphenol	0.2870 0.3332	0.2727	0.2857	0.3025	0.3005 0.3065	Ave		0.2983			0.2000	6.5		20.0			
Bis(2-chloroethoxy)methane	0.3348 0.3958	0.3213	0.3320	0.3266 0.3446	0.3517 0.3606	Ave		0.3459			0.3000	6.9		20.0			
Benzoic acid	0.1203 0.2146	0.1393	0.1526	0.1759	+++++ 0.1888	Qua2	0.0687	0.0887	0.0042040		0.0100				0.9980		0.9900
2,4-Dichlorophenol	0.2835 0.3217	0.2767	0.2765	0.2879	0.2755 0.2952	Ave		0.2881			0.2000	5.7		20.0			
1,2,4-Trichlorobenzene	0.3168 0.3476	0.3139	0.3189	0.3005 0.3244	0.3122 0.3366	Ave		0.3213			0.0100	4.6		20.0			
Naphthalene	0.9453 1.0502	0.9168	0.8777 0.9263	0.9032 0.9593	1.0124 0.9933	Ave		0.9538			0.7000	5.8		20.0			
4-Chloroaniline	0.4028 0.4129	0.3827	0.3650	0.3848	0.4084 0.3857	Ave		0.3918			0.0100	4.3		20.0			
2,6-Dichlorophenol	0.2828 0.3135	0.2756	0.2779	0.2862	0.2969 0.2951	Ave		0.2897			0.0100	4.6		20.0			
Hexachlorobutadiene	0.1772 0.1787	0.1622	0.1690	0.1565 0.1693	0.1790 0.1715	Ave		0.1704			0.0100	4.7		20.0			
Caprolactam	0.0790 0.0996	0.0791	0.0849	0.0830	0.0786 0.0890	Ave		0.0847			0.0100	8.9		20.0			
4-Chloro-3-methylphenol	0.2701 0.3210	0.2585	0.2695	0.2798	0.2700 0.2852	Ave		0.2791			0.2000	7.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Methylnaphthalene	0.6459 0.7006	0.7298 0.6119	0.6708 0.6151	0.6972 0.6354	0.7014 0.6516	Ave		0.6660			0.4000	6.0		20.0			
1-Methylnaphthalene	0.5855 0.6371	0.5479	0.6119 0.5633	0.6459 0.5839	0.6359 0.5970	Ave		0.6009			0.0100	5.7		20.0			
Hexachlorocyclopentadiene	0.3658 0.4085	0.3877	0.3706	0.3788	+++++ 0.3934	Ave		0.3841			0.0500	4.1		20.0			
1,2,4,5-Tetrachlorobenzene	0.6435 0.6271	0.5921	0.5841	0.5899	0.6730 0.6036	Ave		0.6162			0.0100	5.4		20.0			
2,4,6-Trichlorophenol	0.4150 0.4459	0.3881	0.3988	0.3990	0.4114 0.4238	Ave		0.4117			0.2000	4.7		20.0			
2,4,5-Trichlorophenol	0.4272 0.4451	0.3813	0.3871	0.4079	0.4197 0.4390	Ave		0.4153			0.2000	5.9		20.0			
1,1'-Biphenyl	1.5057 1.6157	1.4629	1.4245	1.4612	1.5886 1.5550	Ave		1.5162			0.0100	4.7		20.0			
2-Chloronaphthalene	1.3126 1.3502	1.2218	1.1927	1.2380 1.2322	1.3290 1.2961	Ave		1.2716			0.8000	4.5		20.0			
2-Nitroaniline	0.3164 0.3857	0.3161	0.3306	0.3325	0.3253 0.3679	Ave		0.3392			0.0100	7.9		20.0			
Dimethyl phthalate	1.2925 1.3878	1.2147	1.2268	1.2557 1.2459	1.3589 1.3111	Ave		1.2867			0.0100	4.9		20.0			
m-Dinitrobenzene	0.1742 0.2132	0.1694	0.1667	0.1821	0.1664 0.1951	Ave		0.1810			0.0100	9.7		20.0			
2,6-Dinitrotoluene	0.2832 0.3212	0.2862 0.2699	0.2683 0.2757	0.2733 0.2843	0.2702 0.3024	Ave		0.2835			0.2000	5.9		20.0			
Acenaphthylene	2.0363 2.1179	1.9079	1.8058 1.8934	1.9808 1.9093	2.0161 2.0026	Ave		1.9633			0.9000	4.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
3-Nitroaniline	0.2925 0.2900	0.2584	0.2546	0.2487	0.2785 0.2664	Ave		0.2699			0.0100	6.4		20.0			
2,4-Dinitrophenol	0.1186 0.1878	0.1284	0.1436	0.1595	+++++ 0.1732	Ave		0.1519			0.0100	17.5		20.0			
Acenaphthene	1.2338 1.3268	1.2134	1.0570 1.2238	1.2081 1.2230	1.2598 1.2906	Ave		1.2263			0.9000	6.1		20.0			
4-Nitrophenol	0.1803 0.2206	0.1785	0.1792	0.1921	0.1513 0.2062	Ave		0.1869			0.0100	11.9		20.0			
2,4-Dinitrotoluene	0.3474 0.4188	0.3433	0.2343 0.3590	0.2947 0.3629	0.3376 0.3863	Lin1	-0.041	0.3864			0.2000				0.9950		0.9900
Dibenzofuran	1.7395 1.8097	1.6430	1.6417	1.7145 1.6270	1.8064 1.7188	Ave		1.7126			0.8000	4.2		20.0			
2,3,4,6-Tetrachlorophenol	0.3164 0.3481	0.3031	0.2938	0.3052	0.3107 0.3276	Ave		0.3150			0.0100	5.7		20.0			
Diethyl phthalate	1.2791 1.2915	1.1708	1.1468	1.2557 1.1617	1.2825 1.2175	Ave		1.2257			0.0100	4.8		20.0			
Hexadecane	0.5968 0.8656	0.6107	0.6516	0.7350	0.6001 0.8149	Ave		0.6964			0.0100	15.8		20.0			
4-Chlorophenyl phenyl ether	0.6465 0.6469	0.6289	0.5856	0.5880	0.7002 0.6151	Ave		0.6302			0.4000	6.3		20.0			
4-Nitroaniline	0.2914 0.2439	0.2598	0.2422	0.2151	+++++ 0.2178	Ave		0.2450			0.0100	11.6		20.0			
Fluorene	1.3279 1.3598	1.2637	1.2526 1.2419	1.2633 1.2577	1.4101 1.3094	Ave		1.2985			0.9000	4.4		20.0			
4,6-Dinitro-2-methylphenol	0.0937 0.1436	0.1058	0.1154	0.1244	0.0926 0.1340	Ave		0.1156			0.0100	16.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
N-Nitrosodiphenylamine	0.5227 0.5858	0.5237	0.5037 0.5333	0.5516 0.5329	0.5822 0.5617	Ave		0.5442			0.0100	5.2		20.0			
Diphenylamine	0.6149 0.6892	0.6161	0.6275	0.6270	0.6850 0.6609	Ave		0.6458			0.0100	5.0		20.0			
1,2-Diphenylhydrazine	1.3611 1.5033	1.2632	1.2581	1.3099	1.3519 1.3924	Ave		1.3486			0.0100	6.3		20.0			
4-Bromophenyl phenyl ether	0.2011 0.2131	0.2001	0.1955	0.1927	0.2326 0.2075	Ave		0.2061			0.1000	6.6		20.0			
Hexachlorobenzene	0.2108 0.2158	0.2279 0.2054	0.1984 0.1986	0.2107 0.1970	0.2318 0.2047	Ave		0.2101			0.1000	5.7		20.0			
Atrazine	0.1725 0.1705	0.1612	0.1608	0.1586	0.1962 0.1647	Ave		0.1692			0.0100	7.7		20.0			
n-Octadecane	0.6629 0.6326	0.6620	0.6403	0.6796 0.6190	0.7376 0.6213	Ave		0.6569			0.0100	5.9		20.0			
Pentachlorophenol	0.1103 0.1360	0.1183	0.1202	0.1239	0.1046 0.1299	Ave		0.1204			0.0500	9.0		20.0			
Phenanthrene	1.1071 1.1827	1.0747	1.0417 1.0556	1.1503 1.0905	1.2005 1.1338	Ave		1.1152			0.7000	5.0		20.0			
Anthracene	1.1364 1.2198	1.0987	1.0192 1.1190	1.0930 1.1259	1.2101 1.1611	Ave		1.1315			0.7000	5.4		20.0			
Carbazole	0.9499 1.0357	0.9371	0.9164	0.9383 0.9122	1.0195 0.9621	Ave		0.9589			0.0100	4.8		20.0			
Di-n-butyl phthalate	1.1341 1.3237	1.1037	1.1294	1.1392 1.1870	1.2209 1.2310	Ave		1.1836			0.0100	6.1		20.0			
Fluoranthene	1.1247 1.2230	1.0962	0.9642 1.0947	1.0178 1.1126	1.2232 1.1568	Ave		1.1126			0.6000	7.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Benzidine	0.4056 0.6057	0.4724	0.4469	0.5800	0.4472 0.5928	Ave		0.5072			0.0100	16.3		20.0			
Pyrene	1.4236 1.5054	1.3886	1.2622 1.4015	1.4049 1.4176	1.4869 1.4528	Ave		1.4160			0.6000	4.9		20.0			
Butyl benzyl phthalate	0.6378 0.7387	0.6481	0.6484	0.6141 0.6780	0.6503 0.7080	Ave		0.6654			0.0100	6.1		20.0			
3,3'-Dichlorobenzidine	0.4329 0.4750	0.4205	0.4124	0.4297	0.4099 0.4562	Ave		0.4338			0.0100	5.5		20.0			
Bis(2-ethylhexyl) phthalate	0.8554 0.9863	0.8532	0.8764	0.8688 0.9107	0.8903 0.9825	Ave		0.9029			0.0100	5.9		20.0			
Benzo[a]anthracene	1.5095 1.2237 1.3229	1.3242 1.2122	1.2169 1.2232	1.3022 1.2327	1.2979 1.2918	Ave		1.2870			0.8000	6.7		20.0			
Chrysene	1.2111 1.1142 1.2607	1.1804 1.1293	1.0585 1.1357	1.1918 1.1524	1.1898 1.2105	Ave		1.1668			0.7000	4.8		20.0			
Di-n-octyl phthalate	1.1858 1.4173	1.1906	1.1839	1.2619	1.2411 1.3334	Ave		1.2591			0.0100	7.0		20.0			
Benzo[b]fluoranthene	1.2404 1.1064 1.3265	1.0536 1.1355	1.0705 1.0914	1.0762 1.2300	1.2205 1.2071	Ave		1.1598			0.7000	7.7		20.0			
Benzo[k]fluoranthene	1.3582 1.0990 1.1996	1.1418 1.0837	1.1068 1.1201	1.1494 1.1804	1.2737 1.1996	Ave		1.1738			0.7000	7.0		20.0			
Benzo[a]pyrene	1.3790 1.1472 1.2784	1.0656 1.1207	1.0433 1.1240	1.0982 1.1720	1.1714 1.2004	Ave		1.1637			0.7000	8.3		20.0			
Indeno[1,2,3-cd]pyrene	1.1205 1.2894 1.4080	1.1294 1.2583	1.1206 1.2707	1.2528 1.3063	1.3689 1.3517	Ave		1.2615			0.5000	8.0		20.0			
Dibenz(a,h)anthracene	1.1238 1.0359 1.1326	1.0289 0.9986	0.9450 1.0297	0.9711 1.0743	1.1050 1.0854	Ave		1.0482			0.4000	5.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Benzo[g,h,i]perylene	1.1029 1.1530	1.0520	1.0756 1.0835	1.0823 1.0927	1.1639 1.1307	Ave		1.1041			0.5000	3.4		20.0			
2-Fluorophenol (Surr)	0.7182 1.2283	0.7950	0.6763 0.9269	0.8409 1.0768	0.7469 1.1556	Qua2	0.0097	0.6789	0.0380099		0.0100				0.9960		0.9900
Phenol-d5 (Surr)	1.3576 1.6033	1.3783	1.2099 1.4052	1.2015 1.5131	1.3459 1.5177	Ave		1.3925			0.0100	9.8		20.0			
Nitrobenzene-d5 (Surr)	0.3639 0.4501	0.3492	0.3397 0.3803	0.3408 0.4032	0.3482 0.3984	Ave		0.3749			0.0100	9.9		20.0			
2-Fluorobiphenyl (Surr)	1.3661 1.4369	1.2534	1.3069 1.3170	1.2774 1.3297	1.4827 1.3630	Ave		1.3481			0.0100	5.5		20.0			
2,4,6-Tribromophenol (Surr)	0.1836 0.1864	0.1603	0.1176 0.1721	0.1647 0.1714	0.1798 0.1749	Ave		0.1679			0.0100	12.3		20.0			
Terphenyl-d14 (Surr)	0.8117 0.8815	0.7496	0.7374 0.8144	0.8446 0.8208	0.8124 0.8343	Ave		0.8119			0.0100	5.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407173/3	L1STD02.D
Level 2	IC 500-407173/4	L1STD05.D
Level 3	IC 500-407173/5	L1STD1.D
Level 4	IC 500-407173/2	L1STD2.D
Level 5	IC 500-407173/6	L1STD5.D
Level 6	IC 500-407173/7	L1STD10.D
Level 7	IC 500-407173/8	L1STD20.D
Level 8	ICIS 500-407173/9	L1STD40.D
Level 9	IC 500-407173/10	L1STD50.D
Level 10	IC 500-407173/11	L1STD60.D
Level 11	IC 500-407173/12	L1STD70.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dioxane	DCBd 4	Ave	12644 199510	36767	52800	102896	6255 133302	2.00 14.0	4.00	8.00	10.0	1.00 12.0
N-Nitrosodimethylamine	DCBd 4	Ave	65022 631806	162146	233805	435972	28668 532899	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Pyridine	DCBd 4	Qua2	80635 1471814	277113	417824	940161	33052 1200191	4.00 28.0	8.00	16.0	20.0	2.00 24.0
Benzaldehyde	DCBd 4	Ave	40321 148071	72795	89993	121891	+++++ 136642	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
Phenol	DCBd 4	Ave	68948 856420	+++++ 196238	289186	567804	31202 709382	2.00 14.0	+++++ 4.00	8.00	10.0	1.00 12.0
Aniline	DCBd 4	Ave	104207 1013590	259012	373272	701939	48492 850464	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	59957 615308	145354	215866	10557 391853	29022 507301	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Chlorophenol	DCBd 4	Ave	61984 706390	167626	244053	467979	27629 583195	2.00 14.0	4.00	8.00	10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
n-Decane	DCBd 4	Ave	133371 1176326	322650	10227 476379	23290 806429	61335 986539	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
1,3-Dichlorobenzene	DCBd 4	Ave	82557 815021	201282	304106	13526 561929	38296 683833	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
1,4-Dichlorobenzene	DCBd 4	Ave	82628 813984	208832	307773	14812 569439	40181 695747	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzyl alcohol	DCBd 4	Ave	47852 449195	113573	168501	310597	24029 374428	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2-Dichlorobenzene	DCBd 4	Ave	78555 790116	205239	291240	13960 543928	37934 663565	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Methylphenol	DCBd 4	Ave	56069 565216	139835	207522	8087 382069	26415 469916	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	185151 1578370	427771	609729	34962 1080634	89177 1329283	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Indene	DCBd 4	Ave	269973 2482495	659397	976254	1750678	122307 2129797	4.00 28.0	8.00	16.0	20.0	2.00 24.0
3 & 4 Methylphenol	DCBd 4	Ave	70673 675968	172294	247080	10906 456187	33456 562478	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
N-Nitrosodi-n-propylamine	DCBd 4	Ave	56972 504176	2914 124364	4997 184066	11602 331065	28223 419511	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acetophenone	DCBd 4	Ave	108997 959232	251975	10512 351972	18611 645593	52948 796180	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Hexachloroethane	DCBd 4	Ave	32782 324142	81312	119414	220537	14889 272932	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Nitrobenzene	NPT	Ave	81702 739466	190300	6732 275400	13374 498019	40676 620086	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isophorone	NPT	Ave	139665 1204621	311633	450033	27437 803629	71951 989971	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitrophenol	NPT	Ave	39332 363526	93573	131237	247294	18251 300192	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4-Dimethylphenol	NPT	Ave	69070 607698	154627	227761	415324	34743 499792	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethoxy)methane	NPT	Ave	80583 721988	182188	264654	14201 473196	40665 588045	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzoic acid	NPT	Qua2	57917 782972	157963	243292	483127	+++++ 615759	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
2,4-Dichlorophenol	NPT	Ave	68225 586790	156918	220405	395302	31849 481326	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2,4-Trichlorobenzene	NPT	Ave	76240 634087	177963	254180	13067 445392	36092 548866	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Naphthalene	NPT	Ave	227523 1915609	519830	20168 738399	39272 1317227	117059 1619813	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Chloroaniline	NPT	Ave	96946 753110	216989	290932	528438	47219 628989	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dichlorophenol	NPT	Ave	68066 571773	156275	221529	393044	34331 481225	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobutadiene	NPT	Ave	42652 325959	91985	134702	6805 232471	20700 279645	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Caprolactam	NPT	Ave	19025 181695	44843	67653	114027	9086 145150	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Chloro-3-methylphenol	NPT	Ave	65003 585439	146558	214811	384167	31220 465085	2.00 14.0	4.00	8.00	10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Methylnaphthalene	NPT	Ave	155456 1277852	8305 346955	15413 490345	30315 872543	81094 1062556	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
1-Methylnaphthalene	NPT	Ave	140912 1161998	310683	14059 449072	28084 801813	73522 973472	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Hexachlorocyclopentadiene	ANT	Ave	44222 375931	108418	148028	261763	+++++ 314366	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	77784 577184	165568	233351	407674	40852 482304	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,6-Trichlorophenol	ANT	Ave	50167 410382	108528	159299	275759	24971 338675	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,5-Trichlorophenol	ANT	Ave	51641 409653	106636	154651	281868	25478 350781	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,1'-Biphenyl	ANT	Ave	182014 1486981	409092	569047	1009827	96431 1242552	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2-Chloronaphthalene	ANT	Ave	158669 1242642	341666	476477	30940 851518	80671 1035655	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitroaniline	ANT	Ave	38245 354944	88398	132063	229750	19745 293967	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Dimethyl phthalate	ANT	Ave	156238 1277247	339669	490098	31383 861000	82486 1047666	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
m-Dinitrobenzene	ANT	Ave	21053 196227	47367	66583	125827	10100 155935	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dinitrotoluene	ANT	Ave	34229 295658	1942 75474	3612 110120	6831 196501	16399 241608	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acenaphthylene	ANT	Ave	246157 1949196	533531	24308 756387	49505 1319478	122379 1600207	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
3-Nitroaniline	ANT	Ave	35357 266907	72246	101711	171891	16904 212859	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4-Dinitrophenol	ANT	Ave	28683 345740	71812	114760	220491	+++++ 276718	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
Acenaphthene	ANT	Ave	149151 1221094	339305	14229 488892	30193 845192	76467 1031284	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Nitrophenol	ANT	Ave	43583 406057	99854	143205	265509	18362 329613	4.00 28.0	8.00	16.0	20.0	2.00 24.0
2,4-Dinitrotoluene	ANT	Lin1	41990 385407	95991	3154 143405	7366 250787	20495 308707	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenzofuran	ANT	Ave	210284 1665532	459442	655827	42850 1124410	109647 1373443	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	38247 320414	84771	117383	210947	18861 261759	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Diethyl phthalate	ANT	Ave	154623 1188660	327390	458139	31383 802822	77848 972875	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Hexadecane	ANT	Ave	72145 796651	170767	260305	507922	36428 651153	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Chlorophenyl phenyl ether	ANT	Ave	78154 595386	175878	233922	406383	42500 491514	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Nitroaniline	ANT	Ave	35224 224505	72656	96760	148655	+++++ 174046	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
Fluorene	ANT	Ave	160525 1251490	353364	16862 496105	31572 869173	85595 1046287	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4,6-Dinitro-2-methylphenol	PHN	Ave	39058 438731	96762	149151	278625	18479 351503	4.00 28.0	8.00	16.0	20.0	2.00 24.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
N-Nitrosodiphenylamine	PHN	Ave	108934 895112	239526	11635 344766	23020 596729	58102 736922	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Diphenylamine	PHN	Ave	108934 895112	239526	344766	596729	58102 736922	1.70 11.9	3.40	6.80	8.50	0.850 10.2
1,2-Diphenylhydrazine	ANT	Ave	164541 1383596	353239	502585	905269	82059 1112650	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Bromophenyl phenyl ether	PHN	Ave	41915 325576	91521	126396	215777	23215 272229	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobenzene	PHN	Ave	43926 329734	2606 93938	4583 128401	8791 220587	23128 268553	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Atrazine	PHN	Ave	35953 260557	73740	103950	177617	19581 216055	2.00 14.0	4.00	8.00	10.0	1.00 12.0
n-Octadecane	PHN	Ave	138161 966560	302765	413938	28361 693135	73601 815045	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Pentachlorophenol	PHN	Ave	45955 415635	108243	155385	277368	20873 340801	4.00 28.0	8.00	16.0	20.0	2.00 24.0
Phenanthrene	PHN	Ave	230724 1807097	491536	24063 682380	48005 1220992	119804 1487445	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Anthracene	PHN	Ave	236842 1863730	502498	23542 723361	45615 1260647	120754 1523204	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Carbazole	PHN	Ave	197973 1582452	428598	592364	39159 1021350	101734 1262131	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Di-n-butyl phthalate	PHN	Ave	236352 2022540	504777	730061	47540 1329082	121831 1614900	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Fluoranthene	PHN	Ave	234394 1868607	501365	22271 707624	42474 1245732	122065 1517575	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Benzidine	CRY	Ave	66475 759867	171551	227269	520135	36928 618176	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Pyrene	CRY	Ave	233323 1888665	504276	23105 712763	46169 1271372	122790 1514981	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Butyl benzyl phthalate	CRY	Ave	104533 926760	235350	329733	20180 608051	53706 738307	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
3,3'-Dichlorobenzidine	CRY	Ave	70942 595918	152706	209734	385375	33849 475662	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	140191 1237371	309825	445680	28551 816694	73520 1024487	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzo[a]anthracene	CRY	Ave	3992 200551 1659666	12292 440211	22275 622068	42795 1105484	107181 1347076	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Chrysene	CRY	Ave	3203 182620 1581603	10957 410092	19376 577573	39167 1033531	98259 1262287	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Di-n-octyl phthalate	PHN	Ave	247137 2165493	544537	765284	1412926	123851 1749327	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Benzo[b]fluoranthene	PRY	Ave	3042 181126 1648719	9619 420299	19228 558609	35870 1098393	98681 1282214	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[k]fluoranthene	PRY	Ave	3331 179917 1490897	10424 401119	19879 573332	38310 1054086	102988 1274239	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[a]pyrene	PRY	Ave	3382 187808 1588833	9729 414828	18739 575309	36604 1046570	94715 1275029	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	2748 211083 1749965	10311 465734	20127 650386	41755 1166500	110680 1435753	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenz(a,h)anthracene	PRY	Ave	2756 169581 1407629	9394 369638	16973 527051	32367 959353	89344 1152918	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Benzo[g,h,i]perylene	PRY	Ave	180552 1433023	389384	19319 554591	36075 975766	94104 1201062	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorophenol (Surr)	DCBd 4	Qua2	38888 628108	114156	3157 190900	8279 399512	18325 503672	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Phenol-d5 (Surr)	DCBd 4	Ave	73515 819894	197911	5648 289410	11829 561388	33021 661459	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Nitrobenzene-d5 (Surr)	NPT	Ave	87588 821063	198000	7805 303179	14817 553595	40262 649762	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorobiphenyl (Surr)	ANT	Ave	165137 1322430	350506	17593 526103	31925 918925	90000 1089140	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	22200 171585	44814	1583 68770	4116 118461	10911 139736	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Terphenyl-d14 (Surr)	CRY	Ave	133039 1105949	272213	13499 414171	27756 736148	67089 870035	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua2 = Quadratic 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407173/3	L1STD02.D
Level 2	IC 500-407173/4	L1STD05.D
Level 3	IC 500-407173/5	L1STD1.D
Level 4	IC 500-407173/2	L1STD2.D
Level 5	IC 500-407173/6	L1STD5.D
Level 6	IC 500-407173/7	L1STD10.D
Level 7	IC 500-407173/8	L1STD20.D
Level 8	ICIS 500-407173/9	L1STD40.D
Level 9	IC 500-407173/10	L1STD50.D
Level 10	IC 500-407173/11	L1STD60.D
Level 11	IC 500-407173/12	L1STD70.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
1,4-Dioxane	-9.2	-9.1	-1.7	8.4	-9.6 38.3 *	-17.2	30	30	30	30	50 30	30
N-Nitrosodimethylamine	-4.4	-3.9	-0.5	3.5	-1.1 4.6	1.7	30	30	30	30	50 30	30
Pyridine	6.0	-7.0	2.0	1.8	0.3 -0.5	-2.5	30	30	30	30	50 30	30
Benzaldehyde	16.1	0.1	-24.8	-28.2	+++++ -33.7 *	70.5 *	30	30	30	30	30	50
Phenol	-5.7	+++++ -3.2	5.6	12.3	-12.3 15.5	-12.2	30	30	30	30	50 30	30
Aniline	-5.4	-4.9	-0.7	2.4	3.7 4.0	1.0	30	30	30	30	50 30	30
Bis(2-chloroethyl)ether	-8.5	-5.2	-4.5	-3.0 5.3	7.0 8.8	0.1	30	30	30	50 30	30 30	30
2-Chlorophenol	-5.0	-3.6	2.6	8.9	-8.4 12.4	-6.9	30	30	30	30	50 30	30
n-Decane	-2.9	0.0	-5.3 -6.0	2.3 -2.1	8.1 -0.5	6.5	30	30	50 30	30 30	30 30	30
1,3-Dichlorobenzene	-6.7	-1.7	0.8	-8.5 4.5	3.9 6.1	1.5	30	30	30	50 30	30 30	30
1,4-Dichlorobenzene	-5.7	-3.1	-0.5	-2.5 3.5	6.2 3.2	-1.1	30	30	30	50 30	30 30	30
Benzyl alcohol	-8.4	-5.3	-3.1	-0.5	13.4 1.7	2.3	30	30	30	30	50 30	30
1,2-Dichlorobenzene	-3.0	-4.1	-0.5	-3.8 3.3	4.9 4.8	-1.6	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
2-Methylphenol	-4.2	-0.8	1.4	-19.2 6.1	6.0 8.8	1.9	30	30	30	50 30	30 30	30
2,2'-oxybis[1-chloropropane]	-6.9	-7.5	-9.0	11.0 -4.7	13.6 -3.5	6.9	30	30	30	50 30	30 30	30
Indene	-4.8	-1.7	-2.2	1.3	3.4 0.6	3.4	30	30	30	30	50 30	30
3 & 4 Methylphenol	-4.2	-4.2	-1.8	-11.5 3.1	8.9 5.6	4.2	30	30	30	50 30	30 30	30
N-Nitrosodi-n-propylamine	-14.6	7.0 -11.8	5.6 -12.0	16.3 -5.0	13.5 -2.7	3.8	30	50 30	30 30	30 30	30 30	30
Acetophenone	-8.3	-10.7	17.7 -9.1	-1.2 -4.5	12.8 -2.0	5.2	30	30	50 30	30 30	30 30	30
Hexachloroethane	-5.9	-3.7	-1.2	4.1	0.8 5.3	0.6	30	30	30	30	50 30	30
Nitrobenzene	-3.2	-0.4	-15.5 4.6	-11.3 9.6	1.4 16.9	-2.1	30	30	50 30	30 30	30 30	30
Isophorone	-8.4	-5.9	-2.5	5.2 1.2	3.7 10.1	-3.3	30	30	30	50 30	30 30	30
2-Nitrophenol	-4.9	-5.1	3.8	6.1	-9.0 14.9	-5.8	30	30	30	30	50 30	30
2,4-Dimethylphenol	-8.6	-4.2	1.4	2.7	0.7 11.7	-3.8	30	30	30	30	50 30	30
Bis(2-chloroethoxy)methane	-7.1	-4.0	-0.4	-5.6 4.2	1.7 14.4	-3.2	30	30	30	50 30	30 30	30
Benzoic acid	5.3	-3.5	-0.1	-1.3	+++++ 1.8	-2.0	30	30	30	30	30	50
2,4-Dichlorophenol	-4.0	-4.0	-0.1	2.4	-4.4 11.7	-1.6	30	30	30	30	50 30	30
1,2,4-Trichlorobenzene	-2.3	-0.8	0.9	-6.5 4.7	-2.9 8.2	-1.4	30	30	30	50 30	30 30	30
Naphthalene	-3.9	-2.9	-8.0 0.6	-5.3 4.1	6.1 10.1	-0.9	30	30	50 30	30 30	30 30	30
4-Chloroaniline	-2.3	-6.8	-1.8	-1.5	4.2 5.4	2.8	30	30	30	30	50 30	30
2,6-Dichlorophenol	-4.9	-4.1	-1.2	1.9	2.5 8.2	-2.4	30	30	30	30	50 30	30
Hexachlorobutadiene	-4.8	-0.9	-0.7	-8.2 0.6	5.0 4.9	4.0	30	30	30	50 30	30 30	30
Caprolactam	-6.7	0.1	-2.0	5.0	-7.3 17.5	-6.7	30	30	30	30	50 30	30
4-Chloro-3-methylphenol	-7.4	-3.5	0.2	2.2	-3.3 15.0	-3.2	30	30	30	30	50 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
2-Methylnaphthalene	-8.1	9.6 -7.6	0.7 -4.6	4.7 -2.2	5.3 5.2	-3.0	30	50 30	30 30	30 30	30 30	30
1-Methylnaphthalene	-8.8	-6.3	1.8 -2.8	7.5 -0.7	5.8 6.0	-2.6	30	30	50 30	30 30	30 30	30
Hexachlorocyclopentadiene	0.9	-3.5	-1.4	2.4	+++++ 6.3	-4.8	30	30	30	30	30	50
1,2,4,5-Tetrachlorobenzene	-3.9	-5.2	-4.3	-2.0	9.2 1.8	4.4	30	30	30	30	50 30	30
2,4,6-Trichlorophenol	-5.7	-3.1	-3.1	2.9	-0.1 8.3	0.8	30	30	30	30	50 30	30
2,4,5-Trichlorophenol	-8.2	-6.8	-1.8	5.7	1.1 7.2	2.9	30	30	30	30	50 30	30
1,1'-Biphenyl	-3.5	-6.1	-3.6	2.6	4.8 6.6	-0.7	30	30	30	30	50 30	30
2-Chloronaphthalene	-3.9	-6.2	-3.1	-2.6 1.9	4.5 6.2	3.2	30	30	30	50 30	30 30	30
2-Nitroaniline	-6.8	-2.5	-2.0	8.5	-4.1 13.7	-6.7	30	30	30	30	50 30	30
Dimethyl phthalate	-5.6	-4.7	-3.2	-2.4 1.9	5.6 7.9	0.4	30	30	30	50 30	30 30	30
m-Dinitrobenzene	-6.4	-7.9	0.6	7.8	-8.1 17.8	-3.8	30	30	30	30	50 30	30
2,6-Dinitrotoluene	-4.8	1.0 -2.8	-5.3 0.3	-3.6 6.7	-4.7 13.3	-0.1	30	50 30	30 30	30 30	30 30	30
Acenaphthylene	-2.8	-3.6	-8.0 -2.8	0.9 2.0	2.7 7.9	3.7	30	30	50 30	30 30	30 30	30
3-Nitroaniline	-4.3	-5.7	-7.8	-1.3	3.2 7.5	8.4	30	30	30	30	50 30	30
2,4-Dinitrophenol	-15.4	-5.4	5.0	14.0	+++++ 23.7	-21.9	30	30	30	30	30	50
Acenaphthene	-1.1	-0.2	-13.8 -0.3	-1.5 5.2	2.7 8.2	0.6	30	30	50 30	30 30	30 30	30
4-Nitrophenol	-4.5	-4.1	2.8	10.4	-19.1 18.0	-3.5	30	30	30	30	50 30	30
2,4-Dinitrotoluene	-8.5	-5.8	13.5 -5.0	2.7 0.9	-2.0 9.1	-4.8	30	30	50 30	30 30	30 30	30
Dibenzofuran	-4.1	-4.1	-5.0	0.1 0.4	5.5 5.7	1.6	30	30	30	50 30	30 30	30
2,3,4,6-Tetrachlorophenol	-3.8	-6.7	-3.1	4.0	-1.4 10.5	0.4	30	30	30	30	50 30	30
Diethyl phthalate	-4.5	-6.4	-5.2	2.4 -0.7	4.6 5.4	4.4	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
Hexadecane	-12.3	-6.4	5.5	17.0	-13.8 24.3	-14.3	30	30	30	30	50 30	30
4-Chlorophenyl phenyl ether	-0.2	-7.1	-6.7	-2.4	11.1 2.7	2.6	30	30	30	30	50 30	30
4-Nitroaniline	6.0	-1.2	-12.2	-11.1	+++++ -0.5	18.9	30	30	30	30	30	50
Fluorene	-2.7	-4.4	-3.5 -3.1	-2.7 0.8	8.6 4.7	2.3	30	30	50 30	30 30	30 30	30
4,6-Dinitro-2-methylphenol	-8.5	-0.2	7.6	15.9	-19.9 24.2	-19.0	30	30	30	30	50 30	30
N-Nitrosodiphenylamine	-3.8	-2.0	-7.4 -2.1	1.4 3.2	7.0 7.7	-4.0	30	30	50 30	30 30	30 30	30
Diphenylamine	-4.6	-2.8	-2.9	2.3	6.1 6.7	-4.8	30	30	30	30	50 30	30
1,2-Diphenylhydrazine	-6.3	-6.7	-2.9	3.3	0.2 11.5	0.9	30	30	30	30	50 30	30
4-Bromophenyl phenyl ether	-2.9	-5.1	-6.5	0.7	12.9 3.4	-2.4	30	30	30	30	50 30	30
Hexachlorobenzene	-2.2	8.5 -5.5	-5.6 -6.2	0.3 -2.6	10.3 2.7	0.3	30	50 30	30 30	30 30	30 30	30
Atrazine	-4.7	-5.0	-6.3	-2.7	15.9 0.8	1.9	30	30	30	30	50 30	30
n-Octadecane	0.8	-2.5	-5.8	3.5 -5.4	12.3 -3.7	0.9	30	30	30	50 30	30 30	30
Pentachlorophenol	-1.8	-0.2	2.8	7.8	-13.2 12.9	-8.5	30	30	30	30	50 30	30
Phenanthrene	-3.6	-5.3	-6.6 -2.2	3.1 1.7	7.7 6.1	-0.7	30	30	50 30	30 30	30 30	30
Anthracene	-2.9	-1.1	-9.9 -0.5	-3.4 2.6	6.9 7.8	0.4	30	30	50 30	30 30	30 30	30
Carbazole	-2.3	-4.4	-4.9	-2.1 0.3	6.3 8.0	-0.9	30	30	30	50 30	30 30	30
Di-n-butyl phthalate	-6.8	-4.6	0.3	-3.8 4.0	3.1 11.8	-4.2	30	30	30	50 30	30 30	30
Fluoranthene	-1.5	-1.6	-13.3 0.0	-8.5 4.0	9.9 9.9	1.1	30	30	50 30	30 30	30 30	30
Benzidine	-6.9	-11.9	14.3	16.9	-11.8 19.4	-20.0	30	30	30	30	50 30	30
Pyrene	-1.9	-1.0	-10.9 0.1	-0.8 2.6	5.0 6.3	0.5	30	30	50 30	30 30	30 30	30
Butyl benzyl phthalate	-2.6	-2.6	1.9	-7.7 6.4	-2.3 11.0	-4.2	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
3,3'-Dichlorobenzidine	-3.1	-4.9	-0.9	5.2	-5.5 9.5	-0.2	30	30	30	30	50 30	30
Bis(2-ethylhexyl) phthalate	-5.5	-2.9	0.9	-3.8 8.8	-1.4 9.2	-5.3	30	30	30	50 30	30 30	30
Benzo[a]anthracene	17.3 -5.8	2.9 -5.0	-5.5 -4.2	1.2 0.4	0.8 2.8	-4.9	50 30	30 30	30 30	30 30	30 30	30
Chrysene	3.8 -3.2	1.2 -2.7	-9.3 -1.2	2.1 3.7	2.0 8.0	-4.5	50 30	30 30	30 30	30 30	30 30	30
Di-n-octyl phthalate	-5.4	-6.0	0.2	5.9	-1.4 12.6	-5.8	30	30	30	30	50 30	30
Benzo[b]fluoranthene	6.9 -2.1	-9.2 -5.9	-7.7 6.1	-7.2 4.1	5.2 14.4	-4.6	50 30	30 30	30 30	30 30	30 30	30
Benzo[k]fluoranthene	15.7 -7.7	-2.7 -4.6	-5.7 0.6	-2.1 2.2	8.5 2.2	-6.4	50 30	30 30	30 30	30 30	30 30	30
Benzo[a]pyrene	18.5 -3.7	-8.4 -3.4	-10.3 0.7	-5.6 3.2	0.7 9.9	-1.4	50 30	30 30	30 30	30 30	30 30	30
Indeno[1,2,3-cd]pyrene	-11.2 -0.3	-10.5 0.7	-11.2 3.6	-0.7 7.2	8.5 11.6	2.2	50 30	30 30	30 30	30 30	30 30	30
Dibenz(a,h)anthracene	7.2 -4.7	-1.8 -1.8	-9.8 2.5	-7.4 3.5	5.4 8.0	-1.2	50 30	30 30	30 30	30 30	30 30	30
Benzo[g,h,i]perylene	-4.7	-1.9	-2.6 -1.0	-2.0 2.4	5.4 4.4	-0.1	30	30	50 30	30 30	30 30	30
2-Fluorophenol (Surr)	-3.9	-4.5	-8.5 1.2	17.2 1.2	2.7 0.9	-5.0	30	30	50 30	30 30	30 30	30
Phenol-d5 (Surr)	-1.0	0.9	-13.1 8.7	-13.7 9.0	-3.3 15.1	-2.5	30	30	50 30	30 30	30 30	30
Nitrobenzene-d5 (Surr)	-6.8	1.5	-9.4 7.5	-9.1 6.3	-7.1 20.1	-2.9	30	30	50 30	30 30	30 30	30
2-Fluorobiphenyl (Surr)	-7.0	-2.3	-3.1 -1.4	-5.2 1.1	10.0 6.6	1.3	30	30	50 30	30 30	30 30	30
2,4,6-Tribromophenol (Surr)	-4.5	2.5	-29.9 2.1	-1.9 4.2	7.1 11.1	9.4	30	30	50 30	30 30	30 30	30
Terphenyl-d14 (Surr)	-7.7	0.3	-9.2 1.1	4.0 2.8	0.1 8.6	0.0	30	30	50 30	30 30	30 30	30

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD2.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 26-Oct-2017 16:56:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-002
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:11 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: swaneyg Date: 26-Oct-2017 19:22:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	97	78763	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	99	347853	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	95	199936	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	333855	3.20	3.20	
* 5 Chrysene-d12	240	13.830	13.830	0.000	99	262902	3.20	3.20	
* 6 Perylene-d12	264	17.848	17.839	0.009	99	266644	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	94	8279	0.4000	0.4689	
$ 8 Phenol-d5	99	6.164	6.173	-0.009	90	11829	0.4000	0.3451	
$ 9 Nitrobenzene-d5	82	6.958	6.963	-0.005	92	14817	0.4000	0.3636	
$ 10 2-Fluorobiphenyl	172	8.466	8.470	-0.004	96	31925	0.4000	0.3790	
$ 11 2,4,6-Tribromophenol	330	9.731	9.731	0.000	92	4116	0.4000	0.3924	
$ 12 Terphenyl-d14	244	12.013	12.009	0.004	99	27756	0.4000	0.4161	
28 Bis(2-chloroethyl)ether	93	6.259	6.264	-0.005	98	10557	0.4000	0.3879	
30 n-Decane	43	6.359	6.359	0.000	70	23290	0.4000	0.4091	
31 1,3-Dichlorobenzene	146	6.473	6.473	0.000	97	13526	0.4000	0.3659	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	94	14812	0.4000	0.3901	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	95	13960	0.4000	0.3848	
38 2-Methylphenol	107	6.677	6.682	-0.005	80	8087	0.4000	0.3234	
39 2,2'-oxybis[1-chloropropan	45	6.711	6.711	0.000	88	34962	0.4000	0.4440	
42 3 & 4 Methylphenol	108	6.801	6.806	-0.005	96	10906	0.4000	0.3538	
43 N-Nitrosodi-n-propylamine	70	6.811	6.820	-0.009	91	11602	0.4000	0.4650	
44 Acetophenone	105	6.825	6.835	-0.010	94	18611	0.4000	0.3952	
46 Nitrobenzene	77	6.977	6.982	-0.005	92	13374	0.4000	0.3548	
48 Isophorone	82	7.167	7.172	-0.005	94	27437	0.4000	0.4206	
52 Bis(2-chloroethoxy)methane	93	7.324	7.329	-0.005	96	14201	0.4000	0.3776	
56 1,2,4-Trichlorobenzene	180	7.524	7.529	-0.005	93	13067	0.4000	0.3741	
58 Naphthalene	128	7.600	7.600	0.000	98	39272	0.4000	0.3788	
63 Hexachlorobutadiene	225	7.695	7.695	0.000	92	6805	0.4000	0.3673	
68 2-Methylnaphthalene	142	8.176	8.176	0.000	98	30315	0.4000	0.4188	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
70 1-Methylnaphthalene	142	8.261	8.261	0.000	97	28084	0.4000	0.4299	
80 2-Chloronaphthalene	162	8.589	8.594	-0.005	98	30940	0.4000	0.3894	
82 Dimethyl phthalate	163	8.779	8.789	-0.010	98	31383	0.4000	0.3904	
84 2,6-Dinitrotoluene	165	8.841	8.846	-0.005	91	6831	0.4000	0.3857	
86 Acenaphthylene	152	8.946	8.946	0.000	97	49505	0.4000	0.4036	
90 Acenaphthene	154	9.093	9.093	0.000	92	30193	0.4000	0.3941	
95 2,4-Dinitrotoluene	165	9.184	9.193	-0.009	90	7366	0.4000	0.4108	
97 Dibenzofuran	168	9.231	9.236	-0.005	96	42850	0.4000	0.4005	
100 Diethyl phthalate	149	9.369	9.374	-0.005	97	31383	0.4000	0.4098	
104 Fluorene	166	9.526	9.526	0.000	97	31572	0.4000	0.3892	
111 N-Nitrosodiphenylamine	169	9.593	9.598	-0.005	67	23020	0.4000	0.4055	
122 Hexachlorobenzene	284	10.006	10.011	-0.005	95	8791	0.4000	0.4010	
124 n-Octadecane	43	10.149	10.149	0.000	79	28361	0.4000	0.4138	
127 Phenanthrene	178	10.349	10.354	-0.005	96	48005	0.4000	0.4126	
128 Anthracene	178	10.396	10.396	0.000	99	45615	0.4000	0.3864	
129 Carbazole	167	10.520	10.520	0.000	96	39159	0.4000	0.3914	
133 Di-n-butyl phthalate	149	10.786	10.786	0.000	99	47540	0.4000	0.3850	
136 Fluoranthene	202	11.571	11.571	0.000	97	42474	0.4000	0.3659	
141 Pyrene	202	11.861	11.866	-0.005	98	46169	0.4000	0.3969	
147 Butyl benzyl phthalate	149	12.698	12.703	-0.005	96	20180	0.4000	0.3691	
150 Bis(2-ethylhexyl) phthalat	149	13.797	13.792	0.005	72	28551	0.4000	0.3849	
151 Benzo[a]anthracene	228	13.801	13.806	-0.005	98	42795	0.4000	0.4047	
152 Chrysene	228	13.877	13.887	-0.010	98	39167	0.4000	0.4086	
157 Benzo[b]fluoranthene	252	16.512	16.541	-0.029	97	35870	0.4000	0.3712	
158 Benzo[k]fluoranthene	252	16.602	16.626	-0.024	98	38310	0.4000	0.3917	
160 Benzo[a]pyrene	252	17.620	17.634	-0.014	98	36604	0.4000	0.3775	
163 Indeno[1,2,3-cd]pyrene	276	20.640	20.664	-0.024	97	41755	0.4000	0.3972	
164 Dibenz(a,h)anthracene	278	20.711	20.726	-0.015	96	32367	0.4000	0.3706	
165 Benzo[g,h,i]perylene	276	21.348	21.382	-0.034	98	36075	0.4000	0.3921	
S 171 Methyl Phenols,Total	1				0			0.6772	
S 170 Total Cresols, TCEQ Defini	1				0			0.6772	

Reagents:

SMlst1_5uLL4_00034 Amount Added: 1.00 Units: mL

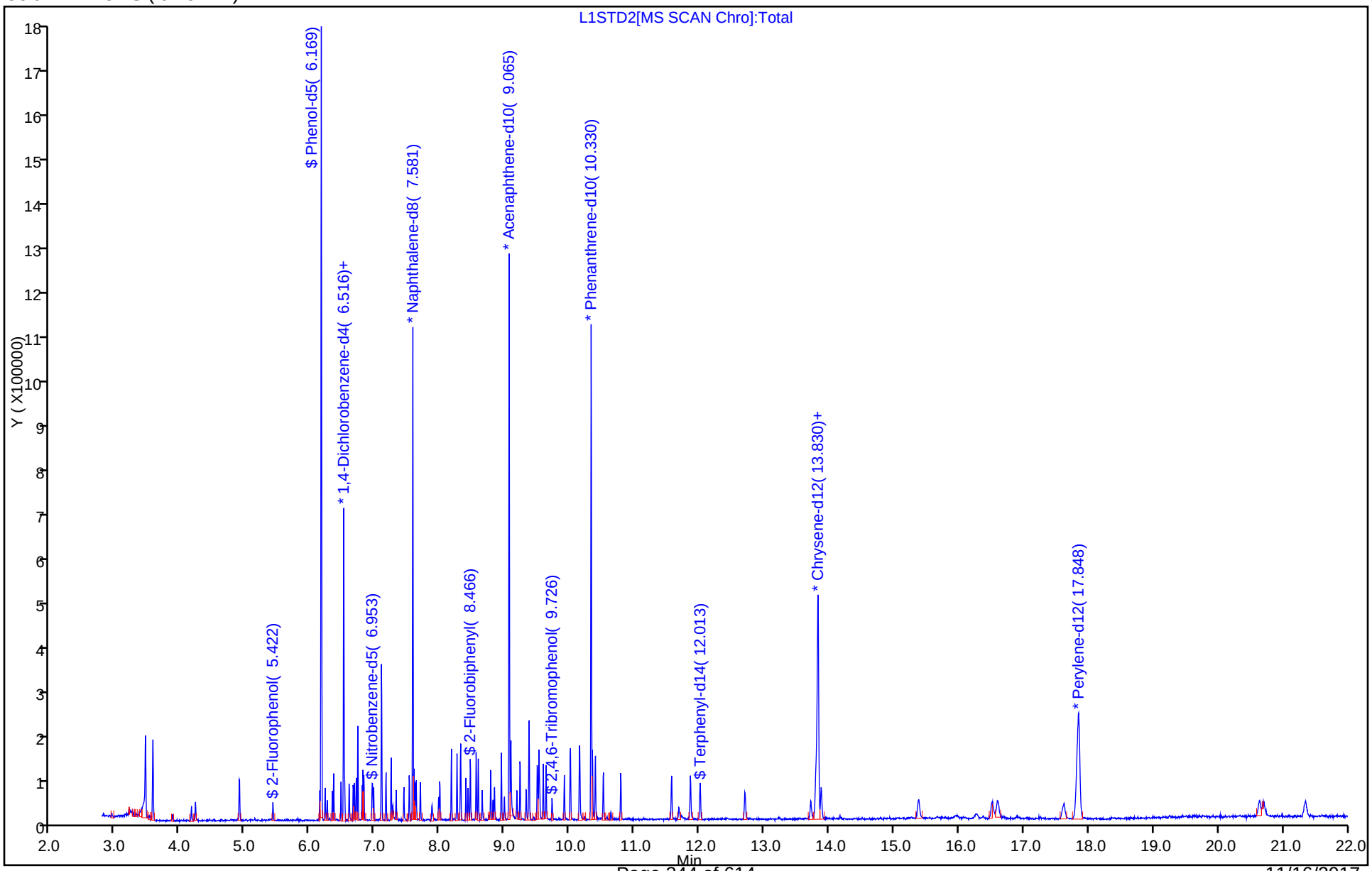
Report Date: 09-Nov-2017 15:46:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD2.D

Injection Date:	26-Oct-2017 16:56:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD02.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 26-Oct-2017 17:26:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-003
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:15 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:00:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.511	6.516	-0.005	96	66209	3.20	3.20	
* 2 Naphthalene-d8	136	7.576	7.581	-0.005	99	261121	3.20	3.20	
* 3 Acenaphthene-d10	164	9.060	9.065	-0.005	94	154056	3.20	3.20	
* 4 Phenanthrene-d10	188	10.325	10.330	-0.005	98	262583	3.20	3.20	
* 5 Chrysene-d12	240	13.825	13.830	-0.005	99	211571	3.20	3.20	
* 6 Perylene-d12	264	17.829	17.839	-0.010	98	196199	3.20	3.20	
151 Benzo[a]anthracene	228	13.797	13.806	-0.009	48	3992	0.0400	0.0469	
152 Chrysene	228	13.877	13.887	-0.010	89	3203	0.0400	0.0415	
157 Benzo[b]fluoranthene	252	16.517	16.541	-0.024	1	3042	0.0400	0.0428	
158 Benzo[k]fluoranthene	252	16.593	16.626	-0.033	19	3331	0.0400	0.0463	
160 Benzo[a]pyrene	252	17.615	17.634	-0.019	1	3382	0.0400	0.0474	
163 Indeno[1,2,3-cd]pyrene	276	20.626	20.664	-0.038	1	2748	0.0400	0.0355	
164 Dibenz(a,h)anthracene	278	20.702	20.726	-0.024	1	2756	0.0400	0.0429	

Reagents:

SMlst1_5uLL1_00034 Amount Added: 1.00 Units: mL

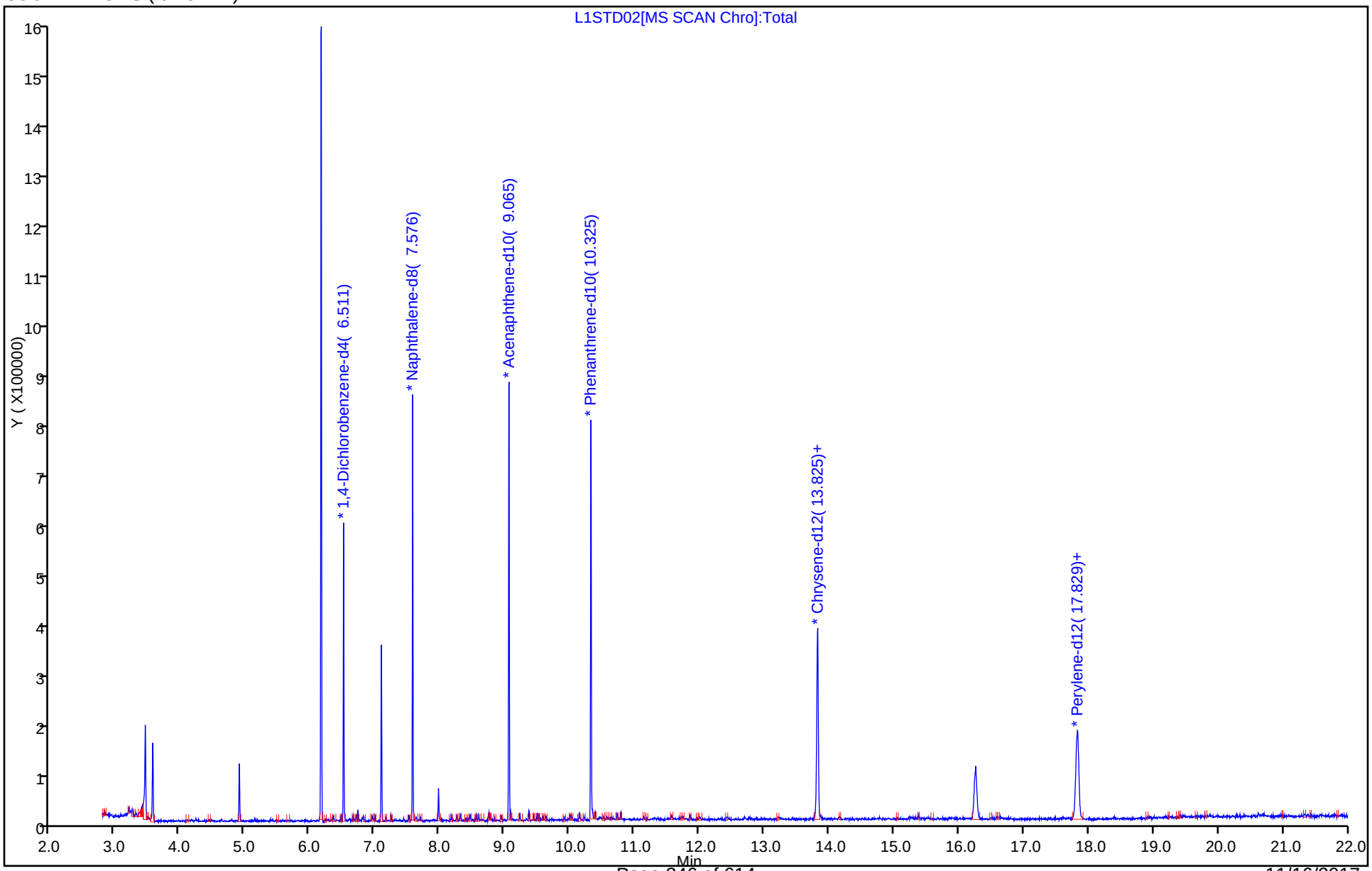
Report Date: 09-Nov-2017 15:46:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD02.D

Injection Date:	26-Oct-2017 17:26:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD05.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Oct-2017 17:56:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-004
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:20 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:04:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.511	6.516	-0.005	95	85988	3.20	3.20	
* 2 Naphthalene-d8	136	7.576	7.581	-0.005	99	364152	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	96	217115	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	365862	3.20	3.20	
* 5 Chrysene-d12	240	13.820	13.830	-0.010	99	297035	3.20	3.20	
* 6 Perylene-d12	264	17.829	17.839	-0.010	98	292151	3.20	3.20	
43 N-Nitrosodi-n-propylamine	70	6.811	6.820	-0.009	90	2914	0.1000	0.1070	
68 2-Methylnaphthalene	142	8.171	8.176	-0.005	98	8305	0.1000	0.1096	
84 2,6-Dinitrotoluene	165	8.837	8.846	-0.009	89	1942	0.1000	0.1010	
122 Hexachlorobenzene	284	10.006	10.011	-0.005	92	2606	0.1000	0.1085	
151 Benzo[a]anthracene	228	13.806	13.806	0.000	86	12292	0.1000	0.1029	
152 Chrysene	228	13.878	13.887	-0.009	98	10957	0.1000	0.1012	
157 Benzo[b]fluoranthene	252	16.512	16.541	-0.029	96	9619	0.1000	0.0908	
158 Benzo[k]fluoranthene	252	16.593	16.626	-0.033	95	10424	0.1000	0.0973	
160 Benzo[a]pyrene	252	17.596	17.634	-0.038	86	9729	0.1000	0.0916	
163 Indeno[1,2,3-cd]pyrene	276	20.621	20.664	-0.043	97	10311	0.1000	0.0895	
164 Dibenz(a,h)anthracene	278	20.692	20.726	-0.034	51	9394	0.1000	0.0982	

Reagents:

SMlst1_5uLL2_00033 Amount Added: 1.00 Units: mL

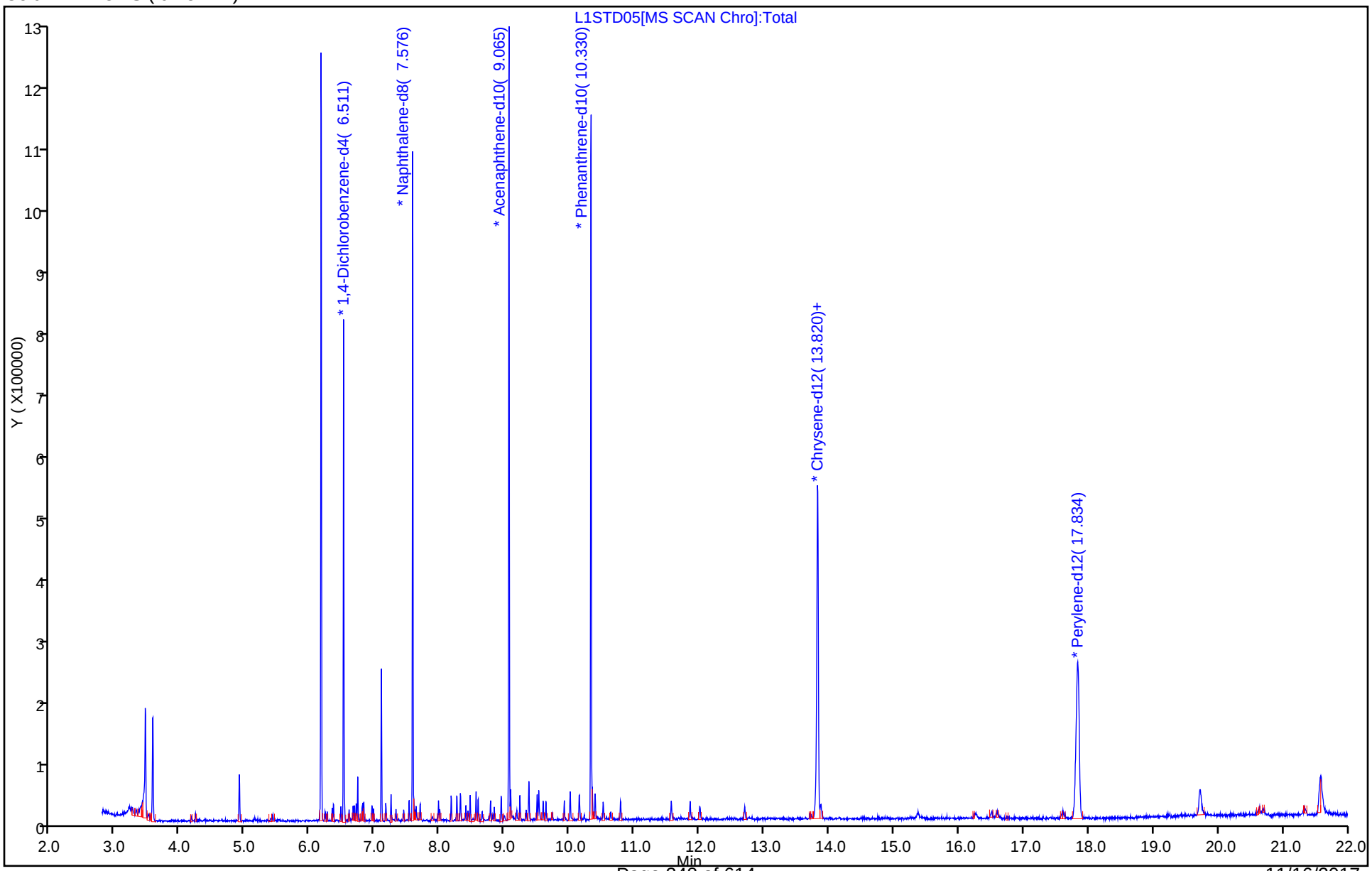
Report Date: 09-Nov-2017 15:46:23 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD05.D

Injection Date:	26-Oct-2017 17:56:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD1.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 26-Oct-2017 18:26:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-005
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:26 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:06:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.511	6.516	-0.005	97	74691	3.20	3.20	
* 2 Naphthalene-d8	136	7.576	7.581	-0.005	99	367634	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	95	215383	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	369584	3.20	3.20	
* 5 Chrysene-d12	240	13.820	13.830	-0.010	99	292887	3.20	3.20	
* 6 Perylene-d12	264	17.839	17.839	0.000	98	287378	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	96	3157	0.2000	0.1831	
$ 8 Phenol-d5	99	6.164	6.173	-0.009	45	5648	0.2000	0.1738	
$ 9 Nitrobenzene-d5	82	6.958	6.963	-0.005	90	7805	0.2000	0.1812	
$ 10 2-Fluorobiphenyl	172	8.466	8.470	-0.004	96	17593	0.2000	0.1939	
$ 11 2,4,6-Tribromophenol	330	9.731	9.731	0.000	86	1583	0.2000	0.1401	
$ 12 Terphenyl-d14	244	12.004	12.009	-0.005	99	13499	0.2000	0.1817	
30 n-Decane	43	6.354	6.359	-0.005	71	10227	0.2000	0.1894	
43 N-Nitrosodi-n-propylamine	70	6.811	6.820	-0.009	91	4997	0.2000	0.2112	
44 Acetophenone	105	6.825	6.835	-0.010	90	10512	0.2000	0.2354	
46 Nitrobenzene	77	6.972	6.982	-0.010	90	6732	0.2000	0.1690	
58 Naphthalene	128	7.595	7.600	-0.005	97	20168	0.2000	0.1840	
68 2-Methylnaphthalene	142	8.171	8.176	-0.005	99	15413	0.2000	0.2015	
70 1-Methylnaphthalene	142	8.261	8.261	0.000	99	14059	0.2000	0.2036	
84 2,6-Dinitrotoluene	165	8.837	8.846	-0.010	91	3612	0.2000	0.1893	
86 Acenaphthylene	152	8.946	8.946	0.000	97	24308	0.2000	0.1839	
90 Acenaphthene	154	9.089	9.093	-0.004	92	14229	0.2000	0.1724	
95 2,4-Dinitrotoluene	165	9.184	9.193	-0.009	83	3154	0.2000	0.2269	
104 Fluorene	166	9.521	9.526	-0.005	94	16862	0.2000	0.1929	
111 N-Nitrosodiphenylamine	169	9.593	9.598	-0.005	66	11635	0.2000	0.1851	
122 Hexachlorobenzene	284	10.002	10.011	-0.009	94	4583	0.2000	0.1889	
127 Phenanthrene	178	10.349	10.354	-0.005	97	24063	0.2000	0.1868	
128 Anthracene	178	10.392	10.396	-0.004	99	23542	0.2000	0.1802	
136 Fluoranthene	202	11.566	11.571	-0.005	97	22271	0.2000	0.1733	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
141 Pyrene	202	11.856	11.866	-0.010	98	23105	0.2000	0.1783	
151 Benzo[a]anthracene	228	13.797	13.806	-0.009	94	22275	0.2000	0.1891	
152 Chrysene	228	13.873	13.887	-0.014	98	19376	0.2000	0.1814	
157 Benzo[b]fluoranthene	252	16.507	16.541	-0.034	98	19228	0.2000	0.1846	
158 Benzo[k]fluoranthene	252	16.593	16.626	-0.033	75	19879	0.2000	0.1886	
160 Benzo[a]pyrene	252	17.615	17.634	-0.019	96	18739	0.2000	0.1793	
163 Indeno[1,2,3-cd]pyrene	276	20.630	20.664	-0.034	96	20127	0.2000	0.1777	
164 Dibenz(a,h)anthracene	278	20.706	20.726	-0.020	80	16973	0.2000	0.1803	
165 Benzo[g,h,i]perylene	276	21.339	21.382	-0.043	97	19319	0.2000	0.1948	

Reagents:

SMlst1_5uLL3_00033 Amount Added: 1.00 Units: mL

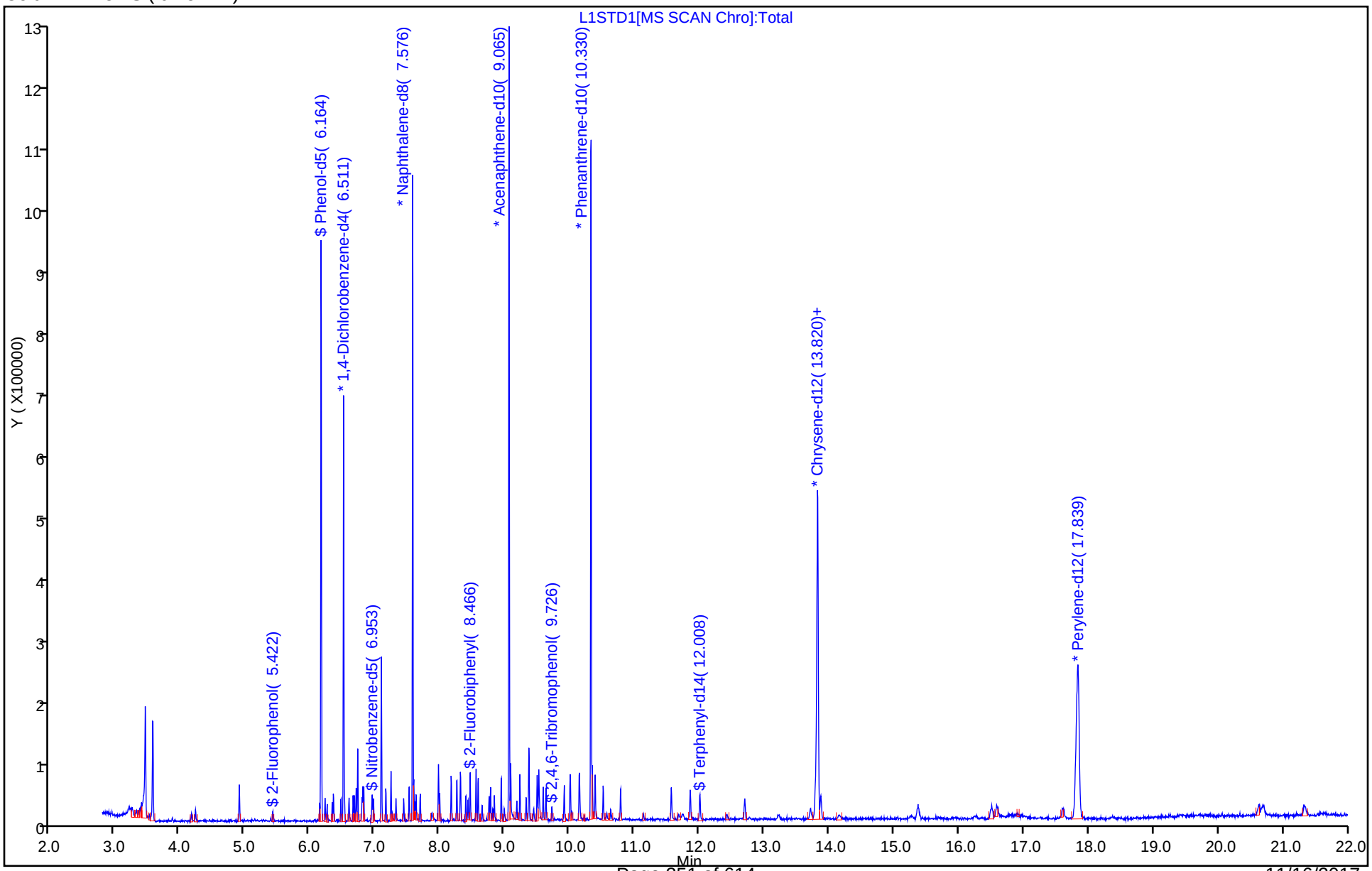
Report Date: 09-Nov-2017 15:46:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD1.D

Injection Date:	26-Oct-2017 18:26:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD5.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 26-Oct-2017 18:56:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-006
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:32 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:15:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.511	6.516	-0.005	97	78510	3.20	3.20	
* 2 Naphthalene-d8	136	7.576	7.581	-0.005	99	369991	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	93	194240	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	319331	3.20	3.20	
* 5 Chrysene-d12	240	13.825	13.830	-0.005	99	264267	3.20	3.20	
* 6 Perylene-d12	264	17.834	17.839	-0.005	98	258738	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	96	18325	1.00	1.03	
$ 8 Phenol-d5	99	6.164	6.173	-0.009	48	33021	1.00	0.9665	
$ 9 Nitrobenzene-d5	82	6.958	6.963	-0.005	93	40262	1.00	0.9289	
$ 10 2-Fluorobiphenyl	172	8.466	8.470	-0.004	98	90000	1.00	1.10	
$ 11 2,4,6-Tribromophenol	330	9.726	9.731	-0.005	92	10911	1.00	1.07	
$ 12 Terphenyl-d14	244	12.009	12.009	0.000	99	67089	1.00	1.00	
13 1,4-Dioxane	88	3.867	3.872	-0.005	86	6255	1.00	0.9040	
14 N-Nitrosodimethylamine	42	4.162	4.176	-0.014	55	28668	1.00	0.9894	
15 Pyridine	79	4.224	4.228	-0.004	92	33052	2.00	2.01	
25 Benzaldehyde	77	6.145	6.145	0.000	94	22031	1.00	2.06	
26 Phenol	94	6.173	6.183	-0.010	93	31202	1.00	0.8772	
27 Aniline	93	6.226	6.231	-0.005	97	48492	1.00	1.04	
28 Bis(2-chloroethyl)ether	93	6.259	6.264	-0.005	96	29022	1.00	1.07	
29 2-Chlorophenol	128	6.340	6.345	-0.005	95	27629	1.00	0.9162	
30 n-Decane	43	6.359	6.359	0.000	71	61335	1.00	1.08	
31 1,3-Dichlorobenzene	146	6.473	6.473	0.000	98	38296	1.00	1.04	
33 1,4-Dichlorobenzene	146	6.525	6.530	-0.005	95	40181	1.00	1.06	
36 Benzyl alcohol	108	6.597	6.606	-0.009	90	24029	1.00	1.13	
37 1,2-Dichlorobenzene	146	6.659	6.663	-0.004	95	37934	1.00	1.05	
38 2-Methylphenol	107	6.678	6.682	-0.004	86	26415	1.00	1.06	
39 2,2'-oxybis[1-chloropropan	45	6.706	6.711	-0.005	87	89177	1.00	1.14	
40 Indene	116	6.730	6.735	-0.005	90	122307	2.00	2.07	
42 3 & 4 Methylphenol	108	6.796	6.806	-0.010	96	33456	1.00	1.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.811	6.820	-0.009	90	28223	1.00	1.13	
44 Acetophenone	105	6.825	6.835	-0.010	95	52948	1.00	1.13	
45 Hexachloroethane	117	6.949	6.949	0.000	89	14889	1.00	1.01	
46 Nitrobenzene	77	6.977	6.982	-0.005	94	40676	1.00	1.01	
48 Isophorone	82	7.167	7.172	-0.005	95	71951	1.00	1.04	
50 2-Nitrophenol	139	7.243	7.248	-0.005	72	18251	1.00	0.9099	
51 2,4-Dimethylphenol	122	7.248	7.253	-0.005	90	34743	1.00	1.01	
52 Bis(2-chloroethoxy)methane	93	7.324	7.329	-0.005	98	40665	1.00	1.02	
54 Benzoic acid	122	7.291	7.353	-0.062	86	22578	2.00	1.34	
55 2,4-Dichlorophenol	162	7.443	7.448	-0.005	94	31849	1.00	0.9560	
56 1,2,4-Trichlorobenzene	180	7.524	7.529	-0.005	94	36092	1.00	0.9714	
58 Naphthalene	128	7.595	7.600	-0.005	98	117059	1.00	1.06	
60 4-Chloroaniline	127	7.614	7.619	-0.005	96	47219	1.00	1.04	
62 2,6-Dichlorophenol	162	7.629	7.633	-0.004	96	34331	1.00	1.02	
63 Hexachlorobutadiene	225	7.695	7.695	0.000	95	20700	1.00	1.05	
65 Caprolactam	113	7.881	7.914	-0.033	70	9086	1.00	0.9272	
66 4-Chloro-3-methylphenol	107	7.995	8.004	-0.009	96	31220	1.00	0.9673	
68 2-Methylnaphthalene	142	8.171	8.176	-0.005	99	81094	1.00	1.05	
70 1-Methylnaphthalene	142	8.261	8.261	0.000	98	73522	1.00	1.06	
72 Hexachlorocyclopentadiene	237	8.313	8.314	-0.001	94	24562	1.00	1.05	
73 1,2,4,5-Tetrachlorobenzene	216	8.318	8.323	-0.005	97	40852	1.00	1.09	
74 2,4,6-Trichlorophenol	196	8.399	8.404	-0.005	90	24971	1.00	1.00	
76 2,4,5-Trichlorophenol	196	8.432	8.437	-0.005	97	25478	1.00	1.01	
79 1,1'-Biphenyl	154	8.556	8.561	-0.005	95	96431	1.00	1.05	
80 2-Chloronaphthalene	162	8.589	8.594	-0.005	98	80671	1.00	1.05	
81 2-Nitroaniline	65	8.646	8.656	-0.010	95	19745	1.00	0.9590	
82 Dimethyl phthalate	163	8.780	8.789	-0.009	99	82486	1.00	1.06	
83 1,3-Dinitrobenzene	168	8.813	8.822	-0.009	82	10100	1.00	0.9193	
84 2,6-Dinitrotoluene	165	8.837	8.846	-0.009	90	16399	1.00	0.9531	
86 Acenaphthylene	152	8.946	8.946	0.000	97	122379	1.00	1.03	
88 3-Nitroaniline	138	8.989	9.003	-0.014	90	16904	1.00	1.03	
91 2,4-Dinitrophenol	184	9.074	9.084	-0.010	87	11470	2.00	1.24	
90 Acenaphthene	154	9.089	9.093	-0.004	93	76467	1.00	1.03	
92 4-Nitrophenol	109	9.098	9.112	-0.014	85	18362	2.00	1.62	
95 2,4-Dinitrotoluene	165	9.184	9.193	-0.009	89	20495	1.00	0.9795	
97 Dibenzofuran	168	9.231	9.236	-0.005	96	109647	1.00	1.05	
99 2,3,4,6-Tetrachlorophenol	232	9.326	9.331	-0.005	96	18861	1.00	0.9864	
100 Diethyl phthalate	149	9.369	9.374	-0.005	99	77848	1.00	1.05	
101 Hexadecane	57	9.374	9.374	0.000	69	36428	1.00	0.8618	
103 4-Chlorophenyl phenyl ethe	204	9.498	9.502	-0.004	88	42500	1.00	1.11	
106 4-Nitroaniline	138	9.507	9.517	-0.010	85	18860	1.00	1.27	
104 Fluorene	166	9.521	9.526	-0.005	96	85595	1.00	1.09	
109 4,6-Dinitro-2-methylphenol	198	9.536	9.545	-0.009	92	18479	2.00	1.60	
98 Diphenylamine	169	9.593	9.598	-0.005	94	58102	0.8500	0.9016	
111 N-Nitrosodiphenylamine	169	9.593	9.598	-0.005	70	58102	1.00	1.07	
113 1,2-Diphenylhydrazine	77	9.636	9.636	0.000	98	82059	1.00	1.00	
119 4-Bromophenyl phenyl ether	248	9.916	9.921	-0.005	88	23215	1.00	1.13	
122 Hexachlorobenzene	284	10.006	10.011	-0.005	97	23128	1.00	1.10	
123 Atrazine	200	10.011	10.021	-0.010	86	19581	1.00	1.16	
124 n-Octadecane	43	10.144	10.149	-0.005	80	73601	1.00	1.12	
125 Pentachlorophenol	266	10.154	10.159	-0.005	95	20873	2.00	1.74	
127 Phenanthrene	178	10.349	10.354	-0.005	96	119804	1.00	1.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.392	10.396	-0.004	99	120754	1.00	1.07	
129 Carbazole	167	10.515	10.520	-0.005	96	101734	1.00	1.06	
133 Di-n-butyl phthalate	149	10.786	10.786	0.000	99	121831	1.00	1.03	
136 Fluoranthene	202	11.566	11.571	-0.005	99	122065	1.00	1.10	
138 Benzidine	184	11.680	11.685	-0.005	98	36928	1.00	0.8816	
141 Pyrene	202	11.861	11.866	-0.005	98	122790	1.00	1.05	
147 Butyl benzyl phthalate	149	12.698	12.703	-0.005	96	53706	1.00	0.9773	
149 3,3'-Dichlorobenzidine	252	13.711	13.721	-0.010	99	33849	1.00	0.9449	
150 Bis(2-ethylhexyl) phthalat	149	13.787	13.792	-0.005	85	73520	1.00	0.9860	
151 Benzo[a]anthracene	228	13.797	13.806	-0.009	97	107181	1.00	1.01	
152 Chrysene	228	13.873	13.887	-0.014	99	98259	1.00	1.02	
155 Di-n-octyl phthalate	149	15.371	15.380	-0.009	95	123851	1.00	0.9857	
157 Benzo[b]fluoranthene	252	16.507	16.541	-0.034	97	98681	1.00	1.05	
158 Benzo[k]fluoranthene	252	16.598	16.626	-0.028	98	102988	1.00	1.09	
160 Benzo[a]pyrene	252	17.611	17.634	-0.023	97	94715	1.00	1.01	
163 Indeno[1,2,3-cd]pyrene	276	20.630	20.664	-0.034	98	110680	1.00	1.09	
164 Dibenz(a,h)anthracene	278	20.697	20.726	-0.029	96	89344	1.00	1.05	
165 Benzo[g,h,i]perylene	276	21.349	21.382	-0.033	97	94104	1.00	1.05	
S 171 Methyl Phenols,Total	1				0			2.15	
S 170 Total Cresols, TCEQ Defini	1				0			2.15	

Reagents:

SMlst1_5uLL5_00034 Amount Added: 1.00 Units: mL

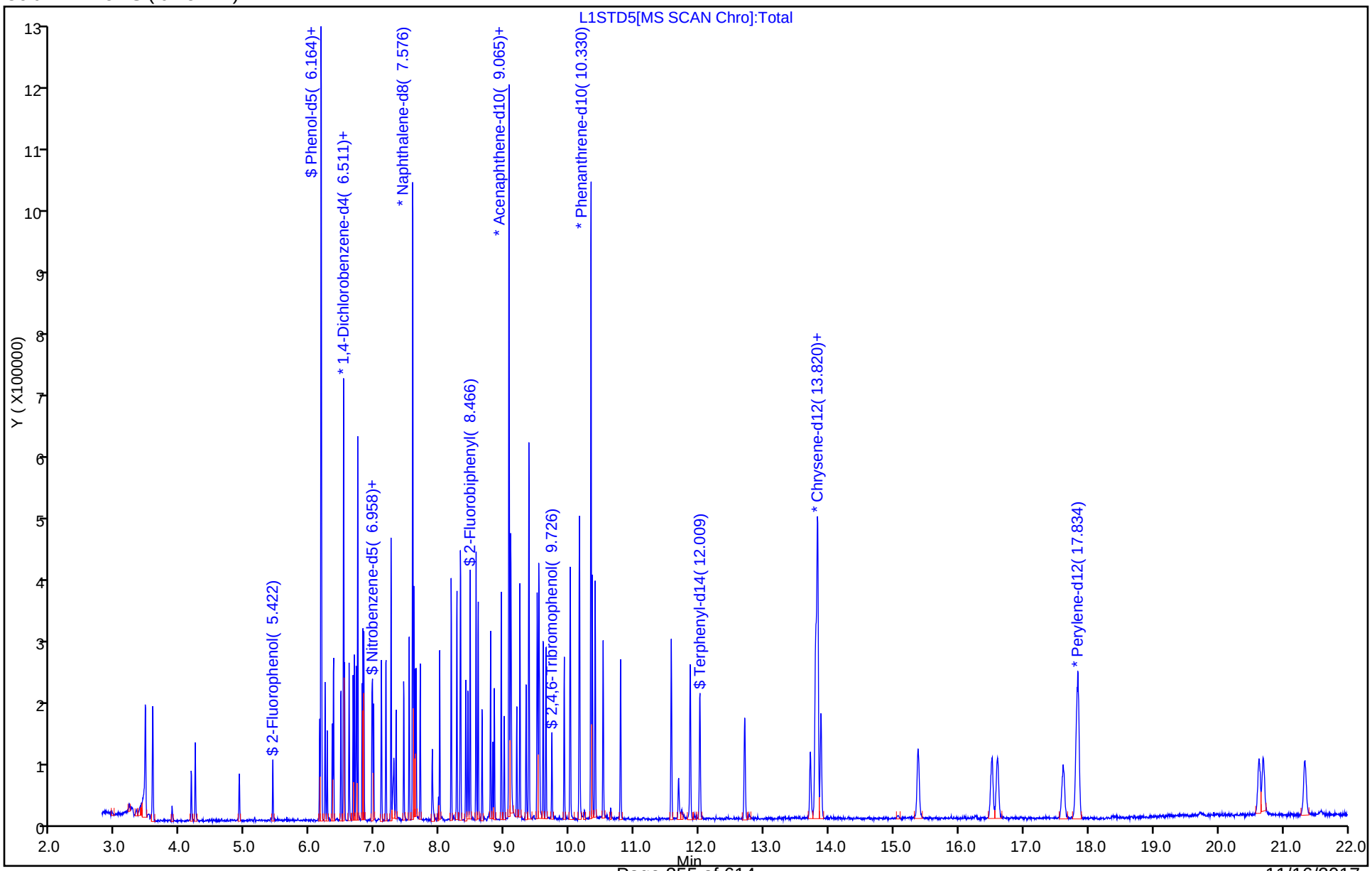
Report Date: 09-Nov-2017 15:46:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD5.D

Injection Date:	26-Oct-2017 18:56:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD10.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 26-Oct-2017 19:25:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-007
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:38 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:16:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.511	6.516	-0.005	97	86640	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	99	385092	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	96	193416	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	97	333454	3.20	3.20	
* 5 Chrysene-d12	240	13.825	13.830	-0.005	99	262232	3.20	3.20	
* 6 Perylene-d12	264	17.834	17.839	-0.005	98	261939	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	93	38888	2.00	1.90	
$ 8 Phenol-d5	99	6.164	6.173	-0.009	59	73515	2.00	1.95	
$ 9 Nitrobenzene-d5	82	6.958	6.963	-0.005	91	87588	2.00	1.94	
$ 10 2-Fluorobiphenyl	172	8.466	8.470	-0.004	97	165137	2.00	2.03	
$ 11 2,4,6-Tribromophenol	330	9.726	9.731	-0.005	94	22200	2.00	2.19	
$ 12 Terphenyl-d14	244	12.008	12.009	-0.001	99	133039	2.00	2.00	
13 1,4-Dioxane	88	3.872	3.872	0.000	83	12644	2.00	1.66	
14 N-Nitrosodimethylamine	42	4.166	4.176	-0.010	53	65022	2.00	2.03	
15 Pyridine	79	4.228	4.228	0.000	94	80635	4.00	3.90	
25 Benzaldehyde	77	6.145	6.145	0.000	96	40321	2.00	3.41	
26 Phenol	94	6.178	6.183	-0.005	93	68948	2.00	1.76	
27 Aniline	93	6.230	6.231	-0.001	97	104207	2.00	2.02	
28 Bis(2-chloroethyl)ether	93	6.259	6.264	-0.005	97	59957	2.00	2.00	
29 2-Chlorophenol	128	6.340	6.345	-0.005	96	61984	2.00	1.86	
30 n-Decane	43	6.359	6.359	0.000	70	133371	2.00	2.13	
31 1,3-Dichlorobenzene	146	6.473	6.473	0.000	97	82557	2.00	2.03	
33 1,4-Dichlorobenzene	146	6.525	6.530	-0.005	95	82628	2.00	1.98	
36 Benzyl alcohol	108	6.601	6.606	-0.005	90	47852	2.00	2.05	
37 1,2-Dichlorobenzene	146	6.658	6.663	-0.005	94	78555	2.00	1.97	
38 2-Methylphenol	107	6.677	6.682	-0.005	90	56069	2.00	2.04	
39 2,2'-oxybis[1-chloropropan	45	6.706	6.711	-0.005	88	185151	2.00	2.14	
40 Indene	116	6.730	6.735	-0.005	91	269973	4.00	4.13	
42 3 & 4 Methylphenol	108	6.801	6.806	-0.005	96	70673	2.00	2.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.815	6.820	-0.005	92	56972	2.00	2.08	
44 Acetophenone	105	6.825	6.835	-0.010	96	108997	2.00	2.10	
45 Hexachloroethane	117	6.948	6.949	-0.001	91	32782	2.00	2.01	
46 Nitrobenzene	77	6.977	6.982	-0.005	94	81702	2.00	1.96	
48 Isophorone	82	7.167	7.172	-0.005	95	139665	2.00	1.93	
50 2-Nitrophenol	139	7.243	7.248	-0.005	83	39332	2.00	1.88	
51 2,4-Dimethylphenol	122	7.248	7.253	-0.005	88	69070	2.00	1.92	
52 Bis(2-chloroethoxy)methane	93	7.324	7.329	-0.005	97	80583	2.00	1.94	
54 Benzoic acid	122	7.310	7.353	-0.043	97	57917	4.00	3.92	
55 2,4-Dichlorophenol	162	7.443	7.448	-0.005	94	68225	2.00	1.97	
56 1,2,4-Trichlorobenzene	180	7.524	7.529	-0.005	93	76240	2.00	1.97	
58 Naphthalene	128	7.595	7.600	-0.005	99	227523	2.00	1.98	
60 4-Chloroaniline	127	7.614	7.619	-0.005	97	96946	2.00	2.06	
62 2,6-Dichlorophenol	162	7.633	7.633	0.000	97	68066	2.00	1.95	
63 Hexachlorobutadiene	225	7.695	7.695	0.000	96	42652	2.00	2.08	
65 Caprolactam	113	7.890	7.914	-0.024	69	19025	2.00	1.87	
66 4-Chloro-3-methylphenol	107	7.995	8.004	-0.009	97	65003	2.00	1.94	
68 2-Methylnaphthalene	142	8.175	8.176	-0.001	98	155456	2.00	1.94	
70 1-Methylnaphthalene	142	8.261	8.261	0.000	98	140912	2.00	1.95	
72 Hexachlorocyclopentadiene	237	8.313	8.314	-0.001	94	44222	2.00	1.90	
73 1,2,4,5-Tetrachlorobenzene	216	8.318	8.323	-0.005	97	77784	2.00	2.09	
74 2,4,6-Trichlorophenol	196	8.399	8.404	-0.005	90	50167	2.00	2.02	
76 2,4,5-Trichlorophenol	196	8.432	8.437	-0.005	97	51641	2.00	2.06	
79 1,1'-Biphenyl	154	8.556	8.561	-0.005	94	182014	2.00	1.99	
80 2-Chloronaphthalene	162	8.589	8.594	-0.005	98	158669	2.00	2.06	
81 2-Nitroaniline	65	8.651	8.656	-0.005	94	38245	2.00	1.87	
82 Dimethyl phthalate	163	8.779	8.789	-0.010	99	156238	2.00	2.01	
83 1,3-Dinitrobenzene	168	8.817	8.822	-0.005	85	21053	2.00	1.92	
84 2,6-Dinitrotoluene	165	8.841	8.846	-0.005	93	34229	2.00	2.00	
86 Acenaphthylene	152	8.946	8.946	0.000	97	246157	2.00	2.07	
88 3-Nitroaniline	138	8.993	9.003	-0.010	92	35357	2.00	2.17	
91 2,4-Dinitrophenol	184	9.079	9.084	-0.005	94	28683	4.00	3.12	
90 Acenaphthene	154	9.093	9.093	0.000	93	149151	2.00	2.01	
92 4-Nitrophenol	109	9.103	9.112	-0.009	86	43583	4.00	3.86	
95 2,4-Dinitrotoluene	165	9.184	9.193	-0.009	90	41990	2.00	1.90	
97 Dibenzofuran	168	9.231	9.236	-0.005	96	210284	2.00	2.03	
99 2,3,4,6-Tetrachlorophenol	232	9.326	9.331	-0.005	95	38247	2.00	2.01	
101 Hexadecane	57	9.374	9.374	0.000	71	72145	2.00	1.71	
100 Diethyl phthalate	149	9.369	9.374	-0.005	98	154623	2.00	2.09	
103 4-Chlorophenyl phenyl ethe	204	9.497	9.502	-0.005	89	78154	2.00	2.05	
106 4-Nitroaniline	138	9.507	9.517	-0.010	87	35224	2.00	2.38	
104 Fluorene	166	9.526	9.526	0.000	95	160525	2.00	2.05	
109 4,6-Dinitro-2-methylphenol	198	9.540	9.545	-0.005	93	39058	4.00	3.24	
111 N-Nitrosodiphenylamine	169	9.593	9.598	-0.005	69	108934	2.00	1.92	
98 Diphenylamine	169	9.593	9.598	-0.005	96	108934	1.70	1.62	
113 1,2-Diphenylhydrazine	77	9.635	9.636	-0.001	99	164541	2.00	2.02	
119 4-Bromophenyl phenyl ether	248	9.916	9.921	-0.005	88	41915	2.00	1.95	
122 Hexachlorobenzene	284	10.006	10.011	-0.005	98	43926	2.00	2.01	
123 Atrazine	200	10.011	10.021	-0.010	85	35953	2.00	2.04	
124 n-Octadecane	43	10.144	10.149	-0.005	81	138161	2.00	2.02	
125 Pentachlorophenol	266	10.154	10.159	-0.005	97	45955	4.00	3.66	
127 Phenanthrene	178	10.349	10.354	-0.005	96	230724	2.00	1.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.392	10.396	-0.004	99	236842	2.00	2.01	
129 Carbazole	167	10.515	10.520	-0.005	95	197973	2.00	1.98	
133 Di-n-butyl phthalate	149	10.786	10.786	0.000	99	236352	2.00	1.92	
136 Fluoranthene	202	11.566	11.571	-0.005	99	234394	2.00	2.02	
138 Benzidine	184	11.680	11.685	-0.005	99	66475	2.00	1.60	
141 Pyrene	202	11.856	11.866	-0.010	98	233323	2.00	2.01	
147 Butyl benzyl phthalate	149	12.698	12.703	-0.005	96	104533	2.00	1.92	
149 3,3'-Dichlorobenzidine	252	13.711	13.721	-0.010	98	70942	2.00	2.00	
150 Bis(2-ethylhexyl) phthalat	149	13.787	13.792	-0.005	85	140191	2.00	1.89	
151 Benzo[a]anthracene	228	13.801	13.806	-0.005	97	200551	2.00	1.90	
152 Chrysene	228	13.873	13.887	-0.014	99	182620	2.00	1.91	
155 Di-n-octyl phthalate	149	15.375	15.380	-0.005	94	247137	2.00	1.88	
157 Benzo[b]fluoranthene	252	16.517	16.541	-0.024	98	181126	2.00	1.91	
158 Benzo[k]fluoranthene	252	16.602	16.626	-0.024	98	179917	2.00	1.87	
160 Benzo[a]pyrene	252	17.615	17.634	-0.019	98	187808	2.00	1.97	
163 Indeno[1,2,3-cd]pyrene	276	20.635	20.664	-0.029	99	211083	2.00	2.04	
164 Dibenz(a,h)anthracene	278	20.706	20.726	-0.020	97	169581	2.00	1.98	
165 Benzo[g,h,i]perylene	276	21.344	21.382	-0.038	96	180552	2.00	2.00	
S 170 Total Cresols, TCEQ Defini	1				0			4.12	
S 171 Methyl Phenols,Total	1				0			4.12	

Reagents:

SMlst1_5uLL6_00034 Amount Added: 1.00 Units: mL

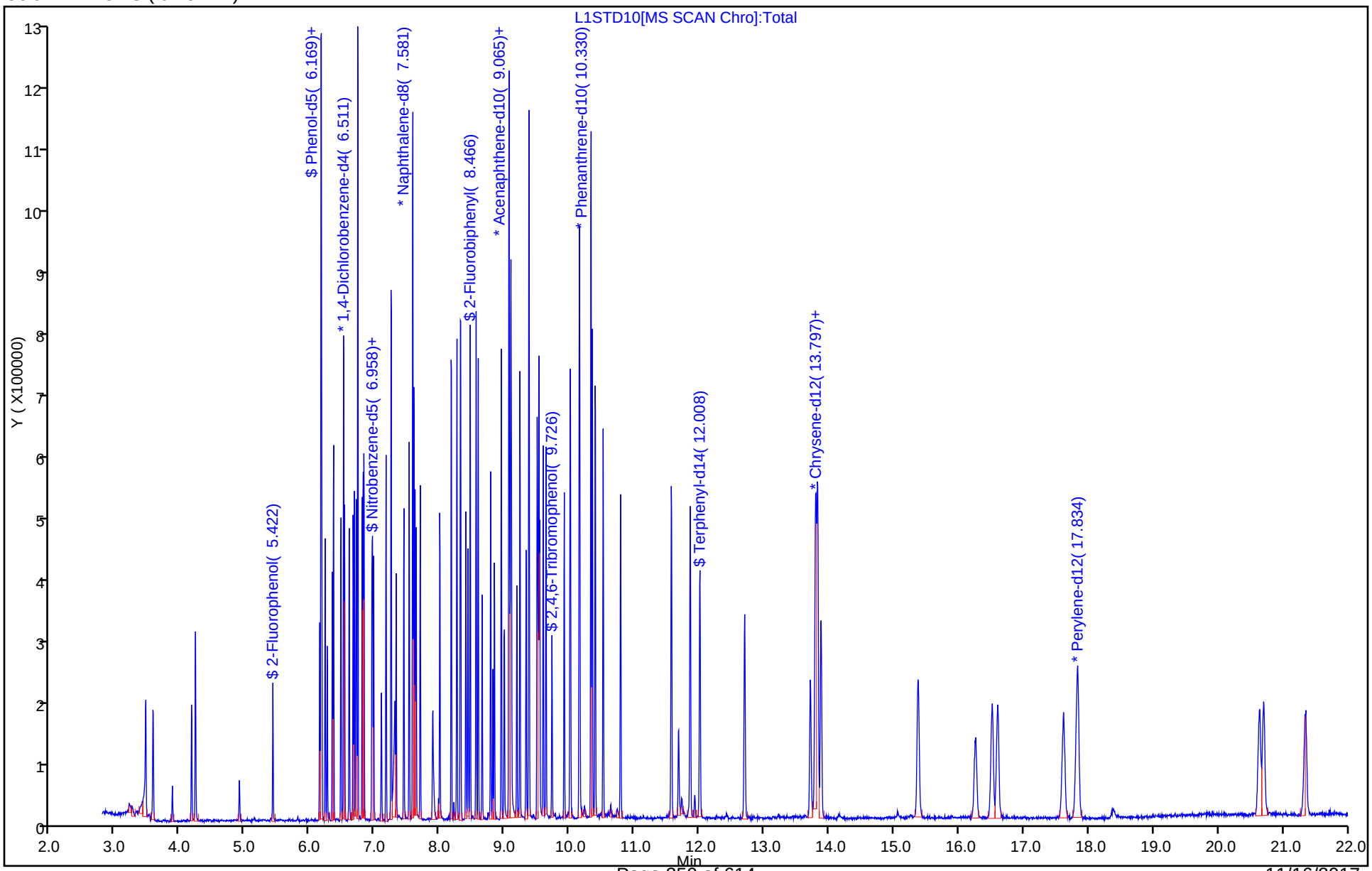
Report Date: 09-Nov-2017 15:46:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD10.D

Injection Date:	26-Oct-2017 19:25:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD20.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 26-Oct-2017 19:55:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-008
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:44 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 07:58:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	95	114872	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	99	453611	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	96	223710	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	365889	3.20	3.20	
* 5 Chrysene-d12	240	13.830	13.830	0.000	99	290519	3.20	3.20	
* 6 Perylene-d12	264	17.844	17.839	0.005	98	296112	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	93	114156	4.00	3.84	
$ 8 Phenol-d5	99	6.169	6.173	-0.004	96	197911	4.00	3.96	
$ 9 Nitrobenzene-d5	82	6.963	6.963	0.000	92	198000	4.00	3.73	
$ 10 2-Fluorobiphenyl	172	8.466	8.470	-0.004	98	350506	4.00	3.72	
$ 11 2,4,6-Tribromophenol	330	9.731	9.731	0.000	93	44814	4.00	3.82	
$ 12 Terphenyl-d14	244	12.009	12.009	0.000	100	272213	4.00	3.69	
13 1,4-Dioxane	88	3.872	3.872	0.000	84	36767	4.00	3.63	
14 N-Nitrosodimethylamine	42	4.171	4.176	-0.005	55	162146	4.00	3.82	
15 Pyridine	79	4.228	4.228	0.000	94	277113	8.00	8.48	
25 Benzaldehyde	77	6.145	6.145	0.000	96	72795	4.00	4.64	
26 Phenol	94	6.183	6.183	0.000	94	196238	4.00	3.77	
27 Aniline	93	6.231	6.231	0.000	98	259012	4.00	3.79	
28 Bis(2-chloroethyl)ether	93	6.264	6.264	0.000	96	145354	4.00	3.66	
29 2-Chlorophenol	128	6.340	6.345	-0.005	96	167626	4.00	3.80	
30 n-Decane	43	6.359	6.359	0.000	70	322650	4.00	3.89	
31 1,3-Dichlorobenzene	146	6.473	6.473	0.000	99	201282	4.00	3.73	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	95	208832	4.00	3.77	
36 Benzyl alcohol	108	6.606	6.606	0.000	90	113573	4.00	3.66	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	96	205239	4.00	3.88	
38 2-Methylphenol	107	6.682	6.682	0.000	86	139835	4.00	3.83	
39 2,2'-oxybis[1-chloropropan	45	6.711	6.711	0.000	88	427771	4.00	3.72	
40 Indene	116	6.735	6.735	0.000	89	659397	8.00	7.62	
42 3 & 4 Methylphenol	108	6.801	6.806	-0.005	96	172294	4.00	3.83	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.820	6.820	0.000	93	124364	4.00	3.42	
44 Acetophenone	105	6.830	6.835	-0.005	95	251975	4.00	3.67	
45 Hexachloroethane	117	6.949	6.949	0.000	92	81312	4.00	3.76	
46 Nitrobenzene	77	6.982	6.982	0.000	95	190300	4.00	3.87	
48 Isophorone	82	7.172	7.172	0.000	95	311633	4.00	3.66	
50 2-Nitrophenol	139	7.248	7.248	0.000	78	93573	4.00	3.80	
51 2,4-Dimethylphenol	122	7.248	7.253	-0.005	90	154627	4.00	3.66	
52 Bis(2-chloroethoxy)methane	93	7.324	7.329	-0.005	98	182188	4.00	3.72	
54 Benzoic acid	122	7.339	7.353	-0.014	93	157963	8.00	8.42	
55 2,4-Dichlorophenol	162	7.443	7.448	-0.005	94	156918	4.00	3.84	
56 1,2,4-Trichlorobenzene	180	7.524	7.529	-0.005	93	177963	4.00	3.91	
58 Naphthalene	128	7.600	7.600	0.000	99	519830	4.00	3.84	
60 4-Chloroaniline	127	7.619	7.619	0.000	95	216989	4.00	3.91	
62 2,6-Dichlorophenol	162	7.633	7.633	0.000	97	156275	4.00	3.81	
63 Hexachlorobutadiene	225	7.695	7.695	0.000	96	91985	4.00	3.81	
65 Caprolactam	113	7.904	7.914	-0.010	69	44843	4.00	3.73	
66 4-Chloro-3-methylphenol	107	8.000	8.004	-0.004	97	146558	4.00	3.70	
68 2-Methylnaphthalene	142	8.176	8.176	0.000	100	346955	4.00	3.68	
70 1-Methylnaphthalene	142	8.261	8.261	0.000	99	310683	4.00	3.65	
72 Hexachlorocyclopentadiene	237	8.313	8.314	-0.001	95	108418	4.00	4.04	
73 1,2,4,5-Tetrachlorobenzene	216	8.323	8.323	0.000	97	165568	4.00	3.84	
74 2,4,6-Trichlorophenol	196	8.399	8.404	-0.005	90	108528	4.00	3.77	
76 2,4,5-Trichlorophenol	196	8.432	8.437	-0.005	96	106636	4.00	3.67	
79 1,1'-Biphenyl	154	8.556	8.561	-0.005	95	409092	4.00	3.86	
80 2-Chloronaphthalene	162	8.589	8.594	-0.005	98	341666	4.00	3.84	
81 2-Nitroaniline	65	8.651	8.656	-0.005	95	88398	4.00	3.73	
82 Dimethyl phthalate	163	8.784	8.789	-0.005	99	339669	4.00	3.78	
83 1,3-Dinitrobenzene	168	8.822	8.822	0.000	85	47367	4.00	3.74	
84 2,6-Dinitrotoluene	165	8.841	8.846	-0.005	91	75474	4.00	3.81	
86 Acenaphthylene	152	8.946	8.946	0.000	98	533531	4.00	3.89	
88 3-Nitroaniline	138	8.998	9.003	-0.005	91	72246	4.00	3.83	
91 2,4-Dinitrophenol	184	9.084	9.084	0.000	94	71812	8.00	6.76	
90 Acenaphthene	154	9.093	9.093	0.000	94	339305	4.00	3.96	
92 4-Nitrophenol	109	9.108	9.112	-0.004	84	99854	8.00	7.64	
95 2,4-Dinitrotoluene	165	9.189	9.193	-0.005	90	95991	4.00	3.66	
97 Dibenzofuran	168	9.236	9.236	0.000	96	459442	4.00	3.84	
99 2,3,4,6-Tetrachlorophenol	232	9.331	9.331	0.000	96	84771	4.00	3.85	
100 Diethyl phthalate	149	9.374	9.374	0.000	98	327390	4.00	3.82	
101 Hexadecane	57	9.374	9.374	0.000	73	170767	4.00	3.51	
103 4-Chlorophenyl phenyl ethe	204	9.502	9.502	0.000	90	175878	4.00	3.99	
106 4-Nitroaniline	138	9.517	9.517	0.000	84	72656	4.00	4.24	
104 Fluorene	166	9.526	9.526	0.000	95	353364	4.00	3.89	
109 4,6-Dinitro-2-methylphenol	198	9.540	9.545	-0.005	95	96762	8.00	7.32	
98 Diphenylamine	169	9.593	9.598	-0.005	94	239526	3.40	3.24	
111 N-Nitrosodiphenylamine	169	9.593	9.598	-0.005	67	239526	4.00	3.85	
113 1,2-Diphenylhydrazine	77	9.636	9.636	0.000	98	353239	4.00	3.75	
119 4-Bromophenyl phenyl ether	248	9.916	9.921	-0.005	84	91521	4.00	3.88	
122 Hexachlorobenzene	284	10.006	10.011	-0.005	97	93938	4.00	3.91	
123 Atrazine	200	10.016	10.021	-0.005	86	73740	4.00	3.81	
124 n-Octadecane	43	10.149	10.149	0.000	84	302765	4.00	4.03	
125 Pentachlorophenol	266	10.159	10.159	0.000	96	108243	8.00	7.86	
127 Phenanthrene	178	10.354	10.354	0.000	97	491536	4.00	3.85	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.396	10.396	0.000	99	502498	4.00	3.88	
129 Carbazole	167	10.520	10.520	0.000	96	428598	4.00	3.91	
133 Di-n-butyl phthalate	149	10.786	10.786	0.000	99	504777	4.00	3.73	
136 Fluoranthene	202	11.571	11.571	0.000	98	501365	4.00	3.94	
138 Benzidine	184	11.680	11.685	-0.005	99	171551	4.00	3.73	
141 Pyrene	202	11.866	11.866	0.000	99	504276	4.00	3.92	
147 Butyl benzyl phthalate	149	12.703	12.703	0.000	96	235350	4.00	3.90	
149 3,3'-Dichlorobenzidine	252	13.716	13.721	-0.005	99	152706	4.00	3.88	
150 Bis(2-ethylhexyl) phthalat	149	13.787	13.792	-0.005	87	309825	4.00	3.78	
151 Benzo[a]anthracene	228	13.806	13.806	0.000	97	440211	4.00	3.77	
152 Chrysene	228	13.882	13.887	-0.005	99	410092	4.00	3.87	
155 Di-n-octyl phthalate	149	15.376	15.380	-0.004	94	544537	4.00	3.78	
157 Benzo[b]fluoranthene	252	16.526	16.541	-0.015	98	420299	4.00	3.92	
158 Benzo[k]fluoranthene	252	16.617	16.626	-0.009	99	401119	4.00	3.69	
160 Benzo[a]pyrene	252	17.634	17.634	0.000	98	414828	4.00	3.85	
163 Indeno[1,2,3-cd]pyrene	276	20.654	20.664	-0.010	99	465734	4.00	3.99	
164 Dibenz(a,h)anthracene	278	20.721	20.726	-0.005	97	369638	4.00	3.81	
165 Benzo[g,h,i]perylene	276	21.368	21.382	-0.014	98	389384	4.00	3.81	
S 171 Methyl Phenols,Total	1				0			7.67	
S 170 Total Cresols, TCEQ Defini	1				0			7.67	

Reagents:

SMlst1_5uLL7_00034 Amount Added: 1.00 Units: mL

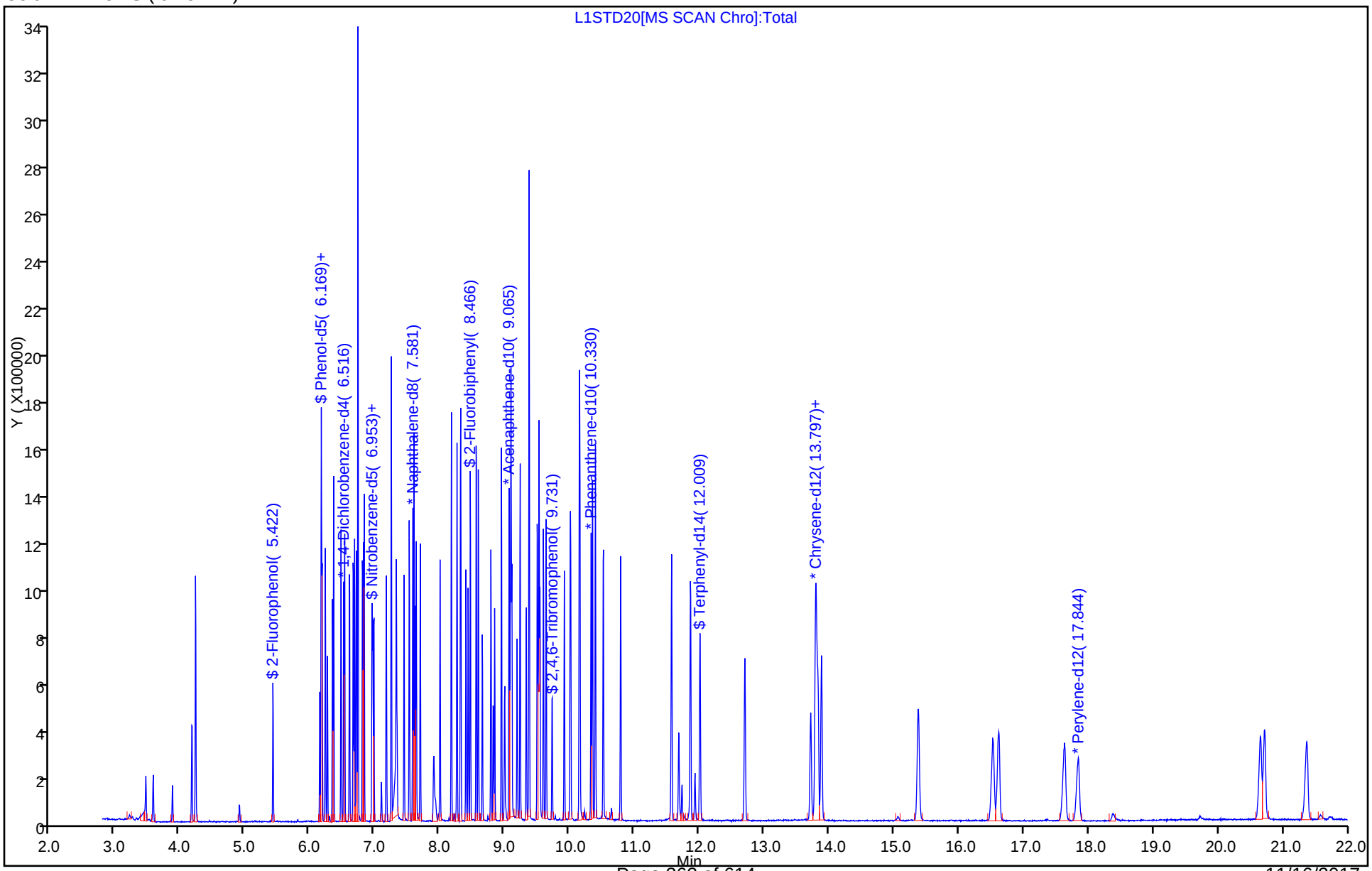
Report Date: 09-Nov-2017 15:46:48 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD20.D

Injection Date:	26-Oct-2017 19:55:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD40.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 8
Inject. Date: 26-Oct-2017 20:25:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: icis
Misc. Info.: 500-0048643-009
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:52 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 07:51:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	96	82384	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	98	318863	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	92	159792	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	258574	3.20	3.20	
* 5 Chrysene-d12	240	13.830	13.830	0.000	99	203422	3.20	3.20	
* 6 Perylene-d12	264	17.839	17.839	0.000	97	204736	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	93	190900	8.00	7.64	
$ 8 Phenol-d5	99	6.173	6.173	0.000	84	289410	8.00	8.07	
$ 9 Nitrobenzene-d5	82	6.963	6.963	0.000	92	303179	8.00	8.12	
$ 10 2-Fluorobiphenyl	172	8.470	8.470	0.000	98	526103	8.00	7.82	
$ 11 2,4,6-Tribromophenol	330	9.731	9.731	0.000	94	68770	8.00	8.20	
$ 12 Terphenyl-d14	244	12.009	12.009	0.000	98	414171	8.00	8.02	
13 1,4-Dioxane	88	3.872	3.872	0.000	83	52800	8.00	7.27	
14 N-Nitrosodimethylamine	42	4.176	4.176	0.000	54	233805	8.00	7.69	
15 Pyridine	79	4.228	4.228	0.000	92	417824	16.0	14.9	
25 Benzaldehyde	77	6.145	6.145	0.000	95	89993	8.00	8.00	
26 Phenol	94	6.183	6.183	0.000	92	289186	8.00	7.75	
27 Aniline	93	6.231	6.231	0.000	98	373272	8.00	7.61	
28 Bis(2-chloroethyl)ether	93	6.264	6.264	0.000	97	215866	8.00	7.58	
29 2-Chlorophenol	128	6.345	6.345	0.000	94	244053	8.00	7.71	
30 n-Decane	43	6.359	6.359	0.000	71	476379	8.00	8.00	
31 1,3-Dichlorobenzene	146	6.473	6.473	0.000	99	304106	8.00	7.86	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	94	307773	8.00	7.75	
36 Benzyl alcohol	108	6.606	6.606	0.000	89	168501	8.00	7.58	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	95	291240	8.00	7.67	
38 2-Methylphenol	107	6.682	6.682	0.000	84	207522	8.00	7.93	
39 2,2'-oxybis[1-chloropropan	45	6.711	6.711	0.000	88	609729	8.00	7.40	
40 Indene	116	6.735	6.735	0.000	88	976254	16.0	15.7	
42 3 & 4 Methylphenol	108	6.806	6.806	0.000	96	247080	8.00	7.66	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.820	6.820	0.000	93	184066	8.00	7.05	
44 Acetophenone	105	6.835	6.835	0.000	94	351972	8.00	7.15	
45 Hexachloroethane	117	6.949	6.949	0.000	88	119414	8.00	7.71	
46 Nitrobenzene	77	6.982	6.982	0.000	93	275400	8.00	7.97	
48 Isophorone	82	7.172	7.172	0.000	93	450033	8.00	7.53	
50 2-Nitrophenol	139	7.248	7.248	0.000	79	131237	8.00	7.59	
51 2,4-Dimethylphenol	122	7.253	7.253	0.000	86	227761	8.00	7.66	
52 Bis(2-chloroethoxy)methane	93	7.329	7.329	0.000	98	264654	8.00	7.68	
54 Benzoic acid	122	7.353	7.353	0.000	93	243292	16.0	15.4	
55 2,4-Dichlorophenol	162	7.448	7.448	0.000	94	220405	8.00	7.68	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	88	254180	8.00	7.94	
58 Naphthalene	128	7.600	7.600	0.000	98	738399	8.00	7.77	
60 4-Chloroaniline	127	7.619	7.619	0.000	94	290932	8.00	7.45	
62 2,6-Dichlorophenol	162	7.633	7.633	0.000	95	221529	8.00	7.67	
63 Hexachlorobutadiene	225	7.695	7.695	0.000	89	134702	8.00	7.93	
65 Caprolactam	113	7.914	7.914	0.000	72	67653	8.00	8.01	
66 4-Chloro-3-methylphenol	107	8.004	8.004	0.000	96	214811	8.00	7.72	
68 2-Methylnaphthalene	142	8.176	8.176	0.000	97	490345	8.00	7.39	
70 1-Methylnaphthalene	142	8.261	8.261	0.000	96	449072	8.00	7.50	
72 Hexachlorocyclopentadiene	237	8.314	8.314	0.000	87	148028	8.00	7.72	
73 1,2,4,5-Tetrachlorobenzene	216	8.323	8.323	0.000	93	233351	8.00	7.58	
74 2,4,6-Trichlorophenol	196	8.404	8.404	0.000	88	159299	8.00	7.75	
76 2,4,5-Trichlorophenol	196	8.437	8.437	0.000	96	154651	8.00	7.46	
79 1,1'-Biphenyl	154	8.561	8.561	0.000	95	569047	8.00	7.52	
80 2-Chloronaphthalene	162	8.594	8.594	0.000	98	476477	8.00	7.50	
81 2-Nitroaniline	65	8.656	8.656	0.000	94	132063	8.00	7.80	
82 Dimethyl phthalate	163	8.789	8.789	0.000	100	490098	8.00	7.63	
83 1,3-Dinitrobenzene	168	8.822	8.822	0.000	83	66583	8.00	7.37	
84 2,6-Dinitrotoluene	165	8.846	8.846	0.000	92	110120	8.00	7.78	
86 Acenaphthylene	152	8.946	8.946	0.000	96	756387	8.00	7.72	
88 3-Nitroaniline	138	9.003	9.003	0.000	91	101711	8.00	7.55	
91 2,4-Dinitrophenol	184	9.084	9.084	0.000	85	114760	16.0	15.1	
90 Acenaphthene	154	9.093	9.093	0.000	94	488892	8.00	7.98	
92 4-Nitrophenol	109	9.112	9.112	0.000	86	143205	16.0	15.3	
95 2,4-Dinitrotoluene	165	9.193	9.193	0.000	93	143405	8.00	7.54	
97 Dibenzofuran	168	9.236	9.236	0.000	91	655827	8.00	7.67	
99 2,3,4,6-Tetrachlorophenol	232	9.331	9.331	0.000	92	117383	8.00	7.46	
101 Hexadecane	57	9.374	9.374	0.000	77	260305	8.00	7.49	
100 Diethyl phthalate	149	9.374	9.374	0.000	97	458139	8.00	7.49	
103 4-Chlorophenyl phenyl ethe	204	9.502	9.502	0.000	89	233922	8.00	7.43	
106 4-Nitroaniline	138	9.517	9.517	0.000	86	96760	8.00	7.91	
104 Fluorene	166	9.526	9.526	0.000	86	496105	8.00	7.65	
109 4,6-Dinitro-2-methylphenol	198	9.545	9.545	0.000	95	149151	16.0	16.0	
111 N-Nitrosodiphenylamine	169	9.598	9.598	0.000	65	344766	8.00	7.84	
98 Diphenylamine	169	9.598	9.598	0.000	84	344766	6.80	6.61	
113 1,2-Diphenylhydrazine	77	9.636	9.636	0.000	96	502585	8.00	7.46	
119 4-Bromophenyl phenyl ether	248	9.921	9.921	0.000	92	126396	8.00	7.59	
122 Hexachlorobenzene	284	10.011	10.011	0.000	92	128401	8.00	7.56	
123 Atrazine	200	10.021	10.021	0.000	90	103950	8.00	7.60	
124 n-Octadecane	43	10.149	10.149	0.000	84	413938	8.00	7.80	
125 Pentachlorophenol	266	10.159	10.159	0.000	94	155385	16.0	16.0	
127 Phenanthrene	178	10.354	10.354	0.000	97	682380	8.00	7.57	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.396	10.396	0.000	99	723361	8.00	7.91	
129 Carbazole	167	10.520	10.520	0.000	83	592364	8.00	7.65	
133 Di-n-butyl phthalate	149	10.786	10.786	0.000	99	730061	8.00	7.63	
136 Fluoranthene	202	11.571	11.571	0.000	98	707624	8.00	7.87	
138 Benzidine	184	11.685	11.685	0.000	97	227269	8.00	7.05	
141 Pyrene	202	11.866	11.866	0.000	98	712763	8.00	7.92	
147 Butyl benzyl phthalate	149	12.703	12.703	0.000	96	329733	8.00	7.80	
149 3,3'-Dichlorobenzidine	252	13.721	13.721	0.000	98	209734	8.00	7.61	
150 Bis(2-ethylhexyl) phthalat	149	13.792	13.792	0.000	84	445680	8.00	7.76	
151 Benzo[a]anthracene	228	13.806	13.806	0.000	98	622068	8.00	7.60	
152 Chrysene	228	13.887	13.887	0.000	96	577573	8.00	7.79	
155 Di-n-octyl phthalate	149	15.380	15.380	0.000	91	765284	8.00	7.52	
157 Benzo[b]fluoranthene	252	16.541	16.541	0.000	89	558609	8.00	7.53	
158 Benzo[k]fluoranthene	252	16.626	16.626	0.000	99	573332	8.00	7.63	
160 Benzo[a]pyrene	252	17.634	17.634	0.000	87	575309	8.00	7.73	
163 Indeno[1,2,3-cd]pyrene	276	20.664	20.664	0.000	98	650386	8.00	8.06	
164 Dibenz(a,h)anthracene	278	20.726	20.726	0.000	87	527051	8.00	7.86	
165 Benzo[g,h,i]perylene	276	21.382	21.382	0.000	96	554591	8.00	7.85	

Reagents:

SMlst1_5uLL8_00034 Amount Added: 1.00 Units: mL

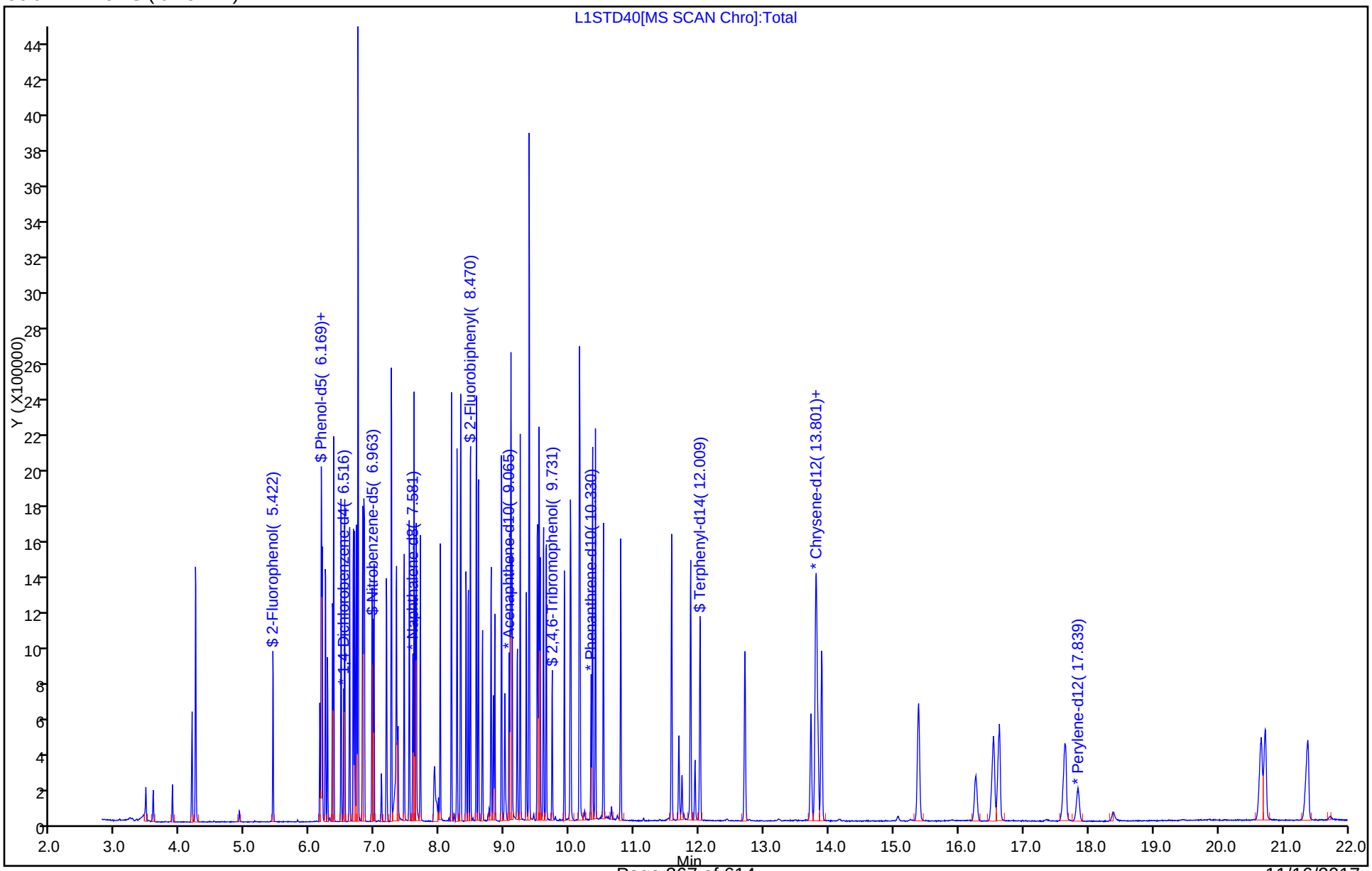
Report Date: 09-Nov-2017 15:46:55 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD40.D

Injection Date:	26-Oct-2017 20:25:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	icis			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD50.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 26-Oct-2017 20:55:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-010
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:47:00 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:18:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	96	118722	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	99	439412	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	94	221144	3.20	3.20	
* 4 Phenanthrene-d10	188	10.335	10.330	0.005	98	358297	3.20	3.20	
* 5 Chrysene-d12	240	13.839	13.830	0.009	99	286983	3.20	3.20	
* 6 Perylene-d12	264	17.853	17.839	0.014	98	285759	3.20	3.20	
$ 7 2-Fluorophenol	112	5.427	5.422	0.005	95	399512	10.0	10.1	
$ 8 Phenol-d5	99	6.178	6.173	0.005	94	561388	10.0	10.9	
$ 9 Nitrobenzene-d5	82	6.968	6.963	0.005	90	553595	10.0	10.8	
$ 10 2-Fluorobiphenyl	172	8.470	8.470	0.000	97	918925	10.0	9.86	
$ 11 2,4,6-Tribromophenol	330	9.735	9.731	0.004	93	118461	10.0	10.2	
$ 12 Terphenyl-d14	244	12.018	12.009	0.009	99	736148	10.0	10.1	
13 1,4-Dioxane	88	3.876	3.872	0.004	85	102896	10.0	9.83	
14 N-Nitrosodimethylamine	42	4.186	4.176	0.010	56	435972	10.0	9.95	
15 Pyridine	79	4.238	4.228	0.010	94	940161	20.0	20.4	
25 Benzaldehyde	77	6.150	6.145	0.005	96	121891	10.0	7.52	
26 Phenol	94	6.192	6.183	0.009	96	567804	10.0	10.6	
27 Aniline	93	6.240	6.231	0.009	98	701939	10.0	9.93	
28 Bis(2-chloroethyl)ether	93	6.269	6.264	0.004	96	391853	10.0	9.55	
29 2-Chlorophenol	128	6.345	6.345	0.000	97	467979	10.0	10.3	
30 n-Decane	43	6.359	6.359	0.000	72	806429	10.0	9.40	
31 1,3-Dichlorobenzene	146	6.478	6.473	0.005	99	561929	10.0	10.1	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	93	569439	10.0	9.95	
36 Benzyl alcohol	108	6.611	6.606	0.005	91	310597	10.0	9.69	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	96	543928	10.0	9.95	
38 2-Methylphenol	107	6.687	6.682	0.005	87	382069	10.0	10.1	
39 2,2'-oxybis[1-chloropropan	45	6.716	6.711	0.005	89	1080634	10.0	9.10	
40 Indene	116	6.739	6.735	0.004	91	1750678	20.0	19.6	
42 3 & 4 Methylphenol	108	6.815	6.806	0.009	97	456187	10.0	9.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.830	6.820	0.010	94	331065	10.0	8.80	
44 Acetophenone	105	6.839	6.835	0.004	93	645593	10.0	9.09	
45 Hexachloroethane	117	6.953	6.949	0.004	92	220537	10.0	9.88	
46 Nitrobenzene	77	6.987	6.982	0.005	94	498019	10.0	10.5	
48 Isophorone	82	7.182	7.172	0.010	96	803629	10.0	9.75	
50 2-Nitrophenol	139	7.253	7.248	0.005	89	247294	10.0	10.4	
51 2,4-Dimethylphenol	122	7.258	7.253	0.005	89	415324	10.0	10.1	
52 Bis(2-chloroethoxy)methane	93	7.329	7.329	0.000	98	473196	10.0	9.96	
54 Benzoic acid	122	7.386	7.353	0.033	94	483127	20.0	20.0	
55 2,4-Dichlorophenol	162	7.453	7.448	0.005	94	395302	10.0	10.0	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	93	445392	10.0	10.1	
58 Naphthalene	128	7.605	7.600	0.005	99	1317227	10.0	10.1	
60 4-Chloroaniline	127	7.624	7.619	0.005	96	528438	10.0	9.82	
62 2,6-Dichlorophenol	162	7.638	7.633	0.005	97	393044	10.0	9.88	
63 Hexachlorobutadiene	225	7.700	7.695	0.005	96	232471	10.0	9.93	
65 Caprolactam	113	7.938	7.914	0.024	70	114027	10.0	9.80	
66 4-Chloro-3-methylphenol	107	8.009	8.004	0.005	97	384167	10.0	10.0	
68 2-Methylnaphthalene	142	8.180	8.176	0.004	99	872543	10.0	9.54	
70 1-Methylnaphthalene	142	8.266	8.261	0.005	99	801813	10.0	9.72	
72 Hexachlorocyclopentadiene	237	8.318	8.314	0.004	95	261763	10.0	9.86	
73 1,2,4,5-Tetrachlorobenzene	216	8.323	8.323	0.000	97	407674	10.0	9.57	
74 2,4,6-Trichlorophenol	196	8.404	8.404	0.000	90	275759	10.0	9.69	
76 2,4,5-Trichlorophenol	196	8.442	8.437	0.005	97	281868	10.0	9.82	
79 1,1'-Biphenyl	154	8.561	8.561	0.000	96	1009827	10.0	9.64	
80 2-Chloronaphthalene	162	8.594	8.594	0.000	98	851518	10.0	9.69	
81 2-Nitroaniline	65	8.661	8.656	0.005	96	229750	10.0	9.80	
82 Dimethyl phthalate	163	8.794	8.789	0.005	99	861000	10.0	9.68	
83 1,3-Dinitrobenzene	168	8.832	8.822	0.010	82	125827	10.0	10.1	
84 2,6-Dinitrotoluene	165	8.851	8.846	0.005	91	196501	10.0	10.0	
86 Acenaphthylene	152	8.951	8.946	0.005	98	1319478	10.0	9.72	
88 3-Nitroaniline	138	9.012	9.003	0.009	92	171891	10.0	9.22	
91 2,4-Dinitrophenol	184	9.093	9.084	0.009	91	220491	20.0	21.0	
90 Acenaphthene	154	9.098	9.093	0.005	94	845192	10.0	9.97	
92 4-Nitrophenol	109	9.122	9.112	0.010	86	265509	20.0	20.6	
95 2,4-Dinitrotoluene	165	9.198	9.193	0.005	89	250787	10.0	9.50	
97 Dibenzofuran	168	9.241	9.236	0.005	96	1124410	10.0	9.50	
99 2,3,4,6-Tetrachlorophenol	232	9.336	9.331	0.005	96	210947	10.0	9.69	
100 Diethyl phthalate	149	9.379	9.374	0.005	97	802822	10.0	9.48	
101 Hexadecane	57	9.379	9.374	0.005	83	507922	10.0	10.6	
103 4-Chlorophenyl phenyl ethe	204	9.502	9.502	0.000	87	406383	10.0	9.33	
106 4-Nitroaniline	138	9.526	9.517	0.009	83	148655	10.0	8.78	
104 Fluorene	166	9.531	9.526	0.005	96	869173	10.0	9.69	
109 4,6-Dinitro-2-methylphenol	198	9.555	9.545	0.010	94	278625	20.0	21.5	
98 Diphenylamine	169	9.602	9.598	0.004	95	596729	8.50	8.25	
111 N-Nitrosodiphenylamine	169	9.602	9.598	0.004	68	596729	10.0	9.79	
113 1,2-Diphenylhydrazine	77	9.640	9.636	0.004	98	905269	10.0	9.71	
119 4-Bromophenyl phenyl ether	248	9.921	9.921	0.000	85	215777	10.0	9.35	
122 Hexachlorobenzene	284	10.011	10.011	0.000	98	220587	10.0	9.38	
123 Atrazine	200	10.025	10.021	0.004	87	177617	10.0	9.37	
124 n-Octadecane	43	10.149	10.149	0.000	91	693135	10.0	9.42	
125 Pentachlorophenol	266	10.163	10.159	0.004	97	277368	20.0	20.6	
127 Phenanthrene	178	10.358	10.354	0.004	97	1220992	10.0	9.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.401	10.396	0.005	99	1260647	10.0	9.95	
129 Carbazole	167	10.525	10.520	0.005	96	1021350	10.0	9.51	
133 Di-n-butyl phthalate	149	10.791	10.786	0.005	99	1329082	10.0	10.0	
136 Fluoranthene	202	11.580	11.571	0.009	98	1245732	10.0	10.0	
138 Benzidine	184	11.690	11.685	0.005	99	520135	10.0	11.4	
141 Pyrene	202	11.871	11.866	0.005	97	1271372	10.0	10.0	
147 Butyl benzyl phthalate	149	12.708	12.703	0.005	97	608051	10.0	10.2	
149 3,3'-Dichlorobenzidine	252	13.730	13.721	0.009	99	385375	10.0	9.91	
150 Bis(2-ethylhexyl) phthalat	149	13.797	13.792	0.005	85	816694	10.0	10.1	
151 Benzo[a]anthracene	228	13.820	13.806	0.014	98	1105484	10.0	9.58	
152 Chrysene	228	13.901	13.887	0.014	99	1033531	10.0	9.88	
155 Di-n-octyl phthalate	149	15.390	15.380	0.010	95	1412926	10.0	10.0	
157 Benzo[b]fluoranthene	252	16.555	16.541	0.014	98	1098393	10.0	10.6	
158 Benzo[k]fluoranthene	252	16.645	16.626	0.019	99	1054086	10.0	10.1	
160 Benzo[a]pyrene	252	17.668	17.634	0.034	97	1046570	10.0	10.1	
163 Indeno[1,2,3-cd]pyrene	276	20.683	20.664	0.019	98	1166500	10.0	10.4	
164 Dibenz(a,h)anthracene	278	20.754	20.726	0.028	97	959353	10.0	10.2	
165 Benzo[g,h,i]perylene	276	21.410	21.382	0.028	98	975766	10.0	9.90	
S 171 Methyl Phenols,Total	1				0			20.0	
S 170 Total Cresols, TCEQ Defini	1				0			20.0	

Reagents:

SMlst1_5uLL9_00033 Amount Added: 1.00 Units: mL

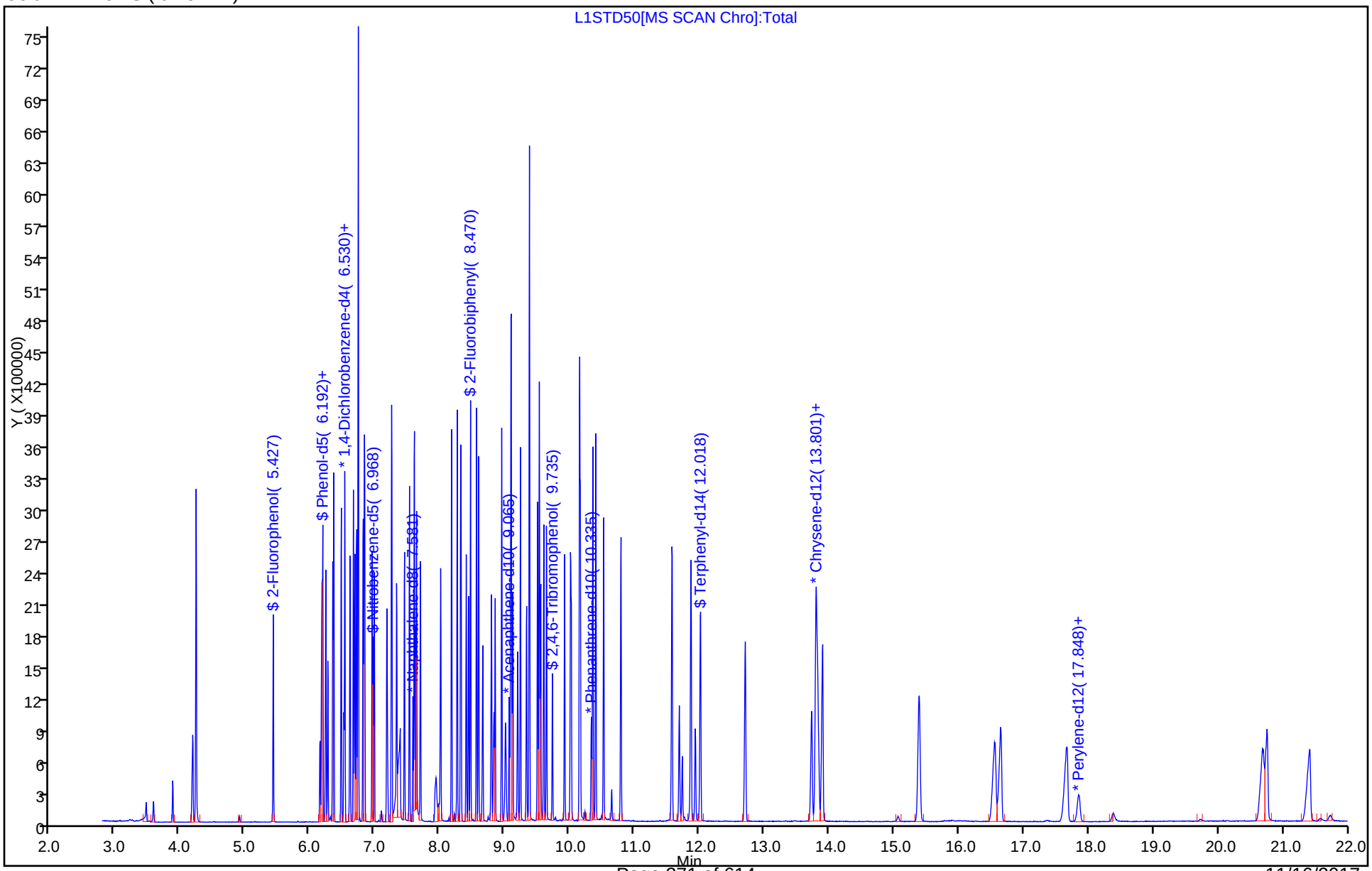
Report Date: 09-Nov-2017 15:47:02 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD50.D

Injection Date:	26-Oct-2017 20:55:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD60.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 26-Oct-2017 21:25:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-011
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:47:05 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:19:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	97	116223	3.20	3.20	
* 2 Naphthalene-d8	136	7.586	7.581	0.005	99	434862	3.20	3.20	
* 3 Acenaphthene-d10	164	9.070	9.065	0.005	95	213085	3.20	3.20	
* 4 Phenanthrene-d10	188	10.335	10.330	0.005	98	349837	3.20	3.20	
* 5 Chrysene-d12	240	13.844	13.830	0.014	99	278073	3.20	3.20	
* 6 Perylene-d12	264	17.853	17.839	0.014	98	283252	3.20	3.20	
$ 7 2-Fluorophenol	112	5.427	5.422	0.005	95	503672	12.0	12.1	
$ 8 Phenol-d5	99	6.183	6.173	0.010	94	661459	12.0	13.1	
$ 9 Nitrobenzene-d5	82	6.972	6.963	0.009	91	649762	12.0	12.8	
$ 10 2-Fluorobiphenyl	172	8.470	8.470	0.000	98	1089140	12.0	12.1	
$ 11 2,4,6-Tribromophenol	330	9.735	9.731	0.004	91	139736	12.0	12.5	
$ 12 Terphenyl-d14	244	12.018	12.009	0.009	99	870035	12.0	12.3	
13 1,4-Dioxane	88	3.877	3.872	0.004	85	133302	12.0	13.0	
14 N-Nitrosodimethylamine	42	4.195	4.176	0.019	55	532899	12.0	12.4	
15 Pyridine	79	4.238	4.228	0.010	93	1200191	24.0	24.4	
25 Benzaldehyde	77	6.150	6.145	0.005	97	136642	12.0	8.62	
26 Phenol	94	6.197	6.183	0.014	97	709382	12.0	13.5	
27 Aniline	93	6.240	6.231	0.009	98	850464	12.0	12.3	
28 Bis(2-chloroethyl)ether	93	6.273	6.264	0.009	95	507301	12.0	12.6	
29 2-Chlorophenol	128	6.349	6.345	0.004	97	583195	12.0	13.1	
30 n-Decane	43	6.364	6.359	0.005	74	986539	12.0	11.7	
31 1,3-Dichlorobenzene	146	6.478	6.473	0.005	99	683833	12.0	12.5	
33 1,4-Dichlorobenzene	146	6.535	6.530	0.005	94	695747	12.0	12.4	
36 Benzyl alcohol	108	6.616	6.606	0.010	91	374428	12.0	11.9	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	97	663565	12.0	12.4	
38 2-Methylphenol	107	6.687	6.682	0.005	86	469916	12.0	12.7	
39 2,2'-oxybis[1-chloropropan	45	6.716	6.711	0.005	89	1329283	12.0	11.4	
40 Indene	116	6.739	6.735	0.004	91	2129797	24.0	24.3	
42 3 & 4 Methylphenol	108	6.815	6.806	0.009	97	562478	12.0	12.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.834	6.820	0.014	95	419511	12.0	11.4	
44 Acetophenone	105	6.839	6.835	0.004	94	796180	12.0	11.5	
45 Hexachloroethane	117	6.953	6.949	0.004	92	272932	12.0	12.5	
46 Nitrobenzene	77	6.987	6.982	0.005	94	620086	12.0	13.2	
48 Isophorone	82	7.182	7.172	0.010	96	989971	12.0	12.1	
50 2-Nitrophenol	139	7.253	7.248	0.005	88	300192	12.0	12.7	
51 2,4-Dimethylphenol	122	7.258	7.253	0.005	88	499792	12.0	12.3	
52 Bis(2-chloroethoxy)methane	93	7.334	7.329	0.005	98	588045	12.0	12.5	
54 Benzoic acid	122	7.400	7.353	0.047	94	615759	24.0	23.7	
55 2,4-Dichlorophenol	162	7.453	7.448	0.005	94	481326	12.0	12.3	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	93	548866	12.0	12.6	
58 Naphthalene	128	7.605	7.600	0.005	99	1619813	12.0	12.5	
60 4-Chloroaniline	127	7.624	7.619	0.005	96	628989	12.0	11.8	
62 2,6-Dichlorophenol	162	7.638	7.633	0.005	97	481225	12.0	12.2	
63 Hexachlorobutadiene	225	7.700	7.695	0.005	97	279645	12.0	12.1	
65 Caprolactam	113	7.947	7.914	0.033	72	145150	12.0	12.6	
66 4-Chloro-3-methylphenol	107	8.014	8.004	0.010	97	465085	12.0	12.3	
68 2-Methylnaphthalene	142	8.180	8.176	0.004	99	1062556	12.0	11.7	
70 1-Methylnaphthalene	142	8.266	8.261	0.005	100	973472	12.0	11.9	
72 Hexachlorocyclopentadiene	237	8.318	8.314	0.004	95	314366	12.0	12.3	
73 1,2,4,5-Tetrachlorobenzene	216	8.328	8.323	0.005	97	482304	12.0	11.8	
74 2,4,6-Trichlorophenol	196	8.409	8.404	0.005	91	338675	12.0	12.4	
76 2,4,5-Trichlorophenol	196	8.442	8.437	0.005	97	350781	12.0	12.7	
79 1,1'-Biphenyl	154	8.566	8.561	0.005	96	1242552	12.0	12.3	
80 2-Chloronaphthalene	162	8.599	8.594	0.005	98	1035655	12.0	12.2	
81 2-Nitroaniline	65	8.661	8.656	0.005	96	293967	12.0	13.0	
82 Dimethyl phthalate	163	8.799	8.789	0.010	99	1047666	12.0	12.2	
83 1,3-Dinitrobenzene	168	8.837	8.822	0.015	82	155935	12.0	12.9	
84 2,6-Dinitrotoluene	165	8.856	8.846	0.010	92	241608	12.0	12.8	
86 Acenaphthylene	152	8.955	8.946	0.009	98	1600207	12.0	12.2	
88 3-Nitroaniline	138	9.013	9.003	0.010	91	212859	12.0	11.8	
91 2,4-Dinitrophenol	184	9.093	9.084	0.009	89	276718	24.0	27.4	
90 Acenaphthene	154	9.098	9.093	0.005	93	1031284	12.0	12.6	
92 4-Nitrophenol	109	9.127	9.112	0.015	86	329613	24.0	26.5	
95 2,4-Dinitrotoluene	165	9.203	9.193	0.010	88	308707	12.0	12.1	
97 Dibenzofuran	168	9.241	9.236	0.005	96	1373443	12.0	12.0	
99 2,3,4,6-Tetrachlorophenol	232	9.336	9.331	0.005	97	261759	12.0	12.5	
101 Hexadecane	57	9.379	9.374	0.005	95	651153	12.0	14.0	
100 Diethyl phthalate	149	9.383	9.374	0.009	98	972875	12.0	11.9	
103 4-Chlorophenyl phenyl ethe	204	9.507	9.502	0.005	87	491514	12.0	11.7	
106 4-Nitroaniline	138	9.531	9.517	0.014	87	174046	12.0	10.7	
104 Fluorene	166	9.536	9.526	0.010	96	1046287	12.0	12.1	
109 4,6-Dinitro-2-methylphenol	198	9.559	9.545	0.014	94	351503	24.0	27.8	
111 N-Nitrosodiphenylamine	169	9.602	9.598	0.004	67	736922	12.0	12.4	
98 Diphenylamine	169	9.602	9.598	0.004	95	736922	10.2	10.4	
113 1,2-Diphenylhydrazine	77	9.645	9.636	0.009	97	1112650	12.0	12.4	
119 4-Bromophenyl phenyl ether	248	9.921	9.921	0.000	84	272229	12.0	12.1	
122 Hexachlorobenzene	284	10.016	10.011	0.005	98	268553	12.0	11.7	
123 Atrazine	200	10.025	10.021	0.004	86	216055	12.0	11.7	
124 n-Octadecane	43	10.154	10.149	0.005	93	815045	12.0	11.3	
125 Pentachlorophenol	266	10.168	10.159	0.009	96	340801	24.0	25.9	
127 Phenanthrene	178	10.358	10.354	0.004	98	1487445	12.0	12.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.406	10.396	0.010	98	1523204	12.0	12.3	
129 Carbazole	167	10.525	10.520	0.005	96	1262131	12.0	12.0	
133 Di-n-butyl phthalate	149	10.791	10.786	0.005	99	1614900	12.0	12.5	
136 Fluoranthene	202	11.581	11.571	0.010	98	1517575	12.0	12.5	
138 Benzidine	184	11.695	11.685	0.010	99	618176	12.0	14.0	
141 Pyrene	202	11.875	11.866	0.009	97	1514981	12.0	12.3	
147 Butyl benzyl phthalate	149	12.708	12.703	0.005	97	738307	12.0	12.8	
149 3,3'-Dichlorobenzidine	252	13.735	13.721	0.014	100	475662	12.0	12.6	
150 Bis(2-ethylhexyl) phthalat	149	13.801	13.792	0.009	86	1024487	12.0	13.1	
151 Benzo[a]anthracene	228	13.825	13.806	0.019	98	1347076	12.0	12.0	
152 Chrysene	228	13.906	13.887	0.019	99	1262287	12.0	12.4	
155 Di-n-octyl phthalate	149	15.395	15.380	0.014	95	1749327	12.0	12.7	
157 Benzo[b]fluoranthene	252	16.569	16.541	0.028	98	1282214	12.0	12.5	
158 Benzo[k]fluoranthene	252	16.659	16.626	0.033	99	1274239	12.0	12.3	
160 Benzo[a]pyrene	252	17.677	17.634	0.043	97	1275029	12.0	12.4	
163 Indeno[1,2,3-cd]pyrene	276	20.702	20.664	0.038	99	1435753	12.0	12.9	
164 Dibenz(a,h)anthracene	278	20.764	20.726	0.038	97	1152918	12.0	12.4	
165 Benzo[g,h,i]perylene	276	21.425	21.382	0.043	97	1201062	12.0	12.3	
S 170 Total Cresols, TCEQ Defini	1				0			25.1	
S 171 Methyl Phenols,Total	1				0			25.1	

Reagents:

SMlst1_5uLL10_00033 Amount Added: 1.00 Units: mL

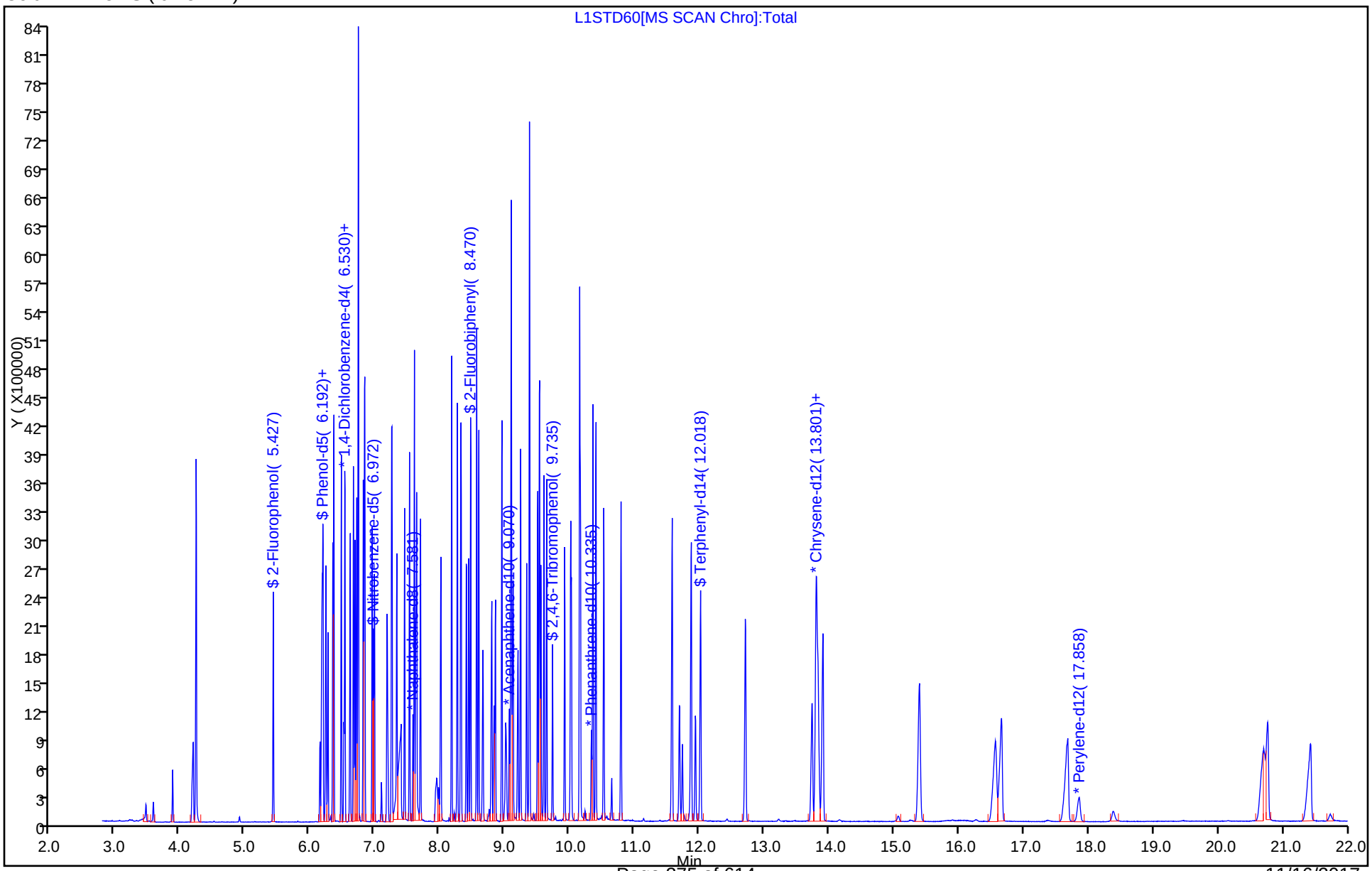
Report Date: 09-Nov-2017 15:47:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD60.D

Injection Date:	26-Oct-2017 21:25:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 26-Oct-2017 21:55:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-012
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:47:15 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:23:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.520	6.516	0.004	95	116885	3.20	3.20	
* 2 Naphthalene-d8	136	7.586	7.581	0.005	99	416918	3.20	3.20	
* 3 Acenaphthene-d10	164	9.069	9.065	0.004	94	210368	3.20	3.20	
* 4 Phenanthrene-d10	188	10.334	10.330	0.004	98	349235	3.20	3.20	
* 5 Chrysene-d12	240	13.849	13.830	0.019	100	286759	3.20	3.20	
* 6 Perylene-d12	264	17.862	17.839	0.023	98	284085	3.20	3.20	
$ 7 2-Fluorophenol	112	5.431	5.422	0.009	95	628108	14.0	14.1	
$ 8 Phenol-d5	99	6.188	6.173	0.015	94	819894	14.0	16.1	
$ 9 Nitrobenzene-d5	82	6.972	6.963	0.009	91	821063	14.0	16.8	
$ 10 2-Fluorobiphenyl	172	8.475	8.470	0.005	97	1322430	14.0	14.9	
$ 11 2,4,6-Tribromophenol	330	9.740	9.731	0.009	90	171585	14.0	15.5	
$ 12 Terphenyl-d14	244	12.023	12.009	0.014	99	1105949	14.0	15.2	
13 1,4-Dioxane	88	3.881	3.872	0.009	85	199510	14.0	19.4	
14 N-Nitrosodimethylamine	42	4.200	4.176	0.024	55	631806	14.0	14.6	
15 Pyridine	79	4.247	4.228	0.019	94	1471814	28.0	27.9	
25 Benzaldehyde	77	6.149	6.145	0.004	96	148071	14.0	9.28	
26 Phenol	94	6.197	6.183	0.014	97	856420	14.0	16.2	
27 Aniline	93	6.245	6.231	0.014	98	1013590	14.0	14.6	
28 Bis(2-chloroethyl)ether	93	6.273	6.264	0.009	96	615308	14.0	15.2	
29 2-Chlorophenol	128	6.349	6.345	0.004	97	706390	14.0	15.7	
30 n-Decane	43	6.363	6.359	0.004	75	1176326	14.0	13.9	
31 1,3-Dichlorobenzene	146	6.478	6.473	0.005	99	815021	14.0	14.9	
33 1,4-Dichlorobenzene	146	6.535	6.530	0.005	93	813984	14.0	14.4	
36 Benzyl alcohol	108	6.620	6.606	0.014	90	449195	14.0	14.2	
37 1,2-Dichlorobenzene	146	6.668	6.663	0.005	96	790116	14.0	14.7	
38 2-Methylphenol	107	6.692	6.682	0.010	88	565216	14.0	15.2	
39 2,2'-oxybis[1-chloropropan	45	6.715	6.711	0.004	89	1578370	14.0	13.5	
40 Indene	116	6.744	6.735	0.009	91	2482495	28.0	28.2	
42 3 & 4 Methylphenol	108	6.820	6.806	0.014	97	675968	14.0	14.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.834	6.820	0.014	94	504176	14.0	13.6	
44 Acetophenone	105	6.844	6.835	0.009	97	959232	14.0	13.7	
45 Hexachloroethane	117	6.953	6.949	0.004	92	324142	14.0	14.7	
46 Nitrobenzene	77	6.991	6.982	0.009	93	739466	14.0	16.4	
48 Isophorone	82	7.186	7.172	0.014	96	1204621	14.0	15.4	
50 2-Nitrophenol	139	7.253	7.248	0.005	91	363526	14.0	16.1	
51 2,4-Dimethylphenol	122	7.262	7.253	0.009	90	607698	14.0	15.6	
52 Bis(2-chloroethoxy)methane	93	7.334	7.329	0.005	98	721988	14.0	16.0	
54 Benzoic acid	122	7.414	7.353	0.061	97	782972	28.0	28.5	
55 2,4-Dichlorophenol	162	7.457	7.448	0.009	97	586790	14.0	15.6	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	94	634087	14.0	15.1	
58 Naphthalene	128	7.605	7.600	0.005	99	1915609	14.0	15.4	
60 4-Chloroaniline	127	7.628	7.619	0.009	95	753110	14.0	14.8	
62 2,6-Dichlorophenol	162	7.643	7.633	0.010	97	571773	14.0	15.1	
63 Hexachlorobutadiene	225	7.700	7.695	0.005	96	325959	14.0	14.7	
65 Caprolactam	113	7.961	7.914	0.047	72	181695	14.0	16.5	
66 4-Chloro-3-methylphenol	107	8.018	8.004	0.014	97	585439	14.0	16.1	
68 2-Methylnaphthalene	142	8.180	8.176	0.004	99	1277852	14.0	14.7	
70 1-Methylnaphthalene	142	8.270	8.261	0.009	99	1161998	14.0	14.8	
72 Hexachlorocyclopentadiene	237	8.318	8.314	0.004	95	375931	14.0	14.9	
73 1,2,4,5-Tetrachlorobenzene	216	8.328	8.323	0.005	96	577184	14.0	14.2	
74 2,4,6-Trichlorophenol	196	8.408	8.404	0.004	89	410382	14.0	15.2	
76 2,4,5-Trichlorophenol	196	8.446	8.437	0.009	97	409653	14.0	15.0	
79 1,1'-Biphenyl	154	8.565	8.561	0.004	96	1486981	14.0	14.9	
80 2-Chloronaphthalene	162	8.599	8.594	0.005	98	1242642	14.0	14.9	
81 2-Nitroaniline	65	8.665	8.656	0.009	96	354944	14.0	15.9	
82 Dimethyl phthalate	163	8.798	8.789	0.009	99	1277247	14.0	15.1	
83 1,3-Dinitrobenzene	168	8.841	8.822	0.019	81	196227	14.0	16.5	
84 2,6-Dinitrotoluene	165	8.855	8.846	0.009	92	295658	14.0	15.9	
86 Acenaphthylene	152	8.955	8.946	0.009	98	1949196	14.0	15.1	
88 3-Nitroaniline	138	9.017	9.003	0.014	94	266907	14.0	15.0	
91 2,4-Dinitrophenol	184	9.098	9.084	0.014	88	345740	28.0	34.6	
90 Acenaphthene	154	9.103	9.093	0.010	95	1221094	14.0	15.1	
92 4-Nitrophenol	109	9.136	9.112	0.024	86	406057	28.0	33.0	
95 2,4-Dinitrotoluene	165	9.207	9.193	0.014	91	385407	14.0	15.3	
97 Dibenzofuran	168	9.245	9.236	0.009	96	1665532	14.0	14.8	
99 2,3,4,6-Tetrachlorophenol	232	9.340	9.331	0.009	96	320414	14.0	15.5	
100 Diethyl phthalate	149	9.388	9.374	0.014	98	1188660	14.0	14.8	
101 Hexadecane	57	9.378	9.374	0.004	86	796651	14.0	17.4	
103 4-Chlorophenyl phenyl ethe	204	9.507	9.502	0.005	86	595386	14.0	14.4	
106 4-Nitroaniline	138	9.535	9.517	0.018	91	224505	14.0	13.9	
104 Fluorene	166	9.535	9.526	0.009	96	1251490	14.0	14.7	
109 4,6-Dinitro-2-methylphenol	198	9.564	9.545	0.019	96	438731	28.0	34.8	
98 Diphenylamine	169	9.607	9.598	0.009	95	895112	11.9	12.7	
111 N-Nitrosodiphenylamine	169	9.607	9.598	0.009	74	895112	14.0	15.1	
113 1,2-Diphenylhydrazine	77	9.645	9.636	0.009	97	1383596	14.0	15.6	
119 4-Bromophenyl phenyl ether	248	9.925	9.921	0.004	89	325576	14.0	14.5	
122 Hexachlorobenzene	284	10.016	10.011	0.005	98	329734	14.0	14.4	
123 Atrazine	200	10.030	10.021	0.009	87	260557	14.0	14.1	
124 n-Octadecane	43	10.154	10.149	0.005	93	966560	14.0	13.5	
125 Pentachlorophenol	266	10.168	10.159	0.009	97	415635	28.0	31.6	
127 Phenanthrene	178	10.358	10.354	0.004	98	1807097	14.0	14.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.406	10.396	0.010	98	1863730	14.0	15.1	
129 Carbazole	167	10.529	10.520	0.009	96	1582452	14.0	15.1	
133 Di-n-butyl phthalate	149	10.791	10.786	0.005	99	2022540	14.0	15.7	
136 Fluoranthene	202	11.580	11.571	0.009	98	1868607	14.0	15.4	
138 Benzidine	184	11.694	11.685	0.009	99	759867	14.0	16.7	
141 Pyrene	202	11.875	11.866	0.009	97	1888665	14.0	14.9	
147 Butyl benzyl phthalate	149	12.712	12.703	0.009	97	926760	14.0	15.5	
149 3,3'-Dichlorobenzidine	252	13.744	13.721	0.023	100	595918	14.0	15.3	
150 Bis(2-ethylhexyl) phthalat	149	13.801	13.792	0.009	86	1237371	14.0	15.3	
151 Benzo[a]anthracene	228	13.830	13.806	0.024	99	1659666	14.0	14.4	
152 Chrysene	228	13.911	13.887	0.024	99	1581603	14.0	15.1	
155 Di-n-octyl phthalate	149	15.394	15.380	0.014	95	2165493	14.0	15.8	
157 Benzo[b]fluoranthene	252	16.578	16.541	0.037	99	1648719	14.0	16.0	
158 Benzo[k]fluoranthene	252	16.669	16.626	0.043	99	1490897	14.0	14.3	
160 Benzo[a]pyrene	252	17.691	17.634	0.057	96	1588833	14.0	15.4	
163 Indeno[1,2,3-cd]pyrene	276	20.702	20.664	0.038	98	1749965	14.0	15.6	
164 Dibenz(a,h)anthracene	278	20.778	20.726	0.052	97	1407629	14.0	15.1	
165 Benzo[g,h,i]perylene	276	21.439	21.382	0.057	97	1433023	14.0	14.6	
S 171 Methyl Phenols,Total	1				0			30.0	
S 170 Total Cresols, TCEQ Defini	1				0			30.0	

Reagents:

SMlst1_5uLL11_00033 Amount Added: 1.00 Units: mL

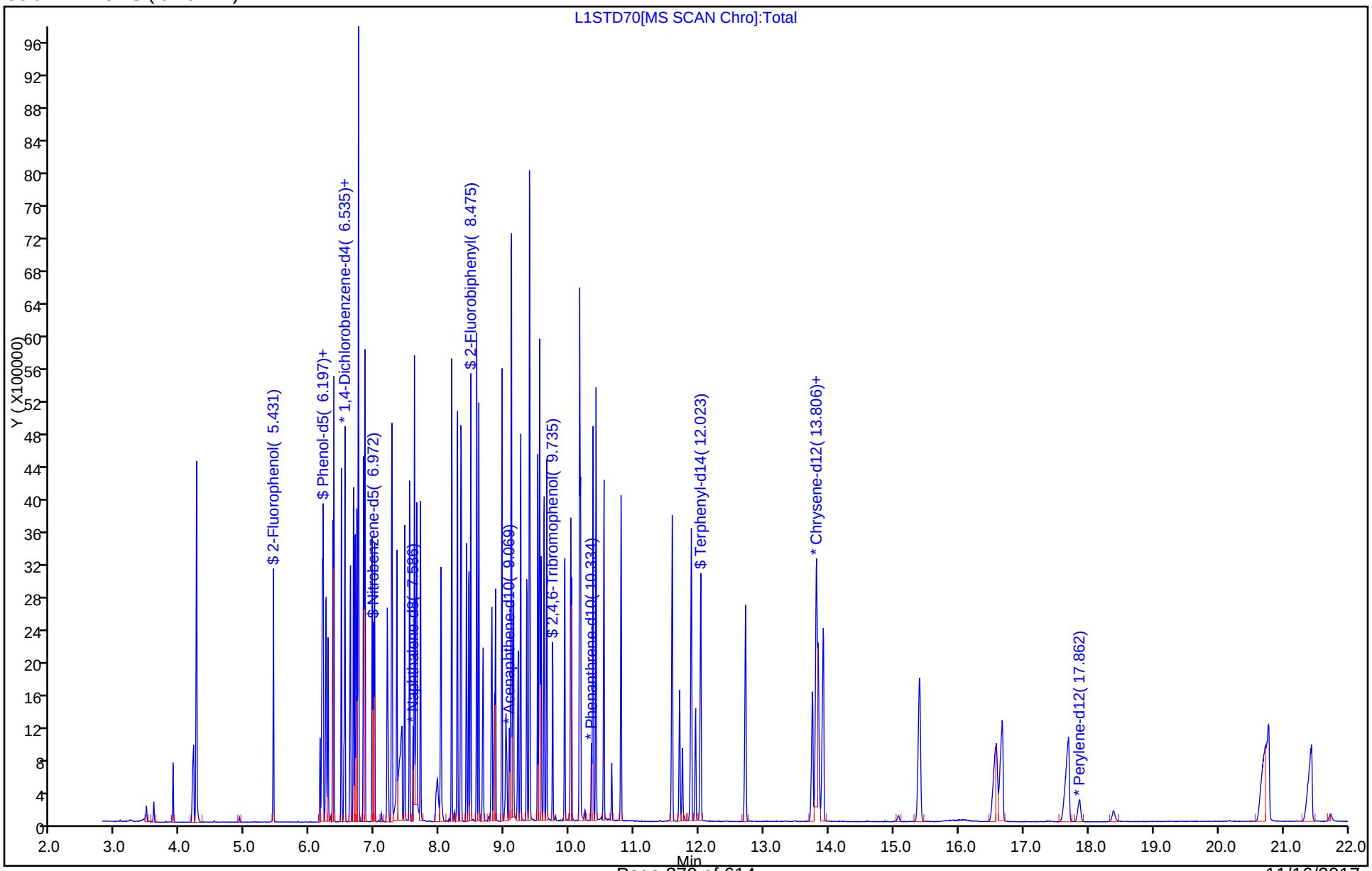
Report Date: 09-Nov-2017 15:47:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Injection Date:	26-Oct-2017 21:55:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	12
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-402944/3	L1STD02.D
Level 2	IC 500-402944/4	L1STD05.D
Level 3	IC 500-402944/5	L1STD1.D
Level 4	IC 500-402944/2	L1STD2.D
Level 5	IC 500-402944/6	L1STD5.D
Level 6	IC 500-402944/7	L1STD10.D
Level 7	IC 500-402944/8	L1STD20.D
Level 8	ICIS 500-402944/9	L1STD40.D
Level 9	IC 500-402944/10	L1STD50.D
Level 10	IC 500-402944/11	L1STD60.D
Level 11	IC 500-402944/12	L1STD70.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,4-Dioxane	0.2667 0.4162	0.3054	0.2983	0.3782	+++++ 0.3852	Ave		0.3417			0.0100	17.4		20.0			
N-Nitrosodimethylamine	1.0602 1.1392	1.0523	1.0602	1.0729	1.0846 1.1051	Ave		1.0821			0.0100	2.9		20.0			
Pyridine	0.8357 1.2149	1.0056	1.1162	1.1694	+++++ 1.1844	Ave		1.0877			0.0100	13.2		20.0			
Benzaldehyde	0.5832 0.2737	0.4387	0.3100	0.2905	+++++ 0.2718	Lin1	0.7808	0.2143			0.0100				0.9940		0.9900
Phenol	1.2135 1.3835	+++++ 1.4304	1.3725	1.3950	1.1362 1.3695	Ave		1.3286			0.8000	8.2		20.0			
Aniline	2.0115 1.8586	2.0359	1.8214	1.8032	1.9737 1.8548	Ave		1.9084			0.0100	5.0		20.0			
Bis(2-chloroethyl)ether	1.2600 1.3035	1.2281	1.1187	1.0443 1.1428	1.2633 1.2120	Ave		1.1966			0.7000	7.3		20.0			
2-Chlorophenol	1.1168 1.2857	1.2412	1.2371	1.2432	1.1301 1.2595	Ave		1.2162			0.8000	5.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
n-Decane	2.7597 1.8167	2.4118	+++++ 2.0378	+++++ 1.9395	3.0499 1.8646	Lin1	1.6407	1.7694			0.0100				0.9940		0.9900
1,3-Dichlorobenzene	1.4341 1.3829	1.3959	1.3514	1.4875 1.3497	1.5153 1.3823	Ave		1.4124			0.0100	4.3		20.0			
1,4-Dichlorobenzene	1.4642 1.3841	1.4344	1.3642	1.4775 1.3573	1.5809 1.3758	Ave		1.4298			0.0100	5.3		20.0			
Benzyl alcohol	0.9156 0.8164	0.8822	0.7810	0.7982	0.8585 0.7946	Ave		0.8352			0.0100	6.1		20.0			
1,2-Dichlorobenzene	1.4471 1.3534	1.4549	1.3494	1.4217 1.3391	1.5555 1.3516	Ave		1.4091			0.0100	5.4		20.0			
2-Methylphenol	0.9964 0.9429	1.0207	0.9165	0.6932 0.9314	0.9148 0.9165	Ave		0.9165			0.7000	10.8		20.0			
2,2'-oxybis[1-chloropropane]	4.7040 3.0619	4.2040	3.3916	4.5362 3.2949	5.0236 3.1392	Ave		3.9194			0.0100	20.0		20.0			
Indene	2.5233 1.7584	2.3591	1.8962	1.8550	2.6778 1.7859	Ave		2.1222			0.0100	18.2		20.0			
3 & 4 Methylphenol	1.2810 1.1040	1.2860	1.1111	0.7741 1.1222	1.1783 1.0870	Ave		1.1179			0.6000	14.3		20.0			
N-Nitrosodi-n-propylamine	0.9584 0.7221	0.6490 0.8533	0.7856 0.7242	0.8914 0.7214	1.0376 0.7112	Ave		0.8054			0.5000	15.6		20.0			
Acetophenone	1.9748 1.4627	1.8168	1.4357 1.5041	1.6566 1.4891	2.0040 1.4641	Ave		1.6453			0.0100	13.9		20.0			
Hexachloroethane	0.6199 0.6007	0.6034	0.5785	0.5809	0.6671 0.5913	Ave		0.6060			0.3000	5.0		20.0			
Nitrobenzene	0.2947 0.3157	0.2927	0.2312 0.2933	0.2508 0.3025	0.2872 0.3057	Ave		0.2860			0.2000	9.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Isophorone	0.5634 0.5817	0.5292	0.5305	0.5969 0.5433	0.6437 0.5566	Ave		0.5682			0.4000	6.8		20.0			
2-Nitrophenol	0.1718 0.1840	0.1715	0.1708	0.1740	0.1704 0.1773	Ave		0.1743			0.1000	2.8		20.0			
2,4-Dimethylphenol	0.2797 0.2792	0.2735	0.2652	0.2682	0.2952 0.2721	Ave		0.2761			0.2000	3.6		20.0			
Bis(2-chloroethoxy)methane	0.3768 0.3555	0.3513	0.3388	0.3632 0.3439	0.4124 0.3468	Ave		0.3611			0.3000	6.6		20.0			
Benzoic acid	0.1605 0.2449	0.1866	0.2095	0.2191	+++++ 0.2322	Ave		0.2088			0.0100	14.8		20.0			
2,4-Dichlorophenol	0.2684 0.2833	0.2658	0.2652	0.2694	0.2525 0.2738	Ave		0.2684			0.2000	3.5		20.0			
1,2,4-Trichlorobenzene	0.3144 0.3290	0.3125	0.3120	0.2925 0.3146	0.3108 0.3188	Ave		0.3131			0.0100	3.2		20.0			
Naphthalene	0.9991 0.8706	0.9342	0.9487 0.8705	0.9773 0.8681	1.0561 0.8573	Ave		0.9313			0.7000	7.5		20.0			
4-Chloroaniline	0.4185 0.4070	0.3907	0.3744	0.3909	0.4733 0.4036	Ave		0.4084			0.0100	7.8		20.0			
2,6-Dichlorophenol	0.2770 0.2762	0.2688	0.2632	0.2657	0.2924 0.2672	Ave		0.2729			0.0100	3.7		20.0			
Hexachlorobutadiene	0.1986 0.2115	0.1952	0.1954	0.2012 0.1992	0.2074 0.2046	Ave		0.2016			0.0100	2.9		20.0			
Caprolactam	0.0883 0.1089	0.0946	0.0963	0.0999	0.0970 0.1036	Ave		0.0984			0.0100	6.7		20.0			
4-Chloro-3-methylphenol	0.2395 0.2648	0.2370	0.2415	0.2475	0.2422 0.2555	Ave		0.2468			0.2000	4.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Methylnaphthalene	0.6921 0.6140	0.6527 0.6375	0.7631 0.5981	0.7111 0.6000	0.7753 0.5989	Ave		0.6643			0.4000	10.2		20.0			
1-Methylnaphthalene	0.6323 0.5714	0.5914	0.7352 0.5544	0.6776 0.5615	0.7226 0.5610	Ave		0.6231			0.0100	11.6		20.0			
Hexachlorocyclopentadiene	0.4473 0.4966	0.4575	0.4632	0.4758	+++++ 0.4768	Ave		0.4696			0.0500	3.7		20.0			
1,2,4,5-Tetrachlorobenzene	0.6372 0.6625	0.6136	0.6135	0.6272	0.6696 0.6414	Ave		0.6379			0.0100	3.5		20.0			
2,4,6-Trichlorophenol	0.3921 0.4489	0.4012	0.4133	0.4223	0.3938 0.4310	Ave		0.4147			0.2000	5.0		20.0			
2,4,5-Trichlorophenol	0.4153 0.4765	0.4117	0.4092	0.4337	0.3997 0.4482	Ave		0.4278			0.2000	6.3		20.0			
1,1'-Biphenyl	1.5002 1.4261	1.4502	1.4031	1.3891	1.6168 1.4013	Ave		1.4552			0.0100	5.5		20.0			
2-Chloronaphthalene	1.2092 1.2223	1.1835	1.1607	1.1866 1.1725	1.2960 1.1798	Ave		1.2013			0.8000	3.6		20.0			
2-Nitroaniline	0.3397 0.4002	0.3389	0.3544	0.3696	0.3491 0.3834	Ave		0.3622			0.0100	6.4		20.0			
Dimethyl phthalate	1.3389 1.4660	1.3091	1.3277	+++++ 1.3634	1.4429 1.4119	Ave		1.3800			0.0100	4.4		20.0			
m-Dinitrobenzene	0.1912 0.2428	0.1992	0.2108	0.2221	0.1860 0.2324	Ave		0.2121			0.0100	10.1		20.0			
2,6-Dinitrotoluene	0.2954 0.3362	0.2127 0.2919	0.2280 0.3061	0.2688 0.3148	0.3044 0.3231	Ave		0.2882			0.2000	14.0		20.0			
Acenaphthylene	1.9996 1.8697	1.9162	1.8992 1.8364	1.9779 1.8410	2.1144 1.8308	Ave		1.9206			0.9000	4.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
3-Nitroaniline	0.2779 0.2745	0.2600	0.2567	0.2785	0.2820 0.2962	Ave		0.2751			0.0100	4.9		20.0			
Acenaphthene	1.3165 1.2230	1.2700	1.1618 1.1779	1.2465 1.1758	1.3668 1.1814	Ave		1.2355			0.9000	5.8		20.0			
2,4-Dinitrophenol	0.1603 0.2351	0.1868	0.2026	0.2125	+++++ 0.2235	Ave		0.2035			0.0100	13.2		20.0			
4-Nitrophenol	0.1536 0.1914	0.1402	0.1664	0.1756	0.1323 0.1846	Ave		0.1635			0.0100	13.7		20.0			
2,4-Dinitrotoluene	0.3789 0.4571	0.3870	0.2820 0.4047	0.3269 0.4202	0.3809 0.4373	Ave		0.3861			0.2000	14.1		20.0			
Dibenzofuran	1.7853 1.7077	1.7026	1.6311	1.8171 1.6521	1.9139 1.6631	Ave		1.7341			0.8000	5.6		20.0			
2,3,4,6-Tetrachlorophenol	0.3599 0.4311	0.3671	0.3864	0.3985	0.3699 0.4141	Ave		0.3896			0.0100	6.8		20.0			
Diethyl phthalate	1.3872 1.2784	1.2968	1.2265	1.4224 1.2335	1.4892 1.2409	Ave		1.3219			0.0100	7.5		20.0			
Hexadecane	1.1070 0.7046	1.0026	0.8212	0.7742	1.1974 0.7239	Qua2	0.1825	1.0524	-0.027937		0.0100				0.9990		0.9900
4-Chlorophenyl phenyl ether	0.6807 0.7129	0.6613	0.6580	0.6672	0.7168 0.6842	Ave		0.6830			0.4000	3.5		20.0			
Fluorene	1.4132 1.3413	1.3354	1.4181 1.2725	1.4140 1.3009	1.5340 1.3176	Ave		1.3719			0.9000	5.9		20.0			
4-Nitroaniline	0.3011 0.2401	0.2749	0.2424	0.2391	+++++ 0.2426	Ave		0.2567			0.0100	10.0		20.0			
4,6-Dinitro-2-methylphenol	0.1228 0.1534	0.1288	0.1341	0.1417	+++++ 0.1453	Ave		0.1377			0.0100	8.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
N-Nitrosodiphenylamine	0.5077 0.5087	0.4922	0.4697 0.4732	0.5030 0.4891	0.5401 0.4883	Ave		0.4969			0.0100	4.3		20.0			
Diphenylamine	0.5973 0.5984	0.5791	0.5568	0.5755	0.6354 0.5745	Ave		0.5881			0.0100	4.3		20.0			
1,2-Diphenylhydrazine	1.2743 1.2556	1.2394	1.2327	1.2335	1.3818 1.2418	Ave		1.2656			0.0100	4.2		20.0			
4-Bromophenyl phenyl ether	0.2295 0.2496	0.2215	0.2237	0.2315	0.2452 0.2363	Ave		0.2339			0.1000	4.5		20.0			
Hexachlorobenzene	0.2668 0.3082	0.2931 0.2654	0.2744 0.2697	0.2731 0.2829	0.2860 0.2874	Ave		0.2807			0.1000	4.8		20.0			
Atrazine	0.1868 0.1728	0.1724	0.1659	0.1688	0.2004 0.1671	Ave		0.1763			0.0100	7.2		20.0			
n-Octadecane	0.6125 0.3237	0.4879	0.3748	+++++ 0.3524	+++++ 0.3287	Lin1	0.7297	0.2759			0.0100				0.9950		0.9900
Pentachlorophenol	0.1647 0.1914	0.1704	0.1715	0.1796	0.1541 0.1831	Ave		0.1735			0.0500	7.1		20.0			
Phenanthrene	1.0634 1.0152	1.0088	1.0271 0.9633	1.0752 0.9760	1.1290 0.9803	Ave		1.0265			0.7000	5.3		20.0			
Anthracene	1.0880 1.0413	1.0551	1.0421 1.0005	1.1082 1.0144	1.1652 1.0017	Ave		1.0574			0.7000	5.2		20.0			
Carbazole	0.9711 0.8845	0.9063	0.8515	0.9280 0.8541	0.9703 0.8612	Ave		0.9034			0.0100	5.4		20.0			
Di-n-butyl phthalate	1.2105 1.1874	1.1776	1.1450	1.2072 1.1616	1.3137 1.1667	Ave		1.1962			0.0100	4.4		20.0			
Fluoranthene	1.1989 1.2136	1.1578	1.0060 1.1169	1.1718 1.1545	1.2676 1.1622	Ave		1.1610			0.6000	6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Benzidine	+++++ 0.4799	0.2991	0.3938	0.4197	+++++ 0.4473	Ave		0.4079			0.0100	16.9		20.0			
Pyrene	1.2052 1.2204	1.1529	0.9638 1.1271	1.1002 1.1424	1.2616 1.1762	Ave		1.1500			0.6000	7.5		20.0			
Butyl benzyl phthalate	0.5318 0.6005	0.5276	0.5333	0.4877 0.5517	0.5422 0.5675	Ave		0.5428			0.0100	6.0		20.0			
3,3'-Dichlorobenzidine	0.3632 0.4738	0.3685	0.3953	0.4112	0.3438 0.4382	Ave		0.3991			0.0100	11.5		20.0			
Bis(2-ethylhexyl) phthalate	0.7613 0.8413	0.7544	0.7670	0.6910 0.7832	0.7895 0.8054	Ave		0.7741			0.0100	5.6		20.0			
Benzo[a]anthracene	1.2608 1.1195 1.2237	1.1195 1.0935	1.0238 1.0913	1.0914 1.1202	1.1933 1.1652	Ave		1.1366			0.8000	6.0		20.0			
Chrysene	1.1612 1.0405 1.1799	1.1212 1.0384	0.9727 1.0429	1.0488 1.0624	1.1372 1.0993	Ave		1.0822			0.7000	5.8		20.0			
Di-n-octyl phthalate	1.2307 1.5410	1.2842	1.3502	1.4185	1.2111 1.4580	Ave		1.3563			0.0100	9.1		20.0			
Benzo[b]fluoranthene	0.8358 1.0044 1.2621	0.8266 1.0204	0.8061 1.0433	0.8991 1.1152	1.0260 1.1828	Ave		1.0020			0.7000	14.9		20.0			
Benzo[k]fluoranthene	0.6892 1.0563 1.1212	0.8850 1.0590	0.8406 1.0939	0.9881 1.1199	1.0995 1.0882	Ave		1.0037			0.7000	14.0		20.0			
Benzo[a]pyrene	0.7155 0.9800 1.1743	0.7358 1.0034	0.7347 1.0356	0.8611 1.0689	1.0020 1.1157	Ave		0.9479			0.7000	17.0		20.0			
Indeno[1,2,3-cd]pyrene	0.9557 1.2449 1.3737	0.9728 1.2501	0.9584 1.2677	1.0977 1.2866	1.2761 1.3184	Ave		1.1820			0.5000	13.2		20.0			
Dibenz(a,h)anthracene	0.6900 0.9927 1.1256	0.7171 1.0224	0.7185 1.0506	0.8579 1.0365	0.9704 1.1134	Ave		0.9359			0.4000	17.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Benzo[g,h,i]perylene	1.0102 1.0542	1.0276	0.7891 1.0061	0.8686 1.0175	1.0033 1.0255	Ave		0.9780			0.5000	9.0		20.0			
2-Fluorophenol (Surr)	0.6808 1.0713	0.7137	0.5304 0.9040	0.6610 0.9091	0.7749 1.0177	Qua2	-0.027	0.6850	0.0262603		0.0100				0.9960		0.9900
Phenol-d5 (Surr)	1.1227 1.3891	1.2776	0.6170 1.3036	0.7438 1.3464	1.0255 1.3098	Lin1	-0.211	1.3519			0.0100				0.9980		0.9900
Nitrobenzene-d5 (Surr)	0.3185 0.3559	0.3092	0.2560 0.3263	0.2738 0.3334	0.3174 0.3330	Ave		0.3137			0.0100	9.9		20.0			
2-Fluorobiphenyl (Surr)	1.3856 1.3345	1.2885	1.3534 1.3051	1.3821 1.3127	1.4713 1.2777	Ave		1.3457			0.0100	4.5		20.0			
2,4,6-Tribromophenol (Surr)	0.2967 0.3837	0.2914	0.2323 0.3313	0.2631 0.3509	0.2943 0.3538	Ave		0.3108			0.0100	15.5		20.0			
Terphenyl-d14 (Surr)	0.7844 0.8675	0.7374	0.6799 0.7917	0.7243 0.8113	0.8274 0.8122	Ave		0.7818			0.0100	7.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-402944/3	L1STD02.D
Level 2	IC 500-402944/4	L1STD05.D
Level 3	IC 500-402944/5	L1STD1.D
Level 4	IC 500-402944/2	L1STD2.D
Level 5	IC 500-402944/6	L1STD5.D
Level 6	IC 500-402944/7	L1STD10.D
Level 7	IC 500-402944/8	L1STD20.D
Level 8	ICIS 500-402944/9	L1STD40.D
Level 9	IC 500-402944/10	L1STD50.D
Level 10	IC 500-402944/11	L1STD60.D
Level 11	IC 500-402944/12	L1STD70.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dioxane	DCBd 4	Ave	42000 541263	106064	236045	364100	+++++ 448319	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
N-Nitrosodimethylamine	DCBd 4	Ave	166983 1481494	365400	839053	1032933	74340 1286318	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Pyridine	DCBd 4	Ave	263232 3160040	698414	1766808	2251728	+++++ 2757091	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
Benzaldehyde	DCBd 4	Lin1	91853 355922	152338	245360	279663	+++++ 316406	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
Phenol	DCBd 4	Ave	191132 1799200	+++++ 496702	1086202	1343044	77873 1593970	2.00 14.0	+++++ 4.00	8.00	10.0	1.00 12.0
Aniline	DCBd 4	Ave	316807 2417114	706970	1441492	1735978	135280 2158930	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	198448 1695211	426474	885374	31887 1100228	86588 1410688	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Chlorophenol	DCBd 4	Ave	175892 1672055	431014	979070	1196849	77460 1466002	2.00 14.0	4.00	8.00	10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
n-Decane	DCBd 4	Lin1	434649 2362672	837514	+++++ 1612764	+++++ 1867236	209042 2170317	2.00 14.0	4.00	+++++ 8.00	+++++ 10.0	1.00 12.0
1,3-Dichlorobenzene	DCBd 4	Ave	225874 1798492	484718	1069542	45421 1299428	103858 1608924	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
1,4-Dichlorobenzene	DCBd 4	Ave	230613 1799973	498104	1079634	45116 1306714	108355 1601375	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzyl alcohol	DCBd 4	Ave	144202 1061706	306353	618141	768423	58841 924836	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2-Dichlorobenzene	DCBd 4	Ave	227926 1760067	505229	1067939	43412 1289187	106613 1573173	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Methylphenol	DCBd 4	Ave	156934 1226294	354447	725321	21166 896674	62699 1066708	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	740884 3981961	1459848	2684187	138513 3172152	344323 3653861	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Indene	DCBd 4	Ave	794836 4573608	1638429	3001333	3571739	367075 4157319	4.00 28.0	8.00	16.0	20.0	2.00 24.0
3 & 4 Methylphenol	DCBd 4	Ave	201751 1435706	446551	879331	23637 1080399	80761 1265248	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
N-Nitrosodi-n-propylamine	DCBd 4	Ave	150941 939047	4235 296314	10370 573172	27220 694532	71116 827825	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acetophenone	DCBd 4	Ave	311033 1902264	630881	18952 1190403	50584 1433605	137357 1704074	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Hexachloroethane	DCBd 4	Ave	97632 781229	209547	457863	559287	45726 688267	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Nitrobenzene	NPT	Ave	214907 1541713	454081	12369 910849	32223 1138258	89154 1359903	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isophorone	NPT	Ave	410785 2840393	821134	1647333	76702 2044611	199796 2476045	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitrophenol	NPT	Ave	125271 898496	266115	530415	654877	52900 788737	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4-Dimethylphenol	NPT	Ave	203947 1363401	424301	823445	1009139	91610 1210467	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethoxy)methane	NPT	Ave	274752 1736040	545038	1052174	46662 1294335	128001 1542920	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzoic acid	NPT	Ave	234110 2391822	578909	1301362	1648864	+++++ 2066283	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
2,4-Dichlorophenol	NPT	Ave	195712 1383570	412357	823532	1013869	78385 1217985	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2,4-Trichlorobenzene	NPT	Ave	229214 1606545	484792	968852	37589 1183856	96464 1418097	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Naphthalene	NPT	Ave	728474 4251074	1449362	50756 2703250	125575 3266781	327802 3814217	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Chloroaniline	NPT	Ave	305185 1987342	606199	1162713	1471174	146914 1795676	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dichlorophenol	NPT	Ave	201962 1348589	417077	817480	999763	90755 1188772	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobutadiene	NPT	Ave	144840 1032574	302850	606727	25850 749705	64364 910034	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Caprolactam	NPT	Ave	64356 531589	146773	299162	376069	30095 461072	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Chloro-3-methylphenol	NPT	Ave	174645 1293122	367640	749949	931296	75159 1136626	2.00 14.0	4.00	8.00	10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Methylnaphthalene	NPT	Ave	504675 2998007	15897 989099	40824 1857502	91374 2257900	240644 2664529	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
1-Methylnaphthalene	NPT	Ave	461072 2790095	917600	39335 1721489	87065 2113208	224289 2495845	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Hexachlorocyclopentadiene	ANT	Ave	173287 1209163	363598	720914	890353	+++++ 1055562	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	246865 1612984	487665	954809	1173558	118125 1419834	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,6-Trichlorophenol	ANT	Ave	151912 1092943	318833	643184	790181	69464 954173	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,5-Trichlorophenol	ANT	Ave	160881 1160063	327207	636883	811474	70503 992239	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,1'-Biphenyl	ANT	Ave	581182 3472203	1152466	2183524	2599221	285196 3102155	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2-Chloronaphthalene	ANT	Ave	468440 2976037	940577	1806293	91060 2194101	228610 2611652	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitroaniline	ANT	Ave	131595 974324	269356	551582	691654	61574 848840	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Dimethyl phthalate	ANT	Ave	518689 3569459	1040352	2066234	+++++ 2551247	254518 3125462	2.00 14.0	4.00	8.00	+++++ 10.0	1.00 12.0
m-Dinitrobenzene	ANT	Ave	74072 591120	158283	328117	415670	32814 514356	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dinitrotoluene	ANT	Ave	114422 818578	3921 231973	8507 476398	20629 589142	53697 715287	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acenaphthylene	ANT	Ave	774663 4552253	1522877	70852 2857824	151784 3445001	372970 4052861	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
3-Nitroaniline	ANT	Ave	107661 668399	206663	399475	521103	49737 655677	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Acenaphthene	ANT	Ave	510026 2977668	1009319	43343 1833080	95659 2200161	241097 2615293	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2,4-Dinitrophenol	ANT	Ave	124232 1144811	296971	630437	795251	+++++ 989680	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
4-Nitrophenol	ANT	Ave	119021 932116	222877	518047	657247	46661 817318	4.00 28.0	8.00	16.0	20.0	2.00 24.0
2,4-Dinitrotoluene	ANT	Ave	146775 1112909	307538	10521 629741	25083 786210	67196 968030	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenzofuran	ANT	Ave	691617 4157819	1353123	2538382	139441 3091386	337616 3681605	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	139434 1049705	291771	601347	745667	65248 916724	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Diethyl phthalate	ANT	Ave	537418 3112702	1030583	1908721	109155 2308241	262687 2746886	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Hexadecane	ANT	Qua2	428840 1715495	796798	1278026	1448682	211218 1602433	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Chlorophenyl phenyl ether	ANT	Ave	263719 1735791	525513	1023934	1248423	126437 1514670	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Fluorene	ANT	Ave	547468 3265781	1061296	52903 1980240	108513 2434287	270600 2916823	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Nitroaniline	ANT	Ave	116665 584612	218507	377274	447320	+++++ 537059	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
4,6-Dinitro-2-methylphenol	PHN	Ave	181159 1463774	392924	822411	1040194	+++++ 1277811	4.00 28.0	8.00	16.0	20.0	+++++ 24.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
N-Nitrosodiphenylamine	PHN	Ave	374344 2426785	750915	33551 1451261	72375 1795219	180295 2147459	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Diphenylamine	PHN	Ave	374344 2426785	750915	1451261	1795219	180295 2147459	1.70 11.9	3.40	6.80	8.50	0.850 10.2
1,2-Diphenylhydrazine	ANT	Ave	493683 3057048	984966	1918394	2308145	243744 2748973	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Bromophenyl phenyl ether	PHN	Ave	169264 1190727	337976	686056	849610	81835 1038999	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobenzene	PHN	Ave	196729 1470623	9848 404865	19602 826958	39288 1038113	95463 1263765	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Atrazine	PHN	Ave	137727 824545	262927	508693	619655	66897 734739	2.00 14.0	4.00	8.00	10.0	1.00 12.0
n-Octadecane	PHN	Lin1	451635 1544132	744301	1149347	+++++ 1293334	+++++ 1445462	2.00 14.0	4.00	8.00	+++++ 10.0	+++++ 12.0
Pentachlorophenol	PHN	Ave	242854 1826010	519812	1051613	1318128	102879 1610761	4.00 28.0	8.00	16.0	20.0	2.00 24.0
Phenanthrene	PHN	Ave	784108 4843379	1538910	73368 2954029	154709 3581978	376869 4310713	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Anthracene	PHN	Ave	802250 4968042	1609551	74446 3068042	159456 3722870	388934 4404914	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Carbazole	PHN	Ave	716032 4219933	1382599	2611156	133529 3134739	323897 3786913	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Di-n-butyl phthalate	PHN	Ave	892587 5665067	1796418	3511193	173692 4263049	438519 5130387	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Fluoranthene	PHN	Ave	884016 5789737	1766309	71862 3425059	168601 4237164	423129 5110788	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Benzidine	CRY	Ave	+++++ 2343981	467323	1234918	1601762	+++++ 2009187	+++++ 14.0	4.00	8.00	10.0	+++++ 12.0
Pyrene	CRY	Ave	908090 5961391	1801653	74222 3534691	166127 4360056	435190 5283292	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Butyl benzyl phthalate	CRY	Ave	400676 2933360	824388	1672315	73640 2105542	187022 2548958	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
3,3'-Dichlorobenzidine	CRY	Ave	273645 2314343	575781	1239679	1569158	118585 1968447	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	573620 4109532	1178806	2405246	104342 2989033	272328 3617706	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzo[a]anthracene	CRY	Ave	18049 843459 5977398	41379 1708685	78842 3422223	164788 4275383	411639 5233750	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Chrysene	CRY	Ave	16623 783960 5763664	41444 1622663	74909 3270381	158366 4054479	392273 4937976	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Di-n-octyl phthalate	PHN	Ave	907474 7352159	1959123	4140555	5206122	404281 6411418	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Benzo[b]fluoranthene	PRY	Ave	12256 780374 6595464	31085 1664020	63289 3440854	139147 4499216	359608 5640975	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[k]fluoranthene	PRY	Ave	10106 820688 5859042	33281 1726912	65997 3607621	152911 4518041	385381 5189397	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[a]pyrene	PRY	Ave	10492 761386 6136771	27668 1636238	57681 3415585	133265 4312119	351207 5320960	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	14014 967240 7178885	36582 2038629	75242 4180942	169885 5190413	447289 6287639	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenz(a,h)anthracene	PRY	Ave	10118 771283 5881967	26967 1667231	56406 3464922	132761 4181621	340138 5309726	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Benzo[g,h,i]perylene	PRY	Ave	784843 5509241	1675743	61953 3318001	134415 4105032	351674 4890500	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorophenol (Surr)	DCBd 4	Qua2	107233 1393275	247833	7001 715485	20185 875215	53111 1184496	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Phenol-d5 (Surr)	DCBd 4	Lin1	176826 1806523	443630	8144 1031726	22712 1296223	70288 1524516	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Nitrobenzene-d5 (Surr)	NPT	Ave	232247 1737758	479657	13697 1013378	35178 1254530	98508 1481411	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorobiphenyl (Surr)	ANT	Ave	536796 3249205	1023996	50488 2031100	106063 2456352	259535 2828420	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	114949 934332	231579	8666 515624	20189 656618	51909 783115	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Terphenyl-d14 (Surr)	CRY	Ave	591039 4237705	1152254	52358 2482591	109366 3096376	285412 3648315	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua2 = Quadratic 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-402944/3	L1STD02.D
Level 2	IC 500-402944/4	L1STD05.D
Level 3	IC 500-402944/5	L1STD1.D
Level 4	IC 500-402944/2	L1STD2.D
Level 5	IC 500-402944/6	L1STD5.D
Level 6	IC 500-402944/7	L1STD10.D
Level 7	IC 500-402944/8	L1STD20.D
Level 8	ICIS 500-402944/9	L1STD40.D
Level 9	IC 500-402944/10	L1STD50.D
Level 10	IC 500-402944/11	L1STD60.D
Level 11	IC 500-402944/12	L1STD70.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
1,4-Dioxane	-10.6	-12.7	10.7	12.7	+++++ 21.8	-21.9	30	30	30	30	30	50
N-Nitrosodimethylamine	-2.8	-2.0	-0.8	2.1	0.2 5.3	-2.0	30	30	30	30	50 30	30
Pyridine	-7.5	2.6	7.5	8.9	+++++ 11.7	-23.2	30	30	30	30	30	50
Benzaldehyde	13.6	-0.9	-0.9	-3.5	+++++ 1.7	-10.0	30	30	30	30	30	50
Phenol	7.7	+++++ 3.3	5.0	3.1	-14.5 4.1	-8.7	30	30	30	30	50 30	30
Aniline	6.7	-4.6	-5.5	-2.8	3.4 -2.6	5.4	30	30	30	30	50 30	30
Bis(2-chloroethyl)ether	2.6	-6.5	-4.5	-12.7 1.3	5.6 8.9	5.3	30	30	30	50 30	30 30	30
2-Chlorophenol	2.1	1.7	2.2	3.6	-7.1 5.7	-8.2	30	30	30	30	50 30	30
n-Decane	13.1	3.6	+++++ 0.3	+++++ -2.3	-20.4 -3.9	9.6	30	30	30	30	50 30	30
1,3-Dichlorobenzene	-1.2	-4.3	-4.4	5.3 -2.1	7.3 -2.1	1.5	30	30	30	50 30	30 30	30
1,4-Dichlorobenzene	0.3	-4.6	-5.1	3.3 -3.8	10.6 -3.2	2.4	30	30	30	50 30	30 30	30
Benzyl alcohol	5.6	-6.5	-4.4	-4.9	2.8 -2.3	9.6	30	30	30	30	50 30	30
1,2-Dichlorobenzene	3.3	-4.2	-5.0	0.9 -4.1	10.4 -4.0	2.7	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
2-Methylphenol	11.4	0.0	1.6	-24.4 0.0	-0.2 2.9	8.7	30	30	30	50 30	30 30	30
2,2'-oxybis[1-chloropropane]	7.3	-13.5	-15.9	15.7 -19.9	28.2 -21.9	20.0	30	30	30	50 30	30 30	30
Indene	11.2	-10.7	-12.6	-15.8	26.2 -17.1	18.9	30	30	30	30	50 30	30
3 & 4 Methylphenol	15.0	-0.6	0.4	-30.8 -2.8	5.4 -1.3	14.6	30	30	30	50 30	30 30	30
N-Nitrosodi-n-propylamine	5.9	-19.4 -10.1	-2.5 -10.4	10.7 -11.7	28.8 -10.3	19.0	30	50 30	30 30	30 30	30 30	30
Acetophenone	10.4	-8.6	-12.7 -9.5	0.7 -11.0	21.8 -11.1	20.0	30	30	50 30	30 30	30 30	30
Hexachloroethane	-0.4	-4.5	-4.1	-2.4	10.1 -0.9	2.3	30	30	30	30	50 30	30
Nitrobenzene	2.3	2.6	-19.2 5.8	-12.3 6.9	0.4 10.4	3.1	30	30	50 30	30 30	30 30	30
Isophorone	-6.9	-6.6	-4.4	5.1 -2.0	13.3 2.4	-0.8	30	30	30	50 30	30 30	30
2-Nitrophenol	-1.6	-2.0	-0.1	1.7	-2.2 5.6	-1.4	30	30	30	30	50 30	30
2,4-Dimethylphenol	-1.0	-4.0	-2.9	-1.5	6.9 1.1	1.3	30	30	30	30	50 30	30
Bis(2-chloroethoxy)methane	-2.7	-6.2	-4.7	0.6 -4.0	14.2 -1.5	4.4	30	30	30	50 30	30 30	30
Benzoic acid	-10.7	0.3	4.9	11.2	+++++ 17.3	-23.1	30	30	30	30	30	50
2,4-Dichlorophenol	-1.0	-1.2	0.4	2.0	-5.9 5.6	0.0	30	30	30	30	50 30	30
1,2,4-Trichlorobenzene	-0.2	-0.3	0.5	-6.6 1.8	-0.7 5.1	0.4	30	30	30	50 30	30 30	30
Naphthalene	0.3	-6.5	1.9 -6.8	4.9 -7.9	13.4 -6.5	7.3	30	30	50 30	30 30	30 30	30
4-Chloroaniline	-4.3	-8.3	-4.3	-1.2	15.9 -0.3	2.5	30	30	30	30	50 30	30
2,6-Dichlorophenol	-1.5	-3.5	-2.7	-2.1	7.1 1.2	1.5	30	30	30	30	50 30	30
Hexachlorobutadiene	-3.2	-3.1	-1.2	-0.2 1.5	2.8 4.9	-1.5	30	30	30	50 30	30 30	30
Caprolactam	-3.8	-2.1	1.6	5.4	-1.4 10.7	-10.3	30	30	30	30	50 30	30
4-Chloro-3-methylphenol	-4.0	-2.2	0.3	3.5	-1.9 7.3	-3.0	30	30	30	30	50 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
2-Methylnaphthalene	-4.0	-1.7 -10.0	14.9 -9.7	7.1 -9.8	16.7 -7.6	4.2	30	50 30	30 30	30 30	30 30	30
1-Methylnaphthalene	-5.1	-11.0	18.0 -9.9	8.8 -10.0	16.0 -8.3	1.5	30	30	50 30	30 30	30 30	30
Hexachlorocyclopentadiene	-2.6	-1.3	1.3	1.5	+++++ 5.8	-4.7	30	30	30	30	30	50
1,2,4,5-Tetrachlorobenzene	-3.8	-3.8	-1.7	0.6	5.0 3.9	-0.1	30	30	30	30	50 30	30
2,4,6-Trichlorophenol	-3.2	-0.3	1.8	3.9	-5.0 8.3	-5.4	30	30	30	30	50 30	30
2,4,5-Trichlorophenol	-3.7	-4.3	1.4	4.8	-6.6 11.4	-2.9	30	30	30	30	50 30	30
1,1'-Biphenyl	-0.3	-3.6	-4.5	-3.7	11.1 -2.0	3.1	30	30	30	30	50 30	30
2-Chloronaphthalene	-1.5	-3.4	-2.4	-1.2 -1.8	7.9 1.7	0.7	30	30	30	50 30	30 30	30
2-Nitroaniline	-6.4	-2.1	2.1	5.9	-3.6 10.5	-6.2	30	30	30	30	50 30	30
Dimethyl phthalate	-5.1	-3.8	-1.2	+++++ 2.3	4.6 6.2	-3.0	30	30	30	30	50 30	30
m-Dinitrobenzene	-6.1	-0.6	4.7	9.6	-12.3 14.5	-9.8	30	30	30	30	50 30	30
2,6-Dinitrotoluene	1.3	-26.2 6.2	-20.9 9.3	-6.7 12.1	5.6 16.7	2.5	30	50 30	30 30	30 30	30 30	30
Acenaphthylene	-0.2	-4.4	-1.1 -4.1	3.0 -4.7	10.1 -2.7	4.1	30	30	50 30	30 30	30 30	30
3-Nitroaniline	-5.5	-6.7	1.2	7.7	2.5 -0.2	1.0	30	30	30	30	50 30	30
Acenaphthene	2.8	-4.7	-6.0 -4.8	0.9 -4.4	10.6 -1.0	6.6	30	30	50 30	30 30	30 30	30
2,4-Dinitrophenol	-8.2	-0.5	4.4	9.9	+++++ 15.5	-21.2	30	30	30	30	30	50
4-Nitrophenol	-14.2	1.8	7.4	12.9	-19.1 17.1	-6.0	30	30	30	30	50 30	30
2,4-Dinitrotoluene	0.2	4.8	-27.0 8.8	-15.3 13.3	-1.3 18.4	-1.9	30	30	50 30	30 30	30 30	30
Dibenzofuran	-1.8	-5.9	-4.7	4.8 -4.1	10.4 -1.5	3.0	30	30	30	50 30	30 30	30
2,3,4,6-Tetrachlorophenol	-5.8	-0.8	2.3	6.3	-5.1 10.7	-7.6	30	30	30	30	50 30	30
Diethyl phthalate	-1.9	-7.2	-6.7	7.6 -6.1	12.7 -3.3	4.9	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
Hexadecane	2.0	-4.9	-3.4	-2.2	-1.0 14.0	2.0	30	30	30	30	50 30	30
4-Chlorophenyl phenyl ether	-3.2	-3.7	-2.3	0.2	4.9 4.4	-0.3	30	30	30	30	50 30	30
Fluorene	-2.7	-7.2	3.4 -5.2	3.1 -4.0	11.8 -2.2	3.0	30	30	50 30	30 30	30 30	30
4-Nitroaniline	7.1	-5.6	-6.9	-5.5	+++++ -6.5	17.3	30	30	30	30	30	50
4,6-Dinitro-2-methylphenol	-6.5	-2.6	2.9	5.5	+++++ 11.4	-10.8	30	30	30	30	30	50
N-Nitrosodiphenylamine	-0.9	-4.8	-5.5 -1.6	1.2 -1.7	8.7 2.4	2.2	30	30	50 30	30 30	30 30	30
Diphenylamine	-1.5	-5.3	-2.2	-2.3	8.0 1.7	1.6	30	30	30	30	50 30	30
1,2-Diphenylhydrazine	-2.1	-2.6	-2.5	-1.9	9.2 -0.8	0.7	30	30	30	30	50 30	30
4-Bromophenyl phenyl ether	-5.3	-4.4	-1.0	1.0	4.8 6.7	-1.9	30	30	30	30	50 30	30
Hexachlorobenzene	-5.4	4.4 -3.9	-2.2 0.8	-2.7 2.4	1.9 9.8	-4.9	30	50 30	30 30	30 30	30 30	30
Atrazine	-2.2	-5.9	-4.2	-5.2	13.7 -2.0	5.9	30	30	30	30	50 30	30
n-Octadecane	10.7	2.8	1.3	+++++ -2.9	+++++ -1.6	-10.2	30	30	30	30	30	50
Pentachlorophenol	-1.8	-1.2	3.5	5.5	-11.2 10.3	-5.1	30	30	30	30	50 30	30
Phenanthrene	-1.7	-6.2	0.1 -4.9	4.8 -4.5	10.0 -1.1	3.6	30	30	50 30	30 30	30 30	30
Anthracene	-0.2	-5.4	-1.4 -4.1	4.8 -5.3	10.2 -1.5	2.9	30	30	50 30	30 30	30 30	30
Carbazole	0.3	-5.7	-5.5	2.7 -4.7	7.4 -2.1	7.5	30	30	30	50 30	30 30	30
Di-n-butyl phthalate	-1.6	-4.3	-2.9	0.9 -2.5	9.8 -0.7	1.2	30	30	30	50 30	30 30	30
Fluoranthene	-0.3	-3.8	-13.4 -0.6	0.9 0.1	9.2 4.5	3.3	30	30	50 30	30 30	30 30	30
Benzidine	-26.7	-3.5	2.9	9.6	+++++ 17.6	+++++	50	30	30	30	30	
Pyrene	0.3	-2.0	-16.2 -0.7	-4.3 2.3	9.7 6.1	4.8	30	30	50 30	30 30	30 30	30
Butyl benzyl phthalate	-2.8	-1.8	1.6	-10.1 4.5	-0.1 10.6	-2.0	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136329-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
3,3'-Dichlorobenzidine	-7.7	-1.0	3.0	9.8	-13.9 18.7	-9.0	30	30	30	30	50 30	30
Bis(2-ethylhexyl) phthalate	-2.6	-0.9	1.2	-10.7 4.0	2.0 8.7	-1.7	30	30	30	50 30	30 30	30
Benzo[a]anthracene	10.9 -3.8	-1.5 -4.0	-9.9 -1.4	-4.0 2.5	5.0 7.7	-1.5	50 30	30 30	30 30	30 30	30 30	30
Chrysene	7.3 -4.1	3.6 -3.6	-10.1 -1.8	-3.1 1.6	5.1 9.0	-3.9	50 30	30 30	30 30	30 30	30 30	30
Di-n-octyl phthalate	-5.3	-0.4	4.6	7.5	-10.7 13.6	-9.3	30	30	30	30	50 30	30
Benzo[b]fluoranthene	-16.6 1.8	-17.5 4.1	-19.5 11.3	-10.3 18.0	2.4 26.0	0.2	50 30	30 30	30 30	30 30	30 30	30
Benzo[k]fluoranthene	-31.3 5.5	-11.8 9.0	-16.2 11.6	-1.6 8.4	9.5 11.7	5.2	50 30	30 30	30 30	30 30	30 30	30
Benzo[a]pyrene	-24.5 5.8	-22.4 9.3	-22.5 12.8	-9.2 17.7	5.7 23.9	3.4	50 30	30 30	30 30	30 30	30 30	30
Indeno[1,2,3-cd]pyrene	-19.1 5.8	-17.7 7.2	-18.9 8.8	-7.1 11.5	8.0 16.2	5.3	50 30	30 30	30 30	30 30	30 30	30
Dibenz(a,h)anthracene	-26.3 9.2	-23.4 12.3	-23.2 10.7	-8.3 19.0	3.7 20.3	6.1	50 30	30 30	30 30	30 30	30 30	30
Benzo[g,h,i]perylene	5.1	2.9	-19.3 4.0	-11.2 4.9	2.6 7.8	3.3	30	30	50 30	30 30	30 30	30
2-Fluorophenol (Surr)	-7.9	1.1	-3.8 -3.0	4.6 1.5	12.2 1.4	-5.5	30	30	50 30	30 30	30 30	30
Phenol-d5 (Surr)	-1.6	-1.6	23.7 1.2	-6.0 -1.8	-8.5 3.9	-9.2	30	30	50 30	30 30	30 30	30
Nitrobenzene-d5 (Surr)	-1.5	4.0	-18.4 6.3	-12.7 6.1	1.2 13.4	1.5	30	30	50 30	30 30	30 30	30
2-Fluorobiphenyl (Surr)	-4.2	-3.0	0.6 -2.4	2.7 -5.1	9.3 -0.8	3.0	30	30	50 30	30 30	30 30	30
2,4,6-Tribromophenol (Surr)	-6.3	6.6	-25.3 12.9	-15.4 13.8	-5.3 23.5	-4.5	30	30	50 30	30 30	30 30	30
Terphenyl-d14 (Surr)	-5.7	1.3	-13.0 3.8	-7.4 3.9	5.8 11.0	0.3	30	30	50 30	30 30	30 30	30

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD2.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 13:02:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-002
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:28 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 15:54:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	96	244279	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	1027932	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	613916	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1151067	3.20	3.20	
* 5 Chrysene-d12	240	13.536	13.550	-0.014	99	1207929	3.20	3.20	
* 6 Perylene-d12	264	17.264	17.269	-0.005	97	1238062	3.20	3.20	
$ 7 2-Fluorophenol	112	5.333	5.337	-0.004	93	20185	0.4000	0.4182	
$ 8 Phenol-d5	99	6.074	6.089	-0.015	93	22712	0.4000	0.3761	
$ 9 Nitrobenzene-d5	82	6.859	6.869	-0.010	94	35178	0.4000	0.3491	
$ 10 2-Fluorobiphenyl	172	8.362	8.367	-0.005	99	106063	0.4000	0.4108	
$ 11 2,4,6-Tribromophenol	330	9.613	9.617	-0.004	70	20189	0.4000	0.3386	
$ 12 Terphenyl-d14	244	11.819	11.824	-0.005	100	109366	0.4000	0.3706	
27 Bis(2-chloroethyl)ether	93	6.170	6.179	-0.009	93	31887	0.4000	0.3491	
30 n-Decane	43	6.265	6.269	-0.004	88	90240	0.4000	-0.2592	
31 1,3-Dichlorobenzene	146	6.374	6.379	-0.005	98	45421	0.4000	0.4213	
32 1,4-Dichlorobenzene	146	6.431	6.436	-0.005	95	45116	0.4000	0.4134	
34 1,2-Dichlorobenzene	146	6.564	6.569	-0.005	98	43412	0.4000	0.4036	
36 2-Methylphenol	107	6.583	6.593	-0.010	93	21166	0.4000	0.3025	
35 2,2'-oxybis[1-chloropropan	45	6.612	6.621	-0.009	90	138513	0.4000	0.4629	
42 3 & 4 Methylphenol	108	6.707	6.716	-0.009	94	23637	0.4000	0.2770	
41 N-Nitrosodi-n-propylamine	70	6.716	6.735	-0.019	83	27220	0.4000	0.4427	
40 Acetophenone	105	6.731	6.740	-0.009	93	50584	0.4000	0.4027	
45 Nitrobenzene	77	6.878	6.888	-0.010	96	32223	0.4000	0.3508	
47 Isophorone	82	7.068	7.083	-0.015	97	76702	0.4000	0.4203	
51 Bis(2-chloroethoxy)methane	93	7.225	7.235	-0.010	94	46662	0.4000	0.4023	
55 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	94	37589	0.4000	0.3738	
56 Naphthalene	128	7.496	7.501	-0.005	98	125575	0.4000	0.4197	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	25850	0.4000	0.3991	
67 2-Methylnaphthalene	142	8.067	8.072	-0.005	96	91374	0.4000	0.4282	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
68 1-Methylnaphthalene	142	8.153	8.157	-0.004	96	87065	0.4000	0.4350	
76 2-Chloronaphthalene	162	8.481	8.485	-0.004	95	91060	0.4000	0.3951	
82 Dimethyl phthalate	163	8.676	8.690	-0.014	98	104113	0.4000	0.3933	
84 2,6-Dinitrotoluene	165	8.733	8.742	-0.009	91	20629	0.4000	0.3732	
85 Acenaphthylene	152	8.833	8.842	-0.009	98	151784	0.4000	0.4119	
87 Acenaphthene	154	8.980	8.985	-0.005	93	95659	0.4000	0.4036	
91 2,4-Dinitrotoluene	165	9.075	9.089	-0.014	92	25083	0.4000	0.3386	
92 Dibenzofuran	168	9.123	9.127	-0.004	98	139441	0.4000	0.4191	
97 Diethyl phthalate	149	9.261	9.270	-0.009	97	109155	0.4000	0.4304	
102 Fluorene	166	9.408	9.418	-0.010	94	108513	0.4000	0.4123	
106 N-Nitrosodiphenylamine	169	9.479	9.489	-0.010	66	72375	0.4000	0.4049	
117 Hexachlorobenzene	284	9.888	9.893	-0.005	97	39288	0.4000	0.3891	
123 n-Octadecane	43	10.036	10.036	0.000	88	99320	0.4000	-1.64	
126 Phenanthrene	178	10.226	10.236	-0.010	97	154709	0.4000	0.4190	
127 Anthracene	178	10.269	10.278	-0.009	99	159456	0.4000	0.4192	
128 Carbazole	167	10.388	10.392	-0.004	97	133529	0.4000	0.4109	
130 Di-n-butyl phthalate	149	10.649	10.654	-0.005	99	173692	0.4000	0.4037	
135 Fluoranthene	202	11.391	11.401	-0.010	98	168601	0.4000	0.4037	
137 Pyrene	202	11.672	11.681	-0.009	96	166127	0.4000	0.3827	
145 Butyl benzyl phthalate	149	12.475	12.480	-0.005	95	73640	0.4000	0.3594	
150 Bis(2-ethylhexyl) phthalat	149	13.503	13.512	-0.009	94	104342	0.4000	0.3571	
149 Benzo[a]anthracene	228	13.512	13.531	-0.019	99	164788	0.4000	0.3841	
151 Chrysene	228	13.584	13.607	-0.023	97	158366	0.4000	0.3877	
156 Benzo[b]fluoranthene	252	16.033	16.080	-0.047	98	139147	0.4000	0.3589	
157 Benzo[k]fluoranthene	252	16.114	16.161	-0.048	99	152911	0.4000	0.3938	
158 Benzo[a]pyrene	252	17.050	17.098	-0.048	97	133265	0.4000	0.3634	
162 Indeno[1,2,3-cd]pyrene	276	20.156	20.208	-0.052	98	169885	0.4000	0.3715	
163 Dibenz(a,h)anthracene	278	20.227	20.275	-0.048	94	132761	0.4000	0.3666	
164 Benzo[g,h,i]perylene	276	20.812	20.874	-0.062	79	134415	0.4000	0.3552	
S 173 Methyl Phenols,Total	1				0			0.5795	

Reagents:

SMlst1_5uLL4_00034 Amount Added: 1.00 Units: mL

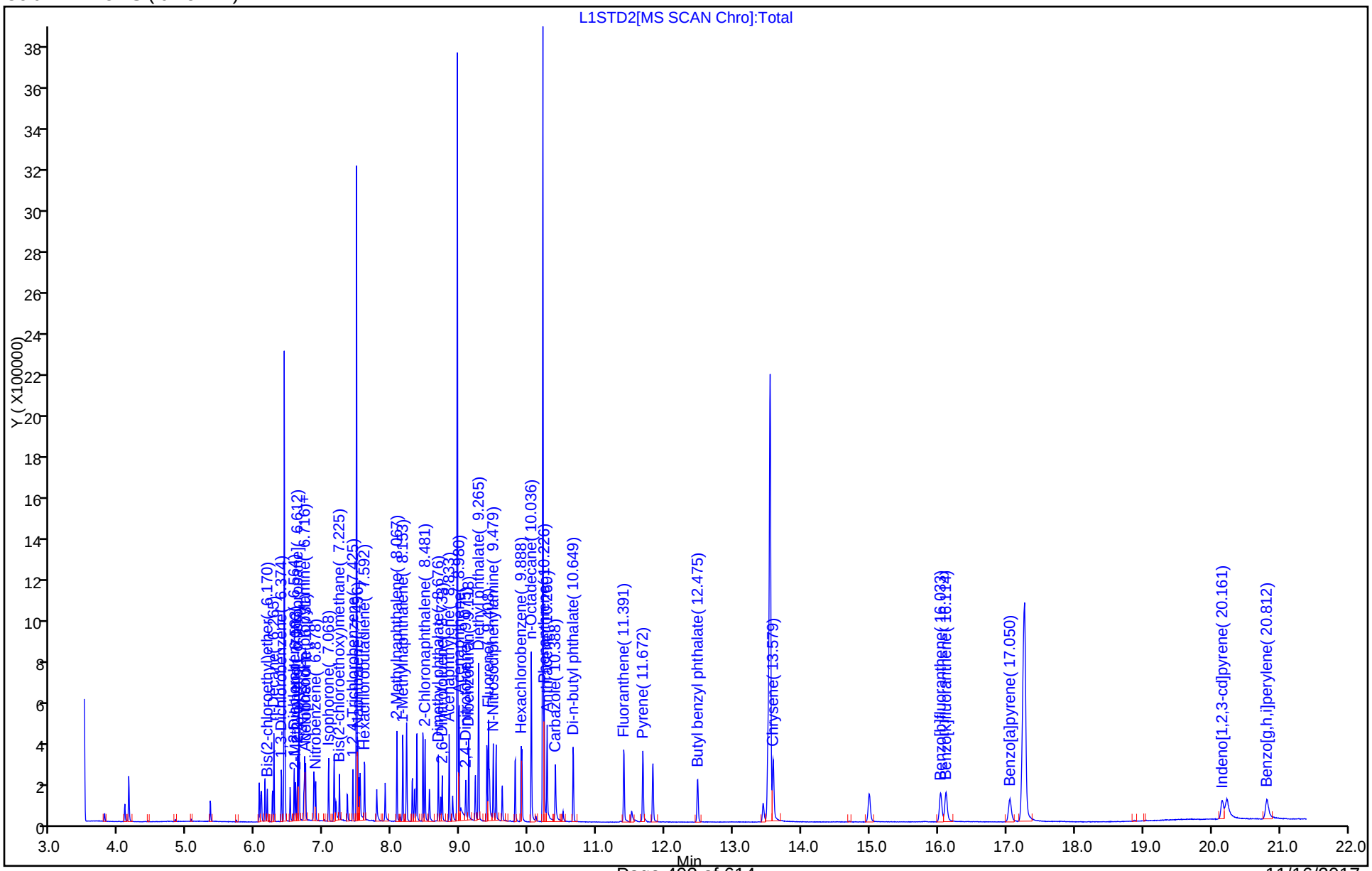
Report Date: 28-Sep-2017 10:34:29 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD2.D

Injection Date:	27-Sep-2017 13:02:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD02.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 13:31:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-003
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:32 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: akcakald Date: 27-Sep-2017 15:14:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	96	212022	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	737732	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	565748	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1011355	3.20	3.20	
* 5 Chrysene-d12	240	13.531	13.550	-0.019	99	1145217	3.20	3.20	
* 6 Perylene-d12	264	17.255	17.269	-0.014	97	1173086	3.20	3.20	
149 Benzo[a]anthracene	228	13.507	13.531	-0.024	96	18049	0.0400	0.0444	
151 Chrysene	228	13.579	13.607	-0.028	97	16623	0.0400	0.0429	
156 Benzo[b]fluoranthene	252	16.033	16.080	-0.047	65	12256	0.0400	0.0334	
157 Benzo[k]fluoranthene	252	16.109	16.161	-0.052	98	10106	0.0400	0.0275	
158 Benzo[a]pyrene	252	17.036	17.098	-0.062	1	10492	0.0400	0.0302	
162 Indeno[1,2,3-cd]pyrene	276	20.170	20.208	-0.038	26	14014	0.0400	0.0323	
163 Dibenz(a,h)anthracene	278	20.275	20.275	0.000	1	10118	0.0400	0.0295	

Reagents:

SMlst1_5uLL1_00034 Amount Added: 1.00 Units: mL

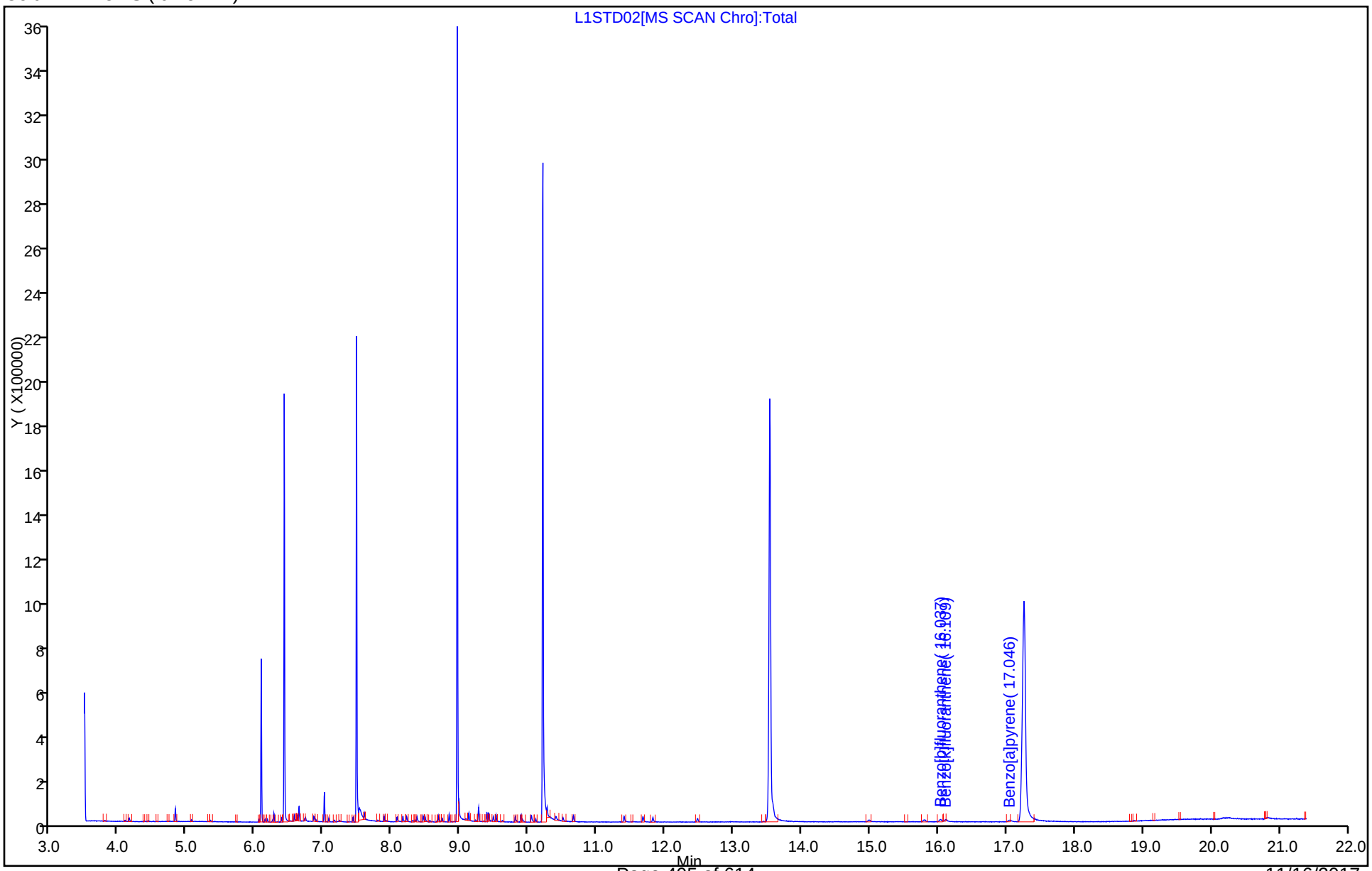
Report Date: 28-Sep-2017 10:34:33 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD02.D

Injection Date:	27-Sep-2017 13:31:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD05.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 14:01:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-004
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:35 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 16:01:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	96	208813	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	779376	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	589893	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1075336	3.20	3.20	
* 5 Chrysene-d12	240	13.531	13.550	-0.019	99	1182824	3.20	3.20	
* 6 Perylene-d12	264	17.255	17.269	-0.014	98	1203324	3.20	3.20	
41 N-Nitrosodi-n-propylamine	70	6.716	6.735	-0.019	82	4235	0.1000	0.0806	
67 2-Methylnaphthalene	142	8.067	8.072	-0.005	96	15897	0.1000	0.0983	
84 2,6-Dinitrotoluene	165	8.733	8.742	-0.009	91	3921	0.1000	0.0738	
117 Hexachlorobenzene	284	9.888	9.893	-0.005	97	9848	0.1000	0.1044	
149 Benzo[a]anthracene	228	13.507	13.531	-0.024	98	41379	0.1000	0.0985	
151 Chrysene	228	13.579	13.607	-0.028	98	41444	0.1000	0.1036	
156 Benzo[b]fluoranthene	252	16.033	16.080	-0.047	98	31085	0.1000	0.0825	
157 Benzo[k]fluoranthene	252	16.113	16.161	-0.048	99	33281	0.1000	0.0882	
158 Benzo[a]pyrene	252	17.041	17.098	-0.057	96	27668	0.1000	0.0776	
162 Indeno[1,2,3-cd]pyrene	276	20.170	20.208	-0.038	96	36582	0.1000	0.0823	
163 Dibenz(a,h)anthracene	278	20.246	20.275	-0.029	40	26967	0.1000	0.0766	

Reagents:

SMlst1_5uLL2_00033 Amount Added: 1.00 Units: mL

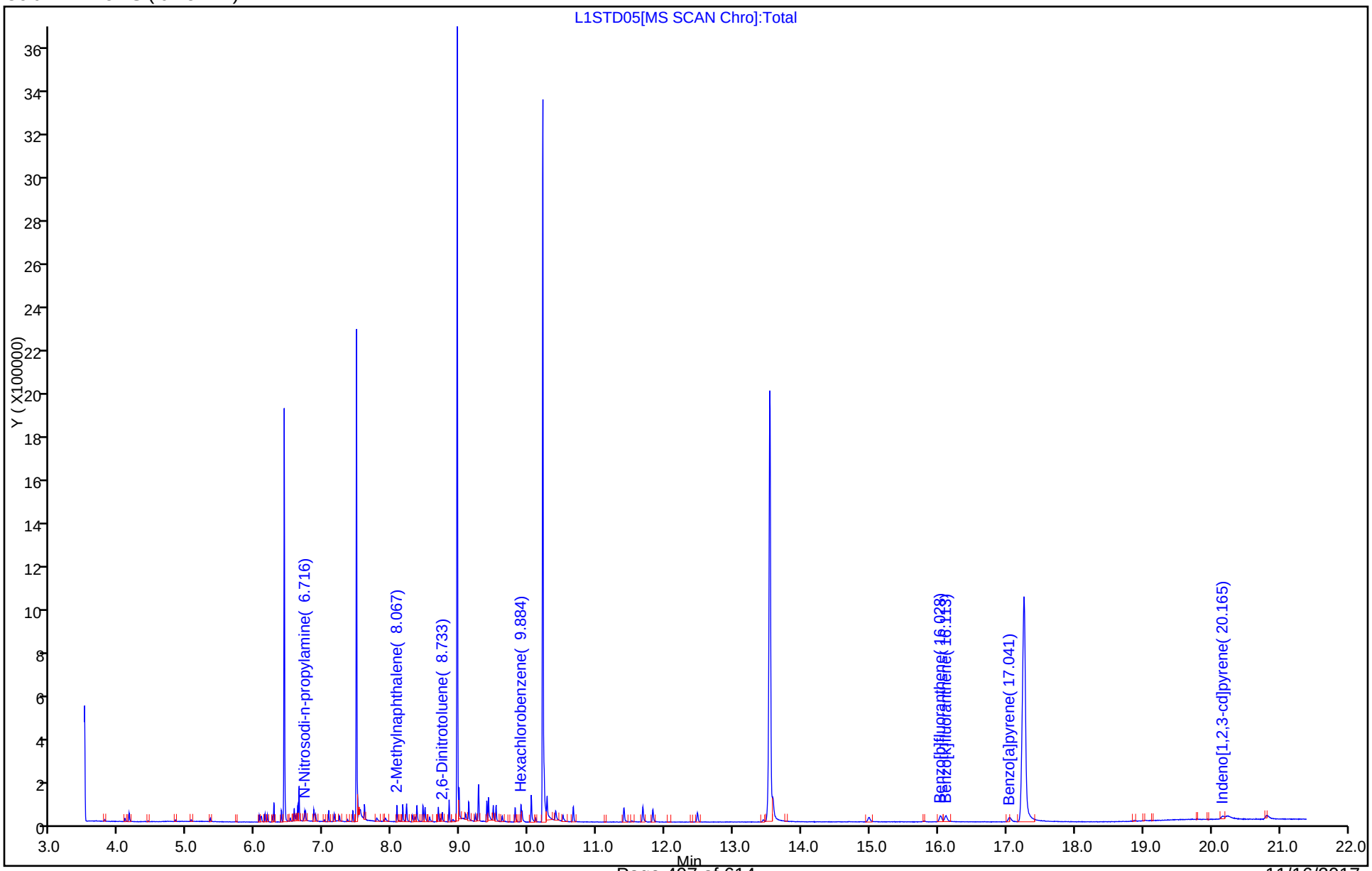
Report Date: 28-Sep-2017 10:34:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD05.D

Injection Date:	27-Sep-2017 14:01:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD1.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Sep-2017 14:30:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-005
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:39 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 16:00:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	95	211202	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	856006	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	596889	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1142962	3.20	3.20	
* 5 Chrysene-d12	240	13.531	13.550	-0.019	99	1232150	3.20	3.20	
* 6 Perylene-d12	264	17.260	17.269	-0.009	97	1256140	3.20	3.20	
$ 7 2-Fluorophenol	112	5.337	5.337	0.000	93	7001	0.2000	0.1924	
$ 8 Phenol-d5	99	6.074	6.089	-0.015	93	8144	0.2000	0.2473	
$ 9 Nitrobenzene-d5	82	6.864	6.869	-0.005	95	13697	0.2000	0.1632	
$ 10 2-Fluorobiphenyl	172	8.362	8.367	-0.005	99	50488	0.2000	0.2011	
$ 11 2,4,6-Tribromophenol	330	9.613	9.617	-0.004	69	8666	0.2000	0.1495	
$ 12 Terphenyl-d14	244	11.814	11.824	-0.010	100	52358	0.2000	0.1739	
30 n-Decane	43	6.265	6.269	-0.004	88	39687	0.2000	-0.5874	
41 N-Nitrosodi-n-propylamine	70	6.716	6.735	-0.019	83	10370	0.2000	0.1951	
40 Acetophenone	105	6.731	6.740	-0.009	91	18952	0.2000	0.1745	
45 Nitrobenzene	77	6.878	6.888	-0.010	95	12369	0.2000	0.1617	
56 Naphthalene	128	7.492	7.501	-0.009	99	50756	0.2000	0.2037	
67 2-Methylnaphthalene	142	8.067	8.072	-0.005	96	40824	0.2000	0.2297	
68 1-Methylnaphthalene	142	8.153	8.157	-0.004	96	39335	0.2000	0.2360	
84 2,6-Dinitrotoluene	165	8.733	8.742	-0.009	89	8507	0.2000	0.1583	
85 Acenaphthylene	152	8.833	8.842	-0.009	98	70852	0.2000	0.1978	
87 Acenaphthene	154	8.980	8.985	-0.005	92	43343	0.2000	0.1881	
91 2,4-Dinitrotoluene	165	9.075	9.089	-0.014	90	10521	0.2000	0.1461	
102 Fluorene	166	9.408	9.418	-0.010	94	52903	0.2000	0.2067	
106 N-Nitrosodiphenylamine	169	9.479	9.489	-0.010	64	33551	0.2000	0.1890	
117 Hexachlorobenzene	284	9.888	9.893	-0.005	97	19602	0.2000	0.1955	
126 Phenanthrene	178	10.226	10.236	-0.010	96	73368	0.2000	0.2001	
127 Anthracene	178	10.269	10.278	-0.009	99	74446	0.2000	0.1971	
135 Fluoranthene	202	11.391	11.401	-0.010	98	71862	0.2000	0.1733	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
137 Pyrene	202	11.672	11.681	-0.009	96	74222	0.2000	0.1676	
149 Benzo[a]anthracene	228	13.507	13.531	-0.024	99	78842	0.2000	0.1802	
151 Chrysene	228	13.579	13.607	-0.028	97	74909	0.2000	0.1798	
156 Benzo[b]fluoranthene	252	16.033	16.080	-0.047	98	63289	0.2000	0.1609	
157 Benzo[k]fluoranthene	252	16.113	16.161	-0.048	99	65997	0.2000	0.1675	
158 Benzo[a]pyrene	252	17.050	17.098	-0.048	96	57681	0.2000	0.1550	
162 Indeno[1,2,3-cd]pyrene	276	20.160	20.208	-0.048	98	75242	0.2000	0.1622	
163 Dibenz(a,h)anthracene	278	20.232	20.275	-0.043	90	56406	0.2000	0.1535	
164 Benzo[g,h,i]perylene	276	20.812	20.874	-0.062	79	61953	0.2000	0.1614	

Reagents:

SMlst1_5uLL3_00033 Amount Added: 1.00 Units: mL

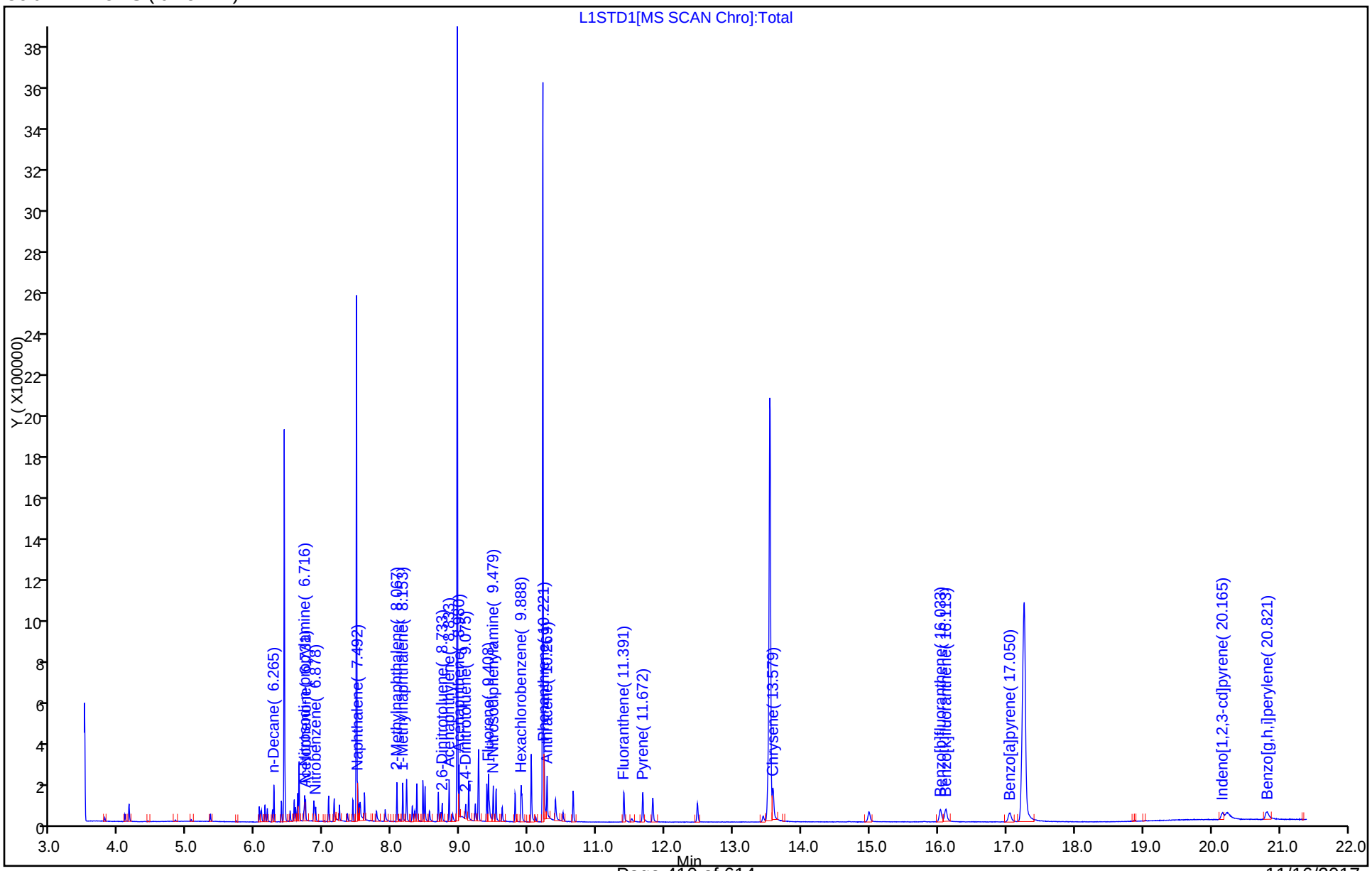
Report Date: 28-Sep-2017 10:34:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD1.D

Injection Date:	27-Sep-2017 14:30:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD5.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 14:59:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-006
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:43 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 15:57:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	95	219331	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	993221	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	564474	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1068166	3.20	3.20	
* 5 Chrysene-d12	240	13.536	13.550	-0.014	99	1103823	3.20	3.20	
* 6 Perylene-d12	264	17.255	17.269	-0.014	97	1121624	3.20	3.20	
$ 7 2-Fluorophenol	112	5.337	5.337	0.000	94	53111	1.00	1.12	
$ 8 Phenol-d5	99	6.074	6.089	-0.015	93	70288	1.00	0.9146	
$ 9 Nitrobenzene-d5	82	6.864	6.869	-0.005	96	98508	1.00	1.01	
$ 10 2-Fluorobiphenyl	172	8.357	8.367	-0.010	100	259535	1.00	1.09	
$ 11 2,4,6-Tribromophenol	330	9.613	9.617	-0.004	69	51909	1.00	0.9467	
$ 12 Terphenyl-d14	244	11.814	11.824	-0.010	100	285412	1.00	1.06	
13 1,4-Dioxane	88	3.787	3.792	-0.005	86	24890	1.00	1.06	
14 N-Nitrosodimethylamine	42	4.082	4.101	-0.019	69	74340	1.00	1.00	
15 Pyridine	79	4.144	4.153	-0.009	76	124988	2.00	1.68	
23 Benzaldehyde	77	6.051	6.055	-0.004	89	51389	1.00	-0.1449	
25 Phenol	94	6.084	6.103	-0.019	94	77873	1.00	0.8551	
26 Aniline	93	6.136	6.146	-0.010	95	135280	1.00	1.03	
27 Bis(2-chloroethyl)ether	93	6.170	6.179	-0.009	93	86588	1.00	1.06	
29 2-Chlorophenol	128	6.246	6.250	-0.004	98	77460	1.00	0.9292	
30 n-Decane	43	6.265	6.269	-0.004	87	209042	1.00	0.7964	
31 1,3-Dichlorobenzene	146	6.374	6.379	-0.005	99	103858	1.00	1.07	
32 1,4-Dichlorobenzene	146	6.431	6.436	-0.005	96	108355	1.00	1.11	
33 Benzyl alcohol	108	6.502	6.517	-0.015	91	58841	1.00	1.03	
34 1,2-Dichlorobenzene	146	6.564	6.569	-0.005	98	106613	1.00	1.10	
36 2-Methylphenol	107	6.583	6.593	-0.010	94	62699	1.00	1.00	
35 2,2'-oxybis[1-chloropropan	45	6.617	6.621	-0.004	91	344323	1.00	1.28	
37 Indene	116	6.636	6.640	-0.004	91	367075	2.00	2.52	
42 3 & 4 Methylphenol	108	6.707	6.716	-0.009	94	80761	1.00	1.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.716	6.735	-0.019	83	71116	1.00	1.29	
40 Acetophenone	105	6.731	6.740	-0.009	93	137357	1.00	1.22	
44 Hexachloroethane	117	6.850	6.854	-0.004	96	45726	1.00	1.10	
45 Nitrobenzene	77	6.878	6.888	-0.010	97	89154	1.00	1.00	
47 Isophorone	82	7.068	7.083	-0.015	97	199796	1.00	1.13	
48 2-Nitrophenol	139	7.144	7.149	-0.005	90	52900	1.00	0.9780	
49 2,4-Dimethylphenol	122	7.149	7.159	-0.010	90	91610	1.00	1.07	
51 Bis(2-chloroethoxy)methane	93	7.225	7.235	-0.010	94	128001	1.00	1.14	
52 Benzoic acid	122	7.192	7.287	-0.095	87	67012	2.00	1.03	
54 2,4-Dichlorophenol	162	7.339	7.349	-0.010	95	78385	1.00	0.9411	
55 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	95	96464	1.00	0.99	
56 Naphthalene	128	7.496	7.501	-0.005	99	327802	1.00	1.13	
57 4-Chloroaniline	127	7.515	7.520	-0.005	95	146914	1.00	1.16	
58 2,6-Dichlorophenol	162	7.530	7.534	-0.004	97	90755	1.00	1.07	
60 Hexachlorobutadiene	225	7.591	7.596	-0.005	96	64364	1.00	1.03	
64 Caprolactam	113	7.782	7.839	-0.057	82	30095	1.00	0.9857	
65 4-Chloro-3-methylphenol	107	7.896	7.910	-0.014	90	75159	1.00	0.9810	
67 2-Methylnaphthalene	142	8.067	8.072	-0.005	96	240644	1.00	1.17	
68 1-Methylnaphthalene	142	8.153	8.157	-0.004	96	224289	1.00	1.16	
69 Hexachlorocyclopentadiene	237	8.205	8.210	-0.005	97	79900	1.00	0.9646	
70 1,2,4,5-Tetrachlorobenzene	216	8.214	8.219	-0.005	97	118125	1.00	1.05	
72 2,4,6-Trichlorophenol	196	8.291	8.300	-0.009	94	69464	1.00	0.9497	
73 2,4,5-Trichlorophenol	196	8.324	8.333	-0.009	96	70503	1.00	0.9344	
75 1,1'-Biphenyl	154	8.447	8.457	-0.010	97	285196	1.00	1.11	
76 2-Chloronaphthalene	162	8.481	8.485	-0.004	96	228610	1.00	1.08	
78 2-Nitroaniline	65	8.543	8.552	-0.009	85	61574	1.00	0.9637	
82 Dimethyl phthalate	163	8.676	8.690	-0.014	97	254518	1.00	1.05	
83 1,3-Dinitrobenzene	168	8.709	8.723	-0.014	80	32814	1.00	0.8772	
84 2,6-Dinitrotoluene	165	8.733	8.742	-0.009	91	53697	1.00	1.06	
85 Acenaphthylene	152	8.833	8.842	-0.009	98	372970	1.00	1.10	
86 3-Nitroaniline	138	8.885	8.904	-0.019	96	49737	1.00	1.02	
87 Acenaphthene	154	8.980	8.985	-0.005	92	241097	1.00	1.11	
88 2,4-Dinitrophenol	184	8.971	8.985	-0.014	89	48529	2.00	1.35	
89 4-Nitrophenol	109	8.994	9.018	-0.024	94	46661	2.00	1.62	
91 2,4-Dinitrotoluene	165	9.075	9.089	-0.014	92	67196	1.00	0.9866	
92 Dibenzofuran	168	9.118	9.127	-0.009	98	337616	1.00	1.10	
95 2,3,4,6-Tetrachlorophenol	232	9.218	9.223	-0.005	72	65248	1.00	0.9494	
98 Hexadecane	57	9.265	9.270	-0.005	80	211218	1.00	0.99	
97 Diethyl phthalate	149	9.261	9.270	-0.009	97	262687	1.00	1.13	
100 4-Chlorophenyl phenyl ethe	204	9.384	9.394	-0.010	94	126437	1.00	1.05	
102 Fluorene	166	9.408	9.418	-0.010	95	270600	1.00	1.12	
103 4-Nitroaniline	138	9.399	9.418	-0.019	80	56545	1.00	1.25	
104 4,6-Dinitro-2-methylphenol	198	9.422	9.441	-0.019	92	75949	2.00	1.65	
105 Diphenylamine	169	9.479	9.489	-0.010	93	180295	0.8500	0.9184	
106 N-Nitrosodiphenylamine	169	9.479	9.489	-0.010	65	180295	1.00	1.09	
107 1,2-Diphenylhydrazine	77	9.522	9.527	-0.005	94	243744	1.00	1.09	
114 4-Bromophenyl phenyl ether	248	9.803	9.808	-0.005	68	81835	1.00	1.05	
117 Hexachlorobenzene	284	9.888	9.893	-0.005	97	95463	1.00	1.02	
118 Atrazine	200	9.898	9.912	-0.014	76	66897	1.00	1.14	
123 n-Octadecane	43	10.036	10.036	0.000	89	233212	1.00	-0.1125	
120 Pentachlorophenol	266	10.036	10.041	-0.005	66	102879	2.00	1.78	
126 Phenanthrene	178	10.226	10.236	-0.010	97	376869	1.00	1.10	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.269	10.278	-0.009	99	388934	1.00	1.10	
128 Carbazole	167	10.388	10.392	-0.004	96	323897	1.00	1.07	
130 Di-n-butyl phthalate	149	10.649	10.654	-0.005	99	438519	1.00	1.10	
135 Fluoranthene	202	11.391	11.401	-0.010	98	423129	1.00	1.09	
136 Benzidine	184	11.505	11.510	-0.005	97	77797	1.00	0.5529	
137 Pyrene	202	11.672	11.681	-0.009	96	435190	1.00	1.10	
145 Butyl benzyl phthalate	149	12.471	12.480	-0.009	95	187022	1.00	1.00	
147 3,3'-Dichlorobenzidine	252	13.431	13.450	-0.019	100	118585	1.00	0.8613	
150 Bis(2-ethylhexyl) phthalat	149	13.503	13.512	-0.009	94	272328	1.00	1.02	
149 Benzo[a]anthracene	228	13.512	13.531	-0.019	99	411639	1.00	1.05	
151 Chrysene	228	13.579	13.607	-0.028	97	392273	1.00	1.05	
154 Di-n-octyl phthalate	149	14.986	15.001	-0.015	97	404281	1.00	0.8930	
156 Benzo[b]fluoranthene	252	16.037	16.080	-0.043	98	359608	1.00	1.02	
157 Benzo[k]fluoranthene	252	16.113	16.161	-0.048	99	385381	1.00	1.10	
158 Benzo[a]pyrene	252	17.046	17.098	-0.052	96	351207	1.00	1.06	
162 Indeno[1,2,3-cd]pyrene	276	20.160	20.208	-0.048	98	447289	1.00	1.08	
163 Dibenz(a,h)anthracene	278	20.222	20.275	-0.053	93	340138	1.00	1.04	
164 Benzo[g,h,i]perylene	276	20.812	20.874	-0.062	78	351674	1.00	1.03	
S 173 Methyl Phenols,Total	1				0			2.05	

Reagents:

SMlst1_5uLL5_00034 Amount Added: 1.00 Units: mL

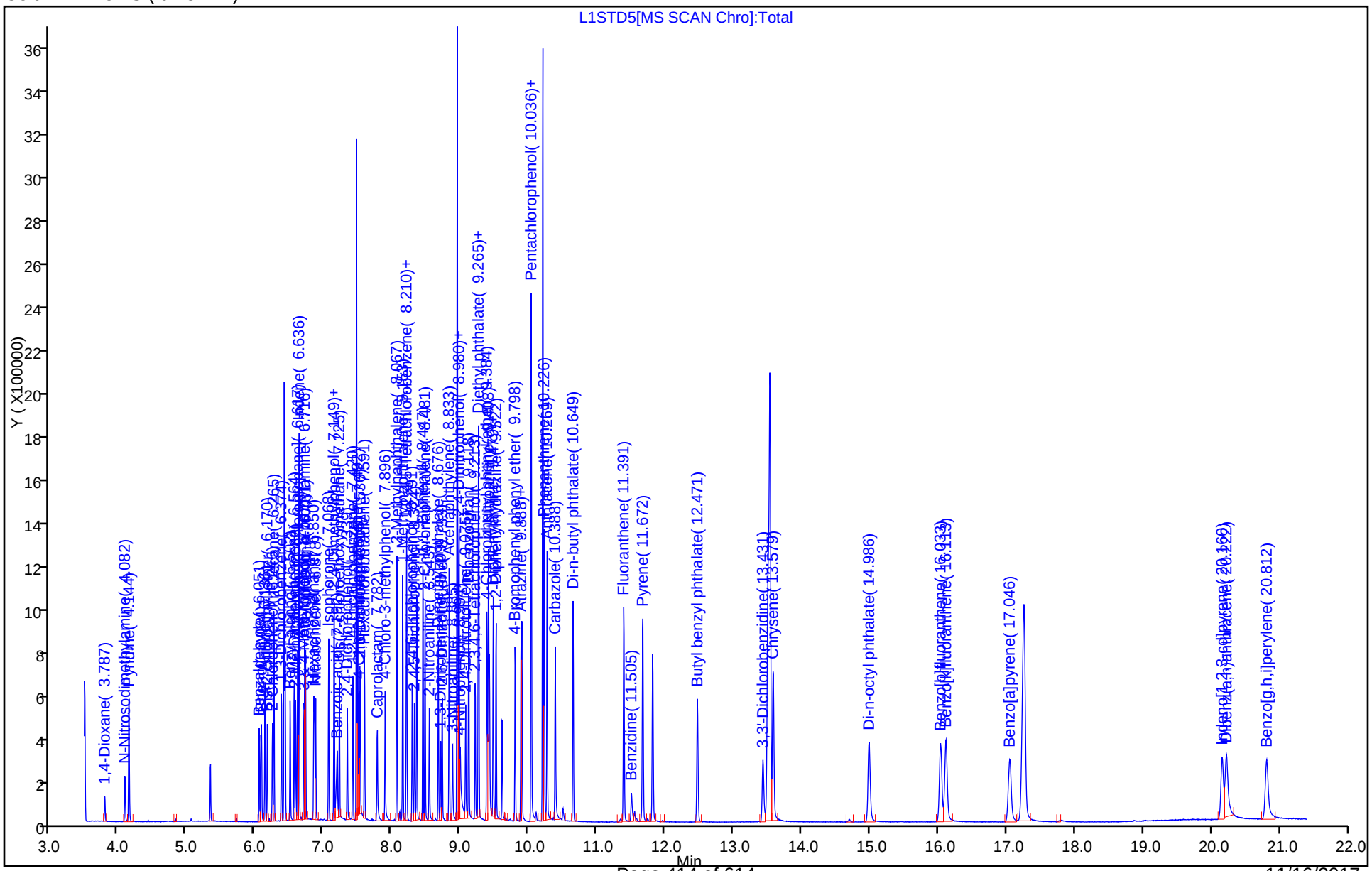
Report Date: 28-Sep-2017 10:34:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD5.D

Injection Date:	27-Sep-2017 14:59:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD10.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Sep-2017 15:29:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-007
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:47 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 15:58:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	96	252000	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	1166647	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	619844	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1179803	3.20	3.20	
* 5 Chrysene-d12	240	13.536	13.550	-0.014	99	1205526	3.20	3.20	
* 6 Perylene-d12	264	17.260	17.269	-0.009	97	1243097	3.20	3.20	
$ 7 2-Fluorophenol	112	5.337	5.337	0.000	94	107233	2.00	1.89	
$ 8 Phenol-d5	99	6.075	6.089	-0.014	94	176826	2.00	1.82	
$ 9 Nitrobenzene-d5	82	6.864	6.869	-0.005	95	232247	2.00	2.03	
$ 10 2-Fluorobiphenyl	172	8.362	8.367	-0.005	100	536796	2.00	2.06	
$ 11 2,4,6-Tribromophenol	330	9.613	9.617	-0.004	68	114949	2.00	1.91	
$ 12 Terphenyl-d14	244	11.815	11.824	-0.009	100	591039	2.00	2.01	
13 1,4-Dioxane	88	3.792	3.792	0.000	87	42000	2.00	1.56	
14 N-Nitrosodimethylamine	42	4.087	4.101	-0.014	68	166983	2.00	1.96	
15 Pyridine	79	4.144	4.153	-0.009	75	263232	4.00	3.07	
23 Benzaldehyde	77	6.051	6.055	-0.004	88	91853	2.00	1.80	
25 Phenol	94	6.089	6.103	-0.014	93	191132	2.00	1.83	
26 Aniline	93	6.136	6.146	-0.010	95	316807	2.00	2.11	
27 Bis(2-chloroethyl)ether	93	6.170	6.179	-0.009	92	198448	2.00	2.11	
29 2-Chlorophenol	128	6.246	6.250	-0.004	98	175892	2.00	1.84	
30 n-Decane	43	6.265	6.269	-0.004	88	434649	2.00	2.19	
31 1,3-Dichlorobenzene	146	6.379	6.379	0.000	99	225874	2.00	2.03	
32 1,4-Dichlorobenzene	146	6.431	6.436	-0.005	95	230613	2.00	2.05	
33 Benzyl alcohol	108	6.507	6.517	-0.010	91	144202	2.00	2.19	
34 1,2-Dichlorobenzene	146	6.564	6.569	-0.005	98	227926	2.00	2.05	
36 2-Methylphenol	107	6.588	6.593	-0.005	94	156934	2.00	2.17	
35 2,2'-oxybis[1-chloropropan	45	6.617	6.621	-0.004	90	740884	2.00	2.40	
37 Indene	116	6.636	6.640	-0.004	91	794836	4.00	4.76	
42 3 & 4 Methylphenol	108	6.707	6.716	-0.009	93	201751	2.00	2.29	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.721	6.735	-0.014	87	150941	2.00	2.38	
40 Acetophenone	105	6.731	6.740	-0.009	93	311033	2.00	2.40	
44 Hexachloroethane	117	6.850	6.854	-0.004	97	97632	2.00	2.05	
45 Nitrobenzene	77	6.878	6.888	-0.010	96	214907	2.00	2.06	
47 Isophorone	82	7.068	7.083	-0.015	97	410785	2.00	1.98	
48 2-Nitrophenol	139	7.145	7.149	-0.004	90	125271	2.00	1.97	
49 2,4-Dimethylphenol	122	7.149	7.159	-0.010	90	203947	2.00	2.03	
51 Bis(2-chloroethoxy)methane	93	7.225	7.235	-0.010	94	274752	2.00	2.09	
52 Benzoic acid	122	7.221	7.287	-0.066	87	234110	4.00	3.08	
54 2,4-Dichlorophenol	162	7.344	7.349	-0.005	96	195712	2.00	2.00	
55 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	95	229214	2.00	2.01	
56 Naphthalene	128	7.496	7.501	-0.005	98	728474	2.00	2.15	
57 4-Chloroaniline	127	7.515	7.520	-0.005	96	305185	2.00	2.05	
58 2,6-Dichlorophenol	162	7.530	7.534	-0.004	97	201962	2.00	2.03	
60 Hexachlorobutadiene	225	7.592	7.596	-0.004	96	144840	2.00	1.97	
64 Caprolactam	113	7.791	7.839	-0.048	82	64356	2.00	1.79	
65 4-Chloro-3-methylphenol	107	7.896	7.910	-0.014	90	174645	2.00	1.94	
67 2-Methylnaphthalene	142	8.067	8.072	-0.005	95	504675	2.00	2.08	
68 1-Methylnaphthalene	142	8.153	8.157	-0.004	95	461072	2.00	2.03	
69 Hexachlorocyclopentadiene	237	8.205	8.210	-0.005	98	173287	2.00	1.91	
70 1,2,4,5-Tetrachlorobenzene	216	8.215	8.219	-0.004	96	246865	2.00	2.00	
72 2,4,6-Trichlorophenol	196	8.295	8.300	-0.005	92	151912	2.00	1.89	
73 2,4,5-Trichlorophenol	196	8.329	8.333	-0.004	95	160881	2.00	1.94	
75 1,1'-Biphenyl	154	8.452	8.457	-0.005	96	581182	2.00	2.06	
76 2-Chloronaphthalene	162	8.481	8.485	-0.004	96	468440	2.00	2.01	
78 2-Nitroaniline	65	8.543	8.552	-0.009	88	131595	2.00	1.88	
82 Dimethyl phthalate	163	8.676	8.690	-0.014	97	518689	2.00	1.94	
83 1,3-Dinitrobenzene	168	8.709	8.723	-0.014	81	74072	2.00	1.80	
84 2,6-Dinitrotoluene	165	8.733	8.742	-0.009	91	114422	2.00	2.05	
85 Acenaphthylene	152	8.833	8.842	-0.009	98	774663	2.00	2.08	
86 3-Nitroaniline	138	8.885	8.904	-0.019	96	107661	2.00	2.02	
88 2,4-Dinitrophenol	184	8.971	8.985	-0.014	92	124232	4.00	3.15	
87 Acenaphthene	154	8.980	8.985	-0.005	94	510026	2.00	2.13	
89 4-Nitrophenol	109	8.999	9.018	-0.019	98	119021	4.00	3.76	
91 2,4-Dinitrotoluene	165	9.075	9.089	-0.014	93	146775	2.00	1.96	
92 Dibenzofuran	168	9.123	9.127	-0.004	97	691617	2.00	2.06	
95 2,3,4,6-Tetrachlorophenol	232	9.218	9.223	-0.005	72	139434	2.00	1.85	
97 Diethyl phthalate	149	9.261	9.270	-0.009	97	537418	2.00	2.10	
98 Hexadecane	57	9.266	9.270	-0.004	81	428840	2.00	2.04	
100 4-Chlorophenyl phenyl ethe	204	9.389	9.394	-0.005	91	263719	2.00	1.99	
103 4-Nitroaniline	138	9.399	9.418	-0.019	73	116665	2.00	2.35	
102 Fluorene	166	9.413	9.418	-0.005	95	547468	2.00	2.06	
104 4,6-Dinitro-2-methylphenol	198	9.427	9.441	-0.014	92	181159	4.00	3.57	
106 N-Nitrosodiphenylamine	169	9.480	9.489	-0.009	65	374344	2.00	2.04	
105 Diphenylamine	169	9.480	9.489	-0.009	93	374344	1.70	1.73	
107 1,2-Diphenylhydrazine	77	9.522	9.527	-0.005	94	493683	2.00	2.01	
114 4-Bromophenyl phenyl ether	248	9.803	9.808	-0.005	67	169264	2.00	1.96	
117 Hexachlorobenzene	284	9.889	9.893	-0.004	97	196729	2.00	1.90	
118 Atrazine	200	9.903	9.912	-0.009	76	137727	2.00	2.12	
123 n-Octadecane	43	10.036	10.036	0.000	91	451635	2.00	1.80	
120 Pentachlorophenol	266	10.041	10.041	0.000	74	242854	4.00	3.80	
126 Phenanthrene	178	10.226	10.236	-0.010	98	784108	2.00	2.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.269	10.278	-0.009	99	802250	2.00	2.06	
128 Carbazole	167	10.388	10.392	-0.004	96	716032	2.00	2.15	
130 Di-n-butyl phthalate	149	10.649	10.654	-0.005	99	892587	2.00	2.02	
135 Fluoranthene	202	11.391	11.401	-0.010	98	884016	2.00	2.07	
136 Benzidine	184	11.505	11.510	-0.005	97	199402	2.00	1.30	
137 Pyrene	202	11.672	11.681	-0.009	96	908090	2.00	2.10	
145 Butyl benzyl phthalate	149	12.476	12.480	-0.004	95	400676	2.00	1.96	
147 3,3'-Dichlorobenzidine	252	13.431	13.450	-0.019	99	273645	2.00	1.82	
150 Bis(2-ethylhexyl) phthalat	149	13.503	13.512	-0.009	94	573620	2.00	1.97	
149 Benzo[a]anthracene	228	13.512	13.531	-0.019	99	843459	2.00	1.97	
151 Chrysene	228	13.584	13.607	-0.023	97	783960	2.00	1.92	
154 Di-n-octyl phthalate	149	14.987	15.001	-0.015	97	907474	2.00	1.81	
156 Benzo[b]fluoranthene	252	16.047	16.080	-0.033	98	780374	2.00	2.00	
157 Benzo[k]fluoranthene	252	16.123	16.161	-0.038	99	820688	2.00	2.10	
158 Benzo[a]pyrene	252	17.055	17.098	-0.043	96	761386	2.00	2.07	
162 Indeno[1,2,3-cd]pyrene	276	20.165	20.208	-0.043	98	967240	2.00	2.11	
163 Dibenz(a,h)anthracene	278	20.227	20.275	-0.048	92	771283	2.00	2.12	
164 Benzo[g,h,i]perylene	276	20.826	20.874	-0.048	79	784843	2.00	2.07	
S 173 Methyl Phenols,Total	1				0			4.47	

Reagents:

SMlst1_5uLL6_00034 Amount Added: 1.00 Units: mL

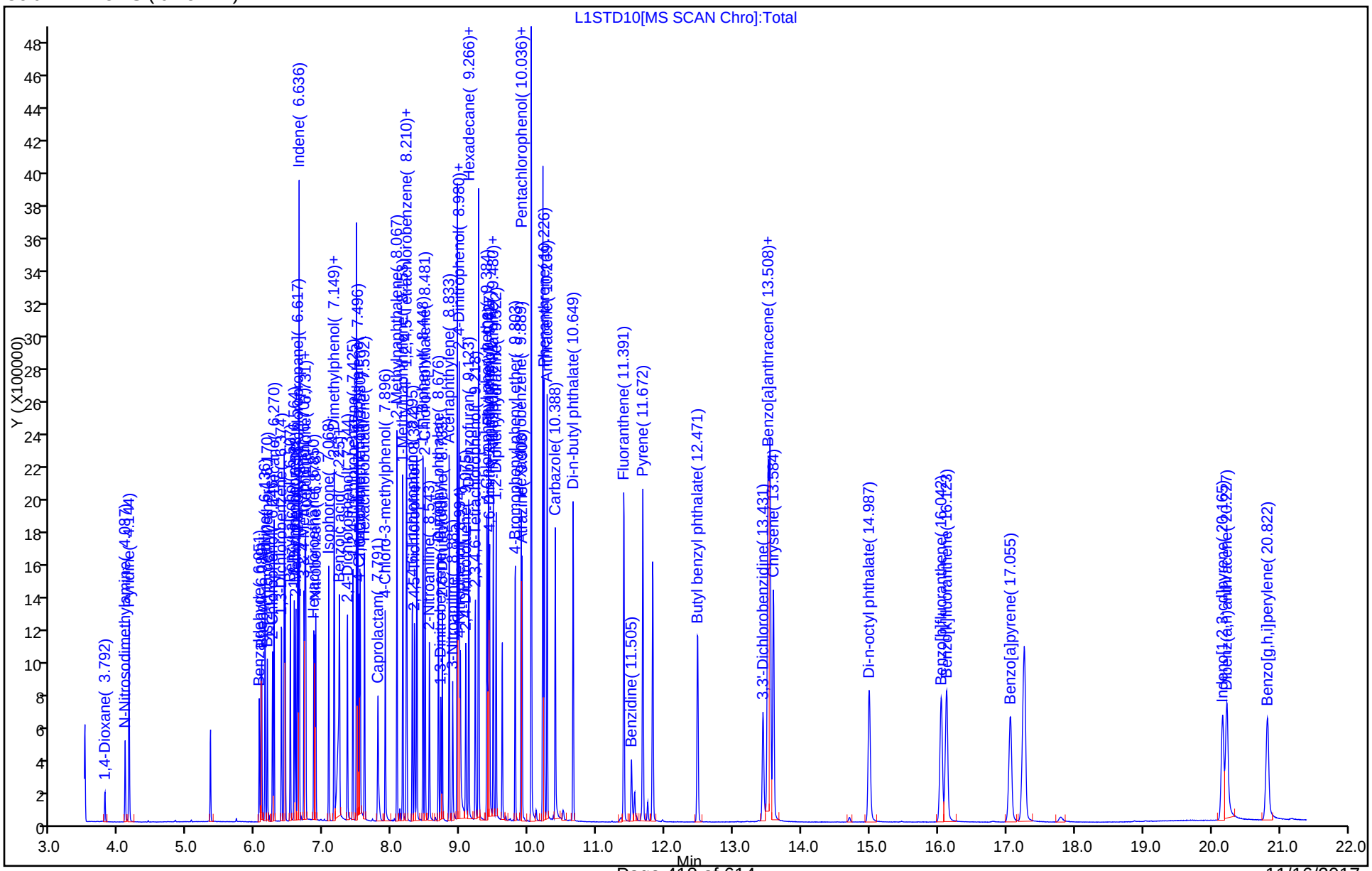
Report Date: 28-Sep-2017 10:34:48 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD10.D

Injection Date:	27-Sep-2017 15:29:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD20.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Sep-2017 15:58:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-008
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:50 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 16:45:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	96	277800	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	1241221	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	635776	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1220415	3.20	3.20	
* 5 Chrysene-d12	240	13.541	13.550	-0.009	99	1250121	3.20	3.20	
* 6 Perylene-d12	264	17.260	17.269	-0.009	97	1304613	3.20	3.20	
$ 7 2-Fluorophenol	112	5.337	5.337	0.000	94	247833	4.00	3.69	
$ 8 Phenol-d5	99	6.079	6.089	-0.010	94	443630	4.00	3.94	
$ 9 Nitrobenzene-d5	82	6.864	6.869	-0.005	95	479657	4.00	3.94	
$ 10 2-Fluorobiphenyl	172	8.362	8.367	-0.005	100	1023996	4.00	3.83	
$ 11 2,4,6-Tribromophenol	330	9.613	9.617	-0.004	70	231579	4.00	3.75	
$ 12 Terphenyl-d14	244	11.819	11.824	-0.005	100	1152254	4.00	3.77	
13 1,4-Dioxane	88	3.792	3.792	0.000	86	106064	4.00	3.58	
14 N-Nitrosodimethylamine	42	4.087	4.101	-0.014	69	365400	4.00	3.89	
15 Pyridine	79	4.144	4.153	-0.009	76	698414	8.00	7.40	
23 Benzaldehyde	77	6.051	6.055	-0.004	89	152338	4.00	4.54	
25 Phenol	94	6.094	6.103	-0.009	93	496702	4.00	4.31	
26 Aniline	93	6.141	6.146	-0.005	95	706970	4.00	4.27	
27 Bis(2-chloroethyl)ether	93	6.174	6.179	-0.005	93	426474	4.00	4.11	
29 2-Chlorophenol	128	6.246	6.250	-0.004	98	431014	4.00	4.08	
30 n-Decane	43	6.269	6.269	0.000	89	837514	4.00	4.53	
31 1,3-Dichlorobenzene	146	6.379	6.379	0.000	99	484718	4.00	3.95	
32 1,4-Dichlorobenzene	146	6.431	6.436	-0.005	95	498104	4.00	4.01	
33 Benzyl alcohol	108	6.512	6.517	-0.005	92	306353	4.00	4.23	
34 1,2-Dichlorobenzene	146	6.564	6.569	-0.005	98	505229	4.00	4.13	
36 2-Methylphenol	107	6.588	6.593	-0.005	94	354447	4.00	4.45	
35 2,2'-oxybis[1-chloropropan	45	6.617	6.621	-0.004	91	1459848	4.00	4.29	
37 Indene	116	6.636	6.640	-0.004	91	1638429	8.00	8.89	
42 3 & 4 Methylphenol	108	6.712	6.716	-0.004	94	446551	4.00	4.60	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.726	6.735	-0.009	90	296314	4.00	4.24	
40 Acetophenone	105	6.736	6.740	-0.004	93	630881	4.00	4.42	
44 Hexachloroethane	117	6.850	6.854	-0.004	98	209547	4.00	3.98	
45 Nitrobenzene	77	6.883	6.888	-0.005	95	454081	4.00	4.09	
47 Isophorone	82	7.073	7.083	-0.010	97	821134	4.00	3.73	
48 2-Nitrophenol	139	7.149	7.149	0.000	90	266115	4.00	3.94	
49 2,4-Dimethylphenol	122	7.154	7.159	-0.005	93	424301	4.00	3.96	
51 Bis(2-chloroethoxy)methane	93	7.230	7.235	-0.005	93	545038	4.00	3.89	
52 Benzoic acid	122	7.249	7.287	-0.038	87	578909	8.00	7.15	
54 2,4-Dichlorophenol	162	7.344	7.349	-0.005	96	412357	4.00	3.96	
55 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	95	484792	4.00	3.99	
56 Naphthalene	128	7.496	7.501	-0.005	98	1449362	4.00	4.01	
57 4-Chloroaniline	127	7.515	7.520	-0.005	96	606199	4.00	3.83	
58 2,6-Dichlorophenol	162	7.534	7.534	0.000	98	417077	4.00	3.94	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	302850	4.00	3.87	
64 Caprolactam	113	7.806	7.839	-0.033	82	146773	4.00	3.85	
65 4-Chloro-3-methylphenol	107	7.901	7.910	-0.009	90	367640	4.00	3.84	
67 2-Methylnaphthalene	142	8.072	8.072	0.000	95	989099	4.00	3.84	
68 1-Methylnaphthalene	142	8.157	8.157	0.000	95	917600	4.00	3.80	
69 Hexachlorocyclopentadiene	237	8.210	8.210	0.000	98	363598	4.00	3.90	
70 1,2,4,5-Tetrachlorobenzene	216	8.215	8.219	-0.005	97	487665	4.00	3.85	
72 2,4,6-Trichlorophenol	196	8.295	8.300	-0.005	93	318833	4.00	3.87	
73 2,4,5-Trichlorophenol	196	8.329	8.333	-0.004	96	327207	4.00	3.85	
75 1,1'-Biphenyl	154	8.452	8.457	-0.005	96	1152466	4.00	3.99	
76 2-Chloronaphthalene	162	8.481	8.485	-0.004	97	940577	4.00	3.94	
78 2-Nitroaniline	65	8.547	8.552	-0.005	87	269356	4.00	3.74	
82 Dimethyl phthalate	163	8.681	8.690	-0.009	97	1040352	4.00	3.79	
83 1,3-Dinitrobenzene	168	8.714	8.723	-0.009	81	158283	4.00	3.76	
84 2,6-Dinitrotoluene	165	8.738	8.742	-0.004	91	231973	4.00	4.05	
85 Acenaphthylene	152	8.837	8.842	-0.005	98	1522877	4.00	3.99	
86 3-Nitroaniline	138	8.890	8.904	-0.014	96	206663	4.00	3.78	
87 Acenaphthene	154	8.980	8.985	-0.005	94	1009319	4.00	4.11	
88 2,4-Dinitrophenol	184	8.975	8.985	-0.010	89	296971	8.00	7.35	
89 4-Nitrophenol	109	9.004	9.018	-0.014	98	222877	8.00	6.86	
91 2,4-Dinitrotoluene	165	9.080	9.089	-0.009	93	307538	4.00	4.01	
92 Dibenzofuran	168	9.123	9.127	-0.004	97	1353123	4.00	3.93	
95 2,3,4,6-Tetrachlorophenol	232	9.218	9.223	-0.005	73	291771	4.00	3.77	
98 Hexadecane	57	9.270	9.270	0.000	83	796798	4.00	4.08	
97 Diethyl phthalate	149	9.265	9.270	-0.005	98	1030583	4.00	3.92	
100 4-Chlorophenyl phenyl ethe	204	9.389	9.394	-0.005	91	525513	4.00	3.87	
102 Fluorene	166	9.413	9.418	-0.005	94	1061296	4.00	3.89	
103 4-Nitroaniline	138	9.403	9.418	-0.015	90	218507	4.00	4.28	
104 4,6-Dinitro-2-methylphenol	198	9.432	9.441	-0.009	92	392924	8.00	7.48	
105 Diphenylamine	169	9.484	9.489	-0.005	93	750915	3.40	3.35	
106 N-Nitrosodiphenylamine	169	9.484	9.489	-0.005	65	750915	4.00	3.96	
107 1,2-Diphenylhydrazine	77	9.522	9.527	-0.005	94	984966	4.00	3.92	
114 4-Bromophenyl phenyl ether	248	9.803	9.808	-0.005	66	337976	4.00	3.79	
117 Hexachlorobenzene	284	9.888	9.893	-0.005	97	404865	4.00	3.78	
118 Atrazine	200	9.907	9.912	-0.005	76	262927	4.00	3.91	
123 n-Octadecane	43	10.036	10.036	0.000	94	744301	4.00	4.43	
120 Pentachlorophenol	266	10.041	10.041	0.000	89	519812	8.00	7.85	
126 Phenanthrene	178	10.231	10.236	-0.005	98	1538910	4.00	3.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.274	10.278	-0.004	99	1609551	4.00	3.99	
128 Carbazole	167	10.388	10.392	-0.004	96	1382599	4.00	4.01	
130 Di-n-butyl phthalate	149	10.649	10.654	-0.005	99	1796418	4.00	3.94	
135 Fluoranthene	202	11.396	11.401	-0.005	98	1766309	4.00	3.99	
136 Benzidine	184	11.505	11.510	-0.005	97	467323	4.00	2.93	
137 Pyrene	202	11.677	11.681	-0.004	96	1801653	4.00	4.01	
145 Butyl benzyl phthalate	149	12.475	12.480	-0.005	95	824388	4.00	3.89	
147 3,3'-Dichlorobenzidine	252	13.436	13.450	-0.014	99	575781	4.00	3.69	
150 Bis(2-ethylhexyl) phthalat	149	13.503	13.512	-0.009	95	1178806	4.00	3.90	
149 Benzo[a]anthracene	228	13.517	13.531	-0.014	99	1708685	4.00	3.85	
151 Chrysene	228	13.593	13.607	-0.014	97	1622663	4.00	3.84	
154 Di-n-octyl phthalate	149	14.991	15.001	-0.010	97	1959123	4.00	3.79	
156 Benzo[b]fluoranthene	252	16.056	16.080	-0.024	98	1664020	4.00	4.07	
157 Benzo[k]fluoranthene	252	16.133	16.161	-0.028	99	1726912	4.00	4.22	
158 Benzo[a]pyrene	252	17.069	17.098	-0.029	96	1636238	4.00	4.23	
162 Indeno[1,2,3-cd]pyrene	276	20.180	20.208	-0.028	99	2038629	4.00	4.23	
163 Dibenz(a,h)anthracene	278	20.246	20.275	-0.029	93	1667231	4.00	4.37	
164 Benzo[g,h,i]perylene	276	20.841	20.874	-0.033	79	1675743	4.00	4.20	
S 173 Methyl Phenols,Total	1				0			9.06	

Reagents:

SMlst1_5uLL7_00034 Amount Added: 1.00 Units: mL

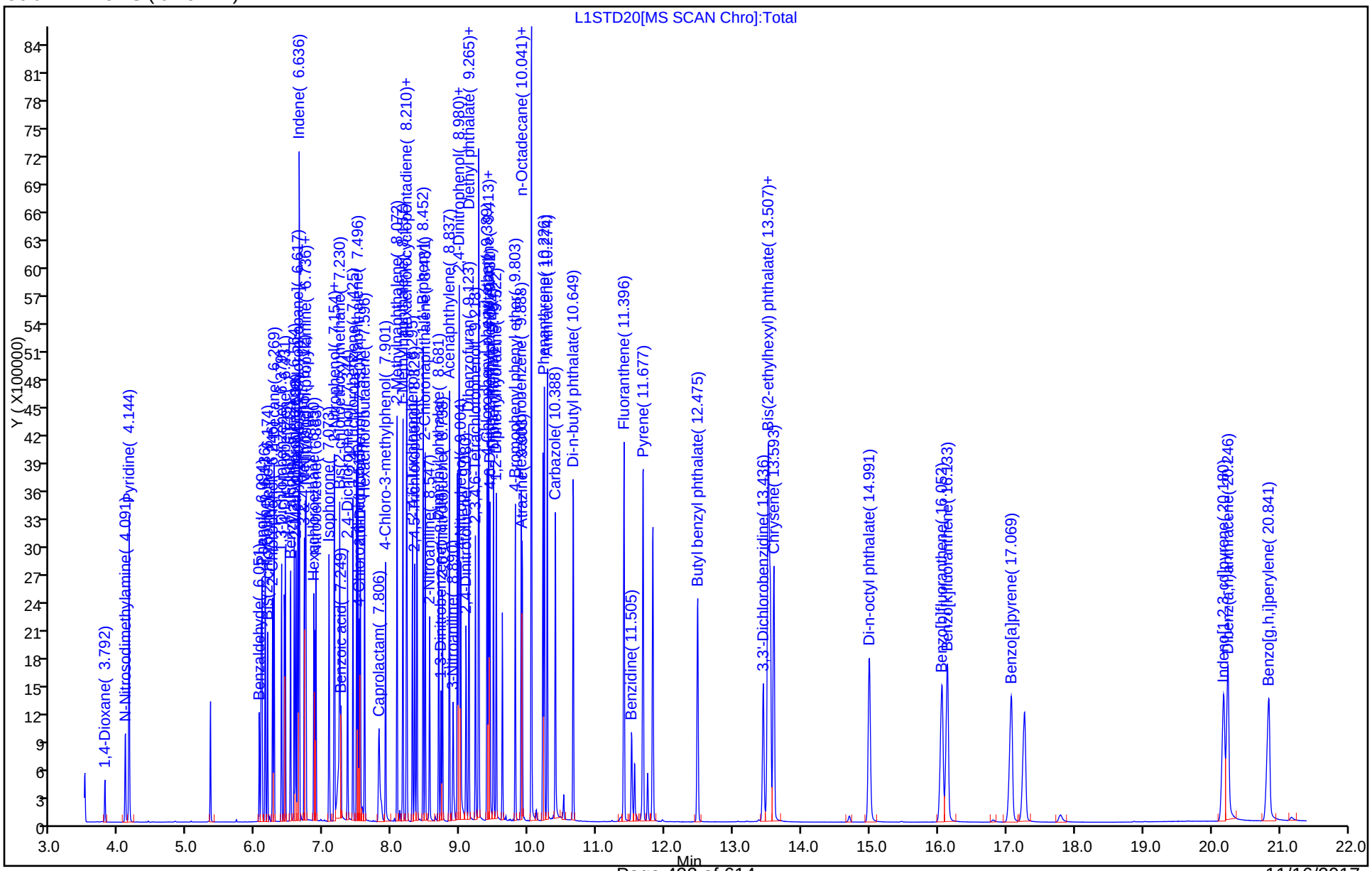
Report Date: 28-Sep-2017 10:34:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD20.D

Injection Date:	27-Sep-2017 15:58:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD40.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 8
Inject. Date: 27-Sep-2017 16:28:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: icis
Misc. Info.: 500-0048054-009
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:54 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 16:55:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.422	6.422	0.000	96	316570	3.20	3.20	
* 2 Naphthalene-d8	136	7.482	7.482	0.000	99	1242167	3.20	3.20	
* 3 Acenaphthene-d10	164	8.956	8.956	0.000	97	622490	3.20	3.20	
* 4 Phenanthrene-d10	188	10.212	10.212	0.000	97	1226646	3.20	3.20	
* 5 Chrysene-d12	240	13.550	13.550	0.000	99	1254384	3.20	3.20	
* 6 Perylene-d12	264	17.269	17.269	0.000	97	1319215	3.20	3.20	
$ 7 2-Fluorophenol	112	5.337	5.337	0.000	94	715485	8.00	8.09	
$ 8 Phenol-d5	99	6.089	6.089	0.000	94	1031726	8.00	7.87	
$ 9 Nitrobenzene-d5	82	6.869	6.869	0.000	95	1013378	8.00	8.32	
$ 10 2-Fluorobiphenyl	172	8.367	8.367	0.000	99	2031100	8.00	7.76	
$ 11 2,4,6-Tribromophenol	330	9.617	9.617	0.000	67	515624	8.00	8.53	
$ 12 Terphenyl-d14	244	11.824	11.824	0.000	100	2482591	8.00	8.10	
13 1,4-Dioxane	88	3.792	3.792	0.000	86	236045	8.00	6.98	
14 N-Nitrosodimethylamine	42	4.101	4.101	0.000	69	839053	8.00	7.84	
15 Pyridine	79	4.153	4.153	0.000	77	1766808	16.0	16.4	
23 Benzaldehyde	77	6.055	6.055	0.000	89	245360	8.00	7.93	
25 Phenol	94	6.103	6.103	0.000	93	1086202	8.00	8.26	
26 Aniline	93	6.146	6.146	0.000	95	1441492	8.00	7.64	
27 Bis(2-chloroethyl)ether	93	6.179	6.179	0.000	93	885374	8.00	7.48	
29 2-Chlorophenol	128	6.250	6.250	0.000	98	979070	8.00	8.14	
30 n-Decane	43	6.269	6.269	0.000	91	1612764	8.00	8.29	
31 1,3-Dichlorobenzene	146	6.379	6.379	0.000	99	1069542	8.00	7.65	
32 1,4-Dichlorobenzene	146	6.436	6.436	0.000	94	1079634	8.00	7.63	
33 Benzyl alcohol	108	6.517	6.517	0.000	92	618141	8.00	7.48	
34 1,2-Dichlorobenzene	146	6.569	6.569	0.000	98	1067939	8.00	7.66	
36 2-Methylphenol	107	6.593	6.593	0.000	95	725321	8.00	8.00	
35 2,2'-oxybis[1-chloropropan	45	6.621	6.621	0.000	90	2684187	8.00	6.92	
37 Indene	116	6.640	6.640	0.000	90	3001333	16.0	14.3	
42 3 & 4 Methylphenol	108	6.716	6.716	0.000	93	879331	8.00	7.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.735	6.735	0.000	89	573172	8.00	7.19	
40 Acetophenone	105	6.740	6.740	0.000	93	1190403	8.00	7.31	
44 Hexachloroethane	117	6.854	6.854	0.000	94	457863	8.00	7.64	
45 Nitrobenzene	77	6.888	6.888	0.000	96	910849	8.00	8.21	
47 Isophorone	82	7.083	7.083	0.000	98	1647333	8.00	7.47	
48 2-Nitrophenol	139	7.149	7.149	0.000	91	530415	8.00	7.84	
49 2,4-Dimethylphenol	122	7.159	7.159	0.000	94	823445	8.00	7.68	
51 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	94	1052174	8.00	7.51	
52 Benzoic acid	122	7.287	7.287	0.000	87	1301362	16.0	16.1	
54 2,4-Dichlorophenol	162	7.349	7.349	0.000	96	823532	8.00	7.91	
55 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	94	968852	8.00	7.97	
56 Naphthalene	128	7.501	7.501	0.000	99	2703250	8.00	7.48	
57 4-Chloroaniline	127	7.520	7.520	0.000	96	1162713	8.00	7.33	
58 2,6-Dichlorophenol	162	7.534	7.534	0.000	97	817480	8.00	7.72	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	606727	8.00	7.75	
64 Caprolactam	113	7.839	7.839	0.000	83	299162	8.00	7.83	
65 4-Chloro-3-methylphenol	107	7.910	7.910	0.000	91	749949	8.00	7.83	
67 2-Methylnaphthalene	142	8.072	8.072	0.000	95	1857502	8.00	7.20	
68 1-Methylnaphthalene	142	8.157	8.157	0.000	94	1721489	8.00	7.12	
69 Hexachlorocyclopentadiene	237	8.210	8.210	0.000	97	720914	8.00	7.89	
70 1,2,4,5-Tetrachlorobenzene	216	8.219	8.219	0.000	96	954809	8.00	7.69	
72 2,4,6-Trichlorophenol	196	8.300	8.300	0.000	92	643184	8.00	7.97	
73 2,4,5-Trichlorophenol	196	8.333	8.333	0.000	96	636883	8.00	7.65	
75 1,1'-Biphenyl	154	8.457	8.457	0.000	96	2183524	8.00	7.71	
76 2-Chloronaphthalene	162	8.485	8.485	0.000	96	1806293	8.00	7.73	
78 2-Nitroaniline	65	8.552	8.552	0.000	87	551582	8.00	7.83	
82 Dimethyl phthalate	163	8.690	8.690	0.000	97	2066234	8.00	7.70	
83 1,3-Dinitrobenzene	168	8.723	8.723	0.000	82	328117	8.00	7.95	
84 2,6-Dinitrotoluene	165	8.742	8.742	0.000	92	476398	8.00	8.50	
85 Acenaphthylene	152	8.842	8.842	0.000	98	2857824	8.00	7.65	
86 3-Nitroaniline	138	8.904	8.904	0.000	96	399475	8.00	7.46	
88 2,4-Dinitrophenol	184	8.985	8.985	0.000	75	630437	16.0	15.9	
87 Acenaphthene	154	8.985	8.985	0.000	94	1833080	8.00	7.63	
89 4-Nitrophenol	109	9.018	9.018	0.000	99	518047	16.0	16.3	
91 2,4-Dinitrotoluene	165	9.089	9.089	0.000	93	629741	8.00	8.38	
92 Dibenzofuran	168	9.127	9.127	0.000	97	2538382	8.00	7.52	
95 2,3,4,6-Tetrachlorophenol	232	9.223	9.223	0.000	72	601347	8.00	7.93	
97 Diethyl phthalate	149	9.270	9.270	0.000	98	1908721	8.00	7.42	
98 Hexadecane	57	9.270	9.270	0.000	85	1278026	8.00	7.60	
100 4-Chlorophenyl phenyl ethe	204	9.394	9.394	0.000	91	1023934	8.00	7.71	
103 4-Nitroaniline	138	9.418	9.418	0.000	65	377274	8.00	7.55	
102 Fluorene	166	9.418	9.418	0.000	94	1980240	8.00	7.42	
104 4,6-Dinitro-2-methylphenol	198	9.441	9.441	0.000	92	822411	16.0	15.6	
106 N-Nitrosodiphenylamine	169	9.489	9.489	0.000	65	1451261	8.00	7.62	
105 Diphenylamine	169	9.489	9.489	0.000	93	1451261	6.80	6.44	
107 1,2-Diphenylhydrazine	77	9.527	9.527	0.000	95	1918394	8.00	7.79	
114 4-Bromophenyl phenyl ether	248	9.808	9.808	0.000	70	686056	8.00	7.65	
117 Hexachlorobenzene	284	9.893	9.893	0.000	96	826958	8.00	7.69	
118 Atrazine	200	9.912	9.912	0.000	77	508693	8.00	7.53	
123 n-Octadecane	43	10.036	10.036	0.000	95	1149347	8.00	8.22	
120 Pentachlorophenol	266	10.045	10.045	0.000	86	1051613	16.0	15.8	
126 Phenanthrene	178	10.236	10.236	0.000	98	2954029	8.00	7.51	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.278	10.278	0.000	99	3068042	8.00	7.57	
128 Carbazole	167	10.392	10.392	0.000	96	2611156	8.00	7.54	
130 Di-n-butyl phthalate	149	10.654	10.654	0.000	99	3511193	8.00	7.66	
135 Fluoranthene	202	11.401	11.401	0.000	99	3425059	8.00	7.70	
136 Benzidine	184	11.515	11.515	0.000	97	1234918	8.00	7.72	
137 Pyrene	202	11.681	11.681	0.000	96	3534691	8.00	7.84	
145 Butyl benzyl phthalate	149	12.480	12.480	0.000	95	1672315	8.00	7.86	
147 3,3'-Dichlorobenzidine	252	13.450	13.450	0.000	99	1239679	8.00	7.92	
150 Bis(2-ethylhexyl) phthalat	149	13.512	13.512	0.000	95	2405246	8.00	7.93	
149 Benzo[a]anthracene	228	13.531	13.531	0.000	99	3422223	8.00	7.68	
151 Chrysene	228	13.607	13.607	0.000	98	3270381	8.00	7.71	
154 Di-n-octyl phthalate	149	15.001	15.001	0.000	97	4140555	8.00	7.96	
156 Benzo[b]fluoranthene	252	16.080	16.080	0.000	98	3440854	8.00	8.33	
157 Benzo[k]fluoranthene	252	16.161	16.161	0.000	99	3607621	8.00	8.72	
158 Benzo[a]pyrene	252	17.098	17.098	0.000	97	3415585	8.00	8.74	
162 Indeno[1,2,3-cd]pyrene	276	20.208	20.208	0.000	99	4180942	8.00	8.58	
163 Dibenz(a,h)anthracene	278	20.275	20.275	0.000	94	3464922	8.00	8.98	
164 Benzo[g,h,i]perylene	276	20.874	20.874	0.000	79	3318001	8.00	8.23	

Reagents:

SMlst1_5uLL8_00034 Amount Added: 1.00 Units: mL

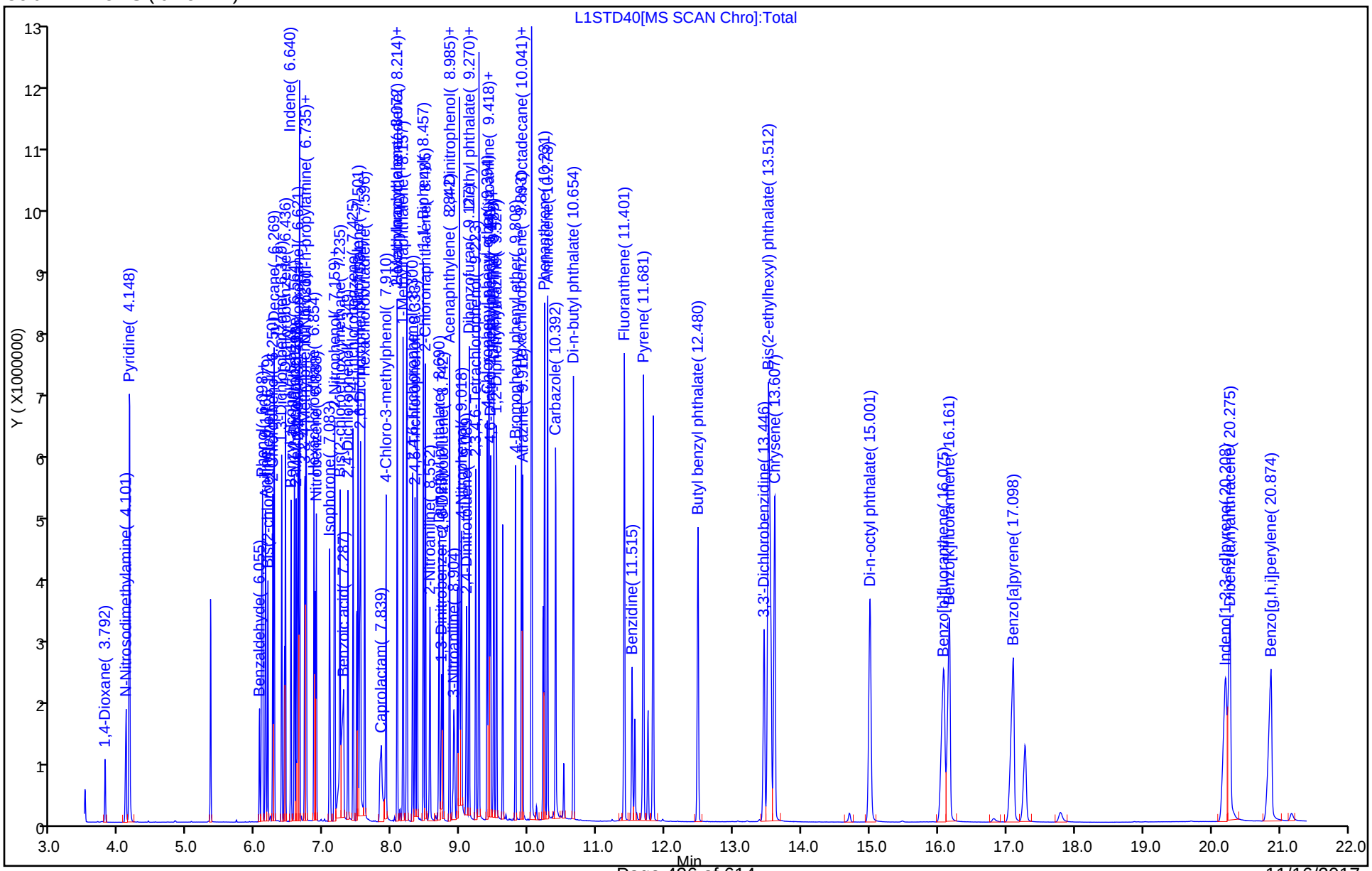
Report Date: 28-Sep-2017 10:34:55 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD40.D

Injection Date:	27-Sep-2017 16:28:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	icis			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD50.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 27-Sep-2017 16:57:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-010
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:58 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 17:28:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.422	6.422	0.000	96	308077	3.20	3.20	
* 2 Naphthalene-d8	136	7.482	7.482	0.000	99	1204226	3.20	3.20	
* 3 Acenaphthene-d10	164	8.956	8.956	0.000	97	598791	3.20	3.20	
* 4 Phenanthrene-d10	188	10.212	10.212	0.000	97	1174443	3.20	3.20	
* 5 Chrysene-d12	240	13.555	13.550	0.005	99	1221269	3.20	3.20	
* 6 Perylene-d12	264	17.274	17.269	0.005	97	1290978	3.20	3.20	
$ 7 2-Fluorophenol	112	5.342	5.337	0.005	94	875215	10.0	9.70	
$ 8 Phenol-d5	99	6.093	6.089	0.004	94	1296223	10.0	10.1	
$ 9 Nitrobenzene-d5	82	6.873	6.869	0.004	96	1254530	10.0	10.6	
$ 10 2-Fluorobiphenyl	172	8.367	8.367	0.000	99	2456352	10.0	9.76	
$ 11 2,4,6-Tribromophenol	330	9.622	9.617	0.005	66	656618	10.0	11.3	
$ 12 Terphenyl-d14	244	11.824	11.824	0.000	100	3096376	10.0	10.4	
13 1,4-Dioxane	88	3.792	3.792	0.000	86	364100	10.0	11.1	
14 N-Nitrosodimethylamine	42	4.101	4.101	0.000	70	1032933	10.0	9.92	
15 Pyridine	79	4.153	4.153	0.000	79	2251728	20.0	21.5	
23 Benzaldehyde	77	6.055	6.055	0.000	89	279663	10.0	9.91	
25 Phenol	94	6.103	6.103	0.000	92	1343044	10.0	10.5	
26 Aniline	93	6.146	6.146	0.000	94	1735978	10.0	9.45	
27 Bis(2-chloroethyl)ether	93	6.179	6.179	0.000	92	1100228	10.0	9.55	
29 2-Chlorophenol	128	6.250	6.250	0.000	98	1196849	10.0	10.2	
30 n-Decane	43	6.269	6.269	0.000	91	1867236	10.0	10.0	
31 1,3-Dichlorobenzene	146	6.383	6.379	0.004	99	1299428	10.0	9.56	
32 1,4-Dichlorobenzene	146	6.436	6.436	0.000	94	1306714	10.0	9.49	
33 Benzyl alcohol	108	6.521	6.517	0.004	92	768423	10.0	9.56	
34 1,2-Dichlorobenzene	146	6.569	6.569	0.000	98	1289187	10.0	9.50	
36 2-Methylphenol	107	6.597	6.593	0.004	95	896674	10.0	10.2	
35 2,2'-oxybis[1-chloropropan	45	6.621	6.621	0.000	90	3172152	10.0	8.41	
37 Indene	116	6.645	6.640	0.005	90	3571739	20.0	17.5	
42 3 & 4 Methylphenol	108	6.721	6.716	0.005	94	1080399	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.735	6.735	0.000	87	694532	10.0	8.96	
40 Acetophenone	105	6.745	6.740	0.005	94	1433605	10.0	9.05	
44 Hexachloroethane	117	6.854	6.854	0.000	95	559287	10.0	9.59	
45 Nitrobenzene	77	6.888	6.888	0.000	96	1138258	10.0	10.6	
47 Isophorone	82	7.083	7.083	0.000	98	2044611	10.0	9.56	
48 2-Nitrophenol	139	7.154	7.149	0.005	91	654877	10.0	9.99	
49 2,4-Dimethylphenol	122	7.163	7.159	0.004	94	1009139	10.0	9.71	
51 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	94	1294335	10.0	9.53	
52 Benzoic acid	122	7.301	7.287	0.014	87	1648864	20.0	21.0	
54 2,4-Dichlorophenol	162	7.354	7.349	0.005	96	1013869	10.0	10.0	
55 1,2,4-Trichlorobenzene	180	7.430	7.425	0.005	95	1183856	10.0	10.0	
56 Naphthalene	128	7.501	7.501	0.000	98	3266781	10.0	9.32	
57 4-Chloroaniline	127	7.525	7.520	0.005	96	1471174	10.0	9.57	
58 2,6-Dichlorophenol	162	7.539	7.534	0.005	98	999763	10.0	9.73	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	749705	10.0	9.88	
64 Caprolactam	113	7.853	7.839	0.014	85	376069	10.0	10.2	
65 4-Chloro-3-methylphenol	107	7.915	7.910	0.005	91	931296	10.0	10.0	
67 2-Methylnaphthalene	142	8.076	8.072	0.004	95	2257900	10.0	9.03	
68 1-Methylnaphthalene	142	8.162	8.157	0.005	94	2113208	10.0	9.01	
69 Hexachlorocyclopentadiene	237	8.210	8.210	0.000	97	890353	10.0	10.1	
70 1,2,4,5-Tetrachlorobenzene	216	8.219	8.219	0.000	96	1173558	10.0	9.83	
72 2,4,6-Trichlorophenol	196	8.300	8.300	0.000	92	790181	10.0	10.2	
73 2,4,5-Trichlorophenol	196	8.338	8.333	0.005	96	811474	10.0	10.1	
75 1,1'-Biphenyl	154	8.457	8.457	0.000	95	2599221	10.0	9.55	
76 2-Chloronaphthalene	162	8.490	8.485	0.005	96	2194101	10.0	9.76	
78 2-Nitroaniline	65	8.557	8.552	0.005	86	691654	10.0	10.2	
82 Dimethyl phthalate	163	8.695	8.690	0.005	97	2551247	10.0	9.88	
83 1,3-Dinitrobenzene	168	8.728	8.723	0.005	83	415670	10.0	10.5	
84 2,6-Dinitrotoluene	165	8.747	8.742	0.005	92	589142	10.0	10.9	
85 Acenaphthylene	152	8.842	8.842	0.000	98	3445001	10.0	9.59	
86 3-Nitroaniline	138	8.909	8.904	0.005	96	521103	10.0	10.1	
87 Acenaphthene	154	8.990	8.985	0.005	93	2200161	10.0	9.52	
88 2,4-Dinitrophenol	184	8.990	8.985	0.005	73	795251	20.0	20.9	
89 4-Nitrophenol	109	9.023	9.018	0.005	99	657247	20.0	21.5	
91 2,4-Dinitrotoluene	165	9.094	9.089	0.005	93	786210	10.0	10.9	
92 Dibenzofuran	168	9.132	9.127	0.005	97	3091386	10.0	9.53	
95 2,3,4,6-Tetrachlorophenol	232	9.227	9.223	0.004	72	745667	10.0	10.2	
98 Hexadecane	57	9.270	9.270	0.000	80	1448682	10.0	9.66	
97 Diethyl phthalate	149	9.275	9.270	0.005	97	2308241	10.0	9.33	
100 4-Chlorophenyl phenyl ethe	204	9.394	9.394	0.000	91	1248423	10.0	9.77	
102 Fluorene	166	9.418	9.418	0.000	95	2434287	10.0	9.48	
103 4-Nitroaniline	138	9.422	9.418	0.004	66	447320	10.0	9.31	
104 4,6-Dinitro-2-methylphenol	198	9.446	9.441	0.005	91	1040194	20.0	20.6	
105 Diphenylamine	169	9.489	9.489	0.000	93	1795219	8.50	8.32	
106 N-Nitrosodiphenylamine	169	9.489	9.489	0.000	65	1795219	10.0	9.84	
107 1,2-Diphenylhydrazine	77	9.532	9.527	0.005	94	2308145	10.0	9.75	
114 4-Bromophenyl phenyl ether	248	9.807	9.808	-0.001	64	849610	10.0	9.90	
117 Hexachlorobenzene	284	9.898	9.893	0.005	97	1038113	10.0	10.1	
118 Atrazine	200	9.917	9.912	0.005	76	619655	10.0	9.58	
123 n-Octadecane	43	10.041	10.036	0.005	95	1293334	10.0	10.1	
120 Pentachlorophenol	266	10.050	10.045	0.005	86	1318128	20.0	20.7	
126 Phenanthrene	178	10.235	10.236	-0.001	98	3581978	10.0	9.51	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.278	10.278	0.000	99	3722870	10.0	9.59	
128 Carbazole	167	10.397	10.392	0.005	96	3134739	10.0	9.45	
130 Di-n-butyl phthalate	149	10.654	10.654	0.000	99	4263049	10.0	9.71	
135 Fluoranthene	202	11.405	11.401	0.004	99	4237164	10.0	9.94	
136 Benzidine	184	11.520	11.515	0.005	97	1601762	10.0	10.3	
137 Pyrene	202	11.686	11.681	0.005	96	4360056	10.0	9.93	
145 Butyl benzyl phthalate	149	12.480	12.480	0.000	95	2105542	10.0	10.2	
147 3,3'-Dichlorobenzidine	252	13.455	13.450	0.005	99	1569158	10.0	10.3	
150 Bis(2-ethylhexyl) phthalat	149	13.512	13.512	0.000	95	2989033	10.0	10.1	
149 Benzo[a]anthracene	228	13.536	13.531	0.005	99	4275383	10.0	9.86	
151 Chrysene	228	13.612	13.607	0.005	98	4054479	10.0	9.82	
154 Di-n-octyl phthalate	149	15.001	15.001	0.000	97	5206122	10.0	10.5	
156 Benzo[b]fluoranthene	252	16.090	16.080	0.010	98	4499216	10.0	11.1	
157 Benzo[k]fluoranthene	252	16.175	16.161	0.014	99	4518041	10.0	11.2	
158 Benzo[a]pyrene	252	17.112	17.098	0.014	97	4312119	10.0	11.3	
162 Indeno[1,2,3-cd]pyrene	276	20.222	20.208	0.014	99	5190413	10.0	10.9	
163 Dibenz(a,h)anthracene	278	20.284	20.275	0.009	93	4181621	10.0	11.1	
164 Benzo[g,h,i]perylene	276	20.888	20.874	0.014	79	4105032	10.0	10.4	
S 173 Methyl Phenols,Total	1				0			20.2	

Reagents:

SMlst1_5uLL9_00033 Amount Added: 1.00 Units: mL

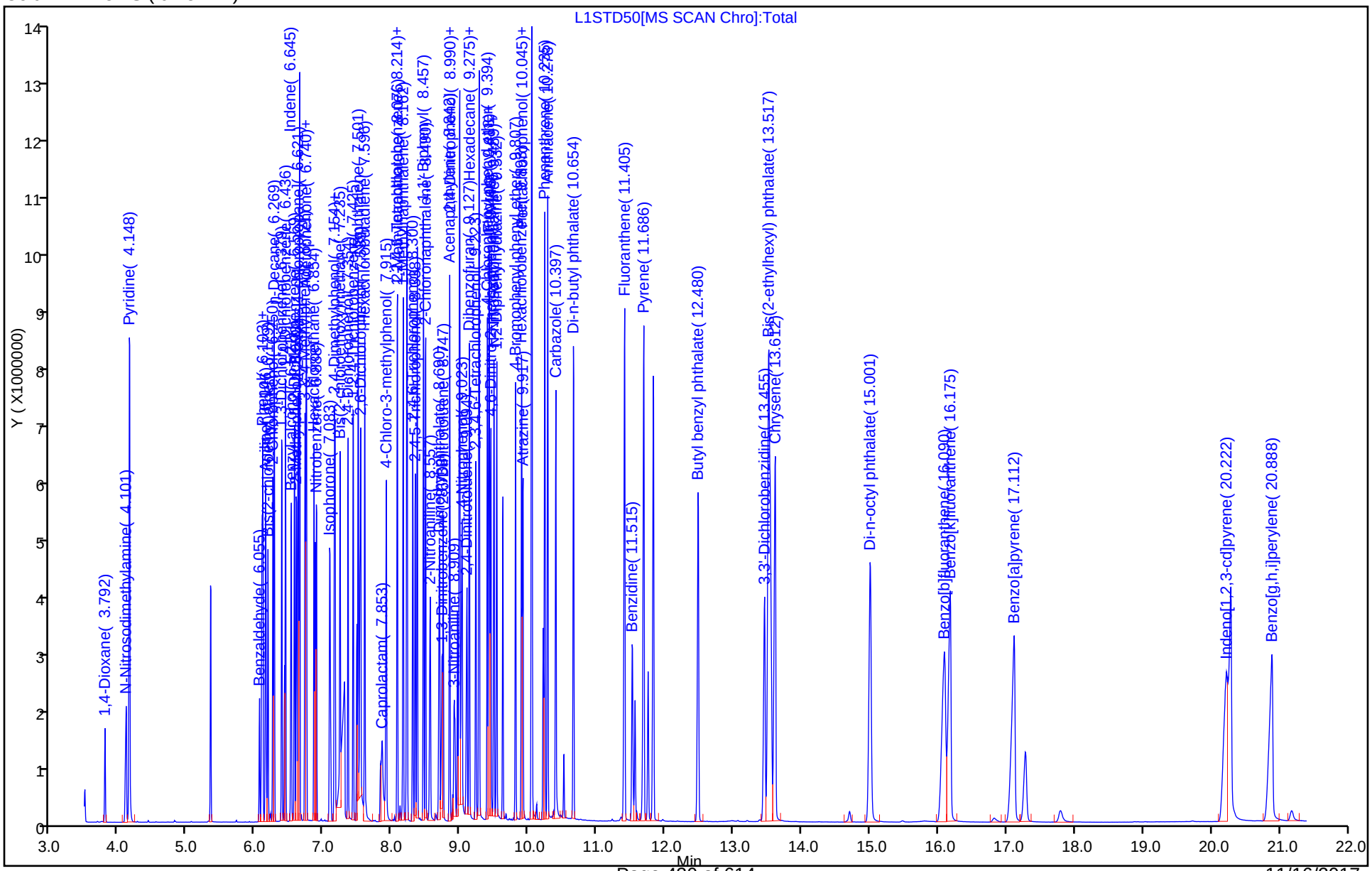
Report Date: 28-Sep-2017 10:34:59 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD50.D

Injection Date:	27-Sep-2017 16:57:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD60.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 27-Sep-2017 17:27:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-011
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:35:02 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 28-Sep-2017 10:14:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.422	6.422	0.000	96	310385	3.20	3.20	
* 2 Naphthalene-d8	136	7.482	7.482	0.000	99	1186371	3.20	3.20	
* 3 Acenaphthene-d10	164	8.956	8.956	0.000	97	590321	3.20	3.20	
* 4 Phenanthrene-d10	188	10.212	10.212	0.000	97	1172668	3.20	3.20	
* 5 Chrysene-d12	240	13.560	13.550	0.010	99	1197811	3.20	3.20	
* 6 Perylene-d12	264	17.279	17.269	0.010	97	1271726	3.20	3.20	
$ 7 2-Fluorophenol	112	5.342	5.337	0.005	94	1184496	12.0	12.2	
$ 8 Phenol-d5	99	6.094	6.089	0.005	94	1524516	12.0	11.8	
$ 9 Nitrobenzene-d5	82	6.873	6.869	0.004	96	1481411	12.0	12.7	
$ 10 2-Fluorobiphenyl	172	8.367	8.367	0.000	99	2828420	12.0	11.4	
$ 11 2,4,6-Tribromophenol	330	9.622	9.617	0.005	72	783115	12.0	13.7	
$ 12 Terphenyl-d14	244	11.829	11.824	0.005	100	3648315	12.0	12.5	
13 1,4-Dioxane	88	3.797	3.792	0.005	87	448319	12.0	13.5	
14 N-Nitrosodimethylamine	42	4.110	4.101	0.009	70	1286318	12.0	12.3	
15 Pyridine	79	4.153	4.153	0.000	78	2757091	24.0	26.1	
23 Benzaldehyde	77	6.056	6.055	0.001	88	316406	12.0	11.6	
25 Phenol	94	6.108	6.103	0.005	93	1593970	12.0	12.4	
26 Aniline	93	6.151	6.146	0.005	95	2158930	12.0	11.7	
27 Bis(2-chloroethyl)ether	93	6.184	6.179	0.005	93	1410688	12.0	12.2	
29 2-Chlorophenol	128	6.255	6.250	0.005	98	1466002	12.0	12.4	
30 n-Decane	43	6.274	6.269	0.005	93	2170317	12.0	11.7	
31 1,3-Dichlorobenzene	146	6.384	6.379	0.005	99	1608924	12.0	11.7	
32 1,4-Dichlorobenzene	146	6.436	6.436	0.000	94	1601375	12.0	11.5	
33 Benzyl alcohol	108	6.526	6.517	0.009	92	924836	12.0	11.4	
34 1,2-Dichlorobenzene	146	6.569	6.569	0.000	98	1573173	12.0	11.5	
36 2-Methylphenol	107	6.598	6.593	0.005	95	1066708	12.0	12.0	
35 2,2'-oxybis[1-chloropropan	45	6.621	6.621	0.000	90	3653861	12.0	9.61	
37 Indene	116	6.645	6.640	0.005	89	4157319	24.0	20.2	
42 3 & 4 Methylphenol	108	6.726	6.716	0.010	94	1265248	12.0	11.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.740	6.735	0.005	85	827825	12.0	10.6	
40 Acetophenone	105	6.745	6.740	0.005	92	1704074	12.0	10.7	
44 Hexachloroethane	117	6.854	6.854	0.000	95	688267	12.0	11.7	
45 Nitrobenzene	77	6.892	6.888	0.004	95	1359903	12.0	12.8	
47 Isophorone	82	7.087	7.083	0.004	98	2476045	12.0	11.8	
48 2-Nitrophenol	139	7.154	7.149	0.005	91	788737	12.0	12.2	
49 2,4-Dimethylphenol	122	7.164	7.159	0.005	94	1210467	12.0	11.8	
51 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	94	1542920	12.0	11.5	
52 Benzoic acid	122	7.316	7.287	0.029	88	2066283	24.0	26.7	
54 2,4-Dichlorophenol	162	7.354	7.349	0.005	96	1217985	12.0	12.2	
55 1,2,4-Trichlorobenzene	180	7.430	7.425	0.005	95	1418097	12.0	12.2	
56 Naphthalene	128	7.501	7.501	0.000	99	3814217	12.0	11.0	
57 4-Chloroaniline	127	7.525	7.520	0.005	96	1795676	12.0	11.9	
58 2,6-Dichlorophenol	162	7.539	7.534	0.005	98	1188772	12.0	11.7	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	910034	12.0	12.2	
64 Caprolactam	113	7.863	7.839	0.024	84	461072	12.0	12.6	
65 4-Chloro-3-methylphenol	107	7.915	7.910	0.005	91	1136626	12.0	12.4	
67 2-Methylnaphthalene	142	8.077	8.072	0.005	95	2664529	12.0	10.8	
68 1-Methylnaphthalene	142	8.162	8.157	0.005	94	2495845	12.0	10.8	
69 Hexachlorocyclopentadiene	237	8.215	8.210	0.005	97	1055562	12.0	12.2	
70 1,2,4,5-Tetrachlorobenzene	216	8.219	8.219	0.000	96	1419834	12.0	12.1	
72 2,4,6-Trichlorophenol	196	8.305	8.300	0.005	92	954173	12.0	12.5	
73 2,4,5-Trichlorophenol	196	8.338	8.333	0.005	96	992239	12.0	12.6	
75 1,1'-Biphenyl	154	8.462	8.457	0.005	95	3102155	12.0	11.6	
76 2-Chloronaphthalene	162	8.490	8.485	0.005	96	2611652	12.0	11.8	
78 2-Nitroaniline	65	8.562	8.552	0.010	87	848840	12.0	12.7	
82 Dimethyl phthalate	163	8.695	8.690	0.005	98	3125462	12.0	12.3	
83 1,3-Dinitrobenzene	168	8.738	8.723	0.015	85	514356	12.0	13.1	
84 2,6-Dinitrotoluene	165	8.752	8.742	0.010	92	715287	12.0	13.5	
85 Acenaphthylene	152	8.842	8.842	0.000	98	4052861	12.0	11.4	
86 3-Nitroaniline	138	8.914	8.904	0.010	96	655677	12.0	12.9	
88 2,4-Dinitrophenol	184	8.994	8.985	0.009	81	989680	24.0	26.4	
87 Acenaphthene	154	8.990	8.985	0.005	94	2615293	12.0	11.5	
89 4-Nitrophenol	109	9.032	9.018	0.014	99	817318	24.0	27.1	
91 2,4-Dinitrotoluene	165	9.099	9.089	0.010	93	968030	12.0	13.6	
92 Dibenzofuran	168	9.132	9.127	0.005	97	3681605	12.0	11.5	
95 2,3,4,6-Tetrachlorophenol	232	9.227	9.223	0.004	72	916724	12.0	12.8	
97 Diethyl phthalate	149	9.280	9.270	0.010	98	2746886	12.0	11.3	
98 Hexadecane	57	9.275	9.270	0.005	87	1602433	12.0	11.7	
100 4-Chlorophenyl phenyl ethe	204	9.399	9.394	0.005	90	1514670	12.0	12.0	
103 4-Nitroaniline	138	9.432	9.418	0.014	85	537059	12.0	11.3	
102 Fluorene	166	9.422	9.418	0.004	95	2916823	12.0	11.5	
104 4,6-Dinitro-2-methylphenol	198	9.451	9.441	0.010	92	1277811	24.0	25.3	
106 N-Nitrosodiphenylamine	169	9.494	9.489	0.005	65	2147459	12.0	11.8	
105 Diphenylamine	169	9.494	9.489	0.005	93	2147459	10.2	9.96	
107 1,2-Diphenylhydrazine	77	9.532	9.527	0.005	94	2748973	12.0	11.8	
114 4-Bromophenyl phenyl ether	248	9.808	9.808	0.000	64	1038999	12.0	12.1	
117 Hexachlorobenzene	284	9.898	9.893	0.005	97	1263765	12.0	12.3	
118 Atrazine	200	9.917	9.912	0.005	76	734739	12.0	11.4	
123 n-Octadecane	43	10.041	10.036	0.005	95	1445462	12.0	11.7	
120 Pentachlorophenol	266	10.050	10.045	0.005	85	1610761	24.0	25.3	
126 Phenanthrene	178	10.236	10.236	0.000	98	4310713	12.0	11.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.283	10.278	0.005	98	4404914	12.0	11.4	
128 Carbazole	167	10.397	10.392	0.005	96	3786913	12.0	11.4	
130 Di-n-butyl phthalate	149	10.659	10.654	0.005	99	5130387	12.0	11.7	
135 Fluoranthene	202	11.406	11.401	0.005	99	5110788	12.0	12.0	
136 Benzidine	184	11.520	11.515	0.005	97	2009187	12.0	13.2	
137 Pyrene	202	11.686	11.681	0.005	96	5283292	12.0	12.3	
145 Butyl benzyl phthalate	149	12.485	12.480	0.005	95	2548958	12.0	12.5	
147 3,3'-Dichlorobenzidine	252	13.460	13.450	0.010	99	1968447	12.0	13.2	
150 Bis(2-ethylhexyl) phthalat	149	13.517	13.512	0.005	96	3617706	12.0	12.5	
149 Benzo[a]anthracene	228	13.541	13.531	0.010	99	5233750	12.0	12.3	
151 Chrysene	228	13.617	13.607	0.010	97	4937976	12.0	12.2	
154 Di-n-octyl phthalate	149	15.006	15.001	0.005	97	6411418	12.0	12.9	
156 Benzo[b]fluoranthene	252	16.104	16.080	0.024	98	5640975	12.0	14.2	
157 Benzo[k]fluoranthene	252	16.190	16.161	0.029	99	5189397	12.0	13.0	
158 Benzo[a]pyrene	252	17.122	17.098	0.024	97	5320960	12.0	14.1	
162 Indeno[1,2,3-cd]pyrene	276	20.232	20.208	0.024	99	6287639	12.0	13.4	
163 Dibenz(a,h)anthracene	278	20.294	20.275	0.019	95	5309726	12.0	14.3	
164 Benzo[g,h,i]perylene	276	20.902	20.874	0.028	79	4890500	12.0	12.6	
S 173 Methyl Phenols,Total	1				0			23.7	

Reagents:

SMlst1_5uLL10_00033 Amount Added: 1.00 Units: mL

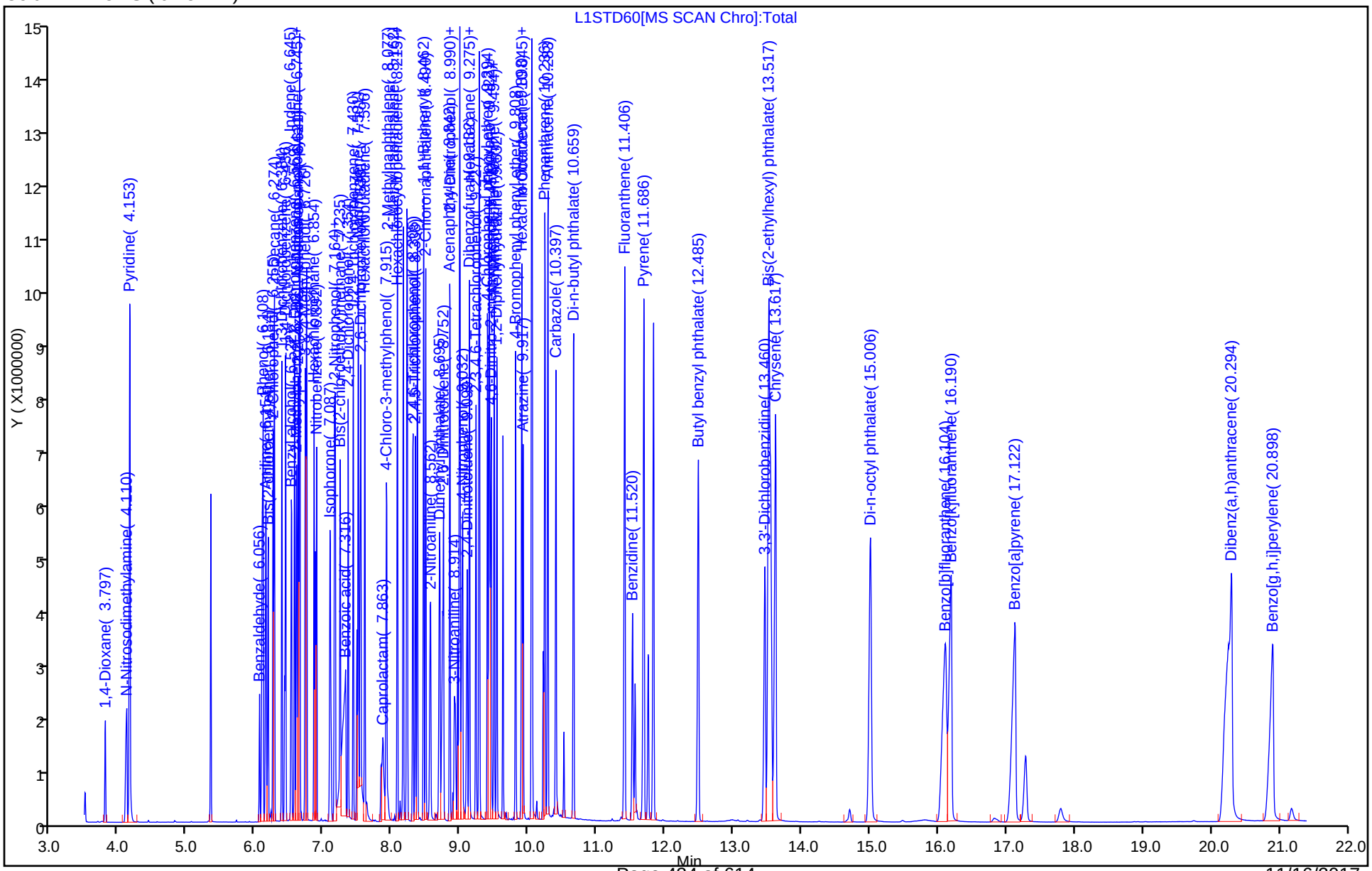
Report Date: 28-Sep-2017 10:35:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD60.D

Injection Date:	27-Sep-2017 17:27:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 27-Sep-2017 17:56:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-012
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:35:07 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 28-Sep-2017 10:16:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.422	6.422	0.000	96	297259	3.20	3.20	
* 2 Naphthalene-d8	136	7.482	7.482	0.000	99	1116093	3.20	3.20	
* 3 Acenaphthene-d10	164	8.956	8.956	0.000	97	556524	3.20	3.20	
* 4 Phenanthrene-d10	188	10.217	10.212	0.005	97	1090493	3.20	3.20	
* 5 Chrysene-d12	240	13.560	13.550	0.010	99	1116501	3.20	3.20	
* 6 Perylene-d12	264	17.283	17.269	0.014	97	1194465	3.20	3.20	
$ 7 2-Fluorophenol	112	5.342	5.337	0.005	95	1393275	14.0	14.2	
$ 8 Phenol-d5	99	6.098	6.089	0.009	94	1806523	14.0	14.5	
$ 9 Nitrobenzene-d5	82	6.878	6.869	0.009	96	1737758	14.0	15.9	
$ 10 2-Fluorobiphenyl	172	8.372	8.367	0.005	99	3249205	14.0	13.9	
$ 11 2,4,6-Tribromophenol	330	9.627	9.617	0.010	65	934332	14.0	17.3	
$ 12 Terphenyl-d14	244	11.829	11.824	0.005	100	4237705	14.0	15.5	
13 1,4-Dioxane	88	3.792	3.792	0.000	88	541263	14.0	17.1	
14 N-Nitrosodimethylamine	42	4.115	4.101	0.014	70	1481494	14.0	14.7	
15 Pyridine	79	4.158	4.153	0.005	78	3160040	28.0	31.3	
23 Benzaldehyde	77	6.056	6.055	0.001	89	355922	14.0	14.2	
25 Phenol	94	6.113	6.103	0.010	93	1799200	14.0	14.6	
26 Aniline	93	6.151	6.146	0.005	94	2417114	14.0	13.6	
27 Bis(2-chloroethyl)ether	93	6.184	6.179	0.005	92	1695211	14.0	15.3	
29 2-Chlorophenol	128	6.255	6.250	0.005	98	1672055	14.0	14.8	
30 n-Decane	43	6.274	6.269	0.005	93	2362672	14.0	13.4	
31 1,3-Dichlorobenzene	146	6.384	6.379	0.005	99	1798492	14.0	13.7	
32 1,4-Dichlorobenzene	146	6.441	6.436	0.005	95	1799973	14.0	13.6	
33 Benzyl alcohol	108	6.526	6.517	0.009	92	1061706	14.0	13.7	
34 1,2-Dichlorobenzene	146	6.569	6.569	0.000	98	1760067	14.0	13.4	
36 2-Methylphenol	107	6.598	6.593	0.005	95	1226294	14.0	14.4	
35 2,2'-oxybis[1-chloropropan	45	6.621	6.621	0.000	90	3981961	14.0	10.9	
37 Indene	116	6.645	6.640	0.005	89	4573608	28.0	23.2	
42 3 & 4 Methylphenol	108	6.731	6.716	0.015	92	1435706	14.0	13.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.750	6.735	0.015	86	939047	14.0	12.6	
40 Acetophenone	105	6.750	6.740	0.010	95	1902264	14.0	12.4	
44 Hexachloroethane	117	6.854	6.854	0.000	96	781229	14.0	13.9	
45 Nitrobenzene	77	6.893	6.888	0.004	96	1541713	14.0	15.5	
47 Isophorone	82	7.092	7.083	0.009	98	2840393	14.0	14.3	
48 2-Nitrophenol	139	7.154	7.149	0.005	91	898496	14.0	14.8	
49 2,4-Dimethylphenol	122	7.168	7.159	0.009	94	1363401	14.0	14.2	
51 Bis(2-chloroethoxy)methane	93	7.240	7.235	0.005	94	1736040	14.0	13.8	
52 Benzoic acid	122	7.330	7.287	0.043	87	2391822	28.0	32.8	
54 2,4-Dichlorophenol	162	7.359	7.349	0.010	97	1383570	14.0	14.8	
55 1,2,4-Trichlorobenzene	180	7.430	7.425	0.005	95	1606545	14.0	14.7	
56 Naphthalene	128	7.506	7.501	0.005	99	4251074	14.0	13.1	
57 4-Chloroaniline	127	7.530	7.520	0.010	96	1987342	14.0	14.0	
58 2,6-Dichlorophenol	162	7.539	7.534	0.005	98	1348589	14.0	14.2	
60 Hexachlorobutadiene	225	7.601	7.596	0.005	94	1032574	14.0	14.7	
64 Caprolactam	113	7.872	7.839	0.033	84	531589	14.0	15.5	
65 4-Chloro-3-methylphenol	107	7.920	7.910	0.010	91	1293122	14.0	15.0	
67 2-Methylnaphthalene	142	8.077	8.072	0.005	95	2998007	14.0	12.9	
68 1-Methylnaphthalene	142	8.162	8.157	0.005	94	2790095	14.0	12.8	
69 Hexachlorocyclopentadiene	237	8.215	8.210	0.005	97	1209163	14.0	14.8	
70 1,2,4,5-Tetrachlorobenzene	216	8.224	8.219	0.005	96	1612984	14.0	14.5	
72 2,4,6-Trichlorophenol	196	8.305	8.300	0.005	92	1092943	14.0	15.2	
73 2,4,5-Trichlorophenol	196	8.343	8.333	0.010	96	1160063	14.0	15.6	
75 1,1'-Biphenyl	154	8.462	8.457	0.005	95	3472203	14.0	13.7	
76 2-Chloronaphthalene	162	8.490	8.485	0.005	97	2976037	14.0	14.2	
78 2-Nitroaniline	65	8.562	8.552	0.010	87	974324	14.0	15.5	
82 Dimethyl phthalate	163	8.700	8.690	0.010	97	3569459	14.0	14.9	
83 1,3-Dinitrobenzene	168	8.738	8.723	0.015	86	591120	14.0	16.0	
84 2,6-Dinitrotoluene	165	8.752	8.742	0.010	92	818578	14.0	16.3	
85 Acenaphthylene	152	8.847	8.842	0.005	98	4552253	14.0	13.6	
86 3-Nitroaniline	138	8.914	8.904	0.010	95	668399	14.0	14.0	
87 Acenaphthene	154	8.990	8.985	0.005	94	2977668	14.0	13.9	
88 2,4-Dinitrophenol	184	8.999	8.985	0.014	89	1144811	28.0	32.4	
89 4-Nitrophenol	109	9.037	9.018	0.019	99	932116	28.0	32.8	
91 2,4-Dinitrotoluene	165	9.104	9.089	0.015	93	1112909	14.0	16.6	
92 Dibenzofuran	168	9.132	9.127	0.005	97	4157819	14.0	13.8	
95 2,3,4,6-Tetrachlorophenol	232	9.228	9.223	0.005	72	1049705	14.0	15.5	
98 Hexadecane	57	9.275	9.270	0.005	86	1715495	14.0	16.0	
97 Diethyl phthalate	149	9.280	9.270	0.010	97	3112702	14.0	13.5	
100 4-Chlorophenyl phenyl ethe	204	9.399	9.394	0.005	89	1735791	14.0	14.6	
102 Fluorene	166	9.422	9.418	0.004	94	3265781	14.0	13.7	
103 4-Nitroaniline	138	9.437	9.418	0.019	69	584612	14.0	13.1	
104 4,6-Dinitro-2-methylphenol	198	9.456	9.441	0.015	91	1463774	28.0	31.2	
105 Diphenylamine	169	9.494	9.489	0.005	93	2426785	11.9	12.1	
106 N-Nitrosodiphenylamine	169	9.494	9.489	0.005	64	2426785	14.0	14.3	
107 1,2-Diphenylhydrazine	77	9.537	9.527	0.010	94	3057048	14.0	13.9	
114 4-Bromophenyl phenyl ether	248	9.812	9.808	0.004	63	1190727	14.0	14.9	
117 Hexachlorobenzene	284	9.898	9.893	0.005	97	1470623	14.0	15.4	
118 Atrazine	200	9.922	9.912	0.010	75	824545	14.0	13.7	
123 n-Octadecane	43	10.041	10.036	0.005	95	1544132	14.0	13.8	
120 Pentachlorophenol	266	10.055	10.045	0.010	85	1826010	28.0	30.9	
126 Phenanthrene	178	10.240	10.236	0.004	97	4843379	14.0	13.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.283	10.278	0.005	98	4968042	14.0	13.8	
128 Carbazole	167	10.402	10.392	0.010	96	4219933	14.0	13.7	
130 Di-n-butyl phthalate	149	10.659	10.654	0.005	99	5665067	14.0	13.9	
135 Fluoranthene	202	11.410	11.401	0.009	99	5789737	14.0	14.6	
136 Benzidine	184	11.524	11.515	0.009	97	2343981	14.0	16.5	
137 Pyrene	202	11.691	11.681	0.010	96	5961391	14.0	14.9	
145 Butyl benzyl phthalate	149	12.490	12.480	0.010	95	2933360	14.0	15.5	
147 3,3'-Dichlorobenzidine	252	13.465	13.450	0.015	99	2314343	14.0	16.6	
150 Bis(2-ethylhexyl) phthalat	149	13.517	13.512	0.005	95	4109532	14.0	15.2	
149 Benzo[a]anthracene	228	13.541	13.531	0.010	99	5977398	14.0	15.1	
151 Chrysene	228	13.622	13.607	0.015	97	5763664	14.0	15.3	
154 Di-n-octyl phthalate	149	15.010	15.001	0.009	97	7352159	14.0	15.9	
156 Benzo[b]fluoranthene	252	16.114	16.080	0.034	98	6595464	14.0	17.6	
157 Benzo[k]fluoranthene	252	16.199	16.161	0.038	99	5859042	14.0	15.6	
158 Benzo[a]pyrene	252	17.136	17.098	0.038	97	6136771	14.0	17.3	
162 Indeno[1,2,3-cd]pyrene	276	20.241	20.208	0.033	97	7178885	14.0	16.3	
163 Dibenz(a,h)anthracene	278	20.308	20.275	0.033	91	5881967	14.0	16.8	
164 Benzo[g,h,i]perylene	276	20.912	20.874	0.038	79	5509241	14.0	15.1	
S 173 Methyl Phenols,Total	1				0			28.2	

Reagents:

SMlst1_5uLL11_00033 Amount Added: 1.00 Units: mL

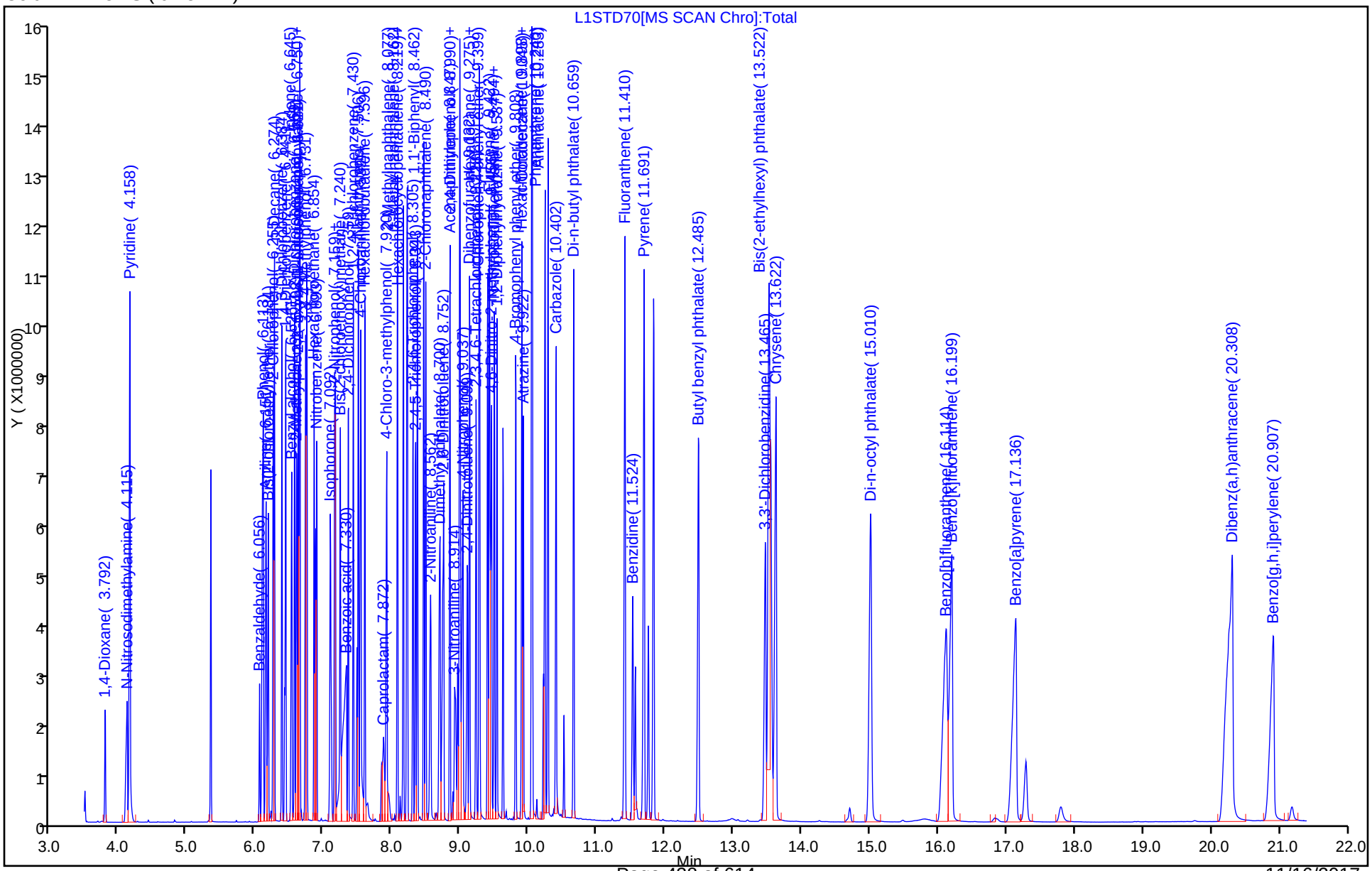
Report Date: 28-Sep-2017 10:35:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Injection Date:	27-Sep-2017 17:56:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	12
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID (1): CCVIS 500-407256/2 Instrument ID (1): CMS12

GC Column (1): ZB5MS ID: 0.25(mm) Date Analyzed (1): 10/27/2017 09:17

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol (Surr)	4.59	100.0
Benzaldehyde	5.29	100.0
Phenol-d5 (Surr)	5.39	100.0
Phenol	5.41	100.0
Bis(2-chloroethyl)ether	5.44	100.0
2-Chlorophenol	5.50	100.0
2,2'-oxybis[1-chloropropane]	5.88	100.0
2-Methylphenol	5.89	100.0
Acetophenone	6.00	100.0
N-Nitrosodi-n-propylamine	6.00	100.0
3 & 4 Methylphenol	6.02	100.0
Hexachloroethane	6.08	100.0
Nitrobenzene-d5 (Surr)	6.12	100.0
Nitrobenzene	6.14	100.0
Isophorone	6.33	100.0
2-Nitrophenol	6.40	100.0
2,4-Dimethylphenol	6.44	100.0
Bis(2-chloroethoxy)methane	6.50	100.0
2,4-Dichlorophenol	6.61	100.0
Naphthalene	6.72	100.0
4-Chloroaniline	6.77	100.0
Hexachlorobutadiene	6.83	100.0
4-Chloro-3-methylphenol	7.19	100.0
2-Methylnaphthalene	7.30	100.0
Caprolactam	7.30	100.0
Hexachlorocyclopentadiene	7.43	100.0
2,4,6-Trichlorophenol	7.54	100.0
2,4,5-Trichlorophenol	7.58	100.0
2-Fluorobiphenyl (Surr)	7.60	100.0
1,1'-Biphenyl	7.68	100.0
2-Chloronaphthalene	7.70	100.0
2-Nitroaniline	7.79	100.0
Dimethyl phthalate	7.94	100.0
2,6-Dinitrotoluene	7.99	100.0
Acenaphthylene	8.04	100.0
3-Nitroaniline	8.14	100.0
Acenaphthene	8.18	100.0
2,4-Dinitrophenol	8.22	100.0
4-Nitrophenol	8.31	100.0
2,4-Dinitrotoluene	8.33	100.0
Dibenzofuran	8.33	100.0
Diethyl phthalate	8.52	100.0
4-Chlorophenyl phenyl ether	8.60	100.0
Fluorene	8.61	100.0
4-Nitroaniline	8.65	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID (1): CCVIS 500-407256/2 Instrument ID (1): CMS12

GC Column (1): ZB5MS ID: 0.25(mm) Date Analyzed (1): 10/27/2017 09:17

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	8.67	100.0
N-Nitrosodiphenylamine	8.71	100.0
2,4,6-Tribromophenol (Surr)	8.82	100.0
4-Bromophenyl phenyl ether	9.01	100.0
Hexachlorobenzene	9.08	100.0
Atrazine	9.15	100.0
Pentachlorophenol	9.25	100.0
Phenanthrene	9.41	100.0
Anthracene	9.45	100.0
Carbazole	9.58	100.0
Di-n-butyl phthalate	9.85	100.0
Fluoranthene	10.40	100.0
Pyrene	10.61	100.0
Terphenyl-d14 (Surr)	10.75	100.0
Butyl benzyl phthalate	11.28	100.0
3,3'-Dichlorobenzidine	11.99	100.0
Benzo[a]anthracene	12.02	100.0
Bis(2-ethylhexyl) phthalate	12.07	100.0
Chrysene	12.07	100.0
Di-n-octyl phthalate	13.16	100.0
Benzo[b]fluoranthene	13.86	50.70
Benzo[k]fluoranthene	13.91	100.0
Benzo[a]pyrene	14.52	100.0
Indeno[1,2,3-cd]pyrene	17.53	100.0
Dibenz(a,h)anthracene	17.65	100.0

Resolution Report

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12C1027.D				
Injection Date:	27-Oct-2017 09:17:30	Instrument ID:	CMS12		
Lims ID:	ccvis				
Client ID:					
Operator ID:	AD	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

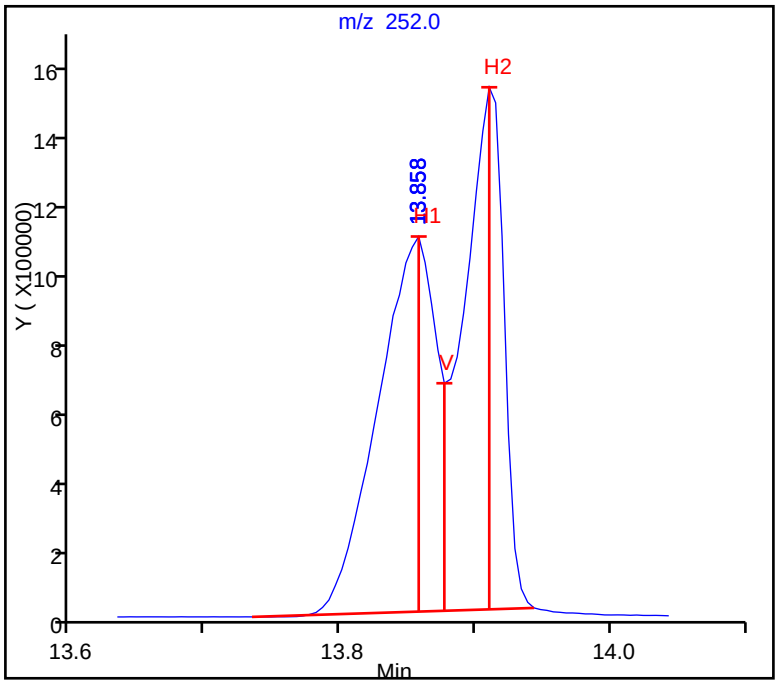
156 Benzo[b]fluoranthene - 157 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 637023
H1(156 Benzo[b]fluoranthen) = 1050118
H2(157 Benzo[k]fluoranthen) = 1461639

Version D: %R = 50.7 <= 50.0
Failed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID (1): CCVIS 500-407268/4 Instrument ID (1): CMS01

GC Column (1): ZB5MS ID: 0.25(mm) Date Analyzed (1): 10/27/2017 10:01

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol (Surr)	5.43	100.0
Benzaldehyde	6.15	100.0
Phenol-d5 (Surr)	6.17	100.0
Phenol	6.19	100.0
Bis(2-chloroethyl)ether	6.27	100.0
2-Chlorophenol	6.35	100.0
2-Methylphenol	6.69	100.0
2,2'-oxybis[1-chloropropane]	6.72	100.0
3 & 4 Methylphenol	6.81	100.0
N-Nitrosodi-n-propylamine	6.83	100.0
Acetophenone	6.83	100.0
Hexachloroethane	6.95	100.0
Nitrobenzene-d5 (Surr)	6.97	100.0
Nitrobenzene	6.98	100.0
Isophorone	7.18	100.0
2-Nitrophenol	7.25	100.0
2,4-Dimethylphenol	7.25	100.0
Bis(2-chloroethoxy)methane	7.33	100.0
2,4-Dichlorophenol	7.45	100.0
Naphthalene	7.61	100.0
4-Chloroaniline	7.62	100.0
Hexachlorobutadiene	7.70	100.0
Caprolactam	7.91	100.0
4-Chloro-3-methylphenol	8.01	100.0
2-Methylnaphthalene	8.18	100.0
Hexachlorocyclopentadiene	8.32	100.0
2,4,6-Trichlorophenol	8.40	100.0
2,4,5-Trichlorophenol	8.44	100.0
2-Fluorobiphenyl (Surr)	8.47	100.0
1,1'-Biphenyl	8.56	100.0
2-Chloronaphthalene	8.59	100.0
2-Nitroaniline	8.66	100.0
Dimethyl phthalate	8.79	100.0
2,6-Dinitrotoluene	8.85	100.0
Acenaphthylene	8.95	100.0
3-Nitroaniline	9.00	100.0
2,4-Dinitrophenol	9.09	100.0
Acenaphthene	9.10	100.0
4-Nitrophenol	9.12	100.0
2,4-Dinitrotoluene	9.20	100.0
Dibenzofuran	9.24	100.0
Diethyl phthalate	9.38	100.0
4-Chlorophenyl phenyl ether	9.51	100.0
4-Nitroaniline	9.52	100.0
Fluorene	9.53	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID (1): CCVIS 500-407268/4 Instrument ID (1): CMS01

GC Column (1): ZB5MS ID: 0.25(mm) Date Analyzed (1): 10/27/2017 10:01

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	9.55	100.0
N-Nitrosodiphenylamine	9.60	100.0
2,4,6-Tribromophenol (Surr)	9.74	100.0
4-Bromophenyl phenyl ether	9.92	100.0
Hexachlorobenzene	10.01	100.0
Atrazine	10.02	100.0
Pentachlorophenol	10.16	100.0
Phenanthrene	10.36	100.0
Anthracene	10.40	100.0
Carbazole	10.53	100.0
Di-n-butyl phthalate	10.79	100.0
Fluoranthene	11.58	100.0
Pyrene	11.87	100.0
Terphenyl-d14 (Surr)	12.02	100.0
Butyl benzyl phthalate	12.71	100.0
3,3'-Dichlorobenzidine	13.73	100.0
Bis(2-ethylhexyl) phthalate	13.80	100.0
Benzo[a]anthracene	13.82	100.0
Chrysene	13.90	100.0
Di-n-octyl phthalate	15.39	100.0
Benzo[b]fluoranthene	16.55	15.60
Benzo[k]fluoranthene	16.64	100.0
Benzo[a]pyrene	17.66	100.0
Indeno[1,2,3-cd]pyrene	20.67	100.0
Dibenz(a,h)anthracene	20.74	100.0

Resolution Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1C1027.D
Injection Date: 27-Oct-2017 10:01:30 Instrument ID: CMS01
Lims ID: ccvis
Client ID:
Operator ID: AD ALS Bottle#: 2 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

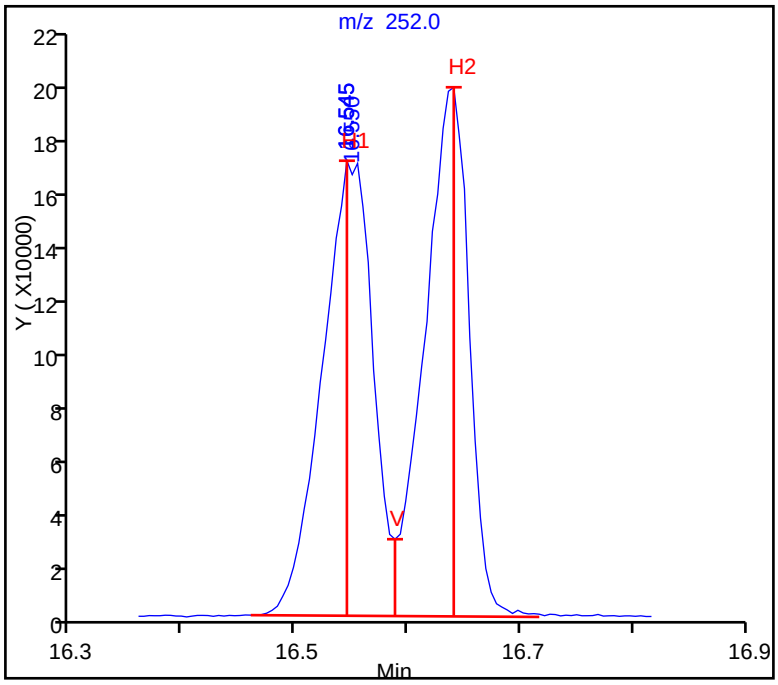
157 Benzo[b]fluoranthene - 158 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 27905
H1(157 Benzo[b]fluoranthen) = 165260
H2(158 Benzo[k]fluoranthen) = 192190

Version D: %R = 15.6 <= 50.0
Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: ICV 500-407173/13 Calibration Date: 10/26/2017 22:25

Instrument ID: CMS01 Calib Start Date: 10/26/2017 16:56

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 10/26/2017 21:55

Lab File ID: L1ICV.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	0.4367	0.1644	0.0100	<32.0	10.0	-62.4*	30.0
Phenol	Ave	1.450	1.468	0.8000	10.1	10.0	1.2	30.0
Bis(2-chloroethyl)ether	Ave	1.106	1.054	0.7000	9.53	10.0	-4.7	30.0
2-Chlorophenol	Ave	1.229	1.243	0.8000	10.1	10.0	1.2	30.0
2-Methylphenol	Ave	1.016	0.9878	0.7000	9.72	10.0	-2.8	30.0
2,2'-oxybis[1-chloropropane]	Ave	3.199	2.688	0.0100	8.40	10.0	-16.0	30.0
3 & 4 Methylphenol	Ave	1.252	1.194	0.6000	9.53	10.0	-4.7	30.0
N-Nitrosodi-n-propylamine	Ave	1.014	0.8600	0.5000	8.48	10.0	-15.2	30.0
Acetophenone	Ave	1.913	1.669	0.0100	8.72	10.0	-12.8	30.0
Hexachloroethane	Ave	0.6018	0.5624	0.3000	9.34	10.0	-6.6	30.0
Nitrobenzene	Ave	0.3468	0.3517	0.2000	10.1	10.0	1.4	30.0
Isophorone	Ave	0.6001	0.5765	0.4000	9.61	10.0	-3.9	30.0
2-Nitrophenol	Ave	0.1735	0.1779	0.1000	10.3	10.0	2.6	30.0
2,4-Dimethylphenol	Ave	0.2983	0.2352	0.2000	7.88	10.0	-21.2	30.0
Bis(2-chloroethoxy)methane	Ave	0.3459	0.3513	0.3000	10.2	10.0	1.6	30.0
2,4-Dichlorophenol	Ave	0.2881	0.2821	0.2000	9.79	10.0	-2.1	30.0
Naphthalene	Ave	0.9538	0.9339	0.7000	9.79	10.0	-2.1	30.0
4-Chloroaniline	Ave	0.3918	0.3244	0.0100	8.28	10.0	-17.2	30.0
Hexachlorobutadiene	Ave	0.1704	0.1621	0.0100	9.51	10.0	-4.9	30.0
Caprolactam	Ave	0.0847	0.0868	0.0100	10.2	10.0	2.4	30.0
4-Chloro-3-methylphenol	Ave	0.2791	0.2783	0.2000	9.97	10.0	-0.3	30.0
2-Methylnaphthalene	Ave	0.6660	0.6088	0.4000	9.14	10.0	-8.6	30.0
Hexachlorocyclopentadiene	Ave	0.3841	0.3071	0.0500	8.00	10.0	-20.0	30.0
2,4,6-Trichlorophenol	Ave	0.4117	0.4146	0.2000	10.1	10.0	0.7	30.0
2,4,5-Trichlorophenol	Ave	0.4153	0.4432	0.2000	10.7	10.0	6.7	30.0
1,1'-Biphenyl	Ave	1.516	1.501	0.0100	9.90	10.0	-1.0	30.0
2-Chloronaphthalene	Ave	1.272	1.262	0.8000	9.92	10.0	-0.8	30.0
2-Nitroaniline	Ave	0.3392	0.3506	0.0100	10.3	10.0	3.4	30.0
Dimethyl phthalate	Ave	1.287	1.264	0.0100	9.83	10.0	-1.7	30.0
2,6-Dinitrotoluene	Ave	0.2835	0.2985	0.2000	10.5	10.0	5.3	30.0
Acenaphthylene	Ave	1.963	1.954	0.9000	9.95	10.0	-0.5	30.0
3-Nitroaniline	Ave	0.2699	0.2357	0.0100	8.73	10.0	-12.7	30.0
2,4-Dinitrophenol	Ave	0.1519	0.1661	0.0100	21.9	20.0	9.4	30.0
Acenaphthene	Ave	1.226	1.231	0.9000	10.0	10.0	0.4	30.0
4-Nitrophenol	Ave	0.1869	0.1894	0.0100	20.3	20.0	1.3	30.0
2,4-Dinitrotoluene	Lin1		0.3771	0.2000	9.87	10.0	-1.3	30.0
Dibenzofuran	Ave	1.713	1.667	0.8000	9.74	10.0	-2.6	30.0
Diethyl phthalate	Ave	1.226	1.180	0.0100	9.63	10.0	-3.7	30.0
4-Chlorophenyl phenyl ether	Ave	0.6302	0.6009	0.4000	9.54	10.0	-4.6	30.0
4-Nitroaniline	Ave	0.2450	0.2038	0.0100	8.32	10.0	-16.8	30.0
Fluorene	Ave	1.298	1.269	0.9000	9.77	10.0	-2.3	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: ICV 500-407173/13 Calibration Date: 10/26/2017 22:25

Instrument ID: CMS01 Calib Start Date: 10/26/2017 16:56

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 10/26/2017 21:55

Lab File ID: L1ICV.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4,6-Dinitro-2-methylphenol	Ave	0.1156	0.1261	0.0100	21.8	20.0	9.0	30.0
N-Nitrosodiphenylamine	Ave	0.5442	0.5119	0.0100	9.41	10.0	-5.9	30.0
4-Bromophenyl phenyl ether	Ave	0.2061	0.1881	0.1000	9.13	10.0	-8.7	30.0
Hexachlorobenzene	Ave	0.2101	0.1954	0.1000	9.30	10.0	-7.0	30.0
Atrazine	Ave	0.1692	0.1496	0.0100	8.84	10.0	-11.6	30.0
Pentachlorophenol	Ave	0.1204	0.1283	0.0500	21.3	20.0	6.5	30.0
Phenanthrene	Ave	1.115	1.051	0.7000	9.42	10.0	-5.8	30.0
Anthracene	Ave	1.131	1.074	0.7000	9.50	10.0	-5.0	30.0
Carbazole	Ave	0.9589	0.8922	0.0100	9.30	10.0	-7.0	30.0
Di-n-butyl phthalate	Ave	1.184	1.174	0.0100	9.92	10.0	-0.8	30.0
Fluoranthene	Ave	1.113	1.073	0.6000	9.65	10.0	-3.5	30.0
Pyrene	Ave	1.416	1.391	0.6000	9.82	10.0	-1.8	30.0
Butyl benzyl phthalate	Ave	0.6654	0.6759	0.0100	10.2	10.0	1.6	30.0
3,3'-Dichlorobenzidine	Ave	0.4338	0.3937	0.0100	9.08	10.0	-9.2	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.9029	0.9058	0.0100	10.0	10.0	0.3	30.0
Benzo[a]anthracene	Ave	1.287	1.198	0.8000	9.31	10.0	-6.9	30.0
Chrysene	Ave	1.167	1.156	0.7000	9.91	10.0	-0.9	30.0
Di-n-octyl phthalate	Ave	1.259	1.225	0.0100	9.73	10.0	-2.7	30.0
Benzo[b]fluoranthene	Ave	1.160	1.147	0.7000	9.89	10.0	-1.1	30.0
Benzo[k]fluoranthene	Ave	1.174	1.111	0.7000	9.46	10.0	-5.4	30.0
Benzo[a]pyrene	Ave	1.164	1.074	0.7000	9.23	10.0	-7.7	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.261	1.212	0.5000	9.61	10.0	-3.9	30.0
Dibenz(a,h)anthracene	Ave	1.048	1.028	0.4000	9.81	10.0	-1.9	30.0
Benzo[g,h,i]perylene	Ave	1.104	1.009	0.5000	9.14	10.0	-8.6	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1ICV.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 26-Oct-2017 22:25:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 500-0048643-013
Operator ID: DA Instrument ID: CMS01
Sublist:

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:47:15 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:24:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	96	139103	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	99	508449	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	94	247723	3.20	3.20	
* 4 Phenanthrene-d10	188	10.334	10.330	0.004	98	417144	3.20	3.20	
* 5 Chrysene-d12	240	13.839	13.830	0.009	99	328729	3.20	3.20	
* 6 Perylene-d12	264	17.858	17.839	0.019	98	333235	3.20	3.20	
13 1,4-Dioxane	88	3.876	3.872	0.004	84	128216	10.0	10.5	
14 N-Nitrosodimethylamine	42	4.190	4.176	0.014	56	485060	10.0	9.45	
15 Pyridine	79	4.238	4.228	0.010	94	1086493	20.0	20.2	
25 Benzaldehyde	77	6.145	6.145	0.000	97	71465	10.0	3.76	
26 Phenol	94	6.188	6.183	0.005	96	637996	10.0	10.1	
27 Aniline	93	6.235	6.231	0.004	98	699567	10.0	8.44	
28 Bis(2-chloroethyl)ether	93	6.268	6.264	0.004	96	458221	10.0	9.53	
29 2-Chlorophenol	128	6.345	6.345	0.000	97	540542	10.0	10.1	
30 n-Decane	43	6.364	6.359	0.005	74	909862	10.0	9.05	
31 1,3-Dichlorobenzene	146	6.478	6.473	0.005	99	619511	10.0	9.49	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	94	643542	10.0	9.60	
36 Benzyl alcohol	108	6.611	6.606	0.005	91	355134	10.0	9.46	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	95	621666	10.0	9.70	
38 2-Methylphenol	107	6.687	6.682	0.005	88	429399	10.0	9.72	
39 2,2'-oxybis[1-chloropropan	45	6.715	6.711	0.004	89	1168432	10.0	8.40	
40 Indene	116	6.739	6.735	0.004	91	1795411	20.0	17.1	
42 3 & 4 Methylphenol	108	6.815	6.806	0.009	96	518994	10.0	9.53	
43 N-Nitrosodi-n-propylamine	70	6.830	6.820	0.010	95	373829	10.0	8.48	
44 Acetophenone	105	6.839	6.835	0.004	94	725368	10.0	8.72	
45 Hexachloroethane	117	6.953	6.949	0.004	93	244476	10.0	9.34	
46 Nitrobenzene	77	6.987	6.982	0.005	95	558770	10.0	10.1	
48 Isophorone	82	7.182	7.172	0.010	96	916014	10.0	9.61	
50 2-Nitrophenol	139	7.253	7.248	0.005	88	282722	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
51 2,4-Dimethylphenol	122	7.258	7.253	0.005	89	373678	10.0	7.88	
52 Bis(2-chloroethoxy)methane	93	7.329	7.329	0.000	99	558182	10.0	10.2	
54 Benzoic acid	122	7.396	7.353	0.043	96	566165	20.0	20.1	
55 2,4-Dichlorophenol	162	7.453	7.448	0.005	94	448206	10.0	9.79	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	94	501508	10.0	9.82	
58 Naphthalene	128	7.605	7.600	0.005	99	1483931	10.0	9.79	
60 4-Chloroaniline	127	7.624	7.619	0.005	96	515473	10.0	8.28	
62 2,6-Dichlorophenol	162	7.638	7.633	0.005	96	442184	10.0	9.61	
63 Hexachlorobutadiene	225	7.700	7.695	0.005	96	257615	10.0	9.51	
65 Caprolactam	113	7.938	7.914	0.024	73	137878	10.0	10.2	
66 4-Chloro-3-methylphenol	107	8.014	8.004	0.010	97	442159	10.0	9.97	
68 2-Methylnaphthalene	142	8.180	8.176	0.004	99	967368	10.0	9.14	
70 1-Methylnaphthalene	142	8.266	8.261	0.005	99	921852	10.0	9.65	
72 Hexachlorocyclopentadiene	237	8.318	8.314	0.004	94	237756	10.0	8.00	
73 1,2,4,5-Tetrachlorobenzene	216	8.323	8.323	0.000	97	454758	10.0	9.53	
74 2,4,6-Trichlorophenol	196	8.404	8.404	0.000	90	320948	10.0	10.1	
76 2,4,5-Trichlorophenol	196	8.442	8.437	0.005	97	343083	10.0	10.7	
79 1,1'-Biphenyl	154	8.565	8.561	0.004	96	1162277	10.0	9.90	
80 2-Chloronaphthalene	162	8.594	8.594	0.000	98	976663	10.0	9.92	
81 2-Nitroaniline	65	8.661	8.656	0.005	97	271439	10.0	10.3	
82 Dimethyl phthalate	163	8.794	8.789	0.005	99	978646	10.0	9.83	
83 1,3-Dinitrobenzene	168	8.832	8.822	0.010	82	144781	10.0	10.3	
84 2,6-Dinitrotoluene	165	8.851	8.846	0.005	93	231048	10.0	10.5	
86 Acenaphthylene	152	8.951	8.946	0.005	98	1512871	10.0	9.95	
88 3-Nitroaniline	138	9.012	9.003	0.009	91	182445	10.0	8.73	
91 2,4-Dinitrophenol	184	9.093	9.084	0.009	92	257120	20.0	21.9	
90 Acenaphthene	154	9.098	9.093	0.005	95	953298	10.0	10.0	
92 4-Nitrophenol	109	9.127	9.112	0.015	87	293203	20.0	20.3	
95 2,4-Dinitrotoluene	165	9.203	9.193	0.010	93	291910	10.0	9.87	
97 Dibenzofuran	168	9.241	9.236	0.005	96	1290796	10.0	9.74	
99 2,3,4,6-Tetrachlorophenol	232	9.336	9.331	0.005	96	246396	10.0	10.1	
101 Hexadecane	57	9.379	9.374	0.005	89	603222	10.0	11.2	
100 Diethyl phthalate	149	9.379	9.374	0.005	98	913581	10.0	9.63	
103 4-Chlorophenyl phenyl ethe	204	9.507	9.502	0.005	90	465205	10.0	9.54	
106 4-Nitroaniline	138	9.526	9.517	0.009	84	157751	10.0	8.32	
104 Fluorene	166	9.531	9.526	0.005	96	982292	10.0	9.77	
109 4,6-Dinitro-2-methylphenol	198	9.555	9.545	0.010	96	328711	20.0	21.8	
111 N-Nitrosodiphenylamine	169	9.602	9.598	0.004	68	667293	10.0	9.41	
98 Diphenylamine	169	9.602	9.598	0.004	95	667293	8.50	7.93	
113 1,2-Diphenylhydrazine	77	9.640	9.636	0.004	97	1053781	10.0	10.1	
119 4-Bromophenyl phenyl ether	248	9.921	9.921	0.000	84	245212	10.0	9.13	
122 Hexachlorobenzene	284	10.011	10.011	0.000	98	254774	10.0	9.30	
123 Atrazine	200	10.025	10.021	0.004	86	195005	10.0	8.84	
124 n-Octadecane	43	10.149	10.149	0.000	92	758143	10.0	8.85	
125 Pentachlorophenol	266	10.163	10.159	0.004	97	334400	20.0	21.3	
127 Phenanthrene	178	10.358	10.354	0.004	98	1369969	10.0	9.42	
128 Anthracene	178	10.401	10.396	0.005	99	1400546	10.0	9.50	
129 Carbazole	167	10.525	10.520	0.005	96	1163001	10.0	9.30	
133 Di-n-butyl phthalate	149	10.791	10.786	0.005	99	1530611	10.0	9.92	
136 Fluoranthene	202	11.580	11.571	0.009	98	1399240	10.0	9.65	
138 Benzidine	184	11.690	11.685	0.005	99	337113	10.0	6.47	
141 Pyrene	202	11.871	11.866	0.005	97	1429049	10.0	9.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
147 Butyl benzyl phthalate	149	12.708	12.703	0.005	97	694321	10.0	10.2	
149 3,3'-Dichlorobenzidine	252	13.735	13.721	0.014	100	404472	10.0	9.08	
150 Bis(2-ethylhexyl) phthalat	149	13.797	13.792	0.005	86	930488	10.0	10.0	
151 Benzo[a]anthracene	228	13.820	13.806	0.014	98	1230452	10.0	9.31	
152 Chrysene	228	13.901	13.887	0.014	99	1187490	10.0	9.91	
155 Di-n-octyl phthalate	149	15.390	15.380	0.010	95	1596855	10.0	9.73	
157 Benzo[b]fluoranthene	252	16.564	16.541	0.023	98	1194582	10.0	9.89	
158 Benzo[k]fluoranthene	252	16.655	16.626	0.029	100	1156824	10.0	9.46	
160 Benzo[a]pyrene	252	17.668	17.634	0.034	98	1117987	10.0	9.23	
163 Indeno[1,2,3-cd]pyrene	276	20.687	20.664	0.023	99	1262586	10.0	9.61	
164 Dibenz(a,h)anthracene	278	20.763	20.726	0.037	97	1070989	10.0	9.81	
165 Benzo[g,h,i]perylene	276	21.410	21.382	0.028	97	1050281	10.0	9.14	

Reagents:

SMlst1_5uLICV_00037 Amount Added: 1.00 Units: mL

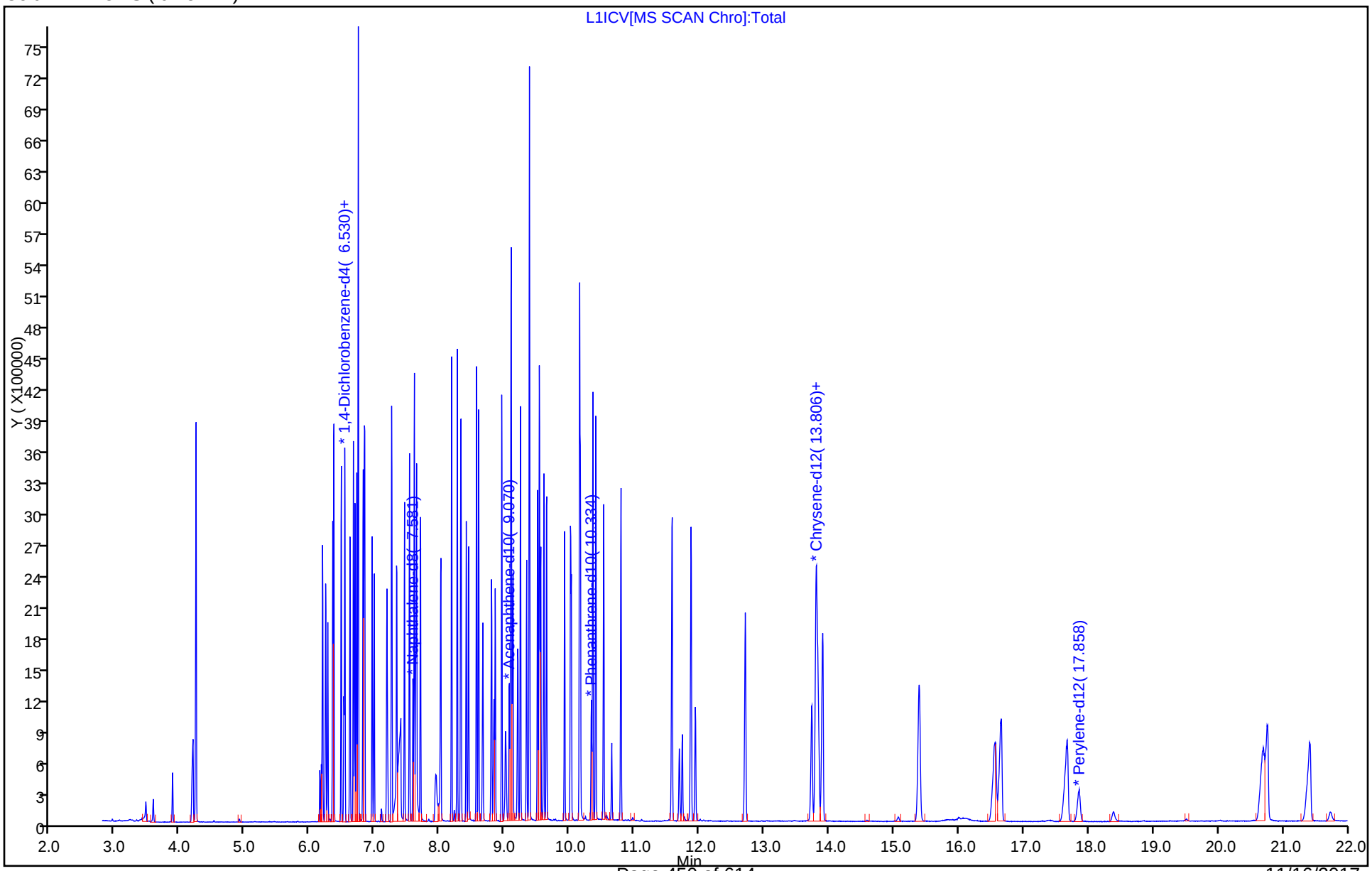
Report Date: 09-Nov-2017 15:47:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1ICV.D

Injection Date:	26-Oct-2017 22:25:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	icv			Worklist Smp#:	13
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: CCVIS 500-407268/4 Calibration Date: 10/27/2017 10:01

Instrument ID: CMS01 Calib Start Date: 10/26/2017 16:56

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 10/26/2017 21:55

Lab File ID: 1C1027.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	0.4367	0.4511	0.0100	8.26	8.00	3.3	20.0
Phenol	Ave	1.450	1.437	0.8000	7.93	8.00	-0.9	20.0
Bis(2-chloroethyl)ether	Ave	1.106	1.025	0.7000	7.42	8.00	-7.3	20.0
2-Chlorophenol	Ave	1.229	1.201	0.8000	7.82	8.00	-2.3	20.0
2-Methylphenol	Ave	1.016	0.9788	0.7000	7.71	8.00	-3.7	20.0
2,2'-oxybis[1-chloropropane]	Ave	3.199	2.942	0.0100	7.36	8.00	-8.0	20.0
3 & 4 Methylphenol	Ave	1.252	1.161	0.6000	7.42	8.00	-7.3	20.0
N-Nitrosodi-n-propylamine	Ave	1.014	0.8599	0.5000	6.79	8.00	-15.2	20.0
Acetophenone	Ave	1.913	1.681	0.0100	7.03	8.00	-12.1	20.0
Hexachloroethane	Ave	0.6018	0.5727	0.3000	7.61	8.00	-4.8	20.0
Nitrobenzene	Ave	0.3468	0.3485	0.2000	8.04	8.00	0.5	20.0
Isophorone	Ave	0.6001	0.5624	0.4000	7.50	8.00	-6.3	20.0
2-Nitrophenol	Ave	0.1735	0.1679	0.1000	7.74	8.00	-3.2	20.0
2,4-Dimethylphenol	Ave	0.2983	0.2833	0.2000	7.60	8.00	-5.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.3459	0.3279	0.3000	7.58	8.00	-5.2	20.0
2,4-Dichlorophenol	Ave	0.2881	0.2789	0.2000	7.74	8.00	-3.2	20.0
Naphthalene	Ave	0.9538	0.9381	0.7000	7.87	8.00	-1.6	20.0
4-Chloroaniline	Ave	0.3918	0.3823	0.0100	7.81	8.00	-2.4	20.0
Hexachlorobutadiene	Ave	0.1704	0.1666	0.0100	7.82	8.00	-2.3	20.0
Caprolactam	Ave	0.0847	0.0793	0.0100	7.49	8.00	-6.4	20.0
4-Chloro-3-methylphenol	Ave	0.2791	0.2688	0.2000	7.70	8.00	-3.7	20.0
2-Methylnaphthalene	Ave	0.6660	0.6270	0.4000	7.53	8.00	-5.9	20.0
Hexachlorocyclopentadiene	Ave	0.3841	0.3660	0.0500	7.62	8.00	-4.7	20.0
2,4,6-Trichlorophenol	Ave	0.4117	0.3839	0.2000	7.46	8.00	-6.7	20.0
2,4,5-Trichlorophenol	Ave	0.4153	0.4037	0.2000	7.78	8.00	-2.8	20.0
1,1'-Biphenyl	Ave	1.516	1.445	0.0100	7.63	8.00	-4.7	20.0
2-Chloronaphthalene	Ave	1.272	1.201	0.8000	7.56	8.00	-5.6	20.0
2-Nitroaniline	Ave	0.3392	0.3086	0.0100	7.28	8.00	-9.0	20.0
Dimethyl phthalate	Ave	1.287	1.187	0.0100	7.38	8.00	-7.7	20.0
2,6-Dinitrotoluene	Ave	0.2835	0.2872	0.2000	8.11	8.00	1.3	20.0
Acenaphthylene	Ave	1.963	1.862	0.9000	7.59	8.00	-5.1	20.0
3-Nitroaniline	Ave	0.2699	0.2638	0.0100	7.82	8.00	-2.2	20.0
2,4-Dinitrophenol	Ave	0.1519	0.1447	0.0100	15.2	16.0	-4.7	20.0
Acenaphthene	Ave	1.226	1.208	0.9000	7.88	8.00	-1.5	20.0
4-Nitrophenol	Ave	0.1869	0.1810	0.0100	15.5	16.0	-3.1	20.0
2,4-Dinitrotoluene	Lin1		0.3522	0.2000	7.40	8.00	-7.5	20.0
Dibenzofuran	Ave	1.713	1.642	0.8000	7.67	8.00	-4.1	20.0
Diethyl phthalate	Ave	1.226	1.173	0.0100	7.66	8.00	-4.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.6302	0.6002	0.4000	7.62	8.00	-4.8	20.0
4-Nitroaniline	Ave	0.2450	0.2447	0.0100	7.99	8.00	-0.2	20.0
Fluorene	Ave	1.298	1.248	0.9000	7.69	8.00	-3.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: CCVIS 500-407268/4 Calibration Date: 10/27/2017 10:01

Instrument ID: CMS01 Calib Start Date: 10/26/2017 16:56

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 10/26/2017 21:55

Lab File ID: 1C1027.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4,6-Dinitro-2-methylphenol	Ave	0.1156	0.1194	0.0100	16.5	16.0	3.2	20.0
N-Nitrosodiphenylamine	Ave	0.5442	0.5163	0.0100	7.59	8.00	-5.1	20.0
4-Bromophenyl phenyl ether	Ave	0.2061	0.1891	0.1000	7.34	8.00	-8.2	20.0
Hexachlorobenzene	Ave	0.2101	0.1978	0.1000	7.53	8.00	-5.9	20.0
Atrazine	Ave	0.1692	0.1640	0.0100	7.75	8.00	-3.1	20.0
Pentachlorophenol	Ave	0.1204	0.1209	0.0500	16.1	16.0	0.4	20.0
Phenanthrene	Ave	1.115	1.066	0.7000	7.65	8.00	-4.4	20.0
Anthracene	Ave	1.131	1.101	0.7000	7.78	8.00	-2.7	20.0
Carbazole	Ave	0.9589	0.9094	0.0100	7.59	8.00	-5.2	20.0
Di-n-butyl phthalate	Ave	1.184	1.117	0.0100	7.55	8.00	-5.7	20.0
Fluoranthene	Ave	1.113	1.064	0.6000	7.65	8.00	-4.3	20.0
Pyrene	Ave	1.416	1.385	0.6000	7.83	8.00	-2.2	20.0
Butyl benzyl phthalate	Ave	0.6654	0.6445	0.0100	7.75	8.00	-3.1	20.0
3,3'-Dichlorobenzidine	Ave	0.4338	0.4150	0.0100	7.65	8.00	-4.3	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9029	0.8629	0.0100	7.65	8.00	-4.4	20.0
Benzo[a]anthracene	Ave	1.287	1.206	0.8000	7.50	8.00	-6.3	20.0
Chrysene	Ave	1.167	1.117	0.7000	7.66	8.00	-4.2	20.0
Di-n-octyl phthalate	Ave	1.259	1.172	0.0100	7.45	8.00	-6.9	20.0
Benzo[b]fluoranthene	Ave	1.160	1.095	0.7000	7.55	8.00	-5.6	20.0
Benzo[k]fluoranthene	Ave	1.174	1.131	0.7000	7.71	8.00	-3.6	20.0
Benzo[a]pyrene	Ave	1.164	1.120	0.7000	7.70	8.00	-3.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.261	1.275	0.5000	8.09	8.00	1.1	20.0
Dibenz(a,h)anthracene	Ave	1.048	1.042	0.4000	7.95	8.00	-0.6	20.0
Benzo[g,h,i]perylene	Ave	1.104	1.067	0.5000	7.73	8.00	-3.3	20.0
2-Fluorophenol (Surr)	Qua2		0.9161	0.0100	7.57	8.00	-5.4	20.0
Phenol-d5 (Surr)	Ave	1.393	1.474	0.0100	8.47	8.00	5.8	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3749	0.3824	0.0100	8.16	8.00	2.0	20.0
2-Fluorobiphenyl (Surr)	Ave	1.348	1.303	0.0100	7.73	8.00	-3.3	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1679	0.1613	0.0100	7.69	8.00	-3.9	20.0
Terphenyl-d14 (Surr)	Ave	0.8119	0.7943	0.0100	7.83	8.00	-2.2	20.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1C1027.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Oct-2017 10:01:30 ALS Bottle#: 2 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ccvis
Misc. Info.: 500-0048660-002
Operator ID: AD Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 11:17:58 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: rynkarg Date: 27-Oct-2017 11:17:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	97	78014	3.20	3.20	
* 2 Naphthalene-d8	136	7.586	7.586	0.000	99	295414	3.20	3.20	
* 3 Acenaphthene-d10	164	9.070	9.070	0.000	95	149913	3.20	3.20	
* 4 Phenanthrene-d10	188	10.335	10.335	0.000	98	246350	3.20	3.20	
* 5 Chrysene-d12	240	13.839	13.839	0.000	99	192747	3.20	3.20	
* 6 Perylene-d12	264	17.853	17.853	0.000	98	190327	3.20	3.20	
$ 7 2-Fluorophenol	112	5.427	5.427	0.000	95	178663	8.00	7.57	
$ 8 Phenol-d5	99	6.173	6.173	0.000	94	287456	8.00	8.47	
$ 9 Nitrobenzene-d5	82	6.968	6.968	0.000	90	282434	8.00	8.16	
$ 10 2-Fluorobiphenyl	172	8.470	8.470	0.000	98	488357	8.00	7.73	
$ 11 2,4,6-Tribromophenol	330	9.735	9.735	0.000	94	60465	8.00	7.69	
$ 12 Terphenyl-d14	244	12.018	12.018	0.000	99	382764	8.00	7.83	
13 1,4-Dioxane	88	3.872	3.872	0.000	86	49336	8.00	7.18	
14 N-Nitrosodimethylamine	42	4.176	4.176	0.000	56	224420	8.00	7.79	
15 Pyridine	79	4.228	4.228	0.000	93	408829	16.0	15.2	
25 Benzaldehyde	77	6.150	6.150	0.000	95	87986	8.00	8.26	
26 Phenol	94	6.188	6.188	0.000	96	280341	8.00	7.93	
27 Aniline	93	6.235	6.235	0.000	98	347160	8.00	7.47	
28 Bis(2-chloroethyl)ether	93	6.269	6.269	0.000	97	199982	8.00	7.42	
29 2-Chlorophenol	128	6.345	6.345	0.000	97	234209	8.00	7.82	
30 n-Decane	43	6.364	6.364	0.000	70	440484	8.00	7.81	
31 1,3-Dichlorobenzene	146	6.478	6.478	0.000	98	286928	8.00	7.84	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	94	296651	8.00	7.89	
36 Benzyl alcohol	108	6.611	6.611	0.000	91	158268	8.00	7.52	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	95	281119	8.00	7.82	
38 2-Methylphenol	107	6.687	6.687	0.000	88	190894	8.00	7.71	
39 2,2'-oxybis[1-chloropropan	45	6.716	6.716	0.000	88	573777	8.00	7.36	
40 Indene	116	6.739	6.739	0.000	91	912765	16.0	15.5	
42 3 & 4 Methylphenol	108	6.811	6.811	0.000	97	226445	8.00	7.42	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.825	6.825	0.000	93	167705	8.00	6.79	
44 Acetophenone	105	6.834	6.834	0.000	95	327907	8.00	7.03	
45 Hexachloroethane	117	6.953	6.953	0.000	91	111696	8.00	7.61	
46 Nitrobenzene	77	6.982	6.982	0.000	94	257342	8.00	8.04	
48 Isophorone	82	7.177	7.177	0.000	96	415384	8.00	7.50	
50 2-Nitrophenol	139	7.248	7.248	0.000	85	124031	8.00	7.74	
51 2,4-Dimethylphenol	122	7.253	7.253	0.000	88	209230	8.00	7.60	
52 Bis(2-chloroethoxy)methane	93	7.329	7.329	0.000	98	242135	8.00	7.58	
54 Benzoic acid	122	7.358	7.358	0.000	93	223719	16.0	15.4	
55 2,4-Dichlorophenol	162	7.448	7.448	0.000	94	206007	8.00	7.74	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	93	234431	8.00	7.90	
58 Naphthalene	128	7.605	7.605	0.000	98	692836	8.00	7.87	
60 4-Chloroaniline	127	7.624	7.624	0.000	97	282340	8.00	7.81	
62 2,6-Dichlorophenol	162	7.638	7.638	0.000	97	204760	8.00	7.66	
63 Hexachlorobutadiene	225	7.700	7.700	0.000	97	123033	8.00	7.82	
65 Caprolactam	113	7.914	7.914	0.000	70	58585	8.00	7.49	
66 4-Chloro-3-methylphenol	107	8.009	8.009	0.000	97	198516	8.00	7.70	
68 2-Methylnaphthalene	142	8.180	8.180	0.000	100	463064	8.00	7.53	
70 1-Methylnaphthalene	142	8.266	8.266	0.000	99	421301	8.00	7.59	
72 Hexachlorocyclopentadiene	237	8.318	8.318	0.000	95	137165	8.00	7.62	
73 1,2,4,5-Tetrachlorobenzene	216	8.323	8.323	0.000	96	210910	8.00	7.31	
74 2,4,6-Trichlorophenol	196	8.404	8.404	0.000	90	143889	8.00	7.46	
76 2,4,5-Trichlorophenol	196	8.437	8.437	0.000	96	151313	8.00	7.78	
79 1,1'-Biphenyl	154	8.561	8.561	0.000	95	541643	8.00	7.63	
80 2-Chloronaphthalene	162	8.594	8.594	0.000	98	450103	8.00	7.56	
81 2-Nitroaniline	65	8.656	8.656	0.000	95	115656	8.00	7.28	
82 Dimethyl phthalate	163	8.789	8.789	0.000	99	444996	8.00	7.38	
83 1,3-Dinitrobenzene	168	8.827	8.827	0.000	82	62184	8.00	7.33	
84 2,6-Dinitrotoluene	165	8.851	8.851	0.000	94	107634	8.00	8.11	
86 Acenaphthylene	152	8.951	8.951	0.000	98	698025	8.00	7.59	
88 3-Nitroaniline	138	9.003	9.003	0.000	92	98879	8.00	7.82	
91 2,4-Dinitrophenol	184	9.089	9.089	0.000	94	108478	16.0	15.2	
90 Acenaphthene	154	9.098	9.098	0.000	94	452651	8.00	7.88	
92 4-Nitrophenol	109	9.117	9.117	0.000	85	135695	16.0	15.5	
95 2,4-Dinitrotoluene	165	9.198	9.198	0.000	92	131987	8.00	7.40	
97 Dibenzofuran	168	9.241	9.241	0.000	96	615497	8.00	7.67	
99 2,3,4,6-Tetrachlorophenol	232	9.336	9.336	0.000	96	110160	8.00	7.46	
100 Diethyl phthalate	149	9.379	9.379	0.000	98	439664	8.00	7.66	
101 Hexadecane	57	9.379	9.379	0.000	77	244341	8.00	7.49	
103 4-Chlorophenyl phenyl ethe	204	9.507	9.507	0.000	90	224941	8.00	7.62	
106 4-Nitroaniline	138	9.521	9.521	0.000	85	91700	8.00	7.99	
104 Fluorene	166	9.531	9.531	0.000	95	467903	8.00	7.69	
109 4,6-Dinitro-2-methylphenol	198	9.550	9.550	0.000	93	147021	16.0	16.5	
98 Diphenylamine	169	9.602	9.602	0.000	94	317992	6.80	6.40	
111 N-Nitrosodiphenylamine	169	9.602	9.602	0.000	66	317992	8.00	7.59	
113 1,2-Diphenylhydrazine	77	9.640	9.640	0.000	98	475099	8.00	7.52	
119 4-Bromophenyl phenyl ether	248	9.921	9.921	0.000	84	116479	8.00	7.34	
122 Hexachlorobenzene	284	10.011	10.011	0.000	98	121810	8.00	7.53	
123 Atrazine	200	10.021	10.021	0.000	87	101012	8.00	7.75	
124 n-Octadecane	43	10.154	10.154	0.000	85	386405	8.00	7.64	
125 Pentachlorophenol	266	10.163	10.163	0.000	97	148959	16.0	16.1	
127 Phenanthrene	178	10.358	10.358	0.000	97	656381	8.00	7.65	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.401	10.401	0.000	99	677974	8.00	7.78	
129 Carbazole	167	10.525	10.525	0.000	96	560061	8.00	7.59	
133 Di-n-butyl phthalate	149	10.791	10.791	0.000	99	687635	8.00	7.55	
136 Fluoranthene	202	11.581	11.581	0.000	98	655557	8.00	7.65	
138 Benzidine	184	11.690	11.690	0.000	99	199307	8.00	6.52	
141 Pyrene	202	11.871	11.871	0.000	98	667596	8.00	7.83	
147 Butyl benzyl phthalate	149	12.708	12.708	0.000	97	310557	8.00	7.75	
149 3,3'-Dichlorobenzidine	252	13.730	13.730	0.000	99	199967	8.00	7.65	
150 Bis(2-ethylhexyl) phthalat	149	13.801	13.801	0.000	86	415807	8.00	7.65	
151 Benzo[a]anthracene	228	13.820	13.820	0.000	98	581227	8.00	7.50	
152 Chrysene	228	13.896	13.896	0.000	99	538471	8.00	7.66	
155 Di-n-octyl phthalate	149	15.390	15.390	0.000	95	721735	8.00	7.45	
157 Benzo[b]fluoranthene	252	16.545	16.545	0.000	98	521114	8.00	7.55	
158 Benzo[k]fluoranthene	252	16.640	16.640	0.000	99	538195	8.00	7.71	
160 Benzo[a]pyrene	252	17.658	17.658	0.000	98	532859	8.00	7.70	
163 Indeno[1,2,3-cd]pyrene	276	20.673	20.673	0.000	99	606699	8.00	8.09	
164 Dibenz(a,h)anthracene	278	20.740	20.740	0.000	97	495881	8.00	7.95	
165 Benzo[g,h,i]perylene	276	21.396	21.396	0.000	97	507852	8.00	7.73	

Reagents:

SMlst1_5uLL8X_00107 Amount Added: 1.00 Units: mL

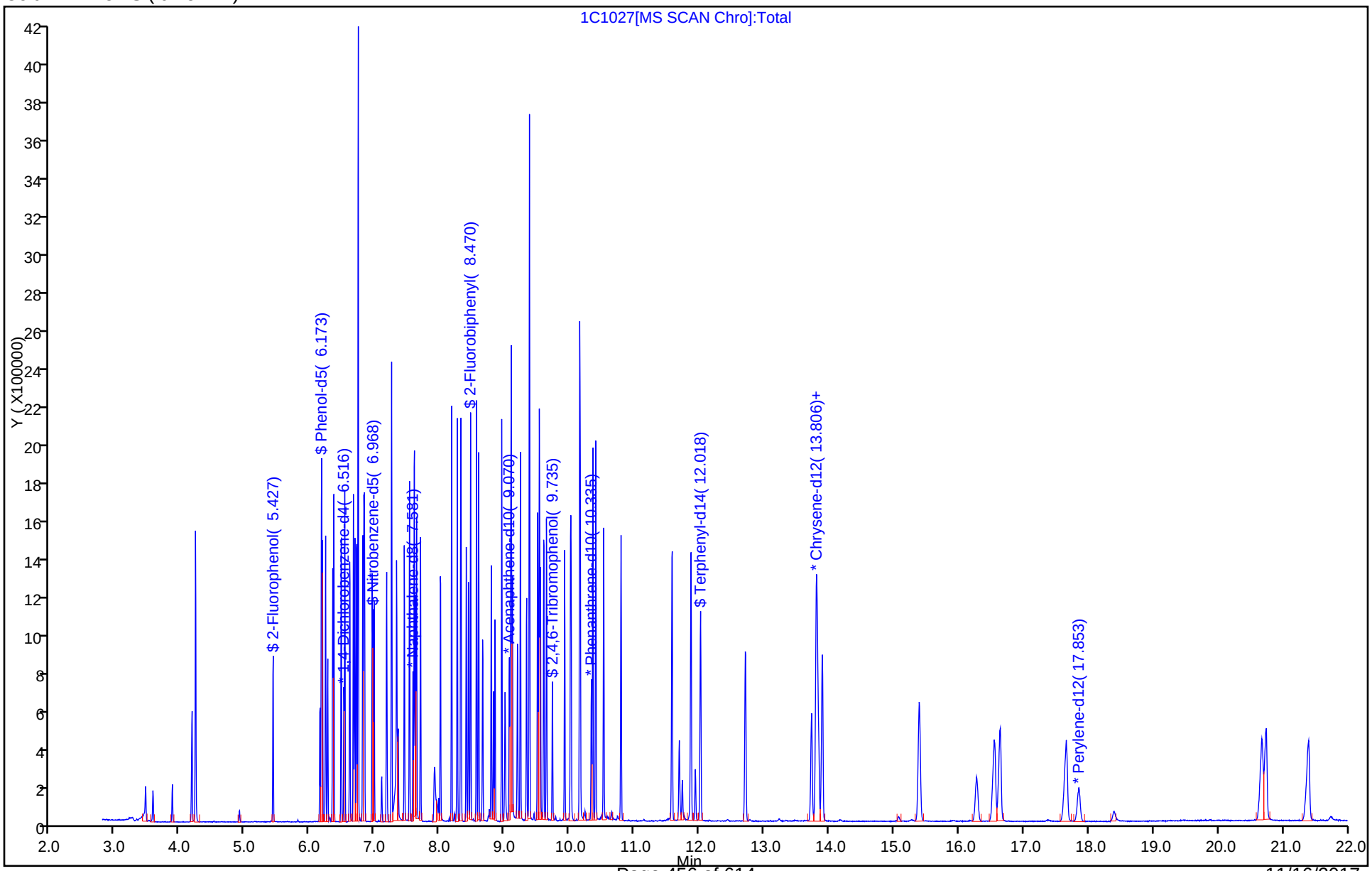
Report Date: 27-Oct-2017 11:18:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1C1027.D

Injection Date:	27-Oct-2017 10:01:30	Instrument ID:	CMS01	Operator ID:	AD
Lims ID:	ccvis			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: ICV 500-402944/13 Calibration Date: 09/27/2017 18:26

Instrument ID: CMS12 Calib Start Date: 09/27/2017 13:02

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 09/27/2017 17:56

Lab File ID: L1ICV.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Lin1		0.1561	0.0100	<32.0	10.0	-63.6*	30.0
Phenol	Ave	1.329	1.389	0.8000	10.5	10.0	4.6	30.0
Bis(2-chloroethyl)ether	Ave	1.197	1.100	0.7000	9.19	10.0	-8.1	30.0
2-Chlorophenol	Ave	1.216	1.226	0.8000	10.1	10.0	0.8	30.0
2-Methylphenol	Ave	0.9165	0.8945	0.7000	9.76	10.0	-2.4	30.0
2,2'-oxybis[1-chloropropane]	Ave	3.919	3.095	0.0100	7.90	10.0	-21.0	30.0
3 & 4 Methylphenol	Ave	1.118	1.085	0.6000	9.70	10.0	-3.0	30.0
N-Nitrosodi-n-propylamine	Ave	0.8054	0.7134	0.5000	8.86	10.0	-11.4	30.0
Acetophenone	Ave	1.645	1.453	0.0100	8.83	10.0	-11.7	30.0
Hexachloroethane	Ave	0.6060	0.5645	0.3000	9.32	10.0	-6.8	30.0
Nitrobenzene	Ave	0.2860	0.2948	0.2000	10.3	10.0	3.1	30.0
Isophorone	Ave	0.5682	0.5252	0.4000	9.24	10.0	-7.6	30.0
2-Nitrophenol	Ave	0.1743	0.1730	0.1000	9.93	10.0	-0.7	30.0
2,4-Dimethylphenol	Ave	0.2761	0.2131	0.2000	7.72	10.0	-22.8	30.0
Bis(2-chloroethoxy)methane	Ave	0.3611	0.3373	0.3000	9.34	10.0	-6.6	30.0
2,4-Dichlorophenol	Ave	0.2684	0.2624	0.2000	9.78	10.0	-2.2	30.0
Naphthalene	Ave	0.9313	0.8504	0.7000	9.13	10.0	-8.7	30.0
4-Chloroaniline	Ave	0.4084	0.3497	0.0100	8.56	10.0	-14.4	30.0
Hexachlorobutadiene	Ave	0.2016	0.1970	0.0100	9.77	10.0	-2.3	30.0
Caprolactam	Ave	0.0984	0.0975	0.0100	9.91	10.0	-0.9	30.0
4-Chloro-3-methylphenol	Ave	0.2468	0.2427	0.2000	9.83	10.0	-1.7	30.0
2-Methylnaphthalene	Ave	0.6643	0.5851	0.4000	8.81	10.0	-11.9	30.0
Hexachlorocyclopentadiene	Ave	0.4696	0.3606	0.0500	7.68	10.0	-23.2	30.0
2,4,6-Trichlorophenol	Ave	0.4147	0.4246	0.2000	10.2	10.0	2.4	30.0
2,4,5-Trichlorophenol	Ave	0.4278	0.4334	0.2000	10.1	10.0	1.3	30.0
1,1'-Biphenyl	Ave	1.455	1.388	0.0100	9.54	10.0	-4.6	30.0
2-Chloronaphthalene	Ave	1.201	1.165	0.8000	9.69	10.0	-3.1	30.0
2-Nitroaniline	Ave	0.3622	0.3639	0.0100	10.0	10.0	0.5	30.0
Dimethyl phthalate	Ave	1.380	1.336	0.0100	9.68	10.0	-3.2	30.0
2,6-Dinitrotoluene	Ave	0.2882	0.3115	0.2000	10.8	10.0	8.1	30.0
Acenaphthylene	Ave	1.921	1.806	0.9000	9.40	10.0	-6.0	30.0
3-Nitroaniline	Ave	0.2751	0.2607	0.0100	9.48	10.0	-5.2	30.0
2,4-Dinitrophenol	Ave	0.2035	0.2101	0.0100	20.6	20.0	3.2	30.0
Acenaphthene	Ave	1.236	1.158	0.9000	9.37	10.0	-6.3	30.0
4-Nitrophenol	Ave	0.1635	0.1729	0.0100	21.2	20.0	5.8	30.0
2,4-Dinitrotoluene	Ave	0.3861	0.4133	0.2000	10.7	10.0	7.0	30.0
Dibenzofuran	Ave	1.734	1.631	0.8000	9.41	10.0	-5.9	30.0
Diethyl phthalate	Ave	1.322	1.232	0.0100	9.32	10.0	-6.8	30.0
4-Chlorophenyl phenyl ether	Ave	0.6830	0.6571	0.4000	9.62	10.0	-3.8	30.0
Fluorene	Ave	1.372	1.281	0.9000	9.34	10.0	-6.6	30.0
4-Nitroaniline	Ave	0.2567	0.2275	0.0100	8.86	10.0	-11.4	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: ICV 500-402944/13 Calibration Date: 09/27/2017 18:26

Instrument ID: CMS12 Calib Start Date: 09/27/2017 13:02

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 09/27/2017 17:56

Lab File ID: L1ICV.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4,6-Dinitro-2-methylphenol	Ave	0.1377	0.1395	0.0100	20.3	20.0	1.3	30.0
N-Nitrosodiphenylamine	Ave	0.4969	0.4639	0.0100	9.34	10.0	-6.6	30.0
4-Bromophenyl phenyl ether	Ave	0.2339	0.2241	0.1000	9.58	10.0	-4.2	30.0
Hexachlorobenzene	Ave	0.2807	0.2777	0.1000	9.89	10.0	-1.1	30.0
Atrazine	Ave	0.1763	0.1582	0.0100	8.97	10.0	-10.3	30.0
Pentachlorophenol	Ave	0.1735	0.1861	0.0500	21.4	20.0	7.2	30.0
Phenanthrene	Ave	1.026	0.9557	0.7000	9.31	10.0	-6.9	30.0
Anthracene	Ave	1.057	0.9735	0.7000	9.21	10.0	-7.9	30.0
Carbazole	Ave	0.9034	0.8477	0.0100	9.38	10.0	-6.2	30.0
Di-n-butyl phthalate	Ave	1.196	1.139	0.0100	9.52	10.0	-4.8	30.0
Fluoranthene	Ave	1.161	1.120	0.6000	9.65	10.0	-3.5	30.0
Pyrene	Ave	1.150	1.129	0.6000	9.82	10.0	-1.8	30.0
Butyl benzyl phthalate	Ave	0.5428	0.5449	0.0100	10.0	10.0	0.4	30.0
3,3'-Dichlorobenzidine	Ave	0.3991	0.3802	0.0100	9.53	10.0	-4.7	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.7741	0.7733	0.0100	9.99	10.0	-0.1	30.0
Benzo[a]anthracene	Ave	1.137	1.090	0.8000	9.59	10.0	-4.1	30.0
Chrysene	Ave	1.082	1.062	0.7000	9.82	10.0	-1.8	30.0
Di-n-octyl phthalate	Ave	1.356	1.373	0.0100	10.1	10.0	1.2	30.0
Benzo[b]fluoranthene	Ave	1.002	1.105	0.7000	11.0	10.0	10.3	30.0
Benzo[k]fluoranthene	Ave	1.004	1.106	0.7000	11.0	10.0	10.2	30.0
Benzo[a]pyrene	Ave	0.9479	1.000	0.7000	10.5	10.0	5.5	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.182	1.224	0.5000	10.4	10.0	3.6	30.0
Dibenz(a,h)anthracene	Ave	0.9359	1.034	0.4000	11.0	10.0	10.5	30.0
Benzo[g,h,i]perylene	Ave	0.9780	0.9749	0.5000	9.97	10.0	-0.3	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1ICV.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 27-Sep-2017 18:26:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: icv
Misc. Info.: 500-0048054-013
Operator ID: DA Instrument ID: CMS12
Sublist:

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 11:16:42 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 28-Sep-2017 11:16:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.421	6.422	-0.001	96	299883	3.20	3.20	
* 2 Naphthalene-d8	136	7.482	7.482	0.000	99	1176792	3.20	3.20	
* 3 Acenaphthene-d10	164	8.956	8.956	0.000	97	584917	3.20	3.20	
* 4 Phenanthrene-d10	188	10.212	10.212	0.000	97	1155594	3.20	3.20	
* 5 Chrysene-d12	240	13.550	13.550	0.000	99	1188691	3.20	3.20	
* 6 Perylene-d12	264	17.274	17.269	0.005	98	1262084	3.20	3.20	
13 1,4-Dioxane	88	3.796	3.792	0.004	87	329717	10.0	10.3	
14 N-Nitrosodimethylamine	42	4.110	4.101	0.009	70	985431	10.0	9.72	
15 Pyridine	79	4.153	4.153	0.000	77	2141146	20.0	21.0	
23 Benzaldehyde	77	6.055	6.055	0.000	88	146268	10.0	3.64	
25 Phenol	94	6.098	6.103	-0.005	92	1301807	10.0	10.5	
26 Aniline	93	6.146	6.146	0.000	95	1477251	10.0	8.26	
27 Bis(2-chloroethyl)ether	93	6.179	6.179	0.000	92	1030545	10.0	9.19	
29 2-Chlorophenol	128	6.250	6.250	0.000	98	1148975	10.0	10.1	
30 n-Decane	43	6.269	6.269	0.000	91	1839356	10.0	10.2	
31 1,3-Dichlorobenzene	146	6.383	6.379	0.004	99	1248711	10.0	9.43	
32 1,4-Dichlorobenzene	146	6.436	6.436	0.000	94	1267238	10.0	9.46	
33 Benzyl alcohol	108	6.521	6.517	0.004	92	736802	10.0	9.41	
34 1,2-Dichlorobenzene	146	6.569	6.569	0.000	98	1237312	10.0	9.37	
36 2-Methylphenol	107	6.597	6.593	0.004	95	838253	10.0	9.76	
35 2,2'-oxybis[1-chloropropan	45	6.621	6.621	0.000	90	2900327	10.0	7.90	
37 Indene	116	6.645	6.640	0.005	90	3183726	20.0	16.0	
42 3 & 4 Methylphenol	108	6.721	6.716	0.005	94	1016352	10.0	9.70	
41 N-Nitrosodi-n-propylamine	70	6.735	6.735	0.000	91	668519	10.0	8.86	
40 Acetophenone	105	6.745	6.740	0.005	93	1361470	10.0	8.83	
44 Hexachloroethane	117	6.854	6.854	0.000	95	529037	10.0	9.32	
45 Nitrobenzene	77	6.888	6.888	0.000	95	1083923	10.0	10.3	
47 Isophorone	82	7.083	7.083	-0.001	98	1931429	10.0	9.24	
48 2-Nitrophenol	139	7.154	7.149	0.005	91	636080	10.0	9.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
49 2,4-Dimethylphenol	122	7.163	7.159	0.004	94	783620	10.0	7.72	
51 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	94	1240431	10.0	9.34	
52 Benzoic acid	122	7.301	7.287	0.014	87	1581304	20.0	20.6	
54 2,4-Dichlorophenol	162	7.354	7.349	0.005	97	964972	10.0	9.78	
55 1,2,4-Trichlorobenzene	180	7.430	7.425	0.005	95	1146027	10.0	9.95	
56 Naphthalene	128	7.501	7.501	0.000	98	3127279	10.0	9.13	
57 4-Chloroaniline	127	7.525	7.520	0.005	96	1286092	10.0	8.56	
58 2,6-Dichlorophenol	162	7.539	7.534	0.005	97	944246	10.0	9.41	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	724325	10.0	9.77	
64 Caprolactam	113	7.843	7.839	0.004	84	358357	10.0	9.91	
65 4-Chloro-3-methylphenol	107	7.915	7.910	0.005	91	892401	10.0	9.83	
67 2-Methylnaphthalene	142	8.072	8.072	0.000	95	2151834	10.0	8.81	
68 1-Methylnaphthalene	142	8.162	8.157	0.005	94	2045263	10.0	8.93	
69 Hexachlorocyclopentadiene	237	8.210	8.210	0.000	98	659161	10.0	7.68	
70 1,2,4,5-Tetrachlorobenzene	216	8.219	8.219	0.000	96	1138994	10.0	9.77	
72 2,4,6-Trichlorophenol	196	8.300	8.300	0.000	92	776040	10.0	10.2	
73 2,4,5-Trichlorophenol	196	8.333	8.333	0.000	96	792228	10.0	10.1	
75 1,1'-Biphenyl	154	8.457	8.457	0.000	95	2537674	10.0	9.54	
76 2-Chloronaphthalene	162	8.485	8.485	0.000	97	2128544	10.0	9.69	
78 2-Nitroaniline	65	8.557	8.552	0.005	87	665115	10.0	10.0	
82 Dimethyl phthalate	163	8.690	8.690	0.000	97	2442219	10.0	9.68	
83 1,3-Dinitrobenzene	168	8.728	8.723	0.005	83	401764	10.0	10.4	
84 2,6-Dinitrotoluene	165	8.747	8.742	0.005	92	569283	10.0	10.8	
85 Acenaphthylene	152	8.842	8.842	0.000	98	3300494	10.0	9.40	
86 3-Nitroaniline	138	8.904	8.904	0.000	96	476603	10.0	9.48	
88 2,4-Dinitrophenol	184	8.985	8.985	0.000	74	767878	20.0	20.6	
87 Acenaphthene	154	8.985	8.985	0.000	94	2117234	10.0	9.37	
89 4-Nitrophenol	109	9.023	9.018	0.005	99	632066	20.0	21.2	
91 2,4-Dinitrotoluene	165	9.094	9.089	0.005	93	755363	10.0	10.7	
92 Dibenzofuran	168	9.127	9.127	0.000	97	2982006	10.0	9.41	
95 2,3,4,6-Tetrachlorophenol	232	9.227	9.223	0.004	72	709997	10.0	9.97	
98 Hexadecane	57	9.270	9.270	0.000	80	1371985	10.0	9.21	
97 Diethyl phthalate	149	9.275	9.270	0.005	97	2251959	10.0	9.32	
100 4-Chlorophenyl phenyl ethe	204	9.394	9.394	0.000	91	1201054	10.0	9.62	
102 Fluorene	166	9.417	9.418	-0.001	94	2342378	10.0	9.34	
103 4-Nitroaniline	138	9.422	9.418	0.004	65	415786	10.0	8.86	
104 4,6-Dinitro-2-methylphenol	198	9.446	9.441	0.005	89	1007197	20.0	20.3	
105 Diphenylamine	169	9.489	9.489	0.000	93	1675270	8.50	7.89	
106 N-Nitrosodiphenylamine	169	9.489	9.489	0.000	65	1675270	10.0	9.34	
107 1,2-Diphenylhydrazine	77	9.532	9.527	0.005	94	2238208	10.0	9.68	
114 4-Bromophenyl phenyl ether	248	9.807	9.808	-0.001	64	809150	10.0	9.58	
117 Hexachlorobenzene	284	9.898	9.893	0.005	96	1002705	10.0	9.89	
118 Atrazine	200	9.917	9.912	0.005	76	571325	10.0	8.97	
123 n-Octadecane	43	10.040	10.036	0.004	95	1233903	10.0	9.74	
120 Pentachlorophenol	266	10.050	10.041	0.009	86	1343922	20.0	21.4	
126 Phenanthrene	178	10.235	10.236	-0.001	98	3451063	10.0	9.31	
127 Anthracene	178	10.278	10.278	0.000	99	3515422	10.0	9.21	
128 Carbazole	167	10.397	10.392	0.005	96	3061181	10.0	9.38	
130 Di-n-butyl phthalate	149	10.654	10.654	0.000	99	4113516	10.0	9.52	
135 Fluoranthene	202	11.405	11.401	0.004	99	4044663	10.0	9.65	
136 Benzidine	184	11.515	11.510	0.005	97	794154	10.0	5.24	
137 Pyrene	202	11.686	11.681	0.005	96	4194683	10.0	9.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
145 Butyl benzyl phthalate	149	12.480	12.480	0.000	95	2024014	10.0	10.0	
147 3,3'-Dichlorobenzidine	252	13.450	13.450	0.000	99	1412359	10.0	9.53	
150 Bis(2-ethylhexyl) phthalat	149	13.512	13.512	0.000	96	2872345	10.0	9.99	
149 Benzo[a]anthracene	228	13.531	13.531	0.000	99	4048907	10.0	9.59	
151 Chrysene	228	13.612	13.607	0.005	97	3946067	10.0	9.82	
154 Di-n-octyl phthalate	149	15.005	15.001	0.004	97	4956852	10.0	10.1	
156 Benzo[b]fluoranthene	252	16.090	16.080	0.010	98	4359517	10.0	11.0	
157 Benzo[k]fluoranthene	252	16.175	16.161	0.014	99	4363608	10.0	11.0	
158 Benzo[a]pyrene	252	17.107	17.098	0.009	97	3943356	10.0	10.5	
162 Indeno[1,2,3-cd]pyrene	276	20.213	20.208	0.005	99	4828108	10.0	10.4	
163 Dibenz(a,h)anthracene	278	20.284	20.275	0.009	94	4077147	10.0	11.0	
164 Benzo[g,h,i]perylene	276	20.883	20.874	0.009	79	3845192	10.0	9.97	

Reagents:

SMlst1_5uLICV_00037 Amount Added: 1.00 Units: mL

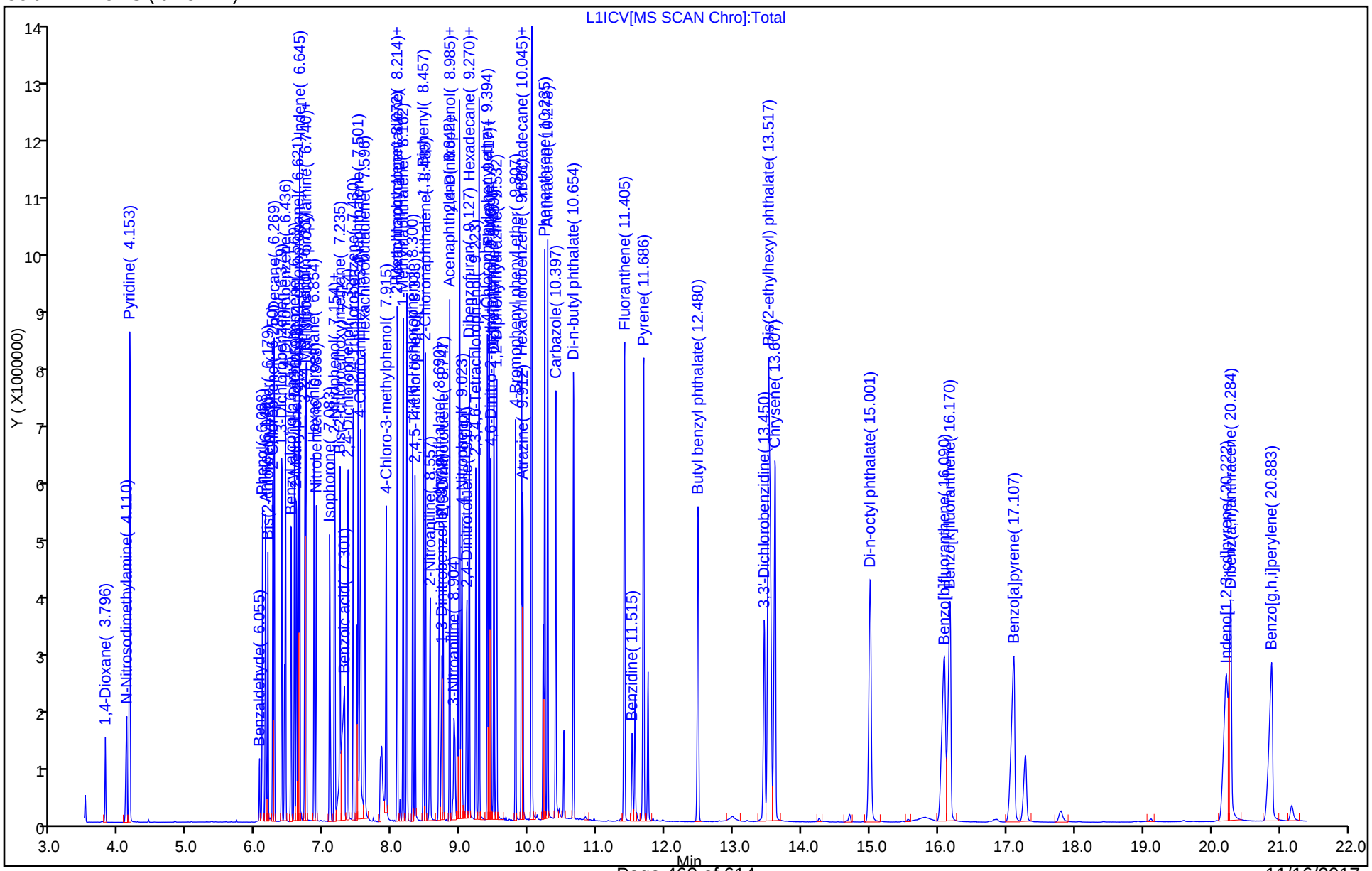
Report Date: 28-Sep-2017 11:16:46 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1ICV.D

Injection Date:	27-Sep-2017 18:26:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	icv			Worklist Smp#:	13
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: CCVIS 500-407256/2 Calibration Date: 10/27/2017 09:17

Instrument ID: CMS12 Calib Start Date: 09/27/2017 13:02

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 09/27/2017 17:56

Lab File ID: 12C1027.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Lin1		0.2758	0.0100	<32.0	8.00	-16.9	20.0
Phenol	Ave	1.329	1.379	0.8000	8.30	8.00	3.8	20.0
Bis(2-chloroethyl)ether	Ave	1.197	0.9697	0.7000	6.48	8.00	-19.0	20.0
2-Chlorophenol	Ave	1.216	1.205	0.8000	7.92	8.00	-0.9	20.0
2,2'-oxybis[1-chloropropane]	Ave	3.919	1.731	0.0100	3.53	8.00	-55.8*	20.0
2-Methylphenol	Ave	0.9165	0.8791	0.7000	7.67	8.00	-4.1	20.0
Acetophenone	Ave	1.645	1.503	0.0100	7.31	8.00	-8.6	20.0
N-Nitrosodi-n-propylamine	Ave	0.8054	0.7784	0.5000	7.73	8.00	-3.4	20.0
3 & 4 Methylphenol	Ave	1.118	1.070	0.6000	7.65	8.00	-4.3	20.0
Hexachloroethane	Ave	0.6060	0.6443	0.3000	8.51	8.00	6.3	20.0
Nitrobenzene	Ave	0.2860	0.3242	0.2000	9.07	8.00	13.4	20.0
Isophorone	Ave	0.5682	0.5360	0.4000	7.55	8.00	-5.7	20.0
2-Nitrophenol	Ave	0.1743	0.1749	0.1000	8.03	8.00	0.3	20.0
2,4-Dimethylphenol	Ave	0.2761	0.2641	0.2000	7.65	8.00	-4.3	20.0
Bis(2-chloroethoxy)methane	Ave	0.3611	0.3557	0.3000	7.88	8.00	-1.5	20.0
2,4-Dichlorophenol	Ave	0.2684	0.3058	0.2000	9.12	8.00	14.0	20.0
Naphthalene	Ave	0.9313	0.9451	0.7000	8.12	8.00	1.5	20.0
4-Chloroaniline	Ave	0.4084	0.3869	0.0100	7.58	8.00	-5.3	20.0
Hexachlorobutadiene	Ave	0.2016	0.2437	0.0100	9.67	8.00	20.9*	20.0
4-Chloro-3-methylphenol	Ave	0.2468	0.2778	0.2000	9.00	8.00	12.6	20.0
2-Methylnaphthalene	Ave	0.6643	0.6663	0.4000	8.02	8.00	0.3	20.0
Caprolactam	Ave	0.0984	0.1037	0.0100	8.44	8.00	5.4	20.0
Hexachlorocyclopentadiene	Ave	0.4696	0.5195	0.0500	8.85	8.00	10.6	20.0
2,4,6-Trichlorophenol	Ave	0.4147	0.4708	0.2000	9.08	8.00	13.5	20.0
2,4,5-Trichlorophenol	Ave	0.4278	0.4780	0.2000	8.94	8.00	11.8	20.0
1,1'-Biphenyl	Ave	1.455	1.572	0.0100	8.64	8.00	8.0	20.0
2-Chloronaphthalene	Ave	1.201	1.293	0.8000	8.61	8.00	7.6	20.0
2-Nitroaniline	Ave	0.3622	0.4220	0.0100	9.32	8.00	16.5	20.0
Dimethyl phthalate	Ave	1.380	1.441	0.0100	8.36	8.00	4.5	20.0
2,6-Dinitrotoluene	Ave	0.2882	0.3236	0.2000	8.98	8.00	12.3	20.0
Acenaphthylene	Ave	1.921	1.910	0.9000	7.96	8.00	-0.5	20.0
3-Nitroaniline	Ave	0.2751	0.2659	0.0100	7.73	8.00	-3.4	20.0
Acenaphthene	Ave	1.236	1.175	0.9000	7.61	8.00	-4.9	20.0
2,4-Dinitrophenol	Ave	0.2035	0.2137	0.0100	16.8	16.0	5.0	20.0
4-Nitrophenol	Ave	0.1635	0.2178	0.0100	21.3	16.0	33.3*	20.0
2,4-Dinitrotoluene	Ave	0.3861	0.4442	0.2000	9.20	8.00	15.1	20.0
Dibenzofuran	Ave	1.734	1.821	0.8000	8.40	8.00	5.0	20.0
Diethyl phthalate	Ave	1.322	1.489	0.0100	9.01	8.00	12.7	20.0
4-Chlorophenyl phenyl ether	Ave	0.6830	0.7293	0.4000	8.54	8.00	6.8	20.0
Fluorene	Ave	1.372	1.459	0.9000	8.51	8.00	6.4	20.0
4-Nitroaniline	Ave	0.2567	0.2136	0.0100	6.66	8.00	-16.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: CCVIS 500-407256/2 Calibration Date: 10/27/2017 09:17

Instrument ID: CMS12 Calib Start Date: 09/27/2017 13:02

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 09/27/2017 17:56

Lab File ID: 12C1027.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4,6-Dinitro-2-methylphenol	Ave	0.1377	0.1380	0.0100	16.0	16.0	0.3	20.0
N-Nitrosodiphenylamine	Ave	0.4969	0.5063	0.0100	8.15	8.00	1.9	20.0
4-Bromophenyl phenyl ether	Ave	0.2339	0.2570	0.1000	8.79	8.00	9.9	20.0
Hexachlorobenzene	Ave	0.2807	0.3388	0.1000	9.66	8.00	20.7*	20.0
Atrazine	Ave	0.1763	0.1781	0.0100	8.08	8.00	1.0	20.0
Pentachlorophenol	Ave	0.1735	0.1451	0.0500	13.4	16.0	-16.4	20.0
Phenanthrene	Ave	1.026	1.044	0.7000	8.13	8.00	1.7	20.0
Anthracene	Ave	1.057	1.088	0.7000	8.23	8.00	2.9	20.0
Carbazole	Ave	0.9034	0.8793	0.0100	7.79	8.00	-2.7	20.0
Di-n-butyl phthalate	Ave	1.196	1.186	0.0100	7.93	8.00	-0.8	20.0
Fluoranthene	Ave	1.161	1.197	0.6000	8.25	8.00	3.1	20.0
Pyrene	Ave	1.150	1.068	0.6000	7.43	8.00	-7.1	20.0
Butyl benzyl phthalate	Ave	0.5428	0.5480	0.0100	8.08	8.00	1.0	20.0
3,3'-Dichlorobenzidine	Ave	0.3991	0.4576	0.0100	9.17	8.00	14.7	20.0
Benzo[a]anthracene	Ave	1.137	1.176	0.8000	8.28	8.00	3.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7741	0.7553	0.0100	7.80	8.00	-2.4	20.0
Chrysene	Ave	1.082	1.093	0.7000	8.08	8.00	1.0	20.0
Di-n-octyl phthalate	Ave	1.356	1.417	0.0100	8.36	8.00	4.5	20.0
Benzo[b]fluoranthene	Ave	1.002	1.041	0.7000	8.31	8.00	3.9	20.0
Benzo[k]fluoranthene	Ave	1.004	0.9856	0.7000	7.86	8.00	-1.8	20.0
Benzo[a]pyrene	Ave	0.9479	1.080	0.7000	9.12	8.00	14.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.182	1.235	0.5000	8.36	8.00	4.4	20.0
Dibenz(a,h)anthracene	Ave	0.9359	1.016	0.4000	8.68	8.00	8.5	20.0
Benzo[g,h,i]perylene	Ave	0.9780	1.038	0.5000	8.49	8.00	6.2	20.0
2-Fluorophenol (Surr)	Qua2		1.014	0.0100	8.87	8.00	10.8	20.0
Phenol-d5 (Surr)	Lin1		1.256	0.0100	7.59	8.00	-5.1	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3137	0.3318	0.0100	8.46	8.00	5.8	20.0
2-Fluorobiphenyl (Surr)	Ave	1.346	1.451	0.0100	8.63	8.00	7.9	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.3108	0.4250	0.0100	10.9	8.00	36.7*	20.0
Terphenyl-d14 (Surr)	Ave	0.7818	0.7817	0.0100	8.00	8.00	-0.0	20.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12C1027.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Oct-2017 09:17:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ccvis
Misc. Info.: 500-0048658-002
Operator ID: AD Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 12:24:01 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: squiresb Date: 27-Oct-2017 11:35:04

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.654	5.654	0.000	96	291588	3.20	3.20	s
*	2 Naphthalene-d8	136	6.705	6.705	0.000	100	1086046	3.20	3.20	s
*	3 Acenaphthene-d10	164	8.156	8.156	0.000	98	536566	3.20	3.20	s
*	4 Phenanthrene-d10	188	9.387	9.387	0.000	97	1080385	3.20	3.20	s
*	5 Chrysene-d12	240	12.032	12.032	0.000	99	1140138	3.20	3.20	s
*	6 Perylene-d12	264	14.623	14.623	0.000	99	1267089	3.20	3.20	s
$	7 2-Fluorophenol	112	4.589	4.589	0.000	93	738939	8.00	8.87	
$	8 Phenol-d5	99	5.393	5.393	0.000	93	915655	8.00	7.59	
$	9 Nitrobenzene-d5	82	6.116	6.116	0.000	96	900844	8.00	8.46	
$	10 2-Fluorobiphenyl	172	7.595	7.595	0.000	99	1946889	8.00	8.63	
$	11 2,4,6-Tribromophenol	330	8.817	8.817	0.000	74	570044	8.00	10.9	
$	12 Terphenyl-d14	244	10.748	10.748	0.000	100	2228034	8.00	8.00	
	13 1,4-Dioxane	88	2.739	2.739	0.000	88	260733	8.00	8.38	
	14 N-Nitrosodimethylamine	42	3.139	3.139	0.000	71	672337	8.00	6.82	
	15 Pyridine	79	3.167	3.167	0.000	75	1418403	16.0	14.3	
	23 Benzaldehyde	77	5.288	5.288	0.000	87	201024	8.00	6.65	
	26 Aniline	93	5.393	5.393	0.000	94	1191023	8.00	6.85	
	25 Phenol	94	5.407	5.407	0.000	94	1005302	8.00	8.30	
	27 Bis(2-chloroethyl)ether	93	5.440	5.440	0.000	90	706856	8.00	6.48	
	29 2-Chlorophenol	128	5.497	5.497	0.000	96	878202	8.00	7.92	
	30 n-Decane	43	5.535	5.535	0.000	89	1020774	8.00	5.40	
	31 1,3-Dichlorobenzene	146	5.612	5.612	0.000	97	1019193	8.00	7.92	
	32 1,4-Dichlorobenzene	146	5.673	5.673	0.000	93	1029487	8.00	7.90	
	33 Benzyl alcohol	108	5.787	5.787	0.000	90	517700	8.00	6.80	
	34 1,2-Dichlorobenzene	146	5.797	5.797	0.000	97	980509	8.00	7.64	
	37 Indene	116	5.873	5.873	0.000	90	2994248	16.0	15.5	
	35 2,2'-oxybis[1-chloropropan	45	5.883	5.883	0.000	87	1261929	8.00	3.53	
	36 2-Methylphenol	107	5.887	5.887	0.000	96	640863	8.00	7.67	
	40 Acetophenone	105	5.997	5.997	0.000	93	1095914	8.00	7.31	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.001	6.001	0.000	93	567441	8.00	7.73	
42 3 & 4 Methylphenol	108	6.016	6.016	0.000	91	779754	8.00	7.65	
44 Hexachloroethane	117	6.078	6.078	0.000	94	469656	8.00	8.51	
45 Nitrobenzene	77	6.135	6.135	0.000	96	880129	8.00	9.07	
47 Isophorone	82	6.334	6.334	0.000	98	1455360	8.00	7.55	
48 2-Nitrophenol	139	6.396	6.396	0.000	97	474733	8.00	8.03	
49 2,4-Dimethylphenol	122	6.444	6.444	0.000	96	717151	8.00	7.65	
51 Bis(2-chloroethoxy)methane	93	6.501	6.501	0.000	92	965653	8.00	7.88	
54 2,4-Dichlorophenol	162	6.605	6.605	0.000	95	830380	8.00	9.12	
52 Benzoic acid	122	6.610	6.610	0.000	84	857636	16.0	12.1	
55 1,2,4-Trichlorobenzene	180	6.663	6.663	0.000	95	961135	8.00	9.05	
56 Naphthalene	128	6.724	6.724	0.000	99	2566011	8.00	8.12	
57 4-Chloroaniline	127	6.772	6.772	0.000	96	1050438	8.00	7.58	
58 2,6-Dichlorophenol	162	6.781	6.781	0.000	96	790674	8.00	8.54	
60 Hexachlorobutadiene	225	6.829	6.829	0.000	95	661590	8.00	9.67	
65 4-Chloro-3-methylphenol	107	7.190	7.190	0.000	94	754364	8.00	9.00	
67 2-Methylnaphthalene	142	7.295	7.295	0.000	94	1808958	8.00	8.02	
64 Caprolactam	113	7.295	7.295	0.000	23	281641	8.00	8.44	
68 1-Methylnaphthalene	142	7.376	7.376	0.000	93	1653998	8.00	7.82	
69 Hexachlorocyclopentadiene	237	7.433	7.433	0.000	96	696846	8.00	8.85	
70 1,2,4,5-Tetrachlorobenzene	216	7.438	7.438	0.000	97	1050251	8.00	9.82	
72 2,4,6-Trichlorophenol	196	7.538	7.538	0.000	93	631490	8.00	9.08	
73 2,4,5-Trichlorophenol	196	7.576	7.576	0.000	95	641241	8.00	8.94	
75 1,1'-Biphenyl	154	7.680	7.680	0.000	95	2108923	8.00	8.64	
76 2-Chloronaphthalene	162	7.699	7.699	0.000	97	1733978	8.00	8.61	
78 2-Nitroaniline	65	7.790	7.790	0.000	82	566123	8.00	9.32	
82 Dimethyl phthalate	163	7.937	7.937	0.000	99	1933611	8.00	8.36	
83 1,3-Dinitrobenzene	168	7.970	7.970	0.000	80	296086	8.00	8.33	
84 2,6-Dinitrotoluene	165	7.985	7.985	0.000	92	434046	8.00	8.98	
85 Acenaphthylene	152	8.042	8.042	0.000	98	2562422	8.00	7.96	
86 3-Nitroaniline	138	8.142	8.142	0.000	92	356619	8.00	7.73	
87 Acenaphthene	154	8.184	8.184	0.000	91	1576050	8.00	7.61	
88 2,4-Dinitrophenol	184	8.222	8.222	0.000	73	573257	16.0	16.8	
89 4-Nitrophenol	109	8.308	8.308	0.000	86	584336	16.0	21.3	
91 2,4-Dinitrotoluene	165	8.327	8.327	0.000	92	595860	8.00	9.20	
92 Dibenzofuran	168	8.327	8.327	0.000	97	2442096	8.00	8.40	
95 2,3,4,6-Tetrachlorophenol	232	8.441	8.441	0.000	72	584123	8.00	8.94	
97 Diethyl phthalate	149	8.517	8.517	0.000	98	1997898	8.00	9.01	
98 Hexadecane	57	8.522	8.522	0.000	87	1222401	8.00	8.82	
100 4-Chlorophenyl phenyl ethe	204	8.603	8.603	0.000	94	978314	8.00	8.54	
102 Fluorene	166	8.612	8.612	0.000	94	1957690	8.00	8.51	
103 4-Nitroaniline	138	8.650	8.650	0.000	62	286475	8.00	6.66	
104 4,6-Dinitro-2-methylphenol	198	8.669	8.669	0.000	94	745638	16.0	16.0	
106 N-Nitrosodiphenylamine	169	8.707	8.707	0.000	65	1367534	8.00	8.15	
105 Diphenylamine	169	8.707	8.707	0.000	93	1367534	6.80	6.89	
107 1,2-Diphenylhydrazine	77	8.736	8.736	0.000	95	1816348	8.00	8.56	
114 4-Bromophenyl phenyl ether	248	9.007	9.007	0.000	64	694039	8.00	8.79	
117 Hexachlorobenzene	284	9.078	9.078	0.000	97	915045	8.00	9.66	
118 Atrazine	200	9.154	9.154	0.000	82	480914	8.00	8.08	
120 Pentachlorophenol	266	9.245	9.245	0.000	88	783654	16.0	13.4	
123 n-Octadecane	43	9.278	9.278	0.000	93	1042177	8.00	8.54	
126 Phenanthrene	178	9.411	9.411	0.000	97	2818634	8.00	8.13	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	9.454	9.454	0.000	98	2938064	8.00	8.23	
128 Carbazole	167	9.582	9.582	0.000	96	2374855	8.00	7.79	
130 Di-n-butyl phthalate	149	9.854	9.854	0.000	99	3203428	8.00	7.93	
135 Fluoranthene	202	10.400	10.400	0.000	97	3233749	8.00	8.25	
136 Benzidine	184	10.515	10.515	0.000	97	935474	8.00	6.44	
137 Pyrene	202	10.610	10.610	0.000	95	3043812	8.00	7.43	
145 Butyl benzyl phthalate	149	11.280	11.280	0.000	95	1562112	8.00	8.08	
147 3,3'-Dichlorobenzidine	252	11.989	11.989	0.000	99	1304432	8.00	9.17	
149 Benzo[a]anthracene	228	12.017	12.017	0.000	97	3353360	8.00	8.28	
150 Bis(2-ethylhexyl) phthalat	149	12.065	12.065	0.000	95	2152757	8.00	7.80	
151 Chrysene	228	12.074	12.074	0.000	96	3115847	8.00	8.08	
154 Di-n-octyl phthalate	149	13.163	13.163	0.000	99	3828310	8.00	8.36	
156 Benzo[b]fluoranthene	252	13.858	13.858	0.000	96	3296881	8.00	8.31	
157 Benzo[k]fluoranthene	252	13.910	13.910	0.000	99	3122151	8.00	7.86	
158 Benzo[a]pyrene	252	14.519	14.519	0.000	95	3421782	8.00	9.12	
162 Indeno[1,2,3-cd]pyrene	276	17.534	17.534	0.000	97	3910695	8.00	8.36	
163 Dibenz(a,h)anthracene	278	17.648	17.648	0.000	92	3217729	8.00	8.68	
164 Benzo[g,h,i]perylene	276	18.390	18.390	0.000	77	3289125	8.00	8.49	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

SMlst1_5uLL8X_00115 Amount Added: 1.00 Units: mL

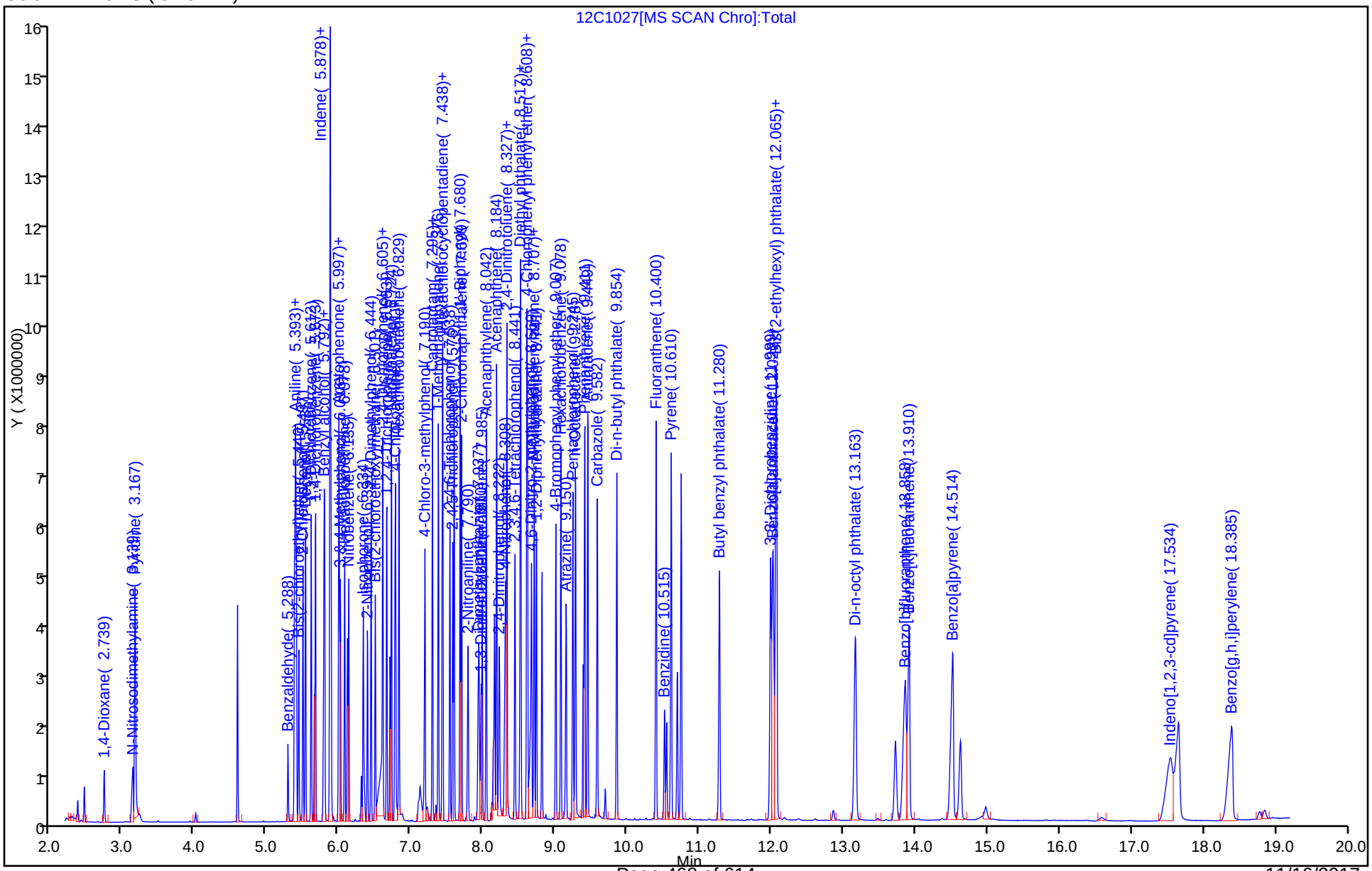
Report Date: 27-Oct-2017 12:24:02 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12C1027.D

Injection Date:	27-Oct-2017 09:17:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: CCVL 500-407256/4 Calibration Date: 10/27/2017 10:11

Instrument ID: CMS12 Calib Start Date: 09/27/2017 13:02

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 09/27/2017 17:56

Lab File ID: 12C1027b.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2'-oxybis[1-chloropropane]	Ave	3.919	3.023	0.0100	0.309	0.400	-22.9	100.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12C1027b.D
Lims ID: ccvl ppm2
Client ID:
Sample Type: CCVL
Inject. Date: 27-Oct-2017 10:11:30 ALS Bottle#: 2 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ccvl 2ppm
Misc. Info.: 500-0048658-004
Operator ID: AD Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub84

Method: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 11:38:12 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: squiresb Date: 27-Oct-2017 11:38:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.654	5.654	0.000	96	229662	3.20	3.20	s
* 2 Naphthalene-d8	136	6.700	6.705	-0.005	100	1053259	3.20	3.20	s
* 3 Acenaphthene-d10	164	8.151	8.156	-0.005	98	522346	3.20	3.20	s
* 4 Phenanthrene-d10	188	9.382	9.387	-0.005	97	1015568	3.20	3.20	s
* 5 Chrysene-d12	240	12.017	12.032	-0.015	99	1057063	3.20	3.20	s
* 6 Perylene-d12	264	14.609	14.623	-0.014	99	1150155	3.20	3.20	s
$ 7 2-Fluorophenol	112	4.589	4.589	0.000	93	20561	0.4000	0.4494	
$ 8 Phenol-d5	99	5.383	5.393	-0.010	84	30658	0.4000	0.4720	
$ 9 Nitrobenzene-d5	82	6.106	6.116	-0.010	97	44024	0.4000	0.4264	
$ 10 2-Fluorobiphenyl	172	7.590	7.595	-0.005	99	91710	0.4000	0.4175	
$ 11 2,4,6-Tribromophenol	330	8.807	8.817	-0.010	67	22947	0.4000	0.4523	
$ 12 Terphenyl-d14	244	10.738	10.748	-0.010	99	105295	0.4000	0.4077	
13 1,4-Dioxane	88	2.744	2.739	0.005	92	7782	0.4000	0.3174	7
14 N-Nitrosodimethylamine	42	3.115	3.139	-0.024	72	25296	0.4000	0.3257	
15 Pyridine	79	3.176	3.167	0.009	73	42830	0.8000	0.5487	
23 Benzaldehyde	77	5.288	5.288	0.000	85	14052	0.4000	-2.73	7
26 Aniline	93	5.383	5.393	-0.010	94	44754	0.4000	0.3267	7
25 Phenol	94	5.393	5.407	-0.014	95	32361	0.4000	0.3394	
27 Bis(2-chloroethyl)ether	93	5.431	5.440	-0.009	88	34024	0.4000	0.3962	
29 2-Chlorophenol	128	5.492	5.497	-0.005	96	31901	0.4000	0.3655	
30 n-Decane	43	5.526	5.535	-0.009	92	45877	0.4000	-0.5660	7
31 1,3-Dichlorobenzene	146	5.607	5.612	-0.005	95	37549	0.4000	0.3704	
32 1,4-Dichlorobenzene	146	5.664	5.673	-0.009	94	39731	0.4000	0.3872	
33 Benzyl alcohol	108	5.768	5.787	-0.019	90	22195	0.4000	0.3703	7
34 1,2-Dichlorobenzene	146	5.792	5.797	-0.005	95	38277	0.4000	0.3785	
37 Indene	116	5.863	5.873	-0.010	88	126525	0.8000	0.8307	
35 2,2'-oxybis[1-chloropropan	45	5.878	5.883	-0.005	85	86785	0.4000	0.3085	
36 2-Methylphenol	107	5.878	5.887	-0.009	74	27371	0.4000	0.4161	
40 Acetophenone	105	5.978	5.997	-0.019	93	54046	0.4000	0.4577	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	5.982	6.001	-0.019	87	27114	0.4000	0.4691	
42 3 & 4 Methylphenol	108	6.006	6.016	-0.010	89	34836	0.4000	0.4342	
44 Hexachloroethane	117	6.073	6.078	-0.005	93	18107	0.4000	0.4163	
45 Nitrobenzene	77	6.120	6.135	-0.015	97	43863	0.4000	0.4660	
47 Isophorone	82	6.320	6.334	-0.014	98	69495	0.4000	0.3716	
48 2-Nitrophenol	139	6.386	6.396	-0.010	95	21361	0.4000	0.3724	
49 2,4-Dimethylphenol	122	6.429	6.444	-0.015	96	33766	0.4000	0.3715	
51 Bis(2-chloroethoxy)methane	93	6.491	6.501	-0.010	91	42946	0.4000	0.3613	
54 2,4-Dichlorophenol	162	6.596	6.605	-0.009	94	34731	0.4000	0.3932	
52 Benzoic acid	122	6.501	6.610	-0.109	82	23815	0.8000	0.3465	7
55 1,2,4-Trichlorobenzene	180	6.658	6.663	-0.005	94	42676	0.4000	0.4142	
56 Naphthalene	128	6.719	6.724	-0.005	98	116911	0.4000	0.3814	
57 4-Chloroaniline	127	6.762	6.772	-0.010	96	35950	0.4000	0.2675	7
58 2,6-Dichlorophenol	162	6.776	6.781	-0.005	94	35159	0.4000	0.3914	
60 Hexachlorobutadiene	225	6.829	6.829	0.000	96	30699	0.4000	0.4626	
65 4-Chloro-3-methylphenol	107	7.176	7.190	-0.014	94	33557	0.4000	0.4130	
67 2-Methylnaphthalene	142	7.290	7.295	-0.005	94	81068	0.4000	0.3708	
64 Caprolactam	113	7.290	7.295	-0.005	23	2153	0.4000	0.0665	7
68 1-Methylnaphthalene	142	7.371	7.376	-0.005	90	73520	0.4000	0.3585	
69 Hexachlorocyclopentadiene	237	7.428	7.433	-0.005	96	21464	0.4000	0.2800	7
70 1,2,4,5-Tetrachlorobenzene	216	7.433	7.438	-0.005	97	44010	0.4000	0.4227	
72 2,4,6-Trichlorophenol	196	7.528	7.538	-0.010	94	26512	0.4000	0.3917	
73 2,4,5-Trichlorophenol	196	7.566	7.576	-0.010	91	26269	0.4000	0.3762	
75 1,1'-Biphenyl	154	7.670	7.680	-0.010	94	95041	0.4000	0.4001	
76 2-Chloronaphthalene	162	7.690	7.699	-0.009	97	78669	0.4000	0.4012	
78 2-Nitroaniline	65	7.775	7.790	-0.015	78	24437	0.4000	0.4133	
82 Dimethyl phthalate	163	7.918	7.937	-0.019	98	101621	0.4000	0.4511	
83 1,3-Dinitrobenzene	168	7.951	7.970	-0.019	81	11275	0.4000	0.3257	
84 2,6-Dinitrotoluene	165	7.970	7.985	-0.015	90	18915	0.4000	0.4021	
85 Acenaphthylene	152	8.032	8.042	-0.010	98	123593	0.4000	0.3942	
86 3-Nitroaniline	138	8.113	8.142	-0.029	92	16456	0.4000	0.3664	
87 Acenaphthene	154	8.179	8.184	-0.005	90	71327	0.4000	0.3537	
88 2,4-Dinitrophenol	184	8.208	8.222	-0.014	71	9061	0.8000	0.2728	
89 4-Nitrophenol	109	8.279	8.308	-0.029	86	23506	0.8000	0.8810	
91 2,4-Dinitrotoluene	165	8.308	8.327	-0.019	89	24016	0.4000	0.3811	
92 Dibenzofuran	168	8.317	8.327	-0.010	95	108682	0.4000	0.3839	
95 2,3,4,6-Tetrachlorophenol	232	8.431	8.441	-0.010	74	21438	0.4000	0.3371	
97 Diethyl phthalate	149	8.498	8.517	-0.019	98	95578	0.4000	0.4430	
98 Hexadecane	57	8.512	8.522	-0.010	85	63978	0.4000	0.2001	7
100 4-Chlorophenyl phenyl ethe	204	8.598	8.603	-0.005	94	43610	0.4000	0.3912	
102 Fluorene	166	8.603	8.612	-0.009	93	84668	0.4000	0.3781	
103 4-Nitroaniline	138	8.622	8.650	-0.028	62	16812	0.4000	0.4012	
104 4,6-Dinitro-2-methylphenol	198	8.650	8.669	-0.019	93	19714	0.8000	0.4512	
106 N-Nitrosodiphenylamine	169	8.693	8.707	-0.014	66	61202	0.4000	0.3881	
105 Diphenylamine	169	8.693	8.707	-0.014	92	61202	0.3400	0.3279	
107 1,2-Diphenylhydrazine	77	8.726	8.736	-0.010	94	85996	0.4000	0.4163	
114 4-Bromophenyl phenyl ether	248	9.002	9.007	-0.005	70	29676	0.4000	0.3998	
117 Hexachlorobenzene	284	9.069	9.078	-0.009	96	37713	0.4000	0.4234	
118 Atrazine	200	9.135	9.154	-0.019	76	22579	0.4000	0.4035	
120 Pentachlorophenol	266	9.235	9.245	-0.010	89	10841	0.8000	0.1969	7
123 n-Octadecane	43	9.273	9.278	-0.005	94	56333	0.4000	-2.00	7
126 Phenanthrene	178	9.397	9.411	-0.014	97	125899	0.4000	0.3865	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	9.440	9.454	-0.014	98	124710	0.4000	0.3716	
128 Carbazole	167	9.573	9.582	-0.009	96	107722	0.4000	0.3757	
130 Di-n-butyl phthalate	149	9.849	9.854	-0.005	99	148627	0.4000	0.3915	
135 Fluoranthene	202	10.391	10.400	-0.009	97	140359	0.4000	0.3809	
136 Benzidine	184	10.505	10.515	-0.010	96	8144	0.4000	0.0604	7
137 Pyrene	202	10.600	10.610	-0.010	95	142491	0.4000	0.3751	
145 Butyl benzyl phthalate	149	11.270	11.280	-0.010	96	68110	0.4000	0.3799	
147 3,3'-Dichlorobenzidine	252	11.965	11.989	-0.024	98	43018	0.4000	0.3263	
149 Benzo[a]anthracene	228	11.998	12.017	-0.019	97	141097	0.4000	0.3758	
150 Bis(2-ethylhexyl) phthalat	149	12.050	12.065	-0.015	96	96046	0.4000	0.3756	
151 Chrysene	228	12.046	12.074	-0.028	96	131935	0.4000	0.3691	
154 Di-n-octyl phthalate	149	13.144	13.163	-0.019	98	154031	0.4000	0.3579	
156 Benzo[b]fluoranthene	252	13.810	13.858	-0.048	96	145663	0.4000	0.4045	
157 Benzo[k]fluoranthene	252	13.862	13.910	-0.048	99	141271	0.4000	0.3916	
158 Benzo[a]pyrene	252	14.466	14.519	-0.053	95	135432	0.4000	0.3975	
162 Indeno[1,2,3-cd]pyrene	276	17.438	17.534	-0.096	96	180911	0.4000	0.4258	
163 Dibenz(a,h)anthracene	278	17.548	17.648	-0.100	86	135435	0.4000	0.4026	
164 Benzo[g,h,i]perylene	276	18.285	18.390	-0.105	77	155514	0.4000	0.4424	
S 173 Methyl Phenols,Total	1				0			0.8503	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

s - Failed ISTD Recovery Test

Reagents:

SMlst1_5uLL4_00034 Amount Added: 1.00 Units: mL

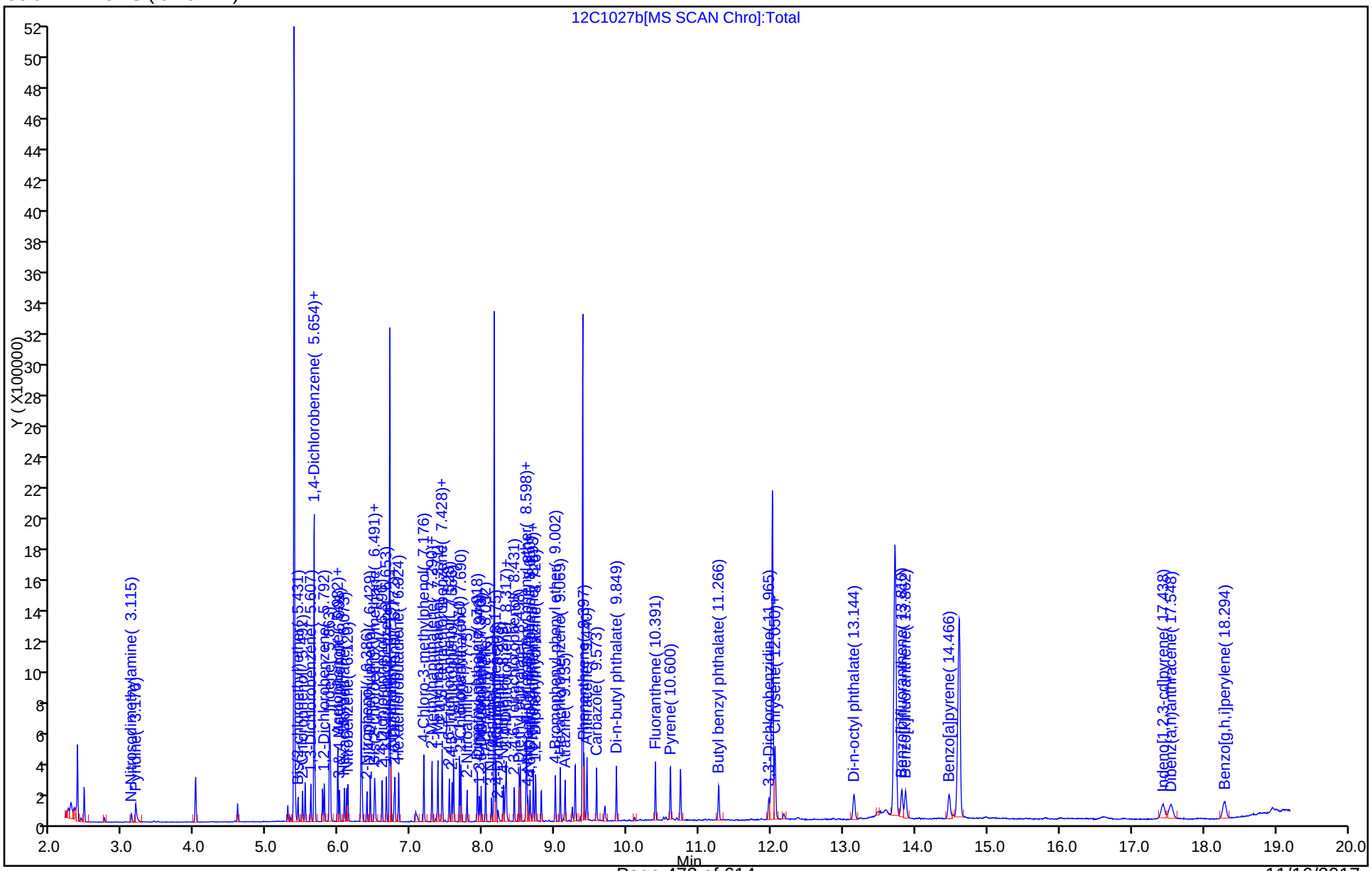
Report Date: 27-Oct-2017 11:38:13 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12C1027b.D

Injection Date:	27-Oct-2017 10:11:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	ccvl ppm2			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 26-Oct-2017 16:17:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 500-0048606-011
Operator ID: DA Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 08:33:03 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: akcakald Date: 26-Oct-2017 16:43:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
125 Pentachlorophenol	266	10.159	10.159	0.000	98	102432	NR	NR	
138 Benzidine	184	11.685	11.685	0.000	99	596445	NR	NR	
166 DFTPP									
167 4,4'-DDE	246	11.932	11.932	0.000	1	231		NR	
168 4,4'-DDD	235	12.403	12.403	0.000	89	1532		NR	
169 4,4'-DDT	235	12.907	12.907	0.000	97	257950	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

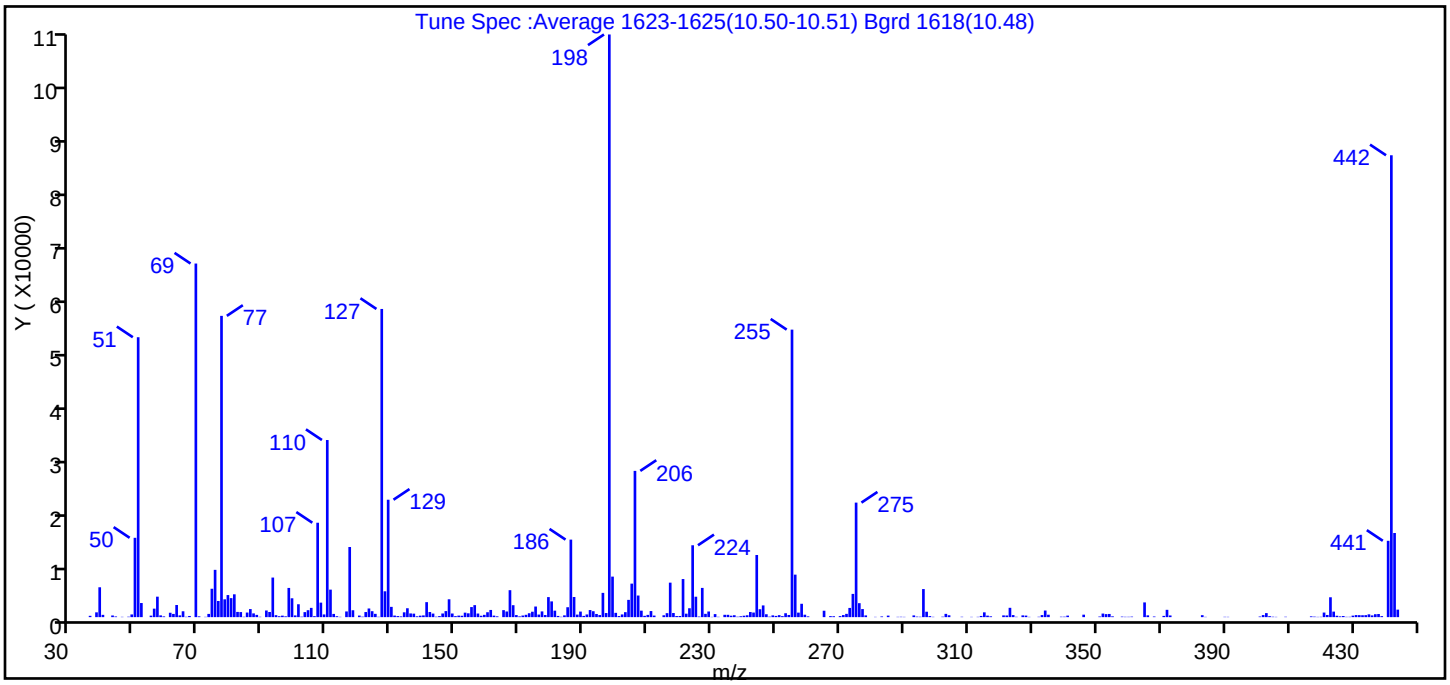
HIVOL_DFTPPWK_00069 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D
Injection Date: 26-Oct-2017 16:17:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL
Tune Method: DFTPP Method 8270D, BP 198

166 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (126.2)
51	10-80% of the base peak	48.0
68	<2% of mass 69	0.0 (0.0)
69	Present	60.7
70	<2% of mass 69	0.1 (0.2)
127	10-80% of the base peak	52.9
197	<2% of mass 198	0.7
199	5-9% of mass 198	7.0
275	10-60% of the base peak	19.7
365	>1% of mass 198	2.5
441	present but <24% of mass 442	13.1 (16.5)
442	base peak, or >50% of 198	79.3
443	15-24% of mass 442	14.4 (18.2)

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D\1-LVI8270.rslt\spectra.d
Injection Date: 26-Oct-2017 16:17:30
Spectrum: Tune Spec :Average 1623-1625(10.50-10.51) Bgrd 1618(10.48)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	246	127.00	57112	206.00	27104	303.00	606
38.00	889	128.00	4790	207.00	4006	304.00	345
39.00	5536	129.00	21760	208.00	1200	308.00	70
40.00	425	130.00	1904	209.00	244	311.00	51
43.00	308	131.00	290	210.00	417	313.00	58
44.00	127	132.00	197	211.00	1127	314.00	221
46.00	57	133.00	131	212.00	289	315.00	891
48.00	81	134.00	895	215.00	346	316.00	281
49.00	500	135.00	1649	216.00	738	317.00	148
50.00	14702	136.00	688	217.00	6391	321.00	326
51.00	51872	137.00	646	218.00	764	322.00	309
52.00	2615	138.00	154	219.00	203	323.00	1729
55.00	278	139.00	274	220.00	210	324.00	380
56.00	1574	140.00	322	221.00	7061	325.00	66
57.00	3794	141.00	2779	222.00	642	327.00	327
58.00	328	142.00	950	223.00	1650	328.00	288
59.00	137	143.00	660	224.00	13320	329.00	51
61.00	814	144.00	83	225.00	3784	332.00	71
62.00	596	145.00	194	226.00	110	333.00	377
63.00	2249	146.00	678	227.00	5418	334.00	1223
64.00	327	147.00	1121	228.00	611	335.00	446
65.00	1088	148.00	3310	229.00	1048	339.00	81
66.00	66	149.00	674	230.00	47	340.00	86
67.00	217	150.00	186	231.00	564	341.00	285
69.00	65528	151.00	285	232.00	62	346.00	458
70.00	144	152.00	259	234.00	433	351.00	114
72.00	57	153.00	831	235.00	431	352.00	664
73.00	600	154.00	709	236.00	269	353.00	562
74.00	5261	155.00	1866	237.00	354	354.00	590
75.00	8764	156.00	2224	238.00	81	355.00	148
76.00	2995	157.00	668	239.00	165	358.00	98
77.00	55832	158.00	257	240.00	264	359.00	64
78.00	3304	159.00	425	241.00	348	360.00	66

Report Date: 27-Oct-2017 08:33:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D\1-LVI8270.rslt\spectra.d
Injection Date: 26-Oct-2017 16:17:30
Spectrum: Tune Spec :Average 1623-1625(10.50-10.51) Bgrd 1618(10.48)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	4092	160.00	908	242.00	947	361.00	96
80.00	3523	161.00	1333	243.00	850	365.00	2730
81.00	4231	162.00	282	244.00	11517	366.00	331
82.00	969	163.00	150	245.00	1467	368.00	116
83.00	939	165.00	1299	246.00	2173	371.00	233
84.00	71	166.00	1047	247.00	536	372.00	1357
85.00	853	167.00	4996	248.00	93	373.00	310
86.00	1496	168.00	2213	249.00	329	383.00	365
87.00	696	169.00	384	250.00	229	384.00	51
88.00	419	170.00	140	251.00	370	390.00	59
89.00	67	171.00	301	252.00	186	391.00	54
91.00	1232	172.00	434	253.00	725	401.00	115
92.00	956	173.00	723	254.00	403	402.00	384
93.00	7335	174.00	1005	255.00	53280	403.00	749
94.00	362	175.00	1968	256.00	7877	404.00	181
95.00	172	176.00	477	257.00	837	405.00	79
96.00	276	177.00	1063	258.00	2477	406.00	52
97.00	146	178.00	391	259.00	451	409.00	72
98.00	5412	179.00	3714	260.00	143	417.00	146
99.00	3496	180.00	2919	265.00	1189	418.00	94
100.00	320	181.00	1200	267.00	189	419.00	51
101.00	2390	182.00	224	268.00	165	420.00	62
102.00	84	183.00	64	270.00	192	421.00	850
103.00	930	184.00	332	271.00	385	422.00	402
104.00	1288	185.00	1838	272.00	607	423.00	3683
105.00	1718	186.00	14368	273.00	1707	424.00	1026
106.00	181	187.00	3731	274.00	4308	425.00	259
107.00	17496	188.00	471	275.00	21224	426.00	141
108.00	2689	189.00	1032	276.00	2589	427.00	205
109.00	501	190.00	232	277.00	1498	428.00	60
110.00	32824	191.00	496	278.00	323	429.00	64
111.00	5098	192.00	1314	281.00	52	430.00	281
112.00	598	193.00	1099	283.00	129	431.00	383
113.00	171	194.00	586	285.00	285	432.00	368

Report Date: 27-Oct-2017 08:33:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D\1-LVI8270.rslt\spectra.d
Injection Date: 26-Oct-2017 16:17:30
Spectrum: Tune Spec :Average 1623-1625(10.50-10.51) Bgrd 1618(10.48)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	57	195.00	387	288.00	56	433.00	354
116.00	1057	196.00	4496	289.00	67	434.00	370
117.00	12999	197.00	762	290.00	50	435.00	521
118.00	1277	198.00	107976	293.00	322	436.00	323
120.00	292	199.00	7511	294.00	97	437.00	543
121.00	86	200.00	798	295.00	73	438.00	581
122.00	945	201.00	204	296.00	5203	439.00	189
123.00	1605	202.00	501	297.00	1004	441.00	14146
124.00	1101	203.00	922	298.00	191	442.00	85592
125.00	611	204.00	3201	299.00	59	443.00	15591
126.00	68	205.00	6211	302.00	84	444.00	1391

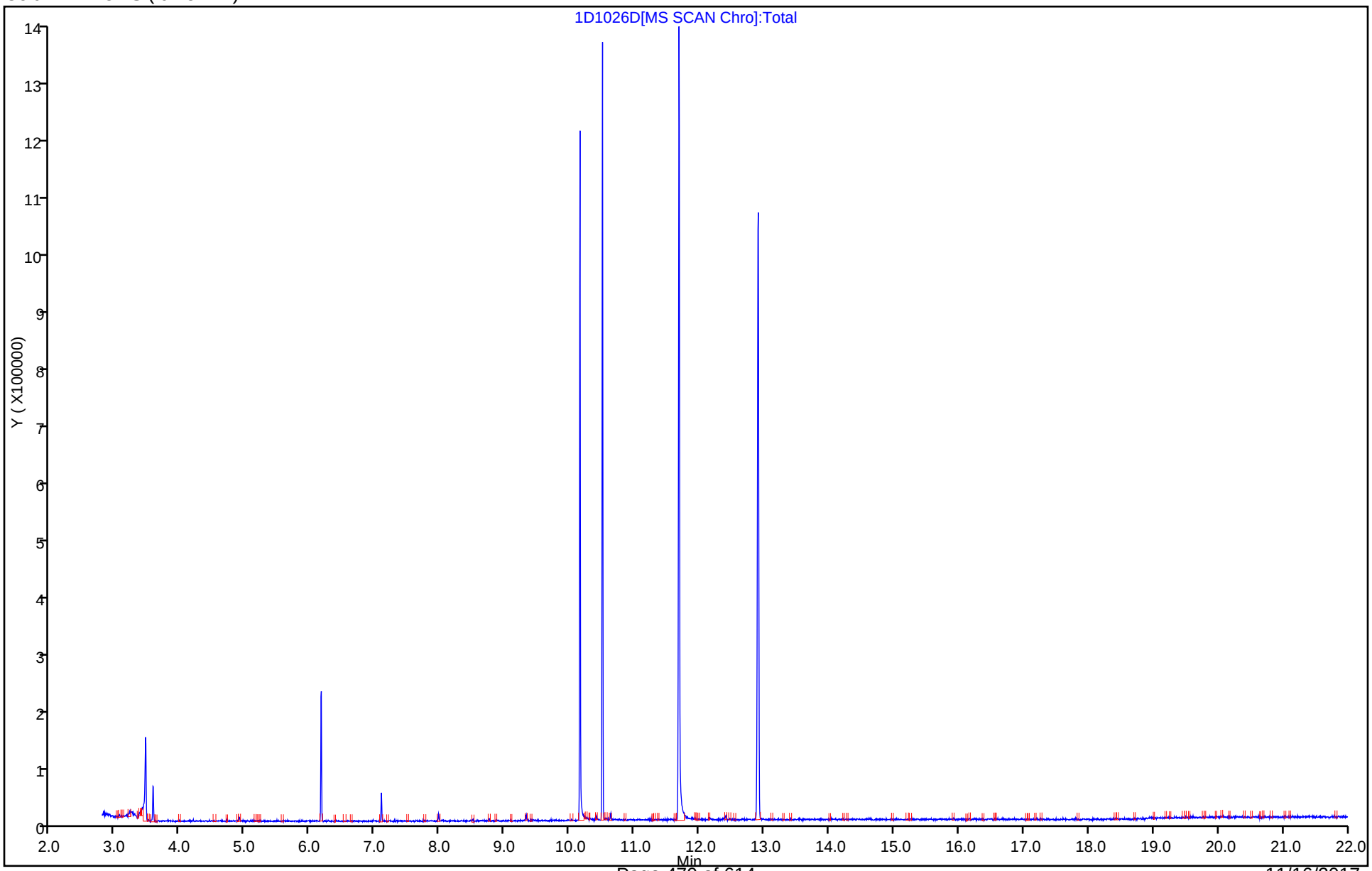
Report Date: 27-Oct-2017 08:33:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D

Injection Date:	26-Oct-2017 16:17:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	dftpp			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)

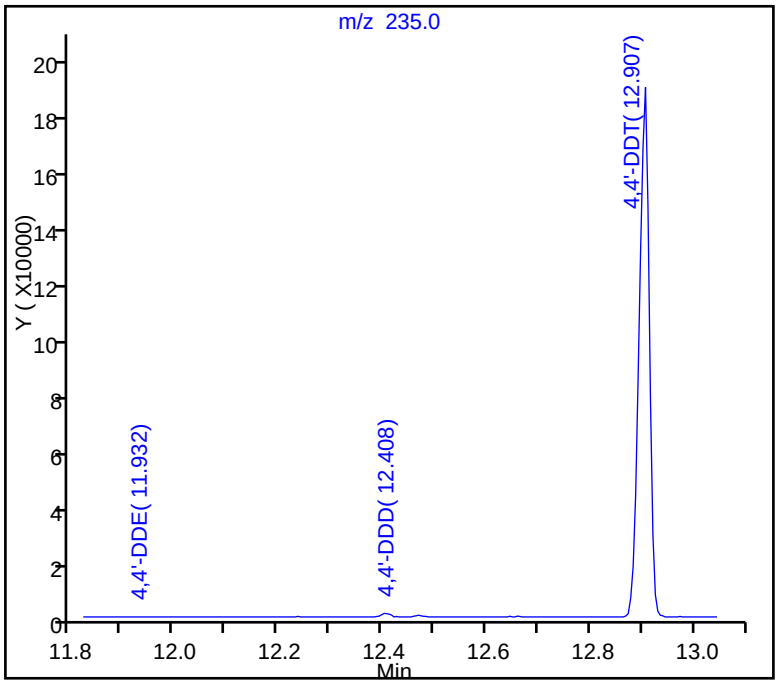


Breakdown Report

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D				
Injection Date:	26-Oct-2017 16:17:30	Instrument ID:	CMS01		
Lims ID:	dftpp				
Client ID:					
Operator ID:	DA	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

169 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

169 4,4'-DDT, Area = 257950
168 4,4'-DDD, Area = 1532
167 4,4'-DDE, Area = 231

%Breakdown: 0.68%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Chicago

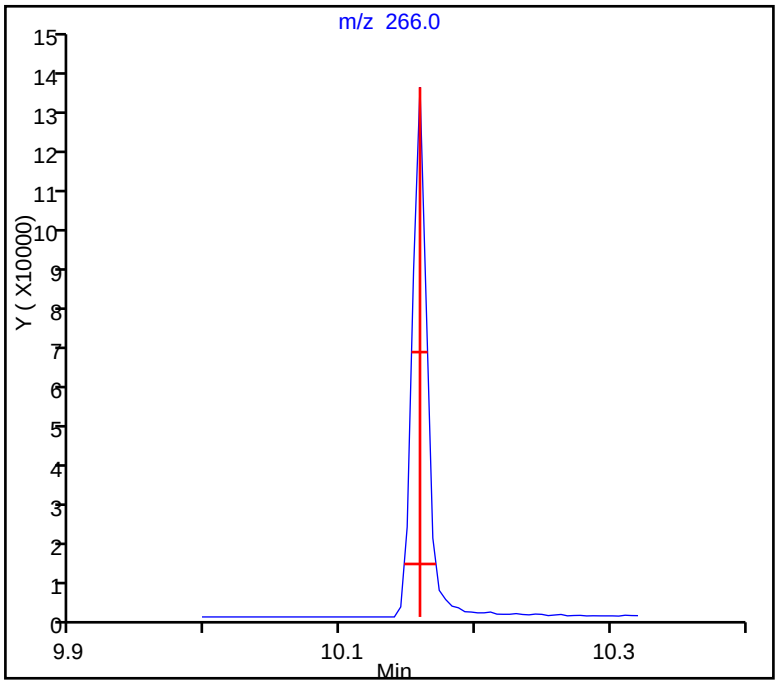
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D
Injection Date: 26-Oct-2017 16:17:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

125 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Chicago

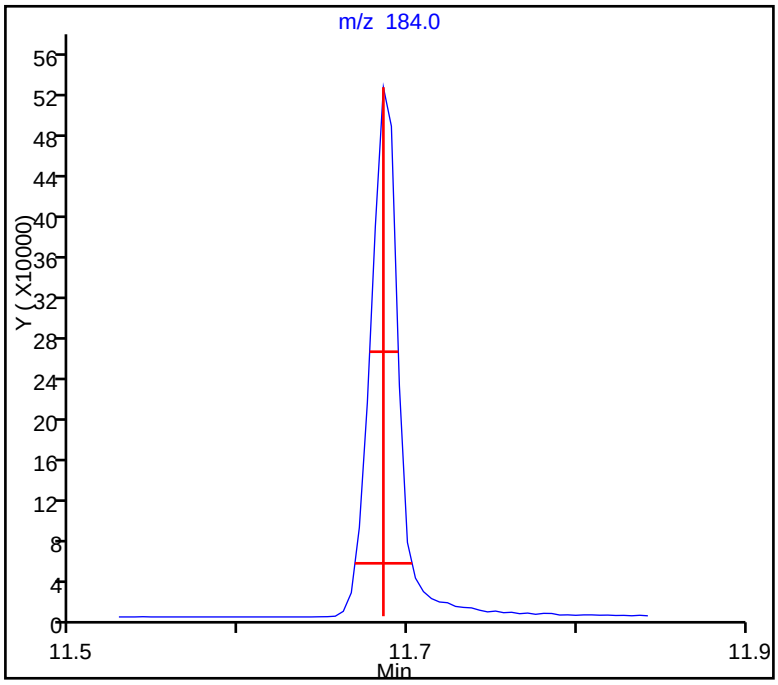
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D
Injection Date: 26-Oct-2017 16:17:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

138 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1D1027a.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Oct-2017 09:14:30 ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 500-0048660-003
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 11:16:00 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: rynkarg Date: 27-Oct-2017 09:50:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
125 Pentachlorophenol	266	10.159	10.159	0.000	98	113544	NR	NR	
138 Benzidine	184	11.685	11.685	0.000	99	615189	NR	NR	
166 DFTPP									
167 4,4'-DDE	246	11.937	11.937	0.000	1	467		NR	
168 4,4'-DDD	235	12.408	12.408	0.000	92	2848		NR	
169 4,4'-DDT	235	12.907	12.907	0.000	97	269262	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

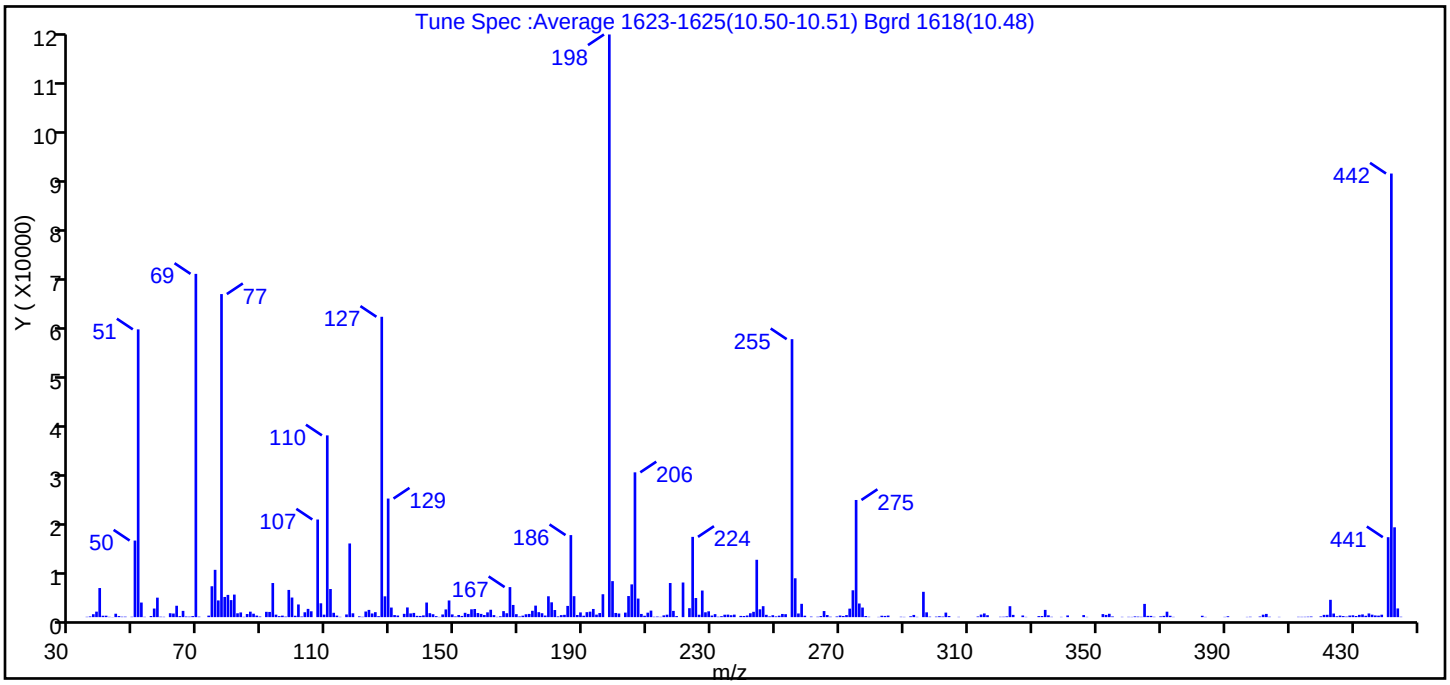
HIVOL_DFTPPWK_00069 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1D1027a.D
Injection Date: 27-Oct-2017 09:14:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL
Tune Method: DFTPP Method 8270D, BP 198

166 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (131.3)
51	10-80% of the base peak	49.4
68	<2% of mass 69	0.2 (0.3)
69	Present	58.9
70	<2% of mass 69	0.1 (0.1)
127	10-80% of the base peak	51.5
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.2
275	10-60% of the base peak	20.1
365	>1% of mass 198	2.3
441	present but <24% of mass 442	13.7 (18.0)
442	base peak, or >50% of 198	76.1
443	15-24% of mass 442	15.4 (20.3)

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1D1027a.D\1-LVI8270.rslt\spectra.d
Injection Date: 27-Oct-2017 09:14:30
Spectrum: Tune Spec :Average 1623-1625(10.50-10.51) Bgrd 1618(10.48)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	65	125.00	976	209.00	271	307.00	57
36.00	137	126.00	191	210.00	876	313.00	133
37.00	574	127.00	58840	211.00	1280	314.00	504
38.00	1078	128.00	4078	212.00	77	315.00	723
39.00	5701	129.00	23232	213.00	116	316.00	378
40.00	276	130.00	1880	214.00	60	320.00	72
41.00	283	131.00	405	215.00	349	321.00	82
42.00	62	132.00	315	216.00	480	322.00	144
43.00	28	134.00	649	217.00	6686	323.00	2146
44.00	670	135.00	1900	218.00	1222	324.00	442
45.00	208	136.00	730	219.00	205	327.00	324
46.00	87	137.00	828	221.00	6786	328.00	51
47.00	92	138.00	255	223.00	1757	332.00	202
49.00	74	139.00	236	224.00	15726	333.00	214
50.00	15004	140.00	343	225.00	3744	334.00	1422
51.00	56376	141.00	2861	226.00	470	335.00	355
52.00	2860	142.00	774	227.00	5211	336.00	68
53.00	66	143.00	571	228.00	950	339.00	53
55.00	221	144.00	195	229.00	1144	341.00	332
56.00	1685	145.00	50	230.00	313	346.00	403
57.00	3818	146.00	524	231.00	590	347.00	55
58.00	85	147.00	1512	232.00	84	352.00	598
59.00	68	148.00	3268	233.00	190	353.00	438
61.00	764	149.00	534	234.00	476	354.00	655
62.00	710	150.00	131	235.00	496	355.00	136
63.00	2231	151.00	423	236.00	379	358.00	59
64.00	188	152.00	238	237.00	492	360.00	63
65.00	1229	153.00	848	239.00	243	361.00	50
66.00	117	154.00	631	240.00	226	362.00	144
67.00	95	155.00	1536	241.00	319	363.00	103
68.00	202	156.00	1595	242.00	762	364.00	67
69.00	67248	157.00	804	243.00	1044	365.00	2594
70.00	93	158.00	635	244.00	11237	366.00	250

Report Date: 27-Oct-2017 11:16:01 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1D1027a.D\1-LVI8270.rslt\spectra.d
Injection Date: 27-Oct-2017 09:14:30
Spectrum: Tune Spec :Average 1623-1625(10.50-10.51) Bgrd 1618(10.48)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	293	159.00	412	245.00	1536	367.00	246
74.00	6051	160.00	938	246.00	2148	368.00	68
75.00	9268	161.00	1448	247.00	455	370.00	154
76.00	3277	162.00	396	248.00	148	371.00	252
77.00	63288	163.00	58	249.00	378	372.00	1068
78.00	3952	164.00	164	250.00	143	373.00	269
79.00	4357	165.00	1178	251.00	290	374.00	55
80.00	3339	166.00	766	252.00	623	383.00	270
81.00	4420	167.00	5886	253.00	583	384.00	50
82.00	755	168.00	2390	255.00	54456	390.00	53
83.00	922	169.00	585	256.00	7615	391.00	173
84.00	65	170.00	133	257.00	715	397.00	50
85.00	610	171.00	292	258.00	2610	398.00	75
86.00	1074	172.00	564	259.00	281	401.00	121
87.00	674	173.00	630	261.00	104	402.00	483
88.00	306	174.00	1244	263.00	79	403.00	635
89.00	123	175.00	2258	264.00	203	404.00	79
91.00	1043	176.00	974	265.00	1194	407.00	53
92.00	1020	177.00	768	266.00	410	413.00	67
93.00	6682	178.00	311	267.00	82	414.00	62
94.00	487	179.00	4090	269.00	131	415.00	66
95.00	201	180.00	2905	270.00	316	416.00	90
96.00	295	181.00	1395	271.00	231	417.00	119
97.00	103	182.00	145	272.00	401	420.00	153
98.00	5332	183.00	396	273.00	1666	421.00	444
99.00	3841	184.00	449	274.00	5263	422.00	462
100.00	270	185.00	2200	275.00	22952	423.00	3394
101.00	2485	186.00	16073	276.00	2673	424.00	705
102.00	120	187.00	4106	277.00	1881	425.00	169
103.00	954	188.00	424	278.00	214	426.00	307
104.00	1618	189.00	930	279.00	76	427.00	208
105.00	1147	190.00	276	282.00	50	428.00	106
107.00	19128	191.00	976	283.00	276	429.00	314
108.00	2713	192.00	1075	284.00	240	430.00	363

Report Date: 27-Oct-2017 11:16:01 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1D1027a.D\1-LVI8270.rslt\spectra.d
Injection Date: 27-Oct-2017 09:14:30
Spectrum: Tune Spec :Average 1623-1625(10.50-10.51) Bgrd 1618(10.48)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
109.00	487	193.00	1602	285.00	308	431.00	222
110.00	35608	194.00	491	289.00	73	432.00	447
111.00	5511	195.00	803	290.00	52	433.00	533
112.00	852	196.00	4488	292.00	166	434.00	265
113.00	301	198.00	114144	293.00	432	435.00	724
114.00	59	199.00	7056	294.00	56	436.00	482
116.00	526	200.00	821	296.00	4962	437.00	330
117.00	14434	201.00	712	297.00	941	438.00	295
118.00	753	203.00	886	298.00	97	439.00	477
120.00	156	204.00	4134	300.00	99	441.00	15662
121.00	69	205.00	6419	301.00	172	442.00	86904
122.00	1102	206.00	28368	302.00	111	443.00	17600
123.00	1420	207.00	3640	303.00	890	444.00	1706
124.00	722	208.00	627	304.00	209	445.00	77

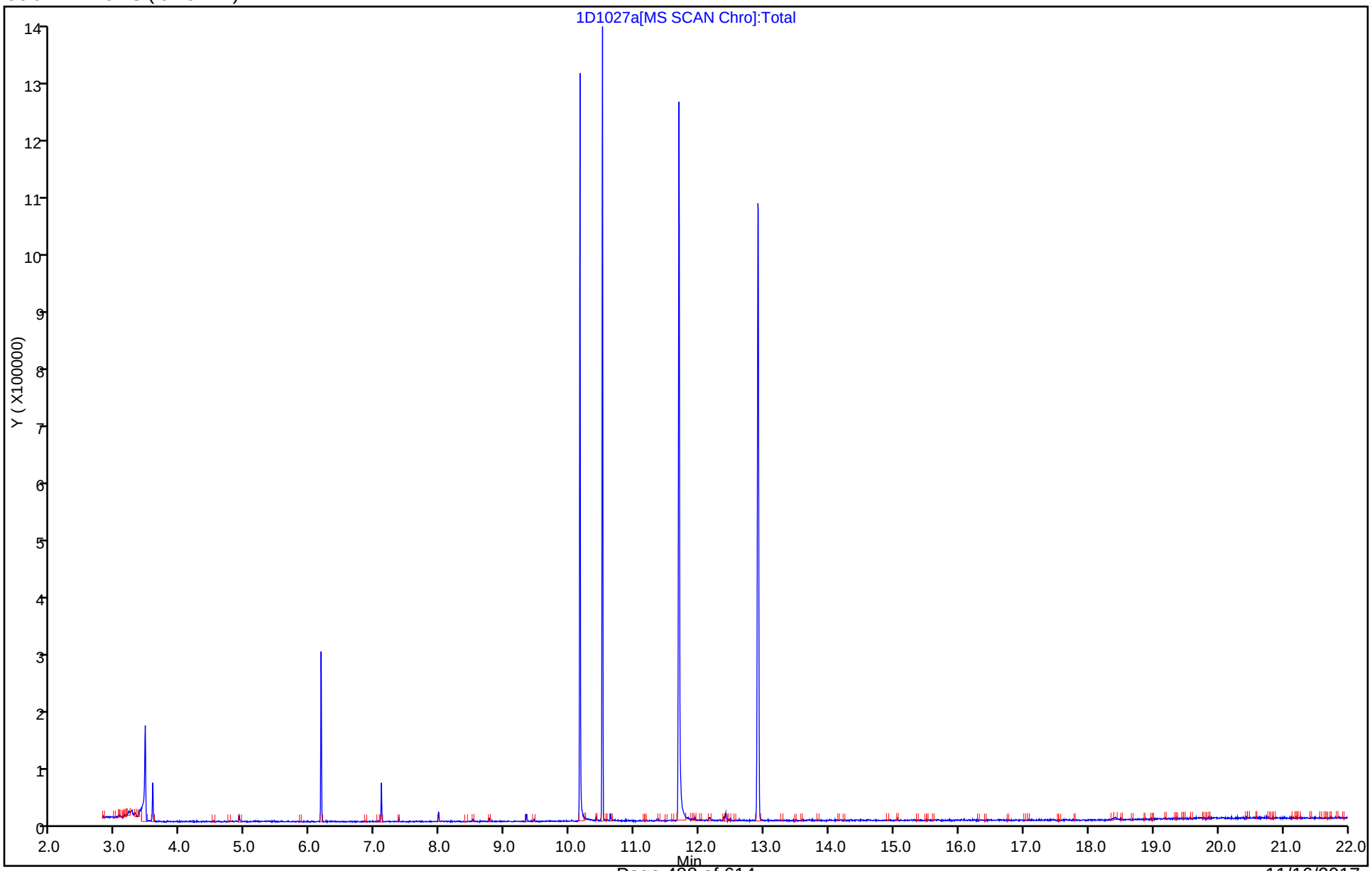
Report Date: 27-Oct-2017 11:16:01 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1D1027a.D

Injection Date:	27-Oct-2017 09:14:30	Instrument ID:	CMS01	Operator ID:	AD
Lims ID:	dftpp			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)

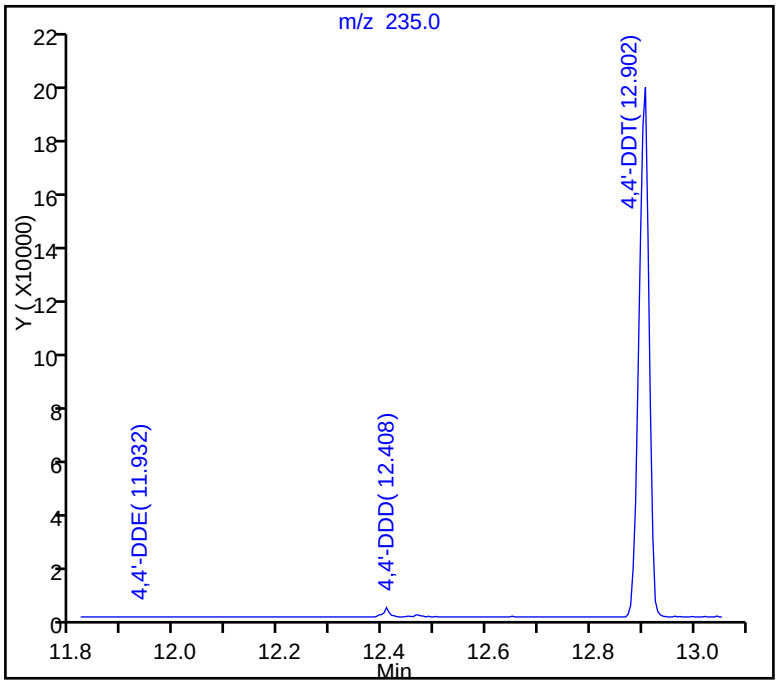


Breakdown Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1D1027a.D
Injection Date: 27-Oct-2017 09:14:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

169 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

169 4,4'-DDT, Area = 269262
168 4,4'-DDD, Area = 2848
167 4,4'-DDE, Area = 467

%Breakdown: 1.22%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Chicago

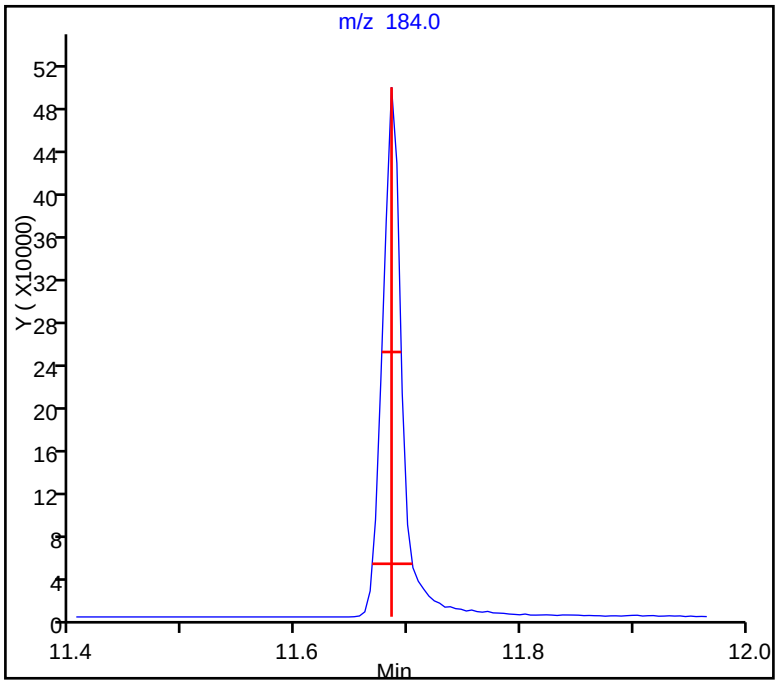
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1D1027a.D
Injection Date: 27-Oct-2017 09:14:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

138 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Chicago

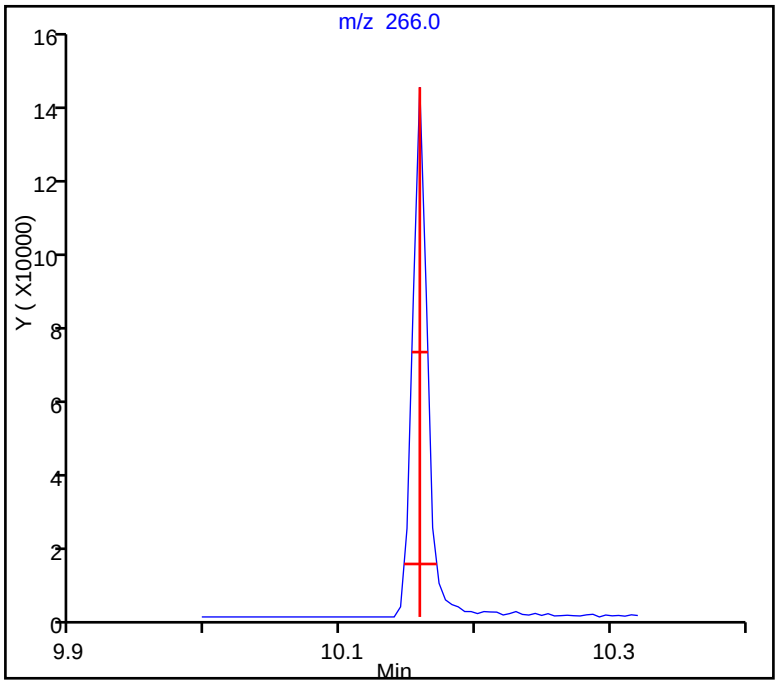
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1D1027a.D
Injection Date: 27-Oct-2017 09:14:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

125 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Sep-2017 12:29:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 500-0048047-005
Operator ID: DA Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:22:50 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: akcakald Date: 27-Sep-2017 12:56:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
120 Pentachlorophenol	266	10.041	10.041	0.000	88	600888	NR	NR	
136 Benzidine	184	11.510	11.510	0.000	98	2334409	NR	NR	
165 DFTPP									
166 4,4'-DDE	246	11.748	11.748	0.000	91	1693		NR	
167 4,4'-DDD	235	12.195	12.195	0.000	95	9345		NR	
168 4,4'-DDT	235	12.670	12.670	0.000	98	1399207	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

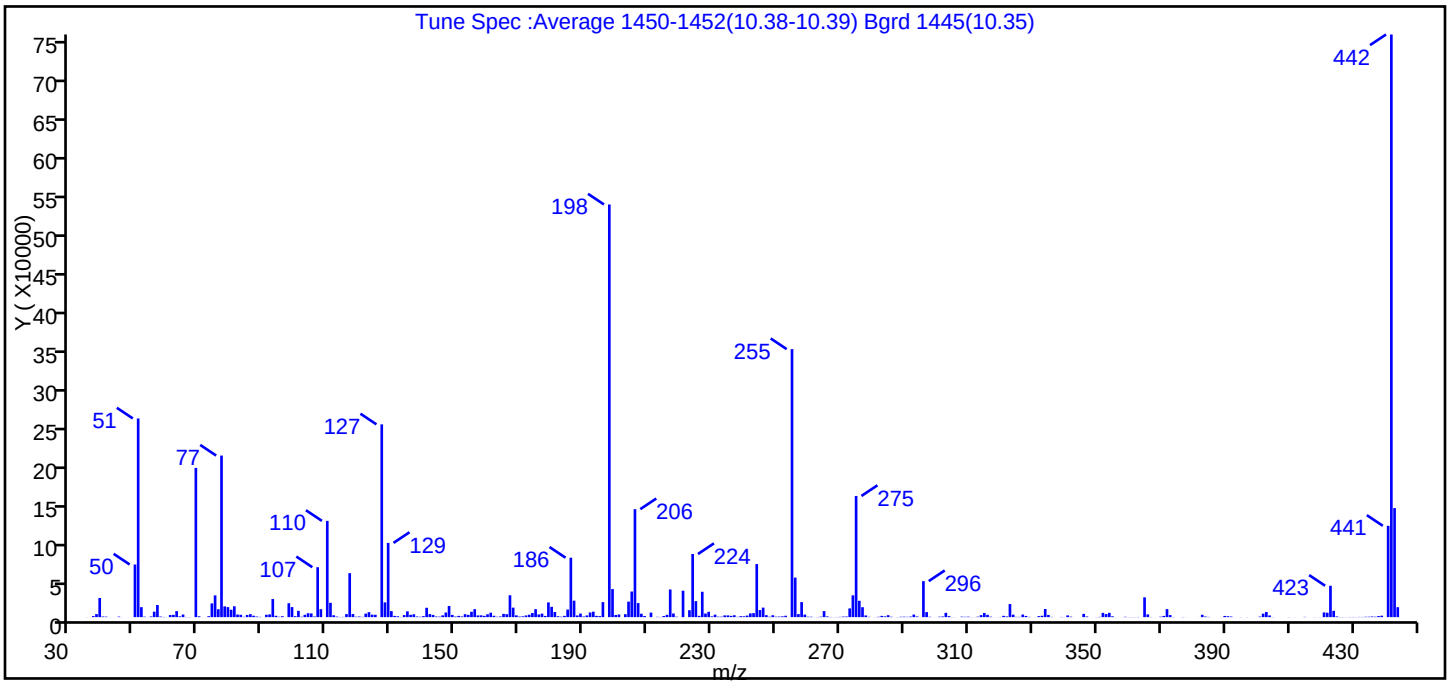
HIVOL_DFTPPWK_00083 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D
Injection Date: 27-Sep-2017 12:29:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Tune Method: DFTPP Method 8270D, BP 198

165 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (70.8)
51	10-80% of the base peak	48.1
68	<2% of mass 69	0.0 (0.0)
69	Present	36.2
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	46.7
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	29.4
365	>1% of mass 198	4.8
441	present but <24% of mass 442	22.1 (15.7)
442	base peak, or >50% of 198	141.2
443	15-24% of mass 442	26.4 (18.7)

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D\12-LVI8270.rslt\spectra.d
Injection Date: 27-Sep-2017 12:29:30
Spectrum: Tune Spec :Average 1450-1452(10.38-10.39) Bgrd 1445(10.35)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	114	135.00	7492	231.00	3199	325.00	366
37.00	1359	136.00	2995	232.00	599	326.00	345
38.00	3940	137.00	3668	233.00	625	327.00	3343
39.00	24752	138.00	824	234.00	2234	328.00	1543
40.00	816	139.00	471	235.00	2264	329.00	357
41.00	640	140.00	1327	236.00	1656	331.00	88
42.00	88	141.00	12082	237.00	2454	332.00	1306
43.00	27	142.00	3916	238.00	385	333.00	1767
45.00	672	143.00	2874	239.00	1252	334.00	10485
46.00	55	144.00	807	240.00	1105	335.00	2847
48.00	59	145.00	639	241.00	2034	336.00	329
50.00	67904	146.00	2316	242.00	4819	339.00	258
51.00	256256	147.00	6000	243.00	5179	340.00	134
52.00	12881	148.00	14332	244.00	68480	341.00	2247
53.00	595	149.00	2863	245.00	9167	342.00	634
54.00	54	150.00	743	246.00	12277	343.00	50
55.00	840	151.00	1650	247.00	2546	346.00	4215
56.00	7034	152.00	903	248.00	553	347.00	826
57.00	15648	153.00	3794	249.00	2447	350.00	174
58.00	747	154.00	2966	250.00	627	351.00	370
59.00	257	155.00	6972	251.00	720	352.00	5525
60.00	88	156.00	10309	252.00	1022	353.00	3956
61.00	2740	157.00	2223	253.00	1823	354.00	5564
62.00	2961	158.00	2353	255.00	345664	355.00	1061
63.00	7760	159.00	1683	256.00	51016	356.00	66
64.00	1002	160.00	3697	257.00	3913	358.00	50
65.00	3376	161.00	5710	258.00	19424	359.00	474
66.00	235	162.00	1765	259.00	3310	360.00	159
67.00	193	163.00	497	260.00	570	361.00	188
69.00	192512	164.00	840	261.00	508	362.00	130
70.00	1064	165.00	4196	262.00	74	363.00	244
72.00	55	166.00	3837	263.00	256	365.00	25560
73.00	1217	167.00	28216	264.00	602	366.00	3535

Report Date: 28-Sep-2017 10:22:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D\12-LVI8270.rslt\spectra.d
Injection Date: 27-Sep-2017 12:29:30
Spectrum: Tune Spec :Average 1450-1452(10.38-10.39) Bgrd 1445(10.35)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	17720	168.00	12240	265.00	7780	367.00	225
75.00	28080	169.00	2324	266.00	927	368.00	52
76.00	10170	170.00	769	267.00	262	370.00	570
77.00	208384	171.00	1057	268.00	140	371.00	1552
78.00	13853	172.00	2179	269.00	228	372.00	10328
79.00	12945	173.00	3140	270.00	338	373.00	2669
80.00	9562	174.00	5310	271.00	724	374.00	226
81.00	14030	175.00	10264	272.00	806	377.00	214
82.00	3340	176.00	3455	273.00	11254	378.00	68
83.00	3066	177.00	4517	274.00	28128	382.00	52
84.00	424	178.00	1585	275.00	156288	383.00	3048
85.00	2845	179.00	19024	276.00	21120	384.00	766
86.00	3876	180.00	13308	277.00	12813	385.00	300
87.00	1837	181.00	6641	278.00	2216	389.00	60
88.00	765	182.00	1156	279.00	447	390.00	1543
89.00	346	183.00	556	281.00	130	391.00	1209
91.00	3053	184.00	1632	282.00	472	392.00	759
92.00	3553	185.00	9774	283.00	1627	393.00	53
93.00	23360	186.00	76664	284.00	1017	395.00	150
94.00	1736	187.00	21232	285.00	2500	397.00	114
95.00	465	188.00	2207	286.00	514	401.00	706
96.00	1181	189.00	4594	287.00	50	402.00	4520
98.00	17952	190.00	791	288.00	172	403.00	6645
99.00	12962	191.00	2194	289.00	512	404.00	2208
100.00	1214	192.00	6020	290.00	568	405.00	210
101.00	8132	193.00	7040	291.00	393	410.00	171
102.00	513	194.00	1672	292.00	735	412.00	50
103.00	3013	195.00	1320	293.00	3327	415.00	322
104.00	5025	196.00	19376	294.00	879	416.00	50
105.00	4824	198.00	532224	296.00	46472	418.00	128
106.00	793	199.00	36224	297.00	6496	419.00	53
107.00	64408	200.00	2807	298.00	482	420.00	136
108.00	10273	201.00	3403	299.00	50	421.00	6071
110.00	124152	203.00	3771	300.00	60	422.00	5756

Report Date: 28-Sep-2017 10:22:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D\12-LVI8270.rslt\spectra.d
Injection Date: 27-Sep-2017 12:29:30
Spectrum: Tune Spec :Average 1450-1452(10.38-10.39) Bgrd 1445(10.35)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	18480	204.00	20016	301.00	576	423.00	40496
112.00	2411	205.00	33056	302.00	854	424.00	8140
113.00	726	206.00	139264	303.00	5545	425.00	874
114.00	255	207.00	18152	304.00	1301	426.00	182
115.00	326	208.00	4367	305.00	166	427.00	141
116.00	3932	209.00	1463	306.00	65	428.00	126
117.00	56728	211.00	5848	308.00	615	429.00	212
118.00	3971	213.00	398	309.00	477	430.00	257
119.00	559	214.00	235	310.00	597	431.00	210
120.00	793	215.00	1505	311.00	136	432.00	283
121.00	350	216.00	2976	312.00	103	433.00	264
122.00	4491	217.00	35688	313.00	588	434.00	481
123.00	6412	218.00	4695	314.00	2578	435.00	541
124.00	3237	219.00	526	315.00	5380	436.00	830
125.00	3030	221.00	34072	316.00	2981	437.00	561
127.00	248640	223.00	8953	317.00	614	438.00	1387
128.00	19008	224.00	81424	318.00	58	439.00	1873
129.00	95752	225.00	20664	319.00	80	441.00	117792
130.00	7750	226.00	1682	320.00	220	442.00	751488
131.00	1597	227.00	32712	321.00	1696	443.00	140672
132.00	1133	228.00	4635	322.00	898	444.00	12852
133.00	220	229.00	6884	323.00	16864		
134.00	2659	230.00	974	324.00	3215		

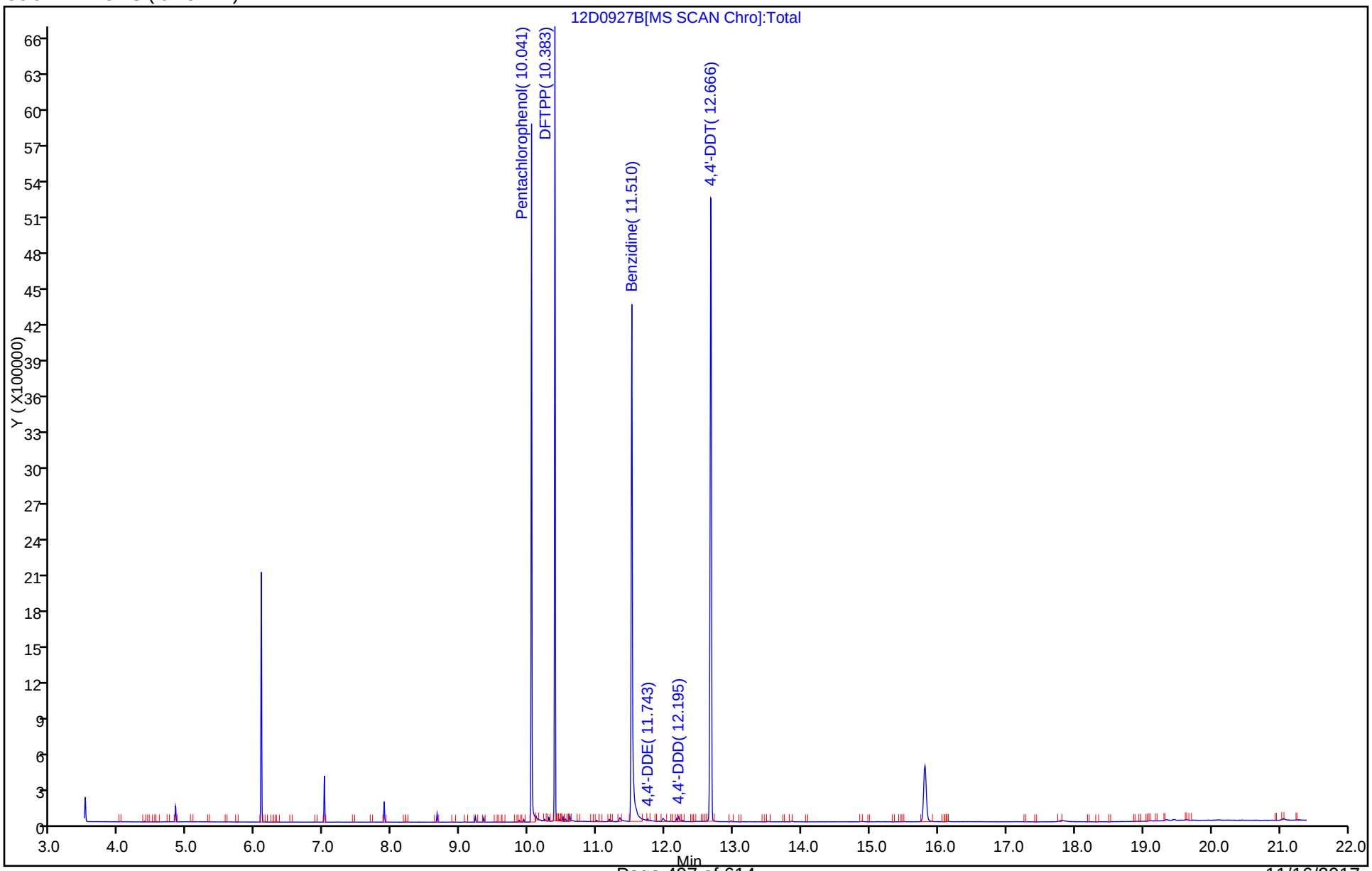
Report Date: 28-Sep-2017 10:22:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D

Injection Date:	27-Sep-2017 12:29:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	dftpp			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)

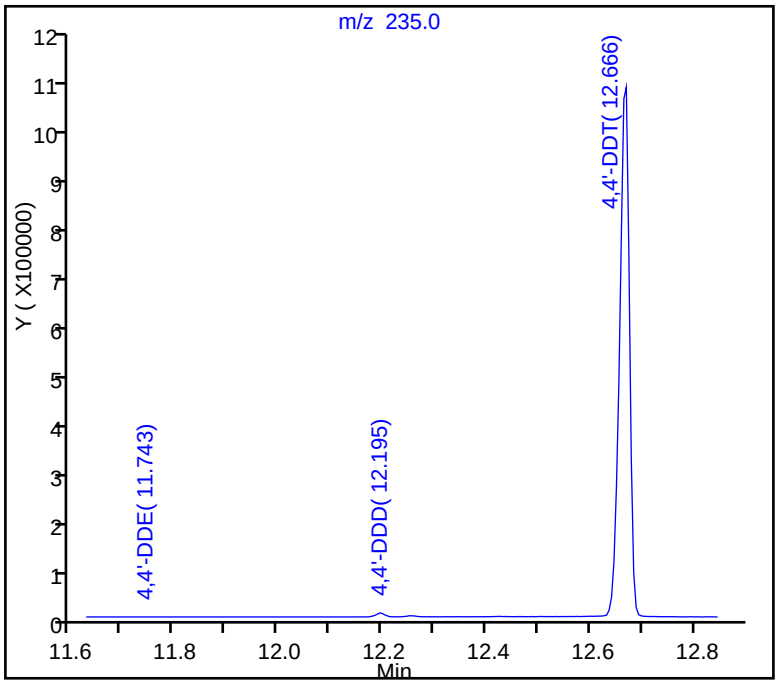


Breakdown Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D
Injection Date: 27-Sep-2017 12:29:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

168 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

168 4,4'-DDT, Area = 1399207
167 4,4'-DDD, Area = 9345
166 4,4'-DDE, Area = 1693

%Breakdown: 0.78%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Chicago

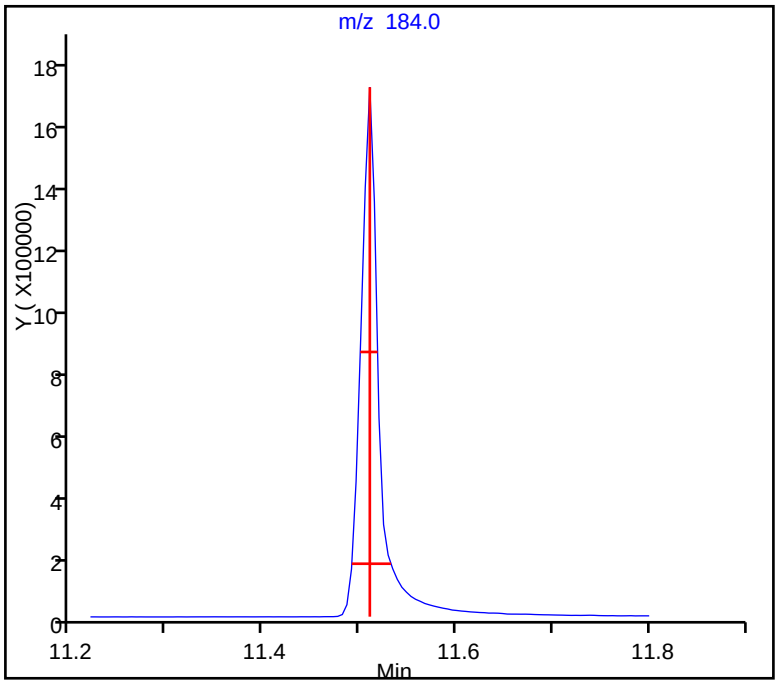
Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D
Injection Date: 27-Sep-2017 12:29:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

136 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Chicago

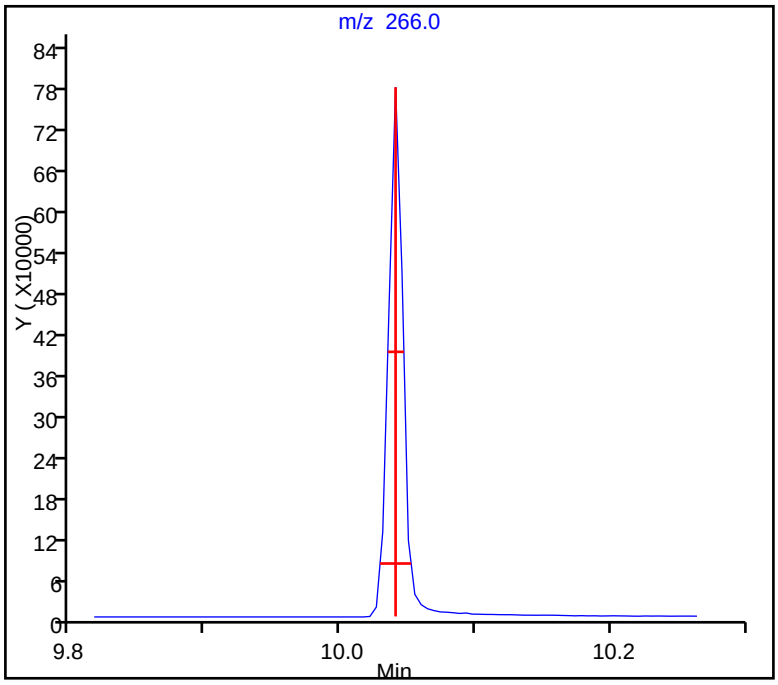
Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D
Injection Date: 27-Sep-2017 12:29:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

120 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12D1027.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Oct-2017 08:50:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 500-0048658-001
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 12:21:34 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: diaza Date: 27-Oct-2017 12:21:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
120 Pentachlorophenol	266	9.235	9.235	0.000	89	319502	NR	NR	
136 Benzidine	184	10.510	10.510	0.000	97	1746986	NR	NR	
165 DFTPP									
166 4,4'-DDE	246	10.685	10.685	0.000	86	1431		NR	
167 4,4'-DDD	235	11.037	11.037	0.000	88	13724		NR	M
168 4,4'-DDT	235	11.394	11.394	0.000	98	1125093	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated

Reagents:

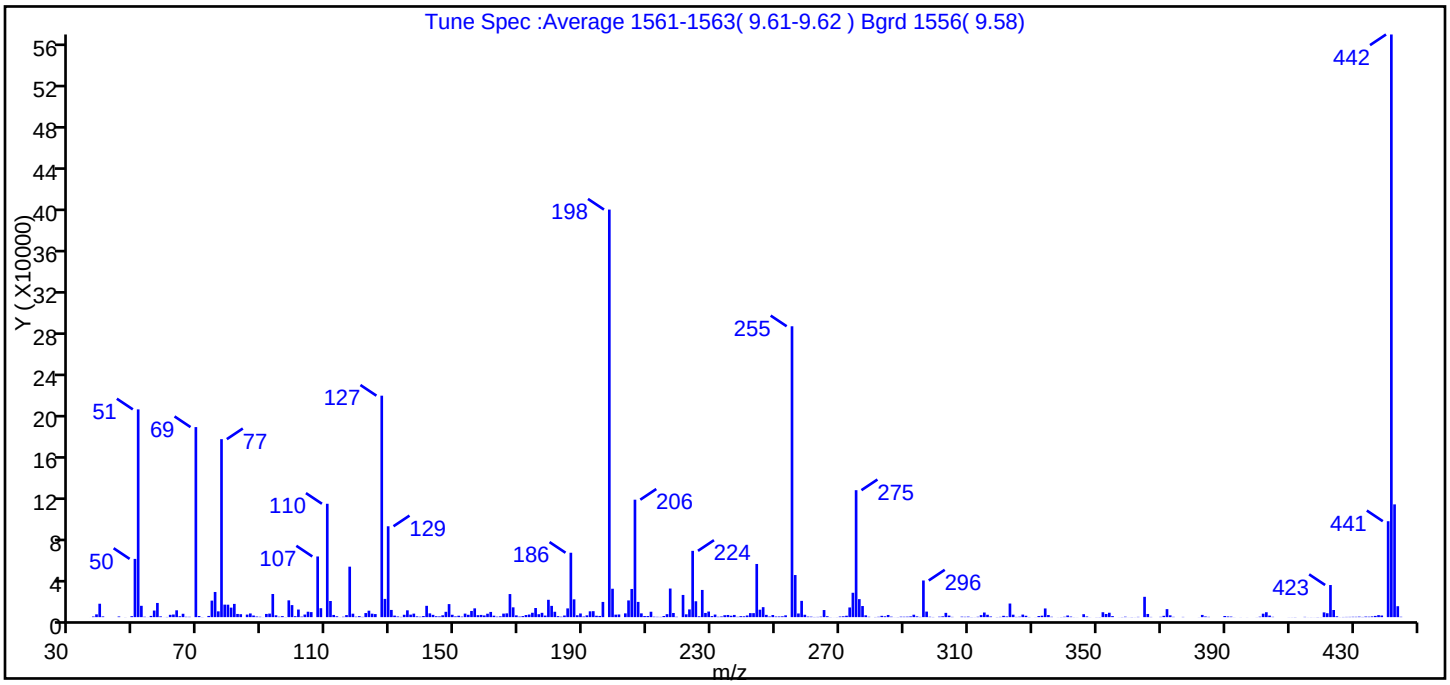
HIVOL_DFTPPWK_00083 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12D1027.D
Injection Date: 27-Oct-2017 08:50:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Tune Method: DFTPP Method 8270D, BP 198

165 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (69.9)
51	10-80% of the base peak	51.0
68	<2% of mass 69	0.0 (0.0)
69	Present	46.6
70	<2% of mass 69	0.3 (0.6)
127	10-80% of the base peak	54.3
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	31.2
365	>1% of mass 198	5.0
441	present but <24% of mass 442	23.5 (16.5)
442	base peak, or >50% of 198	143.0
443	15-24% of mass 442	27.7 (19.4)

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12D1027.D\12-LVI8270.rslt\spectra.d
Injection Date: 27-Oct-2017 08:50:30
Spectrum: Tune Spec :Average 1561-1563(9.61-9.62) Bgrd 1556(9.58)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	15	138.00	745	232.00	386	329.00	172
37.00	639	139.00	398	233.00	668	331.00	70
38.00	2711	140.00	1073	234.00	1872	332.00	1067
39.00	13036	141.00	10991	235.00	2105	333.00	1416
40.00	717	142.00	3679	236.00	1377	334.00	8444
41.00	11	143.00	2236	237.00	2142	335.00	2036
45.00	665	144.00	869	238.00	345	336.00	365
47.00	77	145.00	720	239.00	952	338.00	63
49.00	930	146.00	1803	240.00	809	339.00	142
50.00	56608	147.00	5172	241.00	1619	340.00	360
51.00	201920	148.00	12682	242.00	3906	341.00	1611
52.00	11010	149.00	2316	243.00	3898	342.00	529
53.00	389	150.00	713	244.00	51680	343.00	84
54.00	53	151.00	1382	245.00	7227	344.00	52
55.00	1192	152.00	524	246.00	9700	346.00	2857
56.00	6411	153.00	3430	247.00	2204	347.00	659
57.00	13778	154.00	2287	248.00	598	348.00	63
58.00	738	155.00	6021	249.00	2083	350.00	102
59.00	38	156.00	8545	250.00	579	351.00	123
60.00	182	157.00	1921	251.00	635	352.00	4785
61.00	2256	158.00	2151	252.00	808	353.00	3069
62.00	2550	159.00	1634	253.00	1751	354.00	4276
63.00	6640	160.00	3330	255.00	282688	355.00	1014
64.00	822	161.00	5074	256.00	40920	357.00	53
65.00	3278	162.00	1419	257.00	3557	358.00	145
66.00	354	163.00	471	258.00	15819	359.00	427
67.00	330	164.00	774	259.00	2318	360.00	52
69.00	184704	165.00	3423	260.00	554	361.00	140
70.00	1060	166.00	3672	261.00	450	362.00	65
71.00	119	167.00	22440	262.00	176	363.00	262
73.00	1170	168.00	9531	263.00	243	365.00	19760
74.00	16062	169.00	1736	264.00	469	366.00	3090
75.00	24464	170.00	549	265.00	6896	367.00	219

Report Date: 27-Oct-2017 12:21:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12D1027.D\12-LVI8270.rslt\spectra.d
Injection Date: 27-Oct-2017 08:50:30
Spectrum: Tune Spec :Average 1561-1563(9.61-9.62) Bgrd 1556(9.58)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	5642	171.00	1035	266.00	885	370.00	309
77.00	172992	172.00	2047	267.00	113	371.00	1295
78.00	12167	173.00	2544	268.00	34	372.00	7790
79.00	12092	174.00	4253	269.00	85	373.00	1785
80.00	9264	175.00	8871	270.00	582	374.00	299
81.00	12873	176.00	2853	271.00	815	377.00	231
82.00	3103	177.00	4198	272.00	1370	382.00	71
83.00	2869	178.00	1510	273.00	9410	383.00	2153
85.00	2495	179.00	16856	274.00	23696	384.00	655
86.00	3592	180.00	10951	275.00	123384	385.00	284
87.00	1566	181.00	5226	276.00	17504	390.00	1108
88.00	611	182.00	974	277.00	10789	391.00	657
89.00	369	183.00	419	278.00	1772	392.00	531
90.00	61	184.00	1582	279.00	361	393.00	62
91.00	3124	185.00	8508	281.00	162	395.00	64
92.00	3445	186.00	62592	282.00	352	397.00	53
93.00	22504	187.00	17304	283.00	1284	400.00	72
94.00	1786	188.00	1826	284.00	804	401.00	444
95.00	427	189.00	3568	285.00	2111	402.00	3368
96.00	992	190.00	582	286.00	456	403.00	4779
97.00	103	191.00	1741	287.00	59	404.00	1523
98.00	16331	192.00	5654	288.00	121	405.00	319
99.00	11696	193.00	5804	289.00	454	410.00	69
100.00	902	194.00	1353	290.00	398	411.00	74
101.00	7390	195.00	1155	291.00	471	412.00	129
102.00	503	196.00	14787	292.00	708	415.00	259
103.00	2512	198.00	396096	293.00	2354	416.00	54
104.00	5269	199.00	27608	294.00	735	417.00	84
105.00	4891	200.00	2436	295.00	223	418.00	53
107.00	58968	201.00	2595	296.00	35632	419.00	141
108.00	8685	203.00	3668	297.00	5408	420.00	81
110.00	110184	204.00	16254	298.00	380	421.00	4622
111.00	15693	205.00	27384	299.00	169	422.00	3807
112.00	2143	206.00	114152	301.00	460	423.00	31216

Report Date: 27-Oct-2017 12:21:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12D1027.D\12-LVI8270.rslt\spectra.d
Injection Date: 27-Oct-2017 08:50:30
Spectrum: Tune Spec :Average 1561-1563(9.61-9.62) Bgrd 1556(9.58)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	839	207.00	14814	302.00	769	424.00	6937
114.00	61	208.00	3685	303.00	4163	425.00	781
115.00	414	209.00	1064	304.00	1494	426.00	71
116.00	1983	210.00	1065	305.00	256	427.00	180
117.00	49064	211.00	5255	308.00	473	428.00	236
118.00	3358	212.00	439	309.00	344	429.00	265
119.00	439	213.00	323	310.00	507	430.00	357
120.00	976	214.00	250	311.00	127	431.00	334
121.00	251	215.00	1113	312.00	71	432.00	493
122.00	3972	216.00	2879	313.00	363	433.00	198
123.00	6271	217.00	27800	314.00	1955	434.00	565
124.00	3361	218.00	4037	315.00	4501	435.00	443
125.00	2984	219.00	357	316.00	2307	436.00	717
127.00	215232	221.00	21576	317.00	642	437.00	1202
128.00	17728	222.00	2755	319.00	143	438.00	1963
129.00	88320	223.00	7521	320.00	272	439.00	1572
130.00	7001	224.00	64432	321.00	1292	441.00	93232
131.00	1491	225.00	15433	322.00	630	442.00	566272
132.00	663	226.00	830	323.00	13237	443.00	109592
133.00	245	227.00	26440	324.00	2384	444.00	10627
134.00	2309	228.00	4080	325.00	233	445.00	362
135.00	6623	229.00	5451	326.00	425		
136.00	2449	230.00	1022	327.00	2488		
137.00	3420	231.00	2510	328.00	1330		

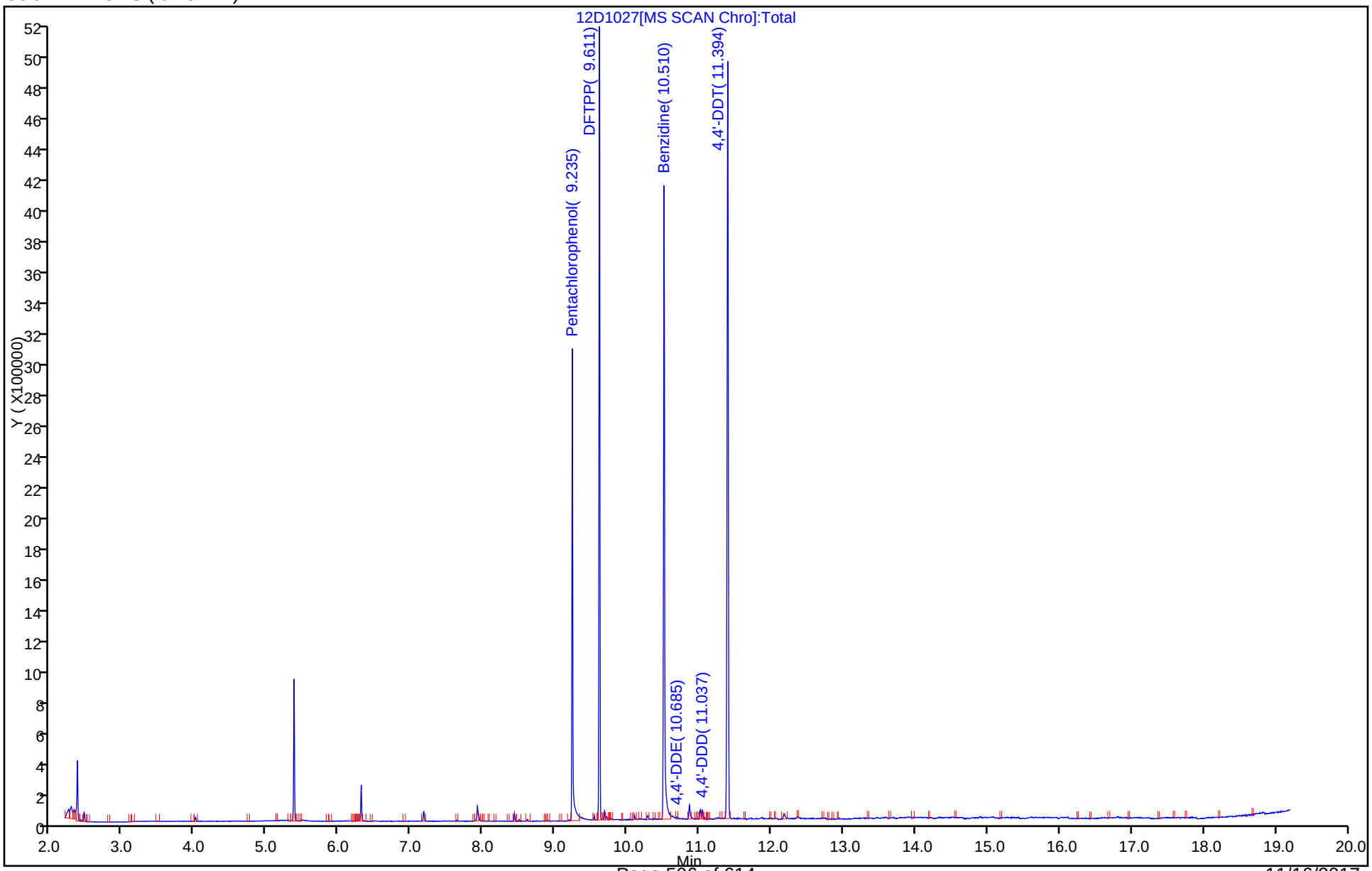
Report Date: 27-Oct-2017 12:21:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12D1027.D

Injection Date:	27-Oct-2017 08:50:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	dftpp			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)

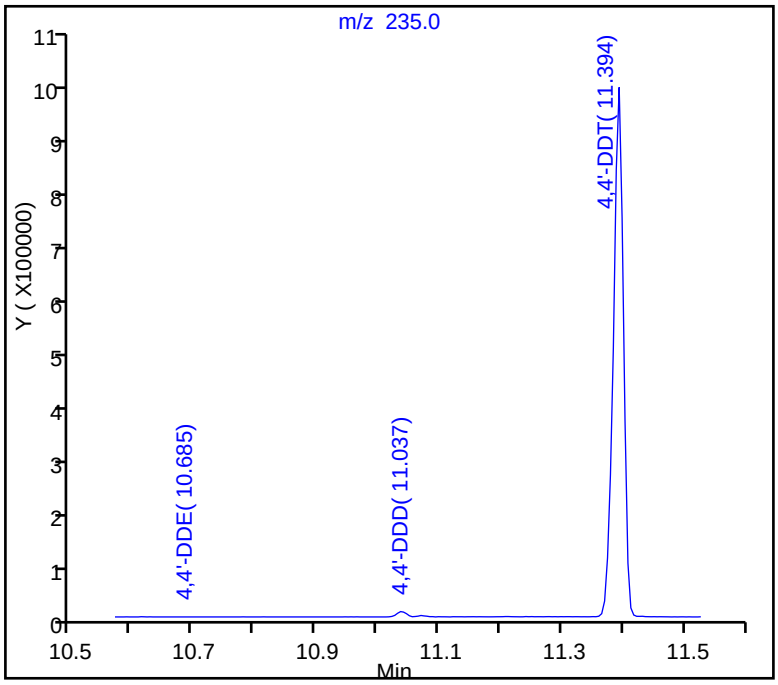


Breakdown Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12D1027.D
Injection Date: 27-Oct-2017 08:50:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

168 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

168 4,4'-DDT, Area = 1125093
167 4,4'-DDD, Area = 13724
166 4,4'-DDE, Area = 1431

%Breakdown: 1.33%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Chicago

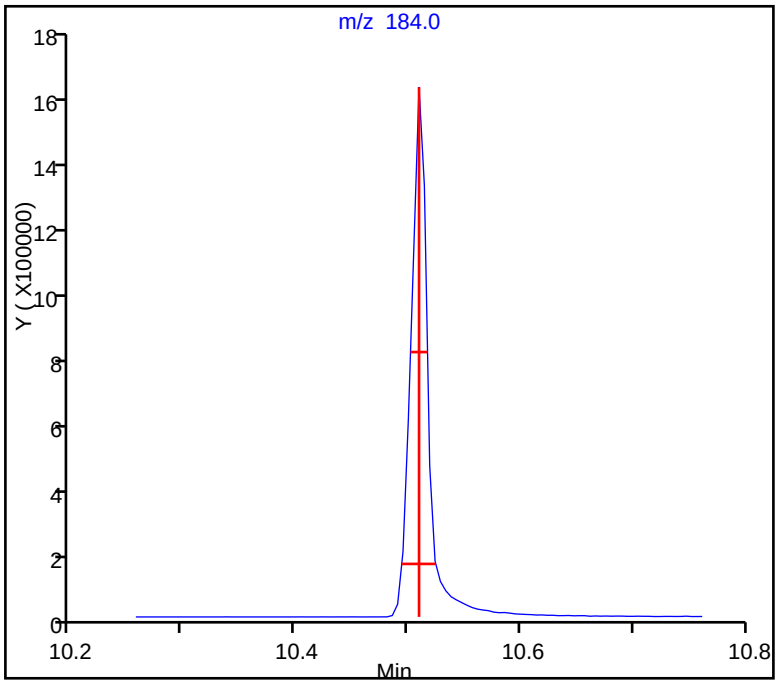
Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12D1027.D
Injection Date: 27-Oct-2017 08:50:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

136 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Chicago

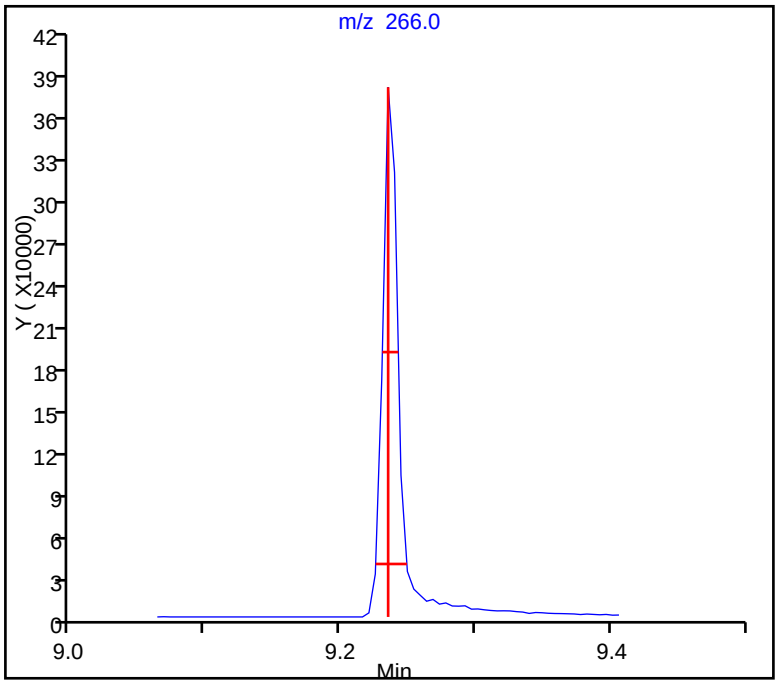
Data File: \\ChromNA\Chicago\ChromData\CMS12\20171027-48658.b\12D1027.D
Injection Date: 27-Oct-2017 08:50:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

120 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.009 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-407229/1-A

Matrix: Water | Lab File ID: MB 500-407229.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/27/2017 07:20

Sample wt/vol: 250(mL) | Date Analyzed: 10/27/2017 11:36

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407268 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	<32		32	12
108-95-2	Phenol	<4.0		4.0	0.54
111-44-4	Bis(2-chloroethyl)ether	<1.6		1.6	0.23
95-57-8	2-Chlorophenol	<4.0		4.0	0.45
95-48-7	2-Methylphenol	<1.6		1.6	0.24
108-60-1	2,2'-oxybis[1-chloropropane]	<1.6		1.6	0.30
98-86-2	Acetophenone	<4.0		4.0	0.53
621-64-7	N-Nitrosodi-n-propylamine	<0.40		0.40	0.12
67-72-1	Hexachloroethane	<4.0		4.0	0.48
98-95-3	Nitrobenzene	<0.80		0.80	0.36
78-59-1	Isophorone	<1.6		1.6	0.30
88-75-5	2-Nitrophenol	<8.0		8.0	2.0
105-67-9	2,4-Dimethylphenol	<8.0		8.0	1.4
111-91-1	Bis(2-chloroethoxy)methane	<1.6		1.6	0.23
120-83-2	2,4-Dichlorophenol	<8.0		8.0	2.1
91-20-3	Naphthalene	<0.80		0.80	0.25
106-47-8	4-Chloroaniline	<8.0		8.0	1.6
87-68-3	Hexachlorobutadiene	<4.0		4.0	0.41
105-60-2	Caprolactam	<8.0		8.0	1.2
59-50-7	4-Chloro-3-methylphenol	<8.0		8.0	1.8
91-57-6	2-Methylnaphthalene	<1.6		1.6	0.052
77-47-4	Hexachlorocyclopentadiene	<16		16	5.1
88-06-2	2,4,6-Trichlorophenol	<4.0		4.0	0.57
95-95-4	2,4,5-Trichlorophenol	<8.0		8.0	2.1
92-52-4	1,1'-Biphenyl	<4.0		4.0	0.29
91-58-7	2-Chloronaphthalene	<1.6		1.6	0.19
88-74-4	2-Nitroaniline	<4.0		4.0	1.0
131-11-3	Dimethyl phthalate	<4.0		4.0	0.25
606-20-2	2,6-Dinitrotoluene	<0.80		0.80	0.059
208-96-8	Acenaphthylene	<0.80		0.80	0.21
99-09-2	3-Nitroaniline	<8.0		8.0	1.4
83-32-9	Acenaphthene	<0.80		0.80	0.25
51-28-5	2,4-Dinitrophenol	<16		16	6.9
100-02-7	4-Nitrophenol	<16		16	5.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-407229/1-A

Matrix: Water | Lab File ID: MB 500-407229.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/27/2017 07:20

Sample wt/vol: 250(mL) | Date Analyzed: 10/27/2017 11:36

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407268 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
132-64-9	Dibenzofuran	<1.6		1.6	0.21
121-14-2	2,4-Dinitrotoluene	<0.80		0.80	0.20
84-66-2	Diethyl phthalate	<4.0		4.0	0.29
86-73-7	Fluorene	<0.80		0.80	0.20
7005-72-3	4-Chlorophenyl phenyl ether	<4.0		4.0	0.51
100-01-6	4-Nitroaniline	<8.0		8.0	1.3
534-52-1	4,6-Dinitro-2-methylphenol	<16		16	4.7
86-30-6	N-Nitrosodiphenylamine	<1.6		1.6	0.30
101-55-3	4-Bromophenyl phenyl ether	<4.0		4.0	0.43
118-74-1	Hexachlorobenzene	<0.40		0.40	0.064
1912-24-9	Atrazine	<4.0		4.0	0.50
87-86-5	Pentachlorophenol	<16		16	3.2
85-01-8	Phenanthrene	<0.80		0.80	0.24
120-12-7	Anthracene	<0.80		0.80	0.27
86-74-8	Carbazole	<4.0		4.0	0.28
84-74-2	Di-n-butyl phthalate	<4.0		4.0	0.58
206-44-0	Fluoranthene	<0.80		0.80	0.36
129-00-0	Pyrene	<0.80		0.80	0.34
85-68-7	Butyl benzyl phthalate	<1.6		1.6	0.38
91-94-1	3,3'-Dichlorobenzidine	<4.0		4.0	1.4
56-55-3	Benzo[a]anthracene	<0.16		0.16	0.045
218-01-9	Chrysene	<0.16		0.16	0.055
117-81-7	Bis(2-ethylhexyl) phthalate	<8.0		8.0	1.4
117-84-0	Di-n-octyl phthalate	<8.0		8.0	0.84
205-99-2	Benzo[b]fluoranthene	<0.16		0.16	0.065
207-08-9	Benzo[k]fluoranthene	<0.16		0.16	0.051
50-32-8	Benzo[a]pyrene	<0.16		0.16	0.079
193-39-5	Indeno[1,2,3-cd]pyrene	<0.16		0.16	0.060
53-70-3	Dibenz(a,h)anthracene	<0.24		0.24	0.041
191-24-2	Benzo[g,h,i]perylene	<0.80		0.80	0.30
15831-10-4	3 & 4 Methylphenol	<1.6		1.6	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-407229/1-A

Matrix: Water | Lab File ID: MB 500-407229.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/27/2017 07:20

Sample wt/vol: 250(mL) | Date Analyzed: 10/27/2017 11:36

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407268 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	66		27-110
4165-62-2	Phenol-d5 (Surr)	44		20-100
4165-60-0	Nitrobenzene-d5 (Surr)	75		36-120
321-60-8	2-Fluorobiphenyl (Surr)	76		34-110
118-79-6	2,4,6-Tribromophenol (Surr)	88		40-145
1718-51-0	Terphenyl-d14 (Surr)	98		40-145

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\MB 500-407229.D
Lims ID: MB 500-407229/1-A
Client ID:
Sample Type: MB
Inject. Date: 27-Oct-2017 11:36:30 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: MB 500-407229/1-A
Misc. Info.: 500-0048660-007
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 12:06:35 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: squiresb Date: 27-Oct-2017 12:06:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.511	6.516	-0.005	96	88637	3.20	3.20	
* 2 Naphthalene-d8	136	7.576	7.586	-0.010	99	363714	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.070	-0.005	95	206610	3.20	3.20	
* 4 Phenanthrene-d10	188	10.325	10.335	-0.010	98	350353	3.20	3.20	
* 5 Chrysene-d12	240	13.820	13.839	-0.019	99	273641	3.20	3.20	
* 6 Perylene-d12	264	17.834	17.853	-0.019	97	273974	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.427	-0.005	94	170115	10.0	6.60	
$ 8 Phenol-d5	99	6.164	6.173	-0.009	93	171552	10.0	4.45	
$ 9 Nitrobenzene-d5	82	6.963	6.968	-0.005	90	319248	10.0	7.49	
$ 10 2-Fluorobiphenyl	172	8.466	8.470	-0.004	97	663221	10.0	7.62	
$ 11 2,4,6-Tribromophenol	330	9.726	9.735	-0.009	91	94983	10.0	8.76	
$ 12 Terphenyl-d14	244	12.013	12.018	-0.005	99	680467	10.0	9.80	

Reagents:

SM_HIVOLISTD_00158 Amount Added: 10.00 Units: uL Run Reagent

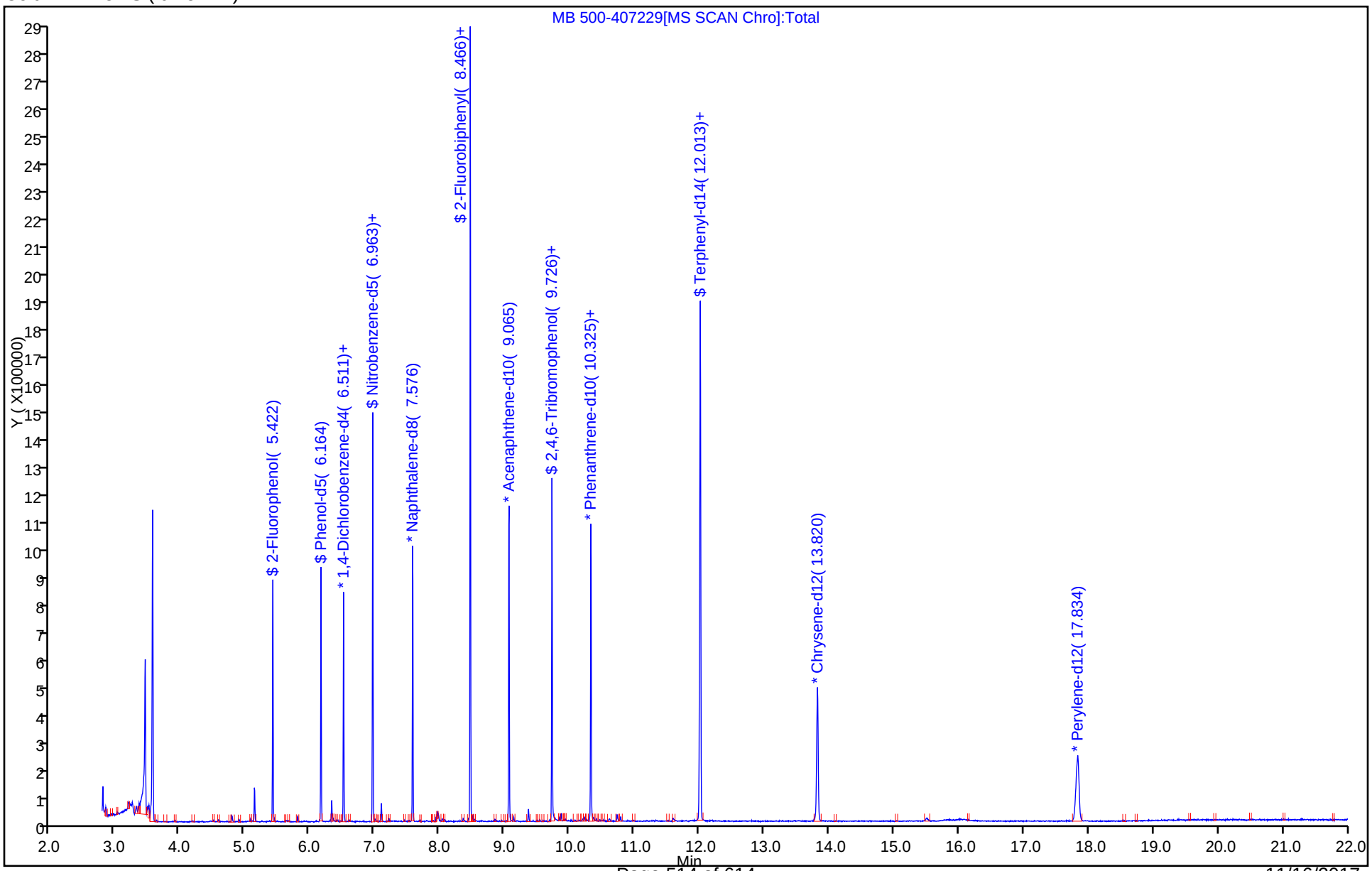
Report Date: 27-Oct-2017 12:06:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\MB 500-407229.D

Injection Date:	27-Oct-2017 11:36:30	Instrument ID:	CMS01	Operator ID:	AD
Lims ID:	MB 500-407229/1-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\MB 500-407229.D
Lims ID: MB 500-407229/1-A
Client ID:
Sample Type: MB
Inject. Date: 27-Oct-2017 11:36:30 ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: MB 500-407229/1-A
Misc. Info.: 500-0048660-007
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 12:06:35 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: squiresb Date: 27-Oct-2017 12:06:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	10.0	6.60	65.96
$ 8 Phenol-d5	10.0	4.45	44.48
$ 9 Nitrobenzene-d5	10.0	7.49	74.93
$ 10 2-Fluorobiphenyl	10.0	7.62	76.20
$ 11 2,4,6-Tribromophenol	10.0	8.76	87.63
$ 12 Terphenyl-d14	10.0	9.80	98.01

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-407229/2-A

Matrix: Water | Lab File ID: LCS 500-407229.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/27/2017 07:20

Sample wt/vol: 250(mL) | Date Analyzed: 10/27/2017 10:36

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407268 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	23.6	J	32	12
108-95-2	Phenol	18.7		4.0	0.54
111-44-4	Bis(2-chloroethyl)ether	26.9		1.6	0.23
95-57-8	2-Chlorophenol	27.2		4.0	0.45
95-48-7	2-Methylphenol	27.6		1.6	0.24
108-60-1	2,2'-oxybis[1-chloropropane]	23.5		1.6	0.30
98-86-2	Acetophenone	25.9		4.0	0.53
621-64-7	N-Nitrosodi-n-propylamine	26.1		0.40	0.12
67-72-1	Hexachloroethane	15.1		4.0	0.48
98-95-3	Nitrobenzene	26.7		0.80	0.36
78-59-1	Isophorone	26.8		1.6	0.30
88-75-5	2-Nitrophenol	27.2		8.0	2.0
105-67-9	2,4-Dimethylphenol	28.0		8.0	1.4
111-91-1	Bis(2-chloroethoxy)methane	28.6		1.6	0.23
120-83-2	2,4-Dichlorophenol	27.9		8.0	2.1
91-20-3	Naphthalene	19.7		0.80	0.25
106-47-8	4-Chloroaniline	27.5		8.0	1.6
87-68-3	Hexachlorobutadiene	16.1		4.0	0.41
105-60-2	Caprolactam	19.1		8.0	1.2
59-50-7	4-Chloro-3-methylphenol	29.9		8.0	1.8
91-57-6	2-Methylnaphthalene	18.9		1.6	0.052
77-47-4	Hexachlorocyclopentadiene	16.5		16	5.1
88-06-2	2,4,6-Trichlorophenol	27.7		4.0	0.57
95-95-4	2,4,5-Trichlorophenol	29.4		8.0	2.1
92-52-4	1,1'-Biphenyl	21.9		4.0	0.29
91-58-7	2-Chloronaphthalene	21.0		1.6	0.19
88-74-4	2-Nitroaniline	30.1		4.0	1.0
131-11-3	Dimethyl phthalate	29.6		4.0	0.25
606-20-2	2,6-Dinitrotoluene	30.3		0.80	0.059
208-96-8	Acenaphthylene	22.8		0.80	0.21
99-09-2	3-Nitroaniline	29.2		8.0	1.4
83-32-9	Acenaphthene	25.6		0.80	0.25
51-28-5	2,4-Dinitrophenol	60.5		16	6.9
100-02-7	4-Nitrophenol	39.9		16	5.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-407229/2-A

Matrix: Water | Lab File ID: LCS 500-407229.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/27/2017 07:20

Sample wt/vol: 250(mL) | Date Analyzed: 10/27/2017 10:36

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407268 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
132-64-9	Dibenzofuran	25.0		1.6	0.21
121-14-2	2,4-Dinitrotoluene	30.0		0.80	0.20
84-66-2	Diethyl phthalate	29.9		4.0	0.29
86-73-7	Fluorene	26.8		0.80	0.20
7005-72-3	4-Chlorophenyl phenyl ether	24.9		4.0	0.51
100-01-6	4-Nitroaniline	30.4		8.0	1.3
534-52-1	4,6-Dinitro-2-methylphenol	61.7		16	4.7
86-30-6	N-Nitrosodiphenylamine	30.1		1.6	0.30
101-55-3	4-Bromophenyl phenyl ether	27.1		4.0	0.43
118-74-1	Hexachlorobenzene	27.9		0.40	0.064
1912-24-9	Atrazine	29.3		4.0	0.50
87-86-5	Pentachlorophenol	60.0		16	3.2
85-01-8	Phenanthrene	29.8		0.80	0.24
120-12-7	Anthracene	30.6		0.80	0.27
86-74-8	Carbazole	32.5		4.0	0.28
84-74-2	Di-n-butyl phthalate	32.3		4.0	0.58
206-44-0	Fluoranthene	31.4		0.80	0.36
129-00-0	Pyrene	31.1		0.80	0.34
85-68-7	Butyl benzyl phthalate	32.9		1.6	0.38
91-94-1	3,3'-Dichlorobenzidine	32.2		4.0	1.4
56-55-3	Benzo[a]anthracene	30.9		0.16	0.045
218-01-9	Chrysene	32.6		0.16	0.055
117-81-7	Bis(2-ethylhexyl) phthalate	32.7		8.0	1.4
117-84-0	Di-n-octyl phthalate	32.1		8.0	0.84
205-99-2	Benzo[b]fluoranthene	32.1		0.16	0.065
207-08-9	Benzo[k]fluoranthene	30.9		0.16	0.051
50-32-8	Benzo[a]pyrene	31.3		0.16	0.079
193-39-5	Indeno[1,2,3-cd]pyrene	32.4		0.16	0.060
53-70-3	Dibenz(a,h)anthracene	32.1		0.24	0.041
191-24-2	Benzo[g,h,i]perylene	31.5		0.80	0.30
15831-10-4	3 & 4 Methylphenol	26.8		1.6	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136329-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-407229/2-A

Matrix: Water | Lab File ID: LCS 500-407229.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/27/2017 07:20

Sample wt/vol: 250(mL) | Date Analyzed: 10/27/2017 10:36

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407268 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	70		27-110
4165-62-2	Phenol-d5 (Surr)	60		20-100
4165-60-0	Nitrobenzene-d5 (Surr)	86		36-120
321-60-8	2-Fluorobiphenyl (Surr)	84		34-110
118-79-6	2,4,6-Tribromophenol (Surr)	96		40-145
1718-51-0	Terphenyl-d14 (Surr)	105		40-145

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\LCS 500-407229.D
Lims ID: LCS 500-407229/2-A
Client ID:
Sample Type: LCS
Inject. Date: 27-Oct-2017 10:36:30 ALS Bottle#: 3 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: LCS 500-407229/2-A
Misc. Info.: 500-0048660-005
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 11:17:58 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: rynkarg Date: 27-Oct-2017 11:16:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	96	104492	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.586	-0.005	99	408296	3.20	3.20	
* 3 Acenaphthene-d10	164	9.069	9.070	-0.001	94	203283	3.20	3.20	
* 4 Phenanthrene-d10	188	10.334	10.335	-0.001	98	323764	3.20	3.20	
* 5 Chrysene-d12	240	13.839	13.839	0.000	99	257926	3.20	3.20	
* 6 Perylene-d12	264	17.858	17.853	0.005	97	264234	3.20	3.20	
$ 7 2-Fluorophenol	112	5.427	5.427	0.000	96	216924	10.0	7.02	
$ 8 Phenol-d5	99	6.173	6.173	0.000	93	272345	10.0	5.99	
$ 9 Nitrobenzene-d5	82	6.968	6.968	0.000	90	412377	10.0	8.62	
$ 10 2-Fluorobiphenyl	172	8.470	8.470	0.000	97	722224	10.0	8.43	
$ 11 2,4,6-Tribromophenol	330	9.735	9.735	0.000	93	101970	10.0	9.56	
$ 12 Terphenyl-d14	244	12.018	12.018	0.000	99	688460	10.0	10.5	
13 1,4-Dioxane	88	3.872	3.872	0.000	85	48518	8.00	5.27	
14 N-Nitrosodimethylamine	42	4.176	4.176	0.000	55	229191	8.00	5.94	
15 Pyridine	79	4.228	4.228	0.000	94	305022	16.0	9.83	
25 Benzaldehyde	77	6.145	6.150	-0.005	96	84181	8.00	5.90	
26 Phenol	94	6.183	6.188	-0.005	96	220930	8.00	4.67	
27 Aniline	93	6.235	6.235	0.000	98	398656	8.00	6.41	
28 Bis(2-chloroethyl)ether	93	6.268	6.269	-0.001	98	242740	8.00	6.72	
29 2-Chlorophenol	128	6.345	6.345	0.000	96	272598	8.00	6.79	
30 n-Decane	43	6.359	6.364	-0.005	71	296871	8.00	3.93	
31 1,3-Dichlorobenzene	146	6.473	6.478	-0.005	99	194365	8.00	3.96	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	95	200233	8.00	3.98	
36 Benzyl alcohol	108	6.606	6.611	-0.005	91	196832	8.00	6.98	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	96	202062	8.00	4.20	
38 2-Methylphenol	107	6.687	6.687	0.000	88	229155	8.00	6.91	
39 2,2'-oxybis[1-chloropropan	45	6.711	6.716	-0.005	88	613602	8.00	5.87	
40 Indene	116	6.735	6.739	-0.005	91	691228	16.0	8.78	
42 3 & 4 Methylphenol	108	6.811	6.811	0.000	96	273760	8.00	6.69	
43 N-Nitrosodi-n-propylamine	70	6.825	6.825	0.000	94	216218	8.00	6.53	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
44 Acetophenone	105	6.834	6.834	0.000	94	404907	8.00	6.48	
45 Hexachloroethane	117	6.953	6.953	0.000	91	74096	8.00	3.77	
46 Nitrobenzene	77	6.987	6.982	0.005	94	295576	8.00	6.68	
48 Isophorone	82	7.177	7.177	0.000	96	512123	8.00	6.69	
50 2-Nitrophenol	139	7.248	7.248	0.000	88	150789	8.00	6.81	
51 2,4-Dimethylphenol	122	7.253	7.253	0.000	88	266057	8.00	6.99	
52 Bis(2-chloroethoxy)methane	93	7.329	7.329	0.000	98	315098	8.00	7.14	
54 Benzoic acid	122	7.329	7.358	-0.029	91	113170	16.0	6.94	
55 2,4-Dichlorophenol	162	7.448	7.448	0.000	94	256014	8.00	6.96	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	93	185738	8.00	4.53	
58 Naphthalene	128	7.600	7.605	-0.005	98	599418	8.00	4.93	
60 4-Chloroaniline	127	7.624	7.624	0.000	97	344258	8.00	6.89	
62 2,6-Dichlorophenol	162	7.638	7.638	0.000	97	256832	8.00	6.95	
63 Hexachlorobutadiene	225	7.700	7.700	0.000	96	87309	8.00	4.02	
65 Caprolactam	113	7.928	7.914	0.014	72	51710	8.00	4.78	
66 4-Chloro-3-methylphenol	107	8.004	8.009	-0.005	97	266388	8.00	7.48	
68 2-Methylnaphthalene	142	8.175	8.180	-0.005	99	402356	8.00	4.74	
70 1-Methylnaphthalene	142	8.266	8.266	0.000	99	387759	8.00	5.06	
72 Hexachlorocyclopentadiene	237	8.318	8.318	0.000	95	100390	8.00	4.11	
73 1,2,4,5-Tetrachlorobenzene	216	8.323	8.323	0.000	97	181380	8.00	4.63	
74 2,4,6-Trichlorophenol	196	8.404	8.404	0.000	90	181331	8.00	6.93	
76 2,4,5-Trichlorophenol	196	8.437	8.437	0.000	97	193700	8.00	7.34	
79 1,1'-Biphenyl	154	8.561	8.561	0.000	95	526232	8.00	5.46	
80 2-Chloronaphthalene	162	8.594	8.594	0.000	99	423445	8.00	5.24	
81 2-Nitroaniline	65	8.656	8.656	0.000	96	161886	8.00	7.51	
82 Dimethyl phthalate	163	8.794	8.789	0.005	100	605486	8.00	7.41	
83 1,3-Dinitrobenzene	168	8.827	8.827	0.000	82	88114	8.00	7.66	
84 2,6-Dinitrotoluene	165	8.851	8.851	0.000	94	136308	8.00	7.57	
86 Acenaphthylene	152	8.951	8.951	0.000	97	711461	8.00	5.70	
88 3-Nitroaniline	138	9.008	9.003	0.005	91	125259	8.00	7.31	
91 2,4-Dinitrophenol	184	9.089	9.089	-0.001	92	145855	16.0	15.1	
90 Acenaphthene	154	9.098	9.098	0.000	94	498853	8.00	6.40	
92 4-Nitrophenol	109	9.117	9.117	0.000	86	118524	16.0	9.98	
95 2,4-Dinitrotoluene	165	9.198	9.198	0.000	93	181334	8.00	7.49	
97 Dibenzofuran	168	9.241	9.241	0.000	96	679168	8.00	6.24	
99 2,3,4,6-Tetrachlorophenol	232	9.336	9.336	0.000	96	147281	8.00	7.36	
100 Diethyl phthalate	149	9.379	9.379	0.000	98	581817	8.00	7.47	
101 Hexadecane	57	9.379	9.379	0.000	78	251847	8.00	5.69	
103 4-Chlorophenyl phenyl ethe	204	9.502	9.507	-0.005	88	249567	8.00	6.23	
106 4-Nitroaniline	138	9.521	9.521	0.000	90	118211	8.00	7.59	
104 Fluorene	166	9.531	9.531	0.000	96	552951	8.00	6.70	
109 4,6-Dinitro-2-methylphenol	198	9.550	9.550	0.000	95	180544	16.0	15.4	
111 N-Nitrosodiphenylamine	169	9.597	9.602	-0.005	69	414665	8.00	7.53	
113 1,2-Diphenylhydrazine	77	9.640	9.640	0.000	98	605750	8.00	7.07	
119 4-Bromophenyl phenyl ether	248	9.921	9.921	0.000	84	141188	8.00	6.77	
122 Hexachlorobenzene	284	10.011	10.011	0.000	98	148117	8.00	6.97	
123 Atrazine	200	10.025	10.021	0.004	88	125546	8.00	7.33	
124 n-Octadecane	43	10.149	10.154	-0.005	87	475166	8.00	7.15	
125 Pentachlorophenol	266	10.163	10.163	0.000	97	182935	16.0	15.0	
127 Phenanthrene	178	10.358	10.358	0.000	97	839465	8.00	7.44	
128 Anthracene	178	10.401	10.401	0.000	99	875563	8.00	7.65	
129 Carbazole	167	10.525	10.525	0.000	96	787873	8.00	8.12	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
133 Di-n-butyl phthalate	149	10.791	10.791	0.000	99	966500	8.00	8.07	
136 Fluoranthene	202	11.576	11.581	-0.004	98	883625	8.00	7.85	
138 Benzidine	184	11.685	11.690	-0.005	99	103954	8.00	2.54	
141 Pyrene	202	11.871	11.871	0.000	97	886408	8.00	7.77	
147 Butyl benzyl phthalate	149	12.708	12.708	0.000	97	440898	8.00	8.22	
149 3,3'-Dichlorobenzidine	252	13.730	13.730	0.000	100	281220	8.00	8.04	
150 Bis(2-ethylhexyl) phthalat	149	13.801	13.801	0.000	86	594558	8.00	8.17	
151 Benzo[a]anthracene	228	13.820	13.820	0.000	98	801316	8.00	7.72	
152 Chrysene	228	13.896	13.896	0.000	99	765900	8.00	8.14	
155 Di-n-octyl phthalate	149	15.390	15.390	0.000	95	1021226	8.00	8.02	
157 Benzo[b]fluoranthene	252	16.555	16.545	0.010	98	767738	8.00	8.02	
158 Benzo[k]fluoranthene	252	16.645	16.640	0.005	99	748854	8.00	7.73	
160 Benzo[a]pyrene	252	17.663	17.658	0.005	97	751810	8.00	7.82	
163 Indeno[1,2,3-cd]pyrene	276	20.678	20.673	0.005	98	844016	8.00	8.10	
164 Dibenz(a,h)anthracene	278	20.749	20.740	0.009	97	694724	8.00	8.03	
165 Benzo[g,h,i]perylene	276	21.405	21.396	0.009	97	717373	8.00	7.87	

Reagents:

SM_HIVOLISTD_00158 Amount Added: 10.00 Units: uL Run Reagent

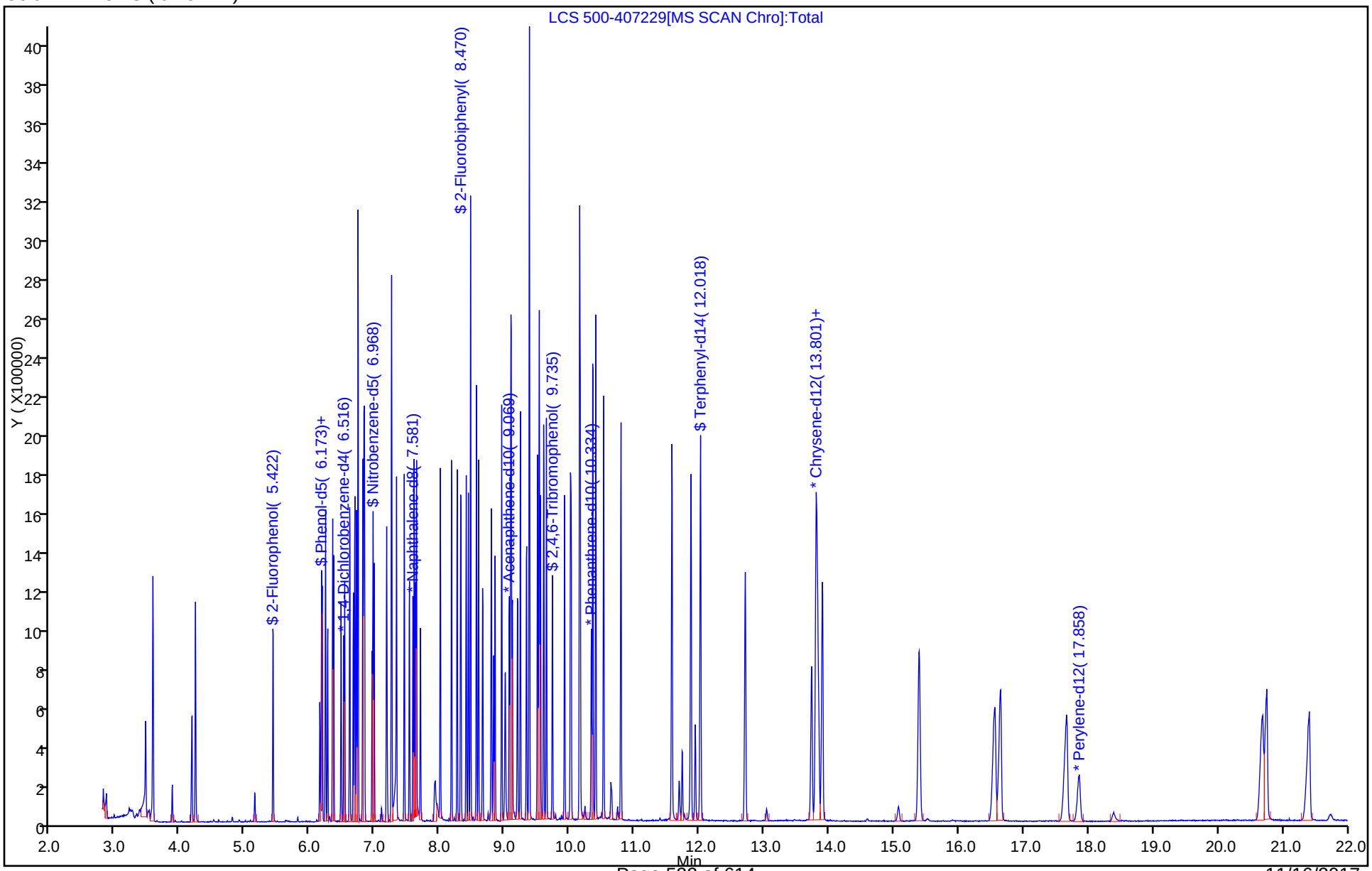
Report Date: 27-Oct-2017 11:18:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\LCS 500-407229.D

Injection Date:	27-Oct-2017 10:36:30	Instrument ID:	CMS01	Operator ID:	AD
Lims ID:	LCS 500-407229/2-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\LCS 500-407229.D
Lims ID: LCS 500-407229/2-A
Client ID:
Sample Type: LCS
Inject. Date: 27-Oct-2017 10:36:30 ALS Bottle#: 3 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: LCS 500-407229/2-A
Misc. Info.: 500-0048660-005
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171027-48660.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 11:17:58 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: rynkarg Date: 27-Oct-2017 11:16:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	10.0	7.02	70.15
$ 8 Phenol-d5	10.0	5.99	59.89
$ 9 Nitrobenzene-d5	10.0	8.62	86.22
$ 10 2-Fluorobiphenyl	10.0	8.43	84.33
$ 11 2,4,6-Tribromophenol	10.0	9.56	95.62
$ 12 Terphenyl-d14	10.0	10.5	105.21

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: CMS12 Start Date: 09/27/2017 12:29

Analysis Batch Number: 402944 End Date: 09/27/2017 18:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-402944/1		09/27/2017 12:29	1	12D0927B.D	ZB5MS 0.25(mm)
IC 500-402944/2		09/27/2017 13:02	1	L1STD2.D	ZB5MS 0.25(mm)
IC 500-402944/3		09/27/2017 13:31	1	L1STD02.D	ZB5MS 0.25(mm)
IC 500-402944/4		09/27/2017 14:01	1	L1STD05.D	ZB5MS 0.25(mm)
IC 500-402944/5		09/27/2017 14:30	1	L1STD1.D	ZB5MS 0.25(mm)
IC 500-402944/6		09/27/2017 14:59	1	L1STD5.D	ZB5MS 0.25(mm)
IC 500-402944/7		09/27/2017 15:29	1	L1STD10.D	ZB5MS 0.25(mm)
IC 500-402944/8		09/27/2017 15:58	1	L1STD20.D	ZB5MS 0.25(mm)
ICIS 500-402944/9		09/27/2017 16:28	1	L1STD40.D	ZB5MS 0.25(mm)
IC 500-402944/10		09/27/2017 16:57	1	L1STD50.D	ZB5MS 0.25(mm)
IC 500-402944/11		09/27/2017 17:27	1	L1STD60.D	ZB5MS 0.25(mm)
IC 500-402944/12		09/27/2017 17:56	1	L1STD70.D	ZB5MS 0.25(mm)
ICV 500-402944/13		09/27/2017 18:26	1	L1ICV.D	ZB5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: CMS01 Start Date: 10/26/2017 16:17

Analysis Batch Number: 407173 End Date: 10/26/2017 22:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-407173/1		10/26/2017 16:17	1	1D1026D.D	ZB5MS 0.25(mm)
IC 500-407173/2		10/26/2017 16:56	1	L1STD2.D	ZB5MS 0.25(mm)
IC 500-407173/3		10/26/2017 17:26	1	L1STD02.D	ZB5MS 0.25(mm)
IC 500-407173/4		10/26/2017 17:56	1	L1STD05.D	ZB5MS 0.25(mm)
IC 500-407173/5		10/26/2017 18:26	1	L1STD1.D	ZB5MS 0.25(mm)
IC 500-407173/6		10/26/2017 18:56	1	L1STD5.D	ZB5MS 0.25(mm)
IC 500-407173/7		10/26/2017 19:25	1	L1STD10.D	ZB5MS 0.25(mm)
IC 500-407173/8		10/26/2017 19:55	1	L1STD20.D	ZB5MS 0.25(mm)
ICIS 500-407173/9		10/26/2017 20:25	1	L1STD40.D	ZB5MS 0.25(mm)
IC 500-407173/10		10/26/2017 20:55	1	L1STD50.D	ZB5MS 0.25(mm)
IC 500-407173/11		10/26/2017 21:25	1	L1STD60.D	ZB5MS 0.25(mm)
IC 500-407173/12		10/26/2017 21:55	1	L1STD70.D	ZB5MS 0.25(mm)
ICV 500-407173/13		10/26/2017 22:25	1	L1ICV.D	ZB5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: CMS12 Start Date: 10/27/2017 08:50

Analysis Batch Number: 407256 End Date: 10/27/2017 19:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-407256/1		10/27/2017 08:50	1	12D1027.D	ZB5MS 0.25(mm)
CCVIS 500-407256/2		10/27/2017 09:17	1	12C1027.D	ZB5MS 0.25(mm)
CCVL 500-407256/3		10/27/2017 09:44	1		ZB5MS 0.25(mm)
CCVL 500-407256/4		10/27/2017 10:11	1		ZB5MS 0.25(mm)
500-136329-1		10/27/2017 11:07	10	500-136329-E-1-A.D	ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 11:34	20		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 12:04	50		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 13:40	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 14:07	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 14:33	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 15:00	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 15:27	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 15:54	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 16:21	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 16:48	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 17:15	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 17:42	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 18:09	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 18:36	1		ZB5MS 0.25(mm)
ZZZZZ		10/27/2017 19:03	1		ZB5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: CMS01 Start Date: 10/27/2017 09:14

Analysis Batch Number: 407268 End Date: 10/27/2017 11:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-407268/3		10/27/2017 09:14	1	1D1027a.D	ZB5MS 0.25(mm)
CCVIS 500-407268/4		10/27/2017 10:01	1	1C1027.D	ZB5MS 0.25(mm)
LCS 500-407229/2-A		10/27/2017 10:36	1	LCS 500-407229.D	ZB5MS 0.25(mm)
MB 500-407229/1-A		10/27/2017 11:36	1	MB 500-407229.D	ZB5MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Batch Number: 407229 Batch Start Date: 10/27/17 07:20 Batch Analyst: Orr, Brejah S

Batch Method: 3510C Batch End Date: 10/27/17 09:53

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	EXBNAL1SPW 00191
MB 500-407229/1		3510C, 8270D		6 SU	250 mL	1.0 mL	2 SU	12 SU	
LCS 500-407229/2		3510C, 8270D		6 SU	250 mL	1.0 mL	2 SU	12 SU	200 uL
500-136329-E-1	CRMS-SW-01-102617	3510C, 8270D	T	7 SU	250 mL	1.0 mL	2 SU	12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXBNASURTS 00042					
MB 500-407229/1		3510C, 8270D		100 uL					
LCS 500-407229/2		3510C, 8270D		100 uL					
500-136329-E-1	CRMS-SW-01-102617	3510C, 8270D	T	100 uL					

Batch Notes	
Acid used for pH adjustment	H2SO4
Acid Used for pH Adjustment ID	4428400
Base used for pH adjustment	10 N NaOH
Base Used to Adjust pH ID	4466004
Batch Comment	Glass wool:4379465
Analyst ID - Concentration	JD
Final Concentrator Volume	1.0 mL
Na2SO4 ID	4485771
Prep Solvent ID	4507245
Prep Solvent Name	DCM
Person's name who did the prep	BSO/DC
Analyst ID - Spike Analyst	BSO
Analyst ID - Spike Witness Analyst	DC
Sufficient volume for MS/MSD?	Y
Syringe ID	A83, A84

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Batch Number: 407229 Batch Start Date: 10/27/17 07:20 Batch Analyst: Orr, Brejah S

Batch Method: 3510C Batch End Date: 10/27/17 09:53

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136329-1

SDG No.:

Project: Chicago River Mystery Spill

Client Sample ID	Lab Sample ID
CRMS-SW-01-102617	500-136329-1

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CRMS-SW-01-102617 Lab Sample ID: 500-136329-1

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG ID.:

Matrix: Water Date Sampled: 10/26/2017 11:48

Reporting Basis: WET Date Received: 10/26/2017 14:05

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	<0.010	0.010	0.0037	mg/L		^	1	6010C
7440-39-3	Barium	0.030	0.010	0.0012	mg/L			1	6010C
7440-43-9	Cadmium	0.00099	0.0020	0.00043	mg/L	J	B	1	6010C
7440-47-3	Chromium	<0.010	0.010	0.0017	mg/L			1	6010C
7439-92-1	Lead	0.0031	0.0050	0.0027	mg/L	J	^	1	6010C
7782-49-2	Selenium	<0.010	0.010	0.0053	mg/L			1	6010C
7440-22-4	Silver	<0.0050	0.0050	0.0015	mg/L			1	6010C
7439-97-6	Mercury	<0.20	0.20	0.098	ug/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

ICV Source: M17JICVIC_00001 Concentration Units: mg/L

CCV Source: M17JCCVIC_00001

Analyte	ICV 500-407357/8 10/27/2017 12:45				CCV 500-407357/16 10/27/2017 13:18				CCV 500-407357/23 10/27/2017 13:46			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.399		0.400	100	0.493		0.500	99	0.487		0.500	97
Barium	0.390		0.400	97	0.479		0.500	96	0.478		0.500	96
Cadmium	0.402		0.400	101	0.502		0.500	100	0.497		0.500	99
Chromium	0.387		0.400	97	0.491		0.500	98	0.505		0.500	101
Lead	0.410		0.400	102	0.515		0.500	103	0.526		0.500	105
Selenium	0.396		0.400	99	0.481		0.500	96	0.461		0.500	92
Silver	0.407		0.400	102	0.505		0.500	101	0.512		0.500	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

ICV Source: M17JCCVLIC_00001 Concentration Units: mg/L

CCV Source: M17JCCVLIC_00001

Analyte	ICVL 500-407357/9 10/27/2017 12:49				CCVL 500-407357/25 10/27/2017 13:54							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0110		0.0100	110	0.0136		0.0100	136				
Barium	0.00941	J	0.0100	94	0.00958	J	0.0100	96				
Cadmium	0.00239		0.00200	119	0.00197	J	0.00200	99				
Chromium	0.00943	J	0.0100	94	0.00899	J	0.0100	90				
Lead	0.00513		0.00500	103	0.00673		0.00500	135				
Selenium	0.00957	J	0.0100	96	0.0118		0.0100	118				
Silver	0.00572		0.00500	114	0.00538		0.00500	108				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

ICV Source: M15HSTKHG_00001 Concentration Units: ug/L

CCV Source: M15HSTKHG_00001

Analyte	ICV 500-407344/7 10/27/2017 09:41				CCV 500-407344/20 10/27/2017 10:10				CCV 500-407344/57 10/27/2017 11:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.07		2.00	104	0.910		1.00	91	1.01		1.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

ICV Source: M15HSTKHG_00001 Concentration Units: ug/L

CCV Source: M15HSTKHG_00001

Analyte	CCV 500-407344/69 10/27/2017 12:28											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.998		1.00	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Method: 6010C Instrument ID: ICP6

Lab Sample ID: CRI 500-407357/10 Concentration Units: mg/L

CRQL Check Standard Source: M17JCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0208		104	50-150
Barium	0.0200	0.0196		98	50-150
Cadmium	0.00400	0.00443		111	50-150
Chromium	0.0200	0.0191		95	50-150
Lead	0.0100	0.0117		117	50-150
Selenium	0.0200	0.0215		107	50-150
Silver	0.0100	0.0103		103	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Method: 7470A Instrument ID: HG5

Lab Sample ID: CRA 500-407344/9 Concentration Units: ug/L

CRQL Check Standard Source: M17BSTKHG_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.163	J	82	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 500-407357/7 10/27/2017 12:41		CCB 500-407357/17 10/27/2017 13:22		CCB 500-407357/24 10/27/2017 13:50			
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.010		<0.010		<0.010			
Barium	0.010	<0.010		<0.010		<0.010			
Cadmium	0.0020	<0.0020		<0.0020		<0.0020			
Chromium	0.010	<0.010		<0.010		<0.010			
Lead	0.0050	<0.0050		<0.0050		0.00259	J		
Selenium	0.010	<0.010		<0.010		<0.010			
Silver	0.0050	<0.0050		<0.0050		<0.0050			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 500-407344/10 10/27/2017 09:48		CCB 500-407344/21 10/27/2017 10:18		CCB 500-407344/58 10/27/2017 11:45		CCB 500-407344/70 10/27/2017 12:30	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	<0.20		<0.20		<0.20		<0.20	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 500-407180/1-A

Instrument Code: ICP6 Batch No.: 407357

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	<0.010		^	6010C
7440-39-3	Barium	<0.010			6010C
7440-43-9	Cadmium	0.000571	J		6010C
7440-47-3	Chromium	<0.010			6010C
7439-92-1	Lead	<0.0050		^	6010C
7782-49-2	Selenium	<0.010			6010C
7440-22-4	Silver	<0.0050			6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 500-406927/12-A

Instrument Code: HG5 Batch No.: 407344

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	<0.20			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: ICSAB 500-407357/12 Instrument ID: ICP6

Lab File ID: P6102717AA.asc ICS Source: M17JISBIC_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**0.100**	**0.101**	**101**
Barium	**0.500**	**0.487**	**97**
Cadmium	**1.00**	**1.04**	**104**
Chromium	**0.500**	**0.461**	**92**
Lead	**0.0500**	**0.0495**	**99**
Selenium	**0.0500**	**0.0477**	**95**
Silver	**0.200**	**0.221**	**110**
Aluminum	*500*	*498*	*100*
Antimony	*0.600*	*0.577*	*96*
Beryllium	*0.500*	*0.507*	*101*
Bismuth		*0.0005*	
Boron		*-0.0013*	
Calcium	*500*	*492*	*98*
Cobalt	*0.500*	*0.530*	*106*
Copper	*0.500*	*0.557*	*111*
Iron	*200*	*191*	*96*
Lithium		*0.0078*	
Magnesium	*500*	*503*	*101*
Manganese	*0.500*	*0.474*	*95*
Molybdenum		*-0.0006*	
Nickel	*1.00*	*0.999*	*100*
Potassium		*-0.0482*	
Silicon		*-0.0080*	
Sodium		*0.0080*	
Strontium		*0.0045*	
Thallium	*0.100*	*0.0948*	*95*
Tin		*0.0085*	
Titanium		*0.0018*	
Vanadium	*0.500*	*0.477*	*95*
Zinc	*1.00*	*1.04*	*104*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Lab Sample ID: ICSA 500-407357/13 Instrument ID: ICP6

Lab File ID: P6102717AA.asc ICS Source: M17JISAIC_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**0.0107**	
Barium		**-0.0005**	
Cadmium		**0.0011**	
Chromium		**0.0014**	
Lead		**0.0053**	
Selenium		**0.0037**	
Silver		**-0.0003**	
Aluminum	*500*	*498*	*100*
Antimony		*-0.0076*	
Beryllium		*0.0002*	
Bismuth		*-0.0012*	
Boron		*-0.0021*	
Calcium	*500*	*495*	*99*
Cobalt		*-0.0003*	
Copper		*0.0042*	
Iron	*200*	*192*	*96*
Lithium		*0.0078*	
Magnesium	*500*	*504*	*101*
Manganese		*-0.0004*	
Molybdenum		*0.0000*	
Nickel		*-0.0068*	
Potassium		*-0.0521*	
Silicon		*-0.0083*	
Sodium		*0.0102*	
Strontium		*0.0045*	
Thallium		*-0.0021*	
Tin		*0.0056*	
Titanium		*0.0012*	
Vanadium		*0.0001*	
Zinc		*0.0023*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-407180/2-A

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

Sample Matrix: Water LCS Source: M17ISPKIC_00001

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	0.100	0.0977		98	80	120	^	6010C
Barium	2.00	1.94		97	80	120		6010C
Cadmium	0.0500	0.0487		97	80	120		6010C
Chromium	0.200	0.204		102	80	120		6010C
Lead	0.100	0.0969		97	80	120	^	6010C
Selenium	0.100	0.0832		83	80	120		6010C
Silver	0.0500	0.0497		99	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-406927/13-A

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

Sample Matrix: Water LCS Source: M15HSTKHG_00001

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	2.00	2.16		108	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136329-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 6010C MDL Date: 03/29/2017 09:38

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Arsenic		0.01	0.00365
Barium		0.01	0.00123
Cadmium		0.002	0.000433
Chromium		0.01	0.00169
Lead		0.005	0.0027
Selenium		0.01	0.00532
Silver		0.005	0.00148

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136329-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 6010C XMDL Date: 06/16/2010 15:40

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic		0.01	0.005
Barium		0.01	0.005
Cadmium		0.002	0.001
Chromium		0.01	0.005
Lead		0.005	0.0025
Selenium		0.01	0.005
Silver		0.005	0.0025

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136329-1

SDG Number:

Matrix: Water Instrument ID: HG5

Method: 7470A MDL Date: 03/29/2017 08:53

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.0984

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136329-1

SDG Number:

Matrix: Water Instrument ID: HG5

Method: 7470A XMDL Date: 03/29/2017 08:53

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.0984

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136329-1

SDG No.:

ICP-AES Instrument ID: ICP6 Date: 10/23/2017

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K
Aluminum															
Antimony			0.000010									0.005069		0.000013	
Arsenic			-0.000008									-0.003046		-0.000007	
Barium															
Beryllium														0.000009	
Bismuth														0.000024	
Boron															
Cadmium				0.009325		-0.000228								0.000015	
Calcium															
Chromium															
Cobalt						-0.000350						-0.000258		-0.000001	
Copper															
Iron											0.074102				
Lead			-0.000055										0.001208	0.000052	
Lithium															
Magnesium														-0.000289	
Manganese														0.000010	
Molybdenum			-0.000003											-0.000026	
Nickel														0.000058	
Potassium															
Selenium			-0.000019											0.000013	
Silicon															
Silver														-0.000001	
Sodium															
Strontium															
Thallium			-0.000006								0.001123			0.000004	
Tin															
Titanium									-0.000004						
Vanadium														0.000020	
Zinc			-0.000005									-0.000534			

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136329-1

SDG No.:

ICP-AES Instrument ID: ICP6 Date: 10/23/2017

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl
Aluminum					0.016937										
Antimony														-0.002346	
Arsenic					-0.000257										
Barium															
Beryllium															
Bismuth														-0.007347	
Boron					0.016183										
Cadmium															
Calcium															
Chromium															
Cobalt														0.002231	
Copper															
Iron															
Lead					-0.001050						0.000411				
Lithium															
Magnesium				-0.003611	-0.006776										
Manganese															
Molybdenum															
Nickel															
Potassium															
Selenium															
Silicon					0.014343										
Silver															
Sodium															
Strontium															
Thallium														-0.000140	
Tin															
Titanium															
Vanadium					-0.003891									0.000604	
Zinc															

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136329-1

SDG No.:

ICP-AES Instrument ID: ICP6 Date: 10/23/2017

Analyte	Wave Length	V	Zn												
Aluminum		0.047756													
Antimony		-0.000255													
Arsenic															
Barium															
Beryllium															
Bismuth															
Boron															
Cadmium															
Calcium															
Chromium															
Cobalt															
Copper															
Iron		-0.052543													
Lead															
Lithium															
Magnesium															
Manganese															
Molybdenum															
Nickel															
Potassium															
Selenium															
Silicon															
Silver															
Sodium															
Strontium															
Thallium		-0.000102													
Tin															
Titanium															
Vanadium															
Zinc															

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-136329-1

SDG No.:

Instrument ID: ICP6 Date: 10/16/2015 10:43

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		20	6010C
Barium		20	6010C
Cadmium		10	6010C
Chromium		20	6010C
Lead		100	6010C
Selenium		20	6010C
Silver		10	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-136329-1

SDG No.:

Instrument ID: HG5 Date: 03/01/2008 11:18

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury		5.0	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-407180/1-A	10/26/2017 16:54	407180		50	50
LCS 500-407180/2-A	10/26/2017 16:54	407180		50	50
500-136329-1	10/26/2017 16:54	407180		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-406927/12-A	10/25/2017 13:45	406927		25	25
LCS 500-406927/13-A	10/25/2017 13:45	406927		25	25
500-136329-1	10/26/2017 15:11	406927		25	25

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: ICP6 Analysis Method: 6010C

Start Date: 10/27/2017 12:17 End Date: 10/27/2017 14:58

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Ba	Cd	Cr	Pb	Se																		
ZZZZZZ			12:17																									
ZZZZZZ			12:21																									
ZZZZZZ			12:25																									
ZZZZZZ			12:29																									
ZZZZZZ			12:33																									
ICV 500-407357/6			12:37																									
ICBIS 500-407357/7	1		12:41	X	X	X	X	X	X	X																		
ICV 500-407357/8	1		12:45	X	X	X	X	X	X	X																		
ICVL 500-407357/9	1		12:49	X	X	X	X	X	X	X																		
CRI 500-407357/10	1		12:53	X	X	X	X	X	X	X																		
ZZZZZZ			12:57																									
ICSAB 500-407357/12	1		13:01	X	X	X	X	X	X	X																		
ICSA 500-407357/13	1		13:05	X	X	X	X	X	X	X																		
ZZZZZZ			13:09																									
ZZZZZZ			13:13																									
CCV 500-407357/16	1		13:18	X	X	X	X	X	X	X																		
CCB 500-407357/17	1		13:22	X	X	X	X	X	X	X																		
ZZZZZZ			13:26																									
ZZZZZZ			13:30																									
MB 500-407180/1-A	1	T	13:34	X	X	X	X	X	X	X																		
LCS 500-407180/2-A	1	T	13:38	X	X	X	X	X	X	X																		
500-136329-1	1	T	13:42	X	X	X	X	X	X	X																		
CCV 500-407357/23	1		13:46	X	X	X	X	X	X	X																		
CCB 500-407357/24	1		13:50	X	X	X	X	X	X	X																		
CCVL 500-407357/25	1		13:54	X	X	X	X	X	X	X																		
ZZZZZZ			13:58																									
ZZZZZZ			14:02																									
ZZZZZZ			14:06																									
ZZZZZZ			14:10																									
ZZZZZZ			14:14																									
ZZZZZZ			14:18																									
ZZZZZZ			14:22																									
CCV 500-407357/33			14:26																									
CCB 500-407357/34			14:30																									
ZZZZZZ			14:34																									
ZZZZZZ			14:38																									
ZZZZZZ			14:42																									
ZZZZZZ			14:46																									
ZZZZZZ			14:50																									
ZZZZZZ			14:54																									
ZZZZZZ			14:58																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: ICP6 Analysis Method: 6010C

Start Date: 10/27/2017 12:17 End Date: 10/27/2017 14:58

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Ba	Cd	Cr	Pb	Se																		

Prep Types:
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: HG5 Analysis Method: 7470A

Start Date: 10/27/2017 09:10 End Date: 10/27/2017 13:41

Lab Sample Id	D/F	Type	Time	Analytes
				Hg
STD01REP1 500-407344/1 IC			09:10	X
STD02REP1 500-407344/2 IC			09:12	X
STD03REP1 500-407344/3 IC			09:14	X
STD04REP1 500-407344/4 IC			09:16	X
STD05REP1 500-407344/5 IC			09:18	X
STD06REP1 500-407344/6 IC			09:21	X
ICV 500-407344/7	1		09:41	X
ZZZZZZ			09:43	
CRA 500-407344/9	1		09:45	X
ICB 500-407344/10	1		09:48	X
MB 500-406927/12-A	1	T	09:50	X
LCS 500-406927/13-A	1	T	09:52	X
ZZZZZZ			09:55	
ZZZZZZ			09:57	
ZZZZZZ			09:59	
ZZZZZZ			10:01	
ZZZZZZ			10:03	
ZZZZZZ			10:06	
ZZZZZZ			10:08	
CCV 500-407344/20	1		10:10	X
CCB 500-407344/21	1		10:18	X
ZZZZZZ			10:20	
ZZZZZZ			10:22	
ZZZZZZ			10:25	
ZZZZZZ			10:27	
ZZZZZZ			10:29	
ZZZZZZ			10:31	
ZZZZZZ			10:33	
ZZZZZZ			10:35	
ZZZZZZ			10:37	
ZZZZZZ			10:40	
CCV 500-407344/32			10:42	
CCB 500-407344/33			10:47	
ZZZZZZ			10:49	
ZZZZZZ			10:51	
ZZZZZZ			10:53	
ZZZZZZ			10:55	
ZZZZZZ			10:58	
ZZZZZZ			11:00	
ZZZZZZ			11:02	
ZZZZZZ			11:04	
ZZZZZZ			11:06	

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: HG5 Analysis Method: 7470A

Start Date: 10/27/2017 09:10 End Date: 10/27/2017 13:41

Lab Sample Id	D/F	Type	Time	Analytes
				Hg
ZZZZZZ			11:08	
ZZZZZZ			11:10	
CCV 500-407344/45			11:13	
CCB 500-407344/46			11:17	
ZZZZZZ			11:19	
ZZZZZZ			11:21	
ZZZZZZ			11:23	
ZZZZZZ			11:25	
ZZZZZZ			11:28	
ZZZZZZ			11:30	
ZZZZZZ			11:34	
ZZZZZZ			11:37	
ZZZZZZ			11:39	
ZZZZZZ			11:41	
CCV 500-407344/57	1		11:43	X
CCB 500-407344/58	1		11:45	X
ZZZZZZ			11:48	
500-136329-1	1	T	11:50	X
ZZZZZZ			12:11	
ZZZZZZ			12:13	
ZZZZZZ			12:15	
ZZZZZZ			12:18	
ZZZZZZ			12:20	
ZZZZZZ			12:22	
ZZZZZZ			12:24	
ZZZZZZ			12:26	
CCV 500-407344/69	1		12:28	X
CCB 500-407344/70	1		12:30	X
ZZZZZZ			12:33	
ZZZZZZ			12:35	
ZZZZZZ			12:38	
ZZZZZZ			12:40	
ZZZZZZ			12:42	
ZZZZZZ			12:44	
ZZZZZZ			12:46	
ZZZZZZ			12:48	
ZZZZZZ			12:51	
ZZZZZZ			12:53	
CCV 500-407344/81			12:55	
ZZZZZZ			12:57	
CCB 500-407344/83			13:00	
ZZZZZZ			13:02	

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: HG5 Analysis Method: 7470A

Start Date: 10/27/2017 09:10 End Date: 10/27/2017 13:41

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
ZZZZZZ			13:05																									
ZZZZZZ			13:07																									
ZZZZZZ			13:09																									
ZZZZZZ			13:11																									
ZZZZZZ			13:13																									
ZZZZZZ			13:16																									
ZZZZZZ			13:18																									
ZZZZZZ			13:20																									
ZZZZZZ			13:22																									
ZZZZZZ			13:24																									
ZZZZZZ			13:26																									
ZZZZZZ			13:28																									
ZZZZZZ			13:31																									
ZZZZZZ			13:41																									

Prep Types:
T = Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Batch Number: 407180 Batch Start Date: 10/26/17 16:54 Batch Analyst: Edwards, Benjamin D

Batch Method: 3010A Batch End Date: 10/26/17 17:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M17ISPKIC 00001			
MB 500-407180/1		3010A, 6010C		50 mL	50 mL				
LCS 500-407180/2		3010A, 6010C		50 mL	50 mL	0.5 mL			
500-136329-D-1	CRMS-SW-01-102617	3010A, 6010C	T	50 mL	50 mL				

Batch Notes	
Pipette/Syringe/Dispenser ID	2850
Thermometer ID	a1103x
Digestion Tube/Cup ID	1707186

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Batch Number: 406927 Batch Start Date: 10/25/17 13:45 Batch Analyst: Noon, Erin E

Batch Method: 7470A Batch End Date: 10/26/17 15:11

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M15HSTKHG 00001			
MB 500-406927/12		7470A, 7470A		25 mL	25 mL				
LCS 500-406927/13		7470A, 7470A		25 mL	25 mL	0.00005 mL			
500-136329-D-1	CRMS-SW-01-102617	7470A, 7470A	T	25 mL	25 mL				

Batch Notes	
Hydroxylamine Hydrochloride ID	175265
Batch Comment	STOCKID: M15HSTKHG_00001(QC),M17BSTKHG00001 (Curve)
Digestion End Time	1545
Digestion Start Time	1345
Sulfuric Acid Lot Number	179766
Lot # of Nitric Acid	165099
Hot Block ID	c-1566
Potassium Persulfate ID	A0375670
Potassium Permanganate ID	171263
NaCl ID	17D175204
Oven, Bath or Block Temperature 1	94.5 Celsius
Stannous Chloride ID	170437
Temperature	94.5 Celsius
Thermometer ID	A4076X
Digestion Tube/Cup ID	1707186
Uncorrected Temperature	95.0 Celsius
Visual ck - digestate F.V. consistency	OK

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Metals Worksheet

Batch Number: 500-407344
Method: 245.1
Analyst: Noon, Erin E

Date Open: Oct 27 2017 9:10AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
STD01REP1~500-407344/1						
STD02REP1~500-407344/2						
STD03REP1~500-407344/3						
STD04REP1~500-407344/4						
STD05REP1~500-407344/5						
STD06REP1~500-407344/6						
ICV~500-407344/7		7470A		25 mL	0.00005 mL	
xICB~500-407344/8						
CCA~500-407344/9		7470A		25 mL		0.000005 mL
ICB~500-407344/10		7470A				
MB~500-406927/12-A		7470A				
LCS~500-406927/13-A		7470A				
500-135710-C-1-B		7470A	T			
500-135710-C-2-B		7470A	T			
500-135710-C-3-B		7470A	T			
500-135710-C-4-B		7470A	T			
500-135710-C-5-B		7470A	T			
500-135710-C-6-B		7470A	T			
500-135710-C-7-B		7470A	T			
CCV~500-407344/20		7470A		25 mL	0.000025 mL	
CCB~500-407344/21		7470A				
MB~500-406920/12-A		245.1				
xLCS~500-406920/13-A						
500-135987-E-8-B		245.1	T			
500-135987-E-9-B		245.1	T			

Metals Worksheet

Batch Number: 500-407344
Method: 245.1
Analyst: Noon, Erin E

Date Open: Oct 27 2017 9:10AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
500-136052-A-1-B		245.1	T			
500-136053-B-1-B		245.1	T			
500-136053-B-3-B		245.1	T			
500-136053-B-5-B		245.1	T			
500-136053-B-7-B		245.1	T			
500-136054-E-1-B		245.1	T			
CCV~500-407344/32		245.1		25 mL	0.000025 mL	
CCB~500-407344/33		245.1				
500-136054-B-2-B		245.1	T			
500-136112-B-1-B		245.1	T			
500-136161-A-1-B		245.1	T			
500-136161-A-1-C~DU		245.1	T			
500-136161-A-1-D~MS		245.1	T			
500-135977-B-1-C		245.1	T			
500-135989-A-1-E		245.1	T			
500-136010-A-1-E		245.1	T			
500-136013-A-1-B		245.1	T			
xLCS~500-406920/13-A						
xCCV~500-407344/44						
CCV~500-407344/45		245.1		25 mL	0.000025 mL	
CCB~500-407344/46		245.1				
500-135710-C-8-B		7470A	T			
500-135710-C-8-C~DU		7470A	T			
500-135710-C-8-D~MS		7470A	T			
500-135710-C-8-E~MSD		7470A	T			

11/16/2017

Metals Worksheet

Batch Number: 500-407344
Method: 245.1
Analyst: Noon, Erin E

Date Open: Oct 27 2017 9:10AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
500-135710-C-9-B		7470A	T			
500-135710-C-10-B		7470A	T			
500-135710-C-11-B		7470A	T			
500-135710-C-12-B		7470A	T			
500-135710-C-14-B		7470A	T			
500-136094-T-1-B		7470A	T			
CCV~500-407344/57		7470A		25 mL	0.000025 mL	
CCB~500-407344/58		7470A				
500-136094-T-2-B		7470A	T			
500-136329-D-1-A		7470A	T			
MB~500-407219/12-A		7470A				
xLCS~500-407219/13-A~(500-4507550)						
LB~500-406932/1-D		7470A				
500-136205-A-1-E		7470A	P			
500-136167-B-1-D		7470A	P			
500-136167-B-2-F		7470A	P			
500-136058-B-1-E		7470A	P			
LB2~500-406933/1-C		7470A				
CCV~500-407344/69		7470A		25 mL	0.000025 mL	
CCB~500-407344/70		7470A				
500-135256-B-23-F		7470A	P			
500-135256-B-24-F		7470A	P			
LB~500-406711/1-C		7470A				
500-135873-E-1-J		7470A	P			
500-135873-E-2-J		7470A	P			

Metals Worksheet

Batch Number: 500-407344
Method: 245.1
Analyst: Noon, Erin E

Date Open: Oct 27 2017 9:10AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
500-135873-E-3-J		7470A	P			
500-135873-E-4-L		7470A	P			
500-135873-E-4-M~DU		7470A	P			
500-135873-E-4-N~MS		7470A	P			
500-135873-E-5-J		7470A	P			
CCV~500-407344/81		7470A		25 mL	0.000025 mL	
xCCB~500-407344/82						
CCB~500-407344/83		7470A				
x500-135873-E-6-J						
x500-135873-E-7-J						
x500-135873-E-8-J						
x500-135873-E-9-J						
x500-135873-E-10-J						
x500-135873-E-11-J						
x500-135873-E-12-J						
x500-135873-E-13-P						
xMB~500-407221/12-A						
xLCS~500-407221/13-A						
xCCV~500-407344/94						
xCCB~500-407344/95						
xLB~500-406934/1-C						
x500-135635-A-1-D						
xCCV~500-407344/98						

11/16/2017

Metals Worksheet

Batch Number: 500-407344
Method: 245.1
Analyst: Noon, Erin E

Date Open: Oct 27 2017 9:10AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Analysis comment	Comments
STD01REP1~500-407344/1					
STD02REP1~500-407344/2					
STD03REP1~500-407344/3					
STD04REP1~500-407344/4					
STD05REP1~500-407344/5					
STD06REP1~500-407344/6					
ICV~500-407344/7		7470A		102717T	
xICB~500-407344/8				102717T	
CRA~500-407344/9		7470A		102717T	
ICB~500-407344/10		7470A		102717T	
MB~500-406927/12-A		7470A		102717T	
LCS~500-406927/13-A		7470A		102717T	
500-135710-C-1-B		7470A	T	102717T	
500-135710-C-2-B		7470A	T	102717T	
500-135710-C-3-B		7470A	T	102717T	
500-135710-C-4-B		7470A	T	102717T	
500-135710-C-5-B		7470A	T	102717T	
500-135710-C-6-B		7470A	T	102717T	
500-135710-C-7-B		7470A	T	102717T	
CCV~500-407344/20		7470A		102717T	
CCB~500-407344/21		7470A		102717T	
MB~500-406920/12-A		245.1		102717T	
xLCS~500-406920/13-A				102717T	
500-135987-E-8-B		245.1	T	102717T	
500-135987-E-9-B		245.1	T	102717T	

Metals Worksheet

Batch Number: 500-407344
Method: 245.1
Analyst: Noon, Erin E

Date Open: Oct 27 2017 9:10AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
500-136052-A-1-B		245.1	T	102717T
500-136053-B-1-B		245.1	T	102717T
500-136053-B-3-B		245.1	T	102717T
500-136053-B-5-B		245.1	T	102717T
500-136053-B-7-B		245.1	T	102717T
500-136054-E-1-B		245.1	T	102717T
CCV~500-407344/32		245.1		102717T
CCB~500-407344/33		245.1		102717T
500-136054-B-2-B		245.1	T	102717T
500-136112-B-1-B		245.1	T	102717T
500-136161-A-1-B		245.1	T	102717T
500-136161-A-1-C~DU		245.1	T	102717T
500-136161-A-1-D~MS		245.1	T	102717T
500-135977-B-1-C		245.1	T	102717T
500-135989-A-1-E		245.1	T	102717T
500-136010-A-1-E		245.1	T	102717T
500-136013-A-1-B		245.1	T	102717T
xLCS~500-406920/13-A				102717T
xCCV~500-407344/44				102717T
CCV~500-407344/45		245.1		102717T
CCB~500-407344/46		245.1		102717T
500-135710-C-8-B		7470A	T	102717T
500-135710-C-8-C~DU		7470A	T	102717T
500-135710-C-8-D~MS		7470A	T	102717T
500-135710-C-8-E~MSD		7470A	T	102717T

Page 570 of 614

11/16/2017

Metals Worksheet

Batch Number: 500-407344
Method: 245.1
Analyst: Noon, Erin E

Date Open: Oct 27 2017 9:10AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
500-135710-C-9-B		7470A	T	102717T
500-135710-C-10-B		7470A	T	102717T
500-135710-C-11-B		7470A	T	102717T
500-135710-C-12-B		7470A	T	102717T
500-135710-C-14-B		7470A	T	102717T
500-136094-T-1-B		7470A	T	102717T
CCV~500-407344/57		7470A		102717T
CCB~500-407344/58		7470A		102717T
500-136094-T-2-B		7470A	T	102717T
500-136329-D-1-A		7470A	T	102717T
MB~500-407219/12-A		7470A		102717T
xLCS~500-407219/13-A~(500-4507550)				102717T
LB~500-406932/1-D		7470A		102717T
500-136205-A-1-E		7470A	P	102717T
500-136167-B-1-D		7470A	P	102717T
500-136167-B-2-F		7470A	P	102717T
500-136058-B-1-E		7470A	P	102717T
LB2~500-406933/1-C		7470A		102717T
CCV~500-407344/69		7470A		102717T
CCB~500-407344/70		7470A		102717T
500-135256-B-23-F		7470A	P	102717T
500-135256-B-24-F		7470A	P	102717T
LB~500-406711/1-C		7470A		102717T
500-135873-E-1-J		7470A	P	102717T
500-135873-E-2-J		7470A	P	102717T

11/16/2017 Page 1 of 1

Metals Worksheet

Batch Number: 500-407344
Method: 245.1
Analyst: Noon, Erin E

Date Open: Oct 27 2017 9:10AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
500-135873-E-3-J		7470A	P	102717T
500-135873-E-4-L		7470A	P	102717T
500-135873-E-4-M~DU		7470A	P	102717T
500-135873-E-4-N~MS		7470A	P	102717T
500-135873-E-5-J		7470A	P	102717T
CCV~500-407344/81		7470A		102717T
xCCB~500-407344/82				102717T
CCB~500-407344/83		7470A		102717T
x500-135873-E-6-J				102717T
x500-135873-E-7-J				102717T
x500-135873-E-8-J				102717T
x500-135873-E-9-J				102717T
x500-135873-E-10-J				102717T
x500-135873-E-11-J				102717T
x500-135873-E-12-J				102717T
x500-135873-E-13-P				102717T
xMB~500-407221/12-A				102717T
xLCS~500-407221/13-A				102717T
xCCV~500-407344/94				102717T
xCCB~500-407344/95				102717T
xLB~500-406934/1-C				102717T
x500-135635-A-1-D				102717T
xCCV~500-407344/98				102717T

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 1	09:10:00 27 Oct 17	HG		
Hg	.000	ppb	598					
*** Standard: 2 Rep: 1				Seq: 2	09:12:07 27 Oct 17	HG		
Hg	.200	ppb	1739					
*** Standard: 3 Rep: 1				Seq: 3	09:14:16 27 Oct 17	HG		
Hg	.500	ppb	3146					
*** Standard: 4 Rep: 1				Seq: 4	09:16:46 27 Oct 17	HG		
Hg	1.00	ppb	5591					
*** Standard: 5 Rep: 1				Seq: 5	09:18:52 27 Oct 17	HG		
Hg	3.00	ppb	15411					
*** Standard: 6 Rep: 1				Seq: 6	09:21:03 27 Oct 17	HG		
Hg	5.00	ppb	24860					
*** Sample ID: ICV			102717T	Seq: 7	09:41:14 27 Oct 17	HG		
Hg	2.07	ppb	10755					
*** Sample ID: ICB			102717T	Seq: 8	09:43:25 27 Oct 17	HG		
Hg	-.231	ppb	-401					
*** Sample ID: CRA			102717T	Seq: 9	09:45:31 27 Oct 17	HG		
Hg	.163	ppb	1512					
*** Sample ID: ICB			102717T	Seq: 10	09:48:17 27 Oct 17	HG		
Hg	-.054	ppb	461					
*** Sample ID: mb 500-406927/12-a			102717T	Seq: 11	09:50:25 27 Oct 17	HG		
Hg	-.077	ppb	349					
*** Sample ID: lcs 500-406927/13-a			102717T	Seq: 12	09:52:46 27 Oct 17	HG		
Hg	2.16	ppb	11204					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 13	09:55:15 27 Oct 17 HG				
			500-135710-c-1-b					
Hg	-.078	ppb	342					
*** Sample ID:			102717T Seq: 14	09:57:21 27 Oct 17 HG				
			500-135710-c-2-b					
Hg	-.149	ppb	0					
*** Sample ID:			102717T Seq: 15	09:59:27 27 Oct 17 HG				
			500-135710-c-3-b					
Hg	-.111	ppb	182					
*** Sample ID:			102717T Seq: 16	10:01:43 27 Oct 17 HG				
			500-135710-c-4-b					
Hg	-.088	ppb	295					
*** Sample ID:			102717T Seq: 17	10:03:50 27 Oct 17 HG				
			500-135710-c-5-b					
Hg	-.040	ppb	528					
*** Sample ID:			102717T Seq: 18	10:06:11 27 Oct 17 HG				
			500-135710-c-6-b					
Hg	.033	ppb	882					
*** Sample ID:			102717T Seq: 19	10:08:17 27 Oct 17 HG				
			500-135710-c-7-b					
Hg	-.059	ppb	437					
*** Sample ID: CCV			102717T Seq: 20	10:10:23 27 Oct 17 HG				
Hg	.910	ppb	5132					
*** Sample ID: CCB			102717T Seq: 21	10:18:45 27 Oct 17 HG				
Hg	-.105	ppb	214					
*** Sample ID:			102717T Seq: 22	10:20:51 27 Oct 17 HG				
			mb 500-406920/12-a					
Hg	-.061	ppb	425					
*** Sample ID:			102717T Seq: 23	10:22:59 27 Oct 17 HG				
			lcs 500-406920/13-a					
Hg	2.55	ppb	13066					
*** Sample ID:			102717T Seq: 24	10:25:10 27 Oct 17 HG				
			500-135987-e-8-b					
Hg	-.094	ppb	264					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 25	10:27:16 27 Oct 17 HG				
			500-135987-e-9-b					
Hg	-.187	ppb	-187					
*** Sample ID:			102717T Seq: 26	10:29:23 27 Oct 17 HG				
			500-136052-a-1-b					
Hg	-.044	ppb	507					
*** Sample ID:			102717T Seq: 27	10:31:31 27 Oct 17 HG				
			500-136053-b-1-b					
Hg	-.028	ppb	585					
*** Sample ID:			102717T Seq: 28	10:33:38 27 Oct 17 HG				
			500-136053-b-3-b					
Hg	-.084	ppb	314					
*** Sample ID:			102717T Seq: 29	10:35:44 27 Oct 17 HG				
			500-136053-b-5-b					
Hg	-.049	ppb	484					
*** Sample ID:			102717T Seq: 30	10:37:57 27 Oct 17 HG				
			500-136053-b-7-b					
Hg	-.024	ppb	607					
*** Sample ID:			102717T Seq: 31	10:40:38 27 Oct 17 HG				
			500-136054-e-1-b					
Hg	-.030	ppb	574					
*** Sample ID: CCV			102717T Seq: 32	10:42:44 27 Oct 17 HG				
Hg	.910	ppb	5132					
*** Sample ID: CCB			102717T Seq: 33	10:47:31 27 Oct 17 HG				
Hg	-.101	ppb	232					
*** Sample ID:			102717T Seq: 34	10:49:39 27 Oct 17 HG				
			500-136054-b-2-b					
Hg	2.94	ppb	14992					
*** Sample ID:			102717T Seq: 35	10:51:44 27 Oct 17 HG				
			500-136112-b-1-b					
Hg	-.332	ppb	-888					
*** Sample ID:			102717T Seq: 36	10:53:50 27 Oct 17 HG				
			500-136161-a-1-b					
Hg	-.072	ppb	373					

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 102717T Seq: 37 10:55:56 27 Oct 17 HG
500-136161-a-1-c du
Hg -.101 ppb 233

*** Sample ID: 102717T Seq: 38 10:58:03 27 Oct 17 HG
500-136161-a-1-d ms
Hg 1.17 ppb 6378

*** Sample ID: 102717T Seq: 39 11:00:11 27 Oct 17 HG
500-135977-b-1-c
Hg -.227 ppb -379

*** Sample ID: 102717T Seq: 40 11:02:20 27 Oct 17 HG
500-135989-a-1-e
Hg -.259 ppb -535

*** Sample ID: 102717T Seq: 41 11:04:27 27 Oct 17 HG
500-136010-a-1-e
Hg -.040 ppb 526

*** Sample ID: 102717T Seq: 42 11:06:33 27 Oct 17 HG
500-136013-a-1-b
Hg -.034 ppb 558

*** Sample ID: 102717T Seq: 43 11:08:38 27 Oct 17 HG
lcs 500-406920/13-a
Hg 2.44 ppb 12550

*** Sample ID: CCV 102717T Seq: 44 11:10:46 27 Oct 17 HG

Hg .864 ppb 4908

*** Sample ID: CCV 102717T Seq: 45 11:13:10 27 Oct 17 HG

Hg .972 ppb 5435

*** Sample ID: CCB 102717T Seq: 46 11:17:01 27 Oct 17 HG

Hg -.111 ppb 182

*** Sample ID: 102717T Seq: 47 11:19:08 27 Oct 17 HG

Hg -.029 ppb 581

*** Sample ID: 102717T Seq: 48 11:21:29 27 Oct 17 HG
500-135710-c-8-c du
Hg -.065 ppb 406

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 49	11:23:38 27 Oct 17 HG				
			500-135710-c-8-d ms					
Hg	1.19	ppb	6502					
*** Sample ID:			102717T Seq: 50	11:25:46 27 Oct 17 HG				
			500-135710-c-8-e msd					
Hg	1.20	ppb	6554					
*** Sample ID:			102717T Seq: 51	11:28:16 27 Oct 17 HG				
			500-135710-c-9-b					
Hg	-.119	ppb	145					
*** Sample ID:			102717T Seq: 52	11:30:27 27 Oct 17 HG				
			500-135710-c-10-b					
Hg	-.054	ppb	459					
*** Sample ID:			102717T Seq: 53	11:34:57 27 Oct 17 HG				
			500-135710-c-11-b					
Hg	-.060	ppb	429					
*** Sample ID:			102717T Seq: 54	11:37:03 27 Oct 17 HG				
			500-135710-c-12-b					
Hg	-.028	ppb	584					
*** Sample ID:			102717T Seq: 55	11:39:13 27 Oct 17 HG				
			500-135710-c-14-b					
Hg	.058	ppb	1002					
*** Sample ID:			102717T Seq: 56	11:41:22 27 Oct 17 HG				
			500-136094-t-1-b					
Hg	-.087	ppb	300					
*** Sample ID: CCV			102717T Seq: 57	11:43:29 27 Oct 17 HG				
Hg	1.01	ppb	5623					
*** Sample ID: CCB			102717T Seq: 58	11:45:56 27 Oct 17 HG				
Hg	-.156	ppb	-37					
*** Sample ID:			102717T Seq: 59	11:48:15 27 Oct 17 HG				
			500-136094-t-2-b					
Hg	-.071	ppb	378					
*** Sample ID:			102717T Seq: 60	11:50:21 27 Oct 17 HG				
			500-136329-d-1-a					
Hg	-.027	ppb	589					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 61 mb 500-407219/12-a	12:11:35 27 Oct 17	HG			
Hg	-.092	ppb	274					
*** Sample ID:			102717T Seq: 62 lcs 500-407219/13-a	12:13:44 27 Oct 17	HG			
Hg	2.41	ppb	12415					
*** Sample ID:			102717T Seq: 63 lb 500-406932/1-d	12:15:52 27 Oct 17	HG			
Hg	-.202	ppb	-258					
*** Sample ID:			102717T Seq: 64 500-136205-a-1-e	12:18:01 27 Oct 17	HG			
Hg	-.130	ppb	93					
*** Sample ID:			102717T Seq: 65 500-136167-b-1-d	12:20:10 27 Oct 17	HG			
Hg	-.135	ppb	65					
*** Sample ID:			102717T Seq: 66 500-136167-b-2-f	12:22:15 27 Oct 17	HG			
Hg	-.079	ppb	340					
*** Sample ID:			102717T Seq: 67 500-136058-b-1-e	12:24:22 27 Oct 17	HG			
Hg	-.144	ppb	24					
*** Sample ID:			102717T Seq: 68 lb2 500-406933/1-c	12:26:28 27 Oct 17	HG			
Hg	-.142	ppb	35					
*** Sample ID: CCV			102717T Seq: 69	12:28:34 27 Oct 17	HG			
Hg	.998	ppb	5559					
*** Sample ID: CCB			102717T Seq: 70	12:30:45 27 Oct 17	HG			
Hg	-.162	ppb	-66					
*** Sample ID:			102717T Seq: 71 500-135256-b-23-f	12:33:03 27 Oct 17	HG			
Hg	-.114	ppb	167					
*** Sample ID:			102717T Seq: 72 500-135256-b-24-f	12:35:11 27 Oct 17	HG			
Hg	-.105	ppb	211					

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 102717T Seq: 73 12:38:00 27 Oct 17 HG
lb 500-406711/1-c
Hg -.140 ppb 44

*** Sample ID: 102717T Seq: 74 12:40:08 27 Oct 17 HG
500-135873-e-1-j
Hg -.138 ppb 54

*** Sample ID: 102717T Seq: 75 12:42:15 27 Oct 17 HG
500-135873-e-2-j
Hg -.061 ppb 426

*** Sample ID: 102717T Seq: 76 12:44:27 27 Oct 17 HG
500-135873-e-3-j
Hg -.146 ppb 13

*** Sample ID: 102717T Seq: 77 12:46:37 27 Oct 17 HG
500-135873-e-4-l
Hg -.134 ppb 73

*** Sample ID: 102717T Seq: 78 12:48:55 27 Oct 17 HG
500-135873-e-4-m du
Hg -.111 ppb 185

*** Sample ID: 102717T Seq: 79 12:51:13 27 Oct 17 HG
500-135873-e-4-n ms
Hg 1.12 ppb 6155

*** Sample ID: 102717T Seq: 80 12:53:33 27 Oct 17 HG
500-135873-e-5-j
Hg -.153 ppb -22

*** Sample ID: CCV 102717T Seq: 81 12:55:44 27 Oct 17 HG

Hg 1.05 ppb 5826

*** Sample ID: CCB 102717T Seq: 82 12:57:52 27 Oct 17 HG

Hg -.203 ppb -263

*** Sample ID: CCB 102717T Seq: 83 13:00:41 27 Oct 17 HG

Hg -.162 ppb -66

*** Sample ID: 102717T Seq: 84 13:02:52 27 Oct 17 HG
500-135873-e-6-j
Hg -.123 ppb 125

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 102717T Seq: 85 13:05:00 27 Oct 17 HG
500-135873-e-7-j
Hg -.150 ppb -8

*** Sample ID: 102717T Seq: 86 13:07:12 27 Oct 17 HG
500-135873-e-8-j
Hg -.121 ppb 135

*** Sample ID: 102717T Seq: 87 13:09:20 27 Oct 17 HG
500-135873-e-9-j
Hg -.125 ppb 116

*** Sample ID: 102717T Seq: 88 13:11:36 27 Oct 17 HG
500-135873-e-10-j
Hg -.129 ppb 98

*** Sample ID: 102717T Seq: 89 13:13:53 27 Oct 17 HG
500-135873-e-11-j
Hg -.082 ppb 325

*** Sample ID: 102717T Seq: 90 13:16:01 27 Oct 17 HG
500-135873-e-12-j
Hg -.132 ppb 82

*** Sample ID: 102717T Seq: 91 13:18:08 27 Oct 17 HG
500-135873-e-13-p
Hg -.110 ppb 187

*** Sample ID: 102717T Seq: 92 13:20:16 27 Oct 17 HG
mb 500-407221/12-a
Hg -.093 ppb 270

*** Sample ID: 102717T Seq: 93 13:22:22 27 Oct 17 HG
lcs 500-407221/13-a
Hg 2.34 ppb 12066

*** Sample ID: CCV 102717T Seq: 94 13:24:32 27 Oct 17 HG

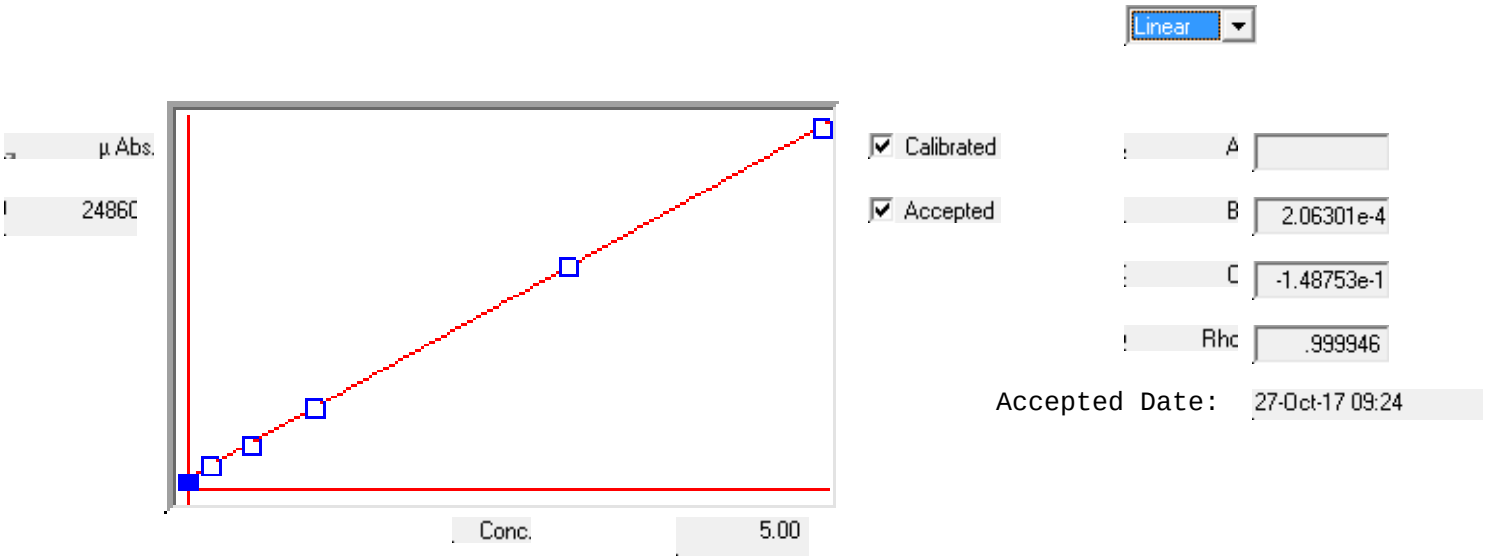
Hg .922 ppb 5191

*** Sample ID: CCB 102717T Seq: 95 13:26:40 27 Oct 17 HG

Hg -.210 ppb -297

*** Sample ID: 102717T Seq: 96 13:28:53 27 Oct 17 HG
lb 500-406934/1-c
Hg -.154 ppb -25

Protocol: Water



S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.025	-.025	599	1	598				
02	.20000	.210	.010	1740	0%	1739				
03	.50000	.500	.000	3146	0%	3146				
04	1.0000	1.00	.005	5591	0%	5591				
05	3.0000	3.03	.031	15411	0%	15411				
06	5.0000	4.98	-.020	24861	0%	24860				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 1	09:10:00 27 Oct 17	HG		
Hg	.000	ppb	598					
*** Standard: 2 Rep: 1				Seq: 2	09:12:07 27 Oct 17	HG		
Hg	.200	ppb	1739					
*** Standard: 3 Rep: 1				Seq: 3	09:14:16 27 Oct 17	HG		
Hg	.500	ppb	3146					
*** Standard: 4 Rep: 1				Seq: 4	09:16:46 27 Oct 17	HG		
Hg	1.00	ppb	5591					
*** Standard: 5 Rep: 1				Seq: 5	09:18:52 27 Oct 17	HG		
Hg	3.00	ppb	15411					
*** Standard: 6 Rep: 1				Seq: 6	09:21:03 27 Oct 17	HG		
Hg	5.00	ppb	24860					
*** Sample ID: ICV			102717T	Seq: 7	09:41:14 27 Oct 17	HG		
Hg	2.07	ppb	10755					
*** Sample ID: ICB			102717T	Seq: 8	09:43:25 27 Oct 17	HG		
Hg	-.231	ppb	-401					
*** Sample ID: CRA			102717T	Seq: 9	09:45:31 27 Oct 17	HG		
Hg	.163	ppb	1512					
*** Sample ID: ICB			102717T	Seq: 10	09:48:17 27 Oct 17	HG		
Hg	-.054	ppb	461					
*** Sample ID:			102717T mb 500-406927/12-a	Seq: 11	09:50:25 27 Oct 17	HG		
Hg	-.077	ppb	349					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 12 lcs 500-406927/13-a		09:52:46 27 Oct 17	HG		
Hg	2.16	ppb	11204					
*** Sample ID:			102717T Seq: 13 500-135710-c-1-b		09:55:15 27 Oct 17	HG		
Hg	-.078	ppb	342					
*** Sample ID:			102717T Seq: 14 500-135710-c-2-b		09:57:21 27 Oct 17	HG		
Hg	-.149	ppb	0					
*** Sample ID:			102717T Seq: 15 500-135710-c-3-b		09:59:27 27 Oct 17	HG		
Hg	-.111	ppb	182					
*** Sample ID:			102717T Seq: 16 500-135710-c-4-b		10:01:43 27 Oct 17	HG		
Hg	-.088	ppb	295					
*** Sample ID:			102717T Seq: 17 500-135710-c-5-b		10:03:50 27 Oct 17	HG		
Hg	-.040	ppb	528					
*** Sample ID:			102717T Seq: 18 500-135710-c-6-b		10:06:11 27 Oct 17	HG		
Hg	.033	ppb	882					
*** Sample ID:			102717T Seq: 19 500-135710-c-7-b		10:08:17 27 Oct 17	HG		
Hg	-.059	ppb	437					
*** Sample ID: CCV			102717T Seq: 20		10:10:23 27 Oct 17	HG		
Hg	.910	ppb	5132					
*** Sample ID: CCB			102717T Seq: 21		10:18:45 27 Oct 17	HG		
Hg	-.105	ppb	214					
*** Sample ID:			102717T Seq: 22 mb 500-406920/12-a		10:20:51 27 Oct 17	HG		
Hg	-.061	ppb	425					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 23	10:22:59 27 Oct 17 HG				
			lcs 500-406920/13-a					
Hg	2.55	ppb	13066					
*** Sample ID:			102717T Seq: 24	10:25:10 27 Oct 17 HG				
			500-135987-e-8-b					
Hg	-.094	ppb	264					
*** Sample ID:			102717T Seq: 25	10:27:16 27 Oct 17 HG				
			500-135987-e-9-b					
Hg	-.187	ppb	-187					
*** Sample ID:			102717T Seq: 26	10:29:23 27 Oct 17 HG				
			500-136052-a-1-b					
Hg	-.044	ppb	507					
*** Sample ID:			102717T Seq: 27	10:31:31 27 Oct 17 HG				
			500-136053-b-1-b					
Hg	-.028	ppb	585					
*** Sample ID:			102717T Seq: 28	10:33:38 27 Oct 17 HG				
			500-136053-b-3-b					
Hg	-.084	ppb	314					
*** Sample ID:			102717T Seq: 29	10:35:44 27 Oct 17 HG				
			500-136053-b-5-b					
Hg	-.049	ppb	484					
*** Sample ID:			102717T Seq: 30	10:37:57 27 Oct 17 HG				
			500-136053-b-7-b					
Hg	-.024	ppb	607					
*** Sample ID:			102717T Seq: 31	10:40:38 27 Oct 17 HG				
			500-136054-e-1-b					
Hg	-.030	ppb	574					
*** Sample ID: CCV			102717T Seq: 32	10:42:44 27 Oct 17 HG				
Hg	.910	ppb	5132					
*** Sample ID: CCB			102717T Seq: 33	10:47:31 27 Oct 17 HG				
Hg	-.101	ppb	232					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 34	10:49:39 27 Oct 17	HG			
			500-136054-b-2-b					
Hg	2.94	ppb	14992					
*** Sample ID:			102717T Seq: 35	10:51:44 27 Oct 17	HG			
			500-136112-b-1-b					
Hg	-.332	ppb	-888					
*** Sample ID:			102717T Seq: 36	10:53:50 27 Oct 17	HG			
			500-136161-a-1-b					
Hg	-.072	ppb	373					
*** Sample ID:			102717T Seq: 37	10:55:56 27 Oct 17	HG			
			500-136161-a-1-c du					
Hg	-.101	ppb	233					
*** Sample ID:			102717T Seq: 38	10:58:03 27 Oct 17	HG			
			500-136161-a-1-d ms					
Hg	1.17	ppb	6378					
*** Sample ID:			102717T Seq: 39	11:00:11 27 Oct 17	HG			
			500-135977-b-1-c					
Hg	-.227	ppb	-379					
*** Sample ID:			102717T Seq: 40	11:02:20 27 Oct 17	HG			
			500-135989-a-1-e					
Hg	-.259	ppb	-535					
*** Sample ID:			102717T Seq: 41	11:04:27 27 Oct 17	HG			
			500-136010-a-1-e					
Hg	-.040	ppb	526					
*** Sample ID:			102717T Seq: 42	11:06:33 27 Oct 17	HG			
			500-136013-a-1-b					
Hg	-.034	ppb	558					
*** Sample ID:			102717T Seq: 43	11:08:38 27 Oct 17	HG			
			lcs 500-406920/13-a					
Hg	2.44	ppb	12550					
*** Sample ID: CCV			102717T Seq: 44	11:10:46 27 Oct 17	HG			
Hg	.864	ppb	4908					
*** Sample ID: CCV			102717T Seq: 45	11:13:10 27 Oct 17	HG			
Hg	.972	ppb	5435					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCB			102717T	Seq: 46	11:17:01 27 Oct 17	HG		
Hg	-.111	ppb	182					
*** Sample ID:			102717T	Seq: 47	11:19:08 27 Oct 17	HG		
Hg	-.029	ppb	581					
*** Sample ID:			102717T	Seq: 48	11:21:29 27 Oct 17	HG		
			500-135710-c-8-c du					
Hg	-.065	ppb	406					
*** Sample ID:			102717T	Seq: 49	11:23:38 27 Oct 17	HG		
			500-135710-c-8-d ms					
Hg	1.19	ppb	6502					
*** Sample ID:			102717T	Seq: 50	11:25:46 27 Oct 17	HG		
			500-135710-c-8-e msd					
Hg	1.20	ppb	6554					
*** Sample ID:			102717T	Seq: 51	11:28:16 27 Oct 17	HG		
			500-135710-c-9-b					
Hg	-.119	ppb	145					
*** Sample ID:			102717T	Seq: 52	11:30:27 27 Oct 17	HG		
			500-135710-c-10-b					
Hg	-.054	ppb	459					
*** Sample ID:			102717T	Seq: 53	11:34:57 27 Oct 17	HG		
			500-135710-c-11-b					
Hg	-.060	ppb	429					
*** Sample ID:			102717T	Seq: 54	11:37:03 27 Oct 17	HG		
			500-135710-c-12-b					
Hg	-.028	ppb	584					
*** Sample ID:			102717T	Seq: 55	11:39:13 27 Oct 17	HG		
			500-135710-c-14-b					
Hg	.058	ppb	1002					
*** Sample ID:			102717T	Seq: 56	11:41:22 27 Oct 17	HG		
			500-136094-t-1-b					
Hg	-.087	ppb	300					

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: CCV 102717T Seq: 57 11:43:29 27 Oct 17 HG

Hg 1.01 ppb 5623

==========

*** Sample ID: CCB 102717T Seq: 58 11:45:56 27 Oct 17 HG

Hg -.156 ppb -37

==========

*** Sample ID: 102717T Seq: 59 11:48:15 27 Oct 17 HG
500-136094-t-2-b
Hg -.071 ppb 378

*** Sample ID: 102717T Seq: 60 11:50:21 27 Oct 17 HG
500-136329-d-1-a
Hg -.027 ppb 589

*** Sample ID: 102717T Seq: 61 12:11:35 27 Oct 17 HG
mb 500-407219/12-a
Hg -.092 ppb 274

*** Sample ID: 102717T Seq: 62 12:13:44 27 Oct 17 HG
lcs 500-407219/13-a
Hg 2.41 ppb 12415

*** Sample ID: 102717T Seq: 63 12:15:52 27 Oct 17 HG
lb 500-406932/1-d
Hg -.202 ppb -258

*** Sample ID: 102717T Seq: 64 12:18:01 27 Oct 17 HG
500-136205-a-1-e
Hg -.130 ppb 93

*** Sample ID: 102717T Seq: 65 12:20:10 27 Oct 17 HG
500-136167-b-1-d
Hg -.135 ppb 65

*** Sample ID: 102717T Seq: 66 12:22:15 27 Oct 17 HG
500-136167-b-2-f
Hg -.079 ppb 340

*** Sample ID: 102717T Seq: 67 12:24:22 27 Oct 17 HG
500-136058-b-1-e
Hg -.144 ppb 24

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 68 lb2 500-406933/1-c		12:26:28 27 Oct 17	HG		
Hg	-.142	ppb	35					
*** Sample ID: CCV			102717T Seq: 69		12:28:34 27 Oct 17	HG		
Hg	.998	ppb	5559					
*** Sample ID: CCB			102717T Seq: 70		12:30:45 27 Oct 17	HG		
Hg	-.162	ppb	-66					
*** Sample ID:			102717T Seq: 71 500-135256-b-23-f		12:33:03 27 Oct 17	HG		
Hg	-.114	ppb	167					
*** Sample ID:			102717T Seq: 72 500-135256-b-24-f		12:35:11 27 Oct 17	HG		
Hg	-.105	ppb	211					
*** Sample ID:			102717T Seq: 73 lb 500-406711/1-c		12:38:00 27 Oct 17	HG		
Hg	-.140	ppb	44					
*** Sample ID:			102717T Seq: 74 500-135873-e-1-j		12:40:08 27 Oct 17	HG		
Hg	-.138	ppb	54					
*** Sample ID:			102717T Seq: 75 500-135873-e-2-j		12:42:15 27 Oct 17	HG		
Hg	-.061	ppb	426					
*** Sample ID:			102717T Seq: 76 500-135873-e-3-j		12:44:27 27 Oct 17	HG		
Hg	-.146	ppb	13					
*** Sample ID:			102717T Seq: 77 500-135873-e-4-l		12:46:37 27 Oct 17	HG		
Hg	-.134	ppb	73					
*** Sample ID:			102717T Seq: 78 500-135873-e-4-m du		12:48:55 27 Oct 17	HG		
Hg	-.111	ppb	185					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 79	12:51:13 27 Oct 17	HG			
			500-135873-e-4-n ms					
Hg	1.12	ppb	6155					
*** Sample ID:			102717T Seq: 80	12:53:33 27 Oct 17	HG			
			500-135873-e-5-j					
Hg	-.153	ppb	-22					
*** Sample ID: CCV			102717T Seq: 81	12:55:44 27 Oct 17	HG			
Hg	1.05	ppb	5826					
*** Sample ID: CCB			102717T Seq: 82	12:57:52 27 Oct 17	HG			
Hg	-.203	ppb	-263					
*** Sample ID: CCB			102717T Seq: 83	13:00:41 27 Oct 17	HG			
Hg	-.162	ppb	-66					
*** Sample ID:			102717T Seq: 84	13:02:52 27 Oct 17	HG			
			500-135873-e-6-j					
Hg	-.123	ppb	125					
*** Sample ID:			102717T Seq: 85	13:05:00 27 Oct 17	HG			
			500-135873-e-7-j					
Hg	-.150	ppb	-8					
*** Sample ID:			102717T Seq: 86	13:07:12 27 Oct 17	HG			
			500-135873-e-8-j					
Hg	-.121	ppb	135					
*** Sample ID:			102717T Seq: 87	13:09:20 27 Oct 17	HG			
			500-135873-e-9-j					
Hg	-.125	ppb	116					
*** Sample ID:			102717T Seq: 88	13:11:36 27 Oct 17	HG			
			500-135873-e-10-j					
Hg	-.129	ppb	98					
*** Sample ID:			102717T Seq: 89	13:13:53 27 Oct 17	HG			
			500-135873-e-11-j					
Hg	-.082	ppb	325					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 90	13:16:01 27 Oct 17	HG			
			500-135873-e-12-j					
Hg	-.132	ppb	82					
*** Sample ID:			102717T Seq: 91	13:18:08 27 Oct 17	HG			
			500-135873-e-13-p					
Hg	-.110	ppb	187					
*** Sample ID:			102717T Seq: 92	13:20:16 27 Oct 17	HG			
			mb 500-407221/12-a					
Hg	-.093	ppb	270					
*** Sample ID:			102717T Seq: 93	13:22:22 27 Oct 17	HG			
			lcs 500-407221/13-a					
Hg	2.34	ppb	12066					
*** Sample ID: CCV			102717T Seq: 94	13:24:32 27 Oct 17	HG			
Hg	.922	ppb	5191					
*** Sample ID: CCB			102717T Seq: 95	13:26:40 27 Oct 17	HG			
Hg	-.210	ppb	-297					
*** Sample ID:			102717T Seq: 96	13:28:53 27 Oct 17	HG			
			lb 500-406934/1-c					
Hg	-.154	ppb	-25					
*** Sample ID:			102717T Seq: 97	13:31:00 27 Oct 17	HG			
			500-135635-a-1-d					
Hg	354.	ppb	1714687					
*** Sample ID: CCV			102717T Seq: 98	13:41:51 27 Oct 17	HG			
Hg	.734	ppb	4277					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 1	09:10:00 27 Oct 17	HG		
Hg	.000	ppb	598					
*** Standard: 2 Rep: 1				Seq: 2	09:12:07 27 Oct 17	HG		
Hg	.200	ppb	1739					
*** Standard: 3 Rep: 1				Seq: 3	09:14:16 27 Oct 17	HG		
Hg	.500	ppb	3146					
*** Standard: 4 Rep: 1				Seq: 4	09:16:46 27 Oct 17	HG		
Hg	1.00	ppb	5591					
*** Standard: 5 Rep: 1				Seq: 5	09:18:52 27 Oct 17	HG		
Hg	3.00	ppb	15411					
*** Standard: 6 Rep: 1				Seq: 6	09:21:03 27 Oct 17	HG		
Hg	5.00	ppb	24860					
*** Sample ID: ICV			102717T	Seq: 7	09:41:14 27 Oct 17	HG		
Hg	2.07	ppb	10755					
*** Sample ID: ICB			102717T	Seq: 8	09:43:25 27 Oct 17	HG		
Hg	-.231	ppb	-401					
*** Sample ID: CRA			102717T	Seq: 9	09:45:31 27 Oct 17	HG		
Hg	.163	ppb	1512					
*** Sample ID: ICB			102717T	Seq: 10	09:48:17 27 Oct 17	HG		
Hg	-.054	ppb	461					
*** Sample ID:			102717T mb 500-406927/12-a	Seq: 11	09:50:25 27 Oct 17	HG		
Hg	-.077	ppb	349					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCB			102717T	Seq: 46	11:17:01 27 Oct 17	HG		
Hg	-.111	ppb	182					
*** Sample ID:			102717T	Seq: 47	11:19:08 27 Oct 17	HG		
Hg	-.029	ppb	581					
*** Sample ID:			102717T	Seq: 48	11:21:29 27 Oct 17	HG		
			500-135710-c-8-c du					
Hg	-.065	ppb	406					
*** Sample ID:			102717T	Seq: 49	11:23:38 27 Oct 17	HG		
			500-135710-c-8-d ms					
Hg	1.19	ppb	6502					
*** Sample ID:			102717T	Seq: 50	11:25:46 27 Oct 17	HG		
			500-135710-c-8-e msd					
Hg	1.20	ppb	6554					
*** Sample ID:			102717T	Seq: 51	11:28:16 27 Oct 17	HG		
			500-135710-c-9-b					
Hg	-.119	ppb	145					
*** Sample ID:			102717T	Seq: 52	11:30:27 27 Oct 17	HG		
			500-135710-c-10-b					
Hg	-.054	ppb	459					
*** Sample ID:			102717T	Seq: 53	11:34:57 27 Oct 17	HG		
			500-135710-c-11-b					
Hg	-.060	ppb	429					
*** Sample ID:			102717T	Seq: 54	11:37:03 27 Oct 17	HG		
			500-135710-c-12-b					
Hg	-.028	ppb	584					
*** Sample ID:			102717T	Seq: 55	11:39:13 27 Oct 17	HG		
			500-135710-c-14-b					
Hg	.058	ppb	1002					
*** Sample ID:			102717T	Seq: 56	11:41:22 27 Oct 17	HG		
			500-136094-t-1-b					
Hg	-.087	ppb	300					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 12	09:52:46 27 Oct 17 HG				
			lcs 500-406927/13-a					
Hg	2.16	ppb	11204					
*** Sample ID:			102717T Seq: 13	09:55:15 27 Oct 17 HG				
			500-135710-c-1-b					
Hg	-.078	ppb	342					
*** Sample ID:			102717T Seq: 14	09:57:21 27 Oct 17 HG				
			500-135710-c-2-b					
Hg	-.149	ppb	0					
*** Sample ID:			102717T Seq: 15	09:59:27 27 Oct 17 HG				
			500-135710-c-3-b					
Hg	-.111	ppb	182					
*** Sample ID:			102717T Seq: 16	10:01:43 27 Oct 17 HG				
			500-135710-c-4-b					
Hg	-.088	ppb	295					
*** Sample ID:			102717T Seq: 17	10:03:50 27 Oct 17 HG				
			500-135710-c-5-b					
Hg	-.040	ppb	528					
*** Sample ID:			102717T Seq: 18	10:06:11 27 Oct 17 HG				
			500-135710-c-6-b					
Hg	.033	ppb	882					
*** Sample ID:			102717T Seq: 19	10:08:17 27 Oct 17 HG				
			500-135710-c-7-b					
Hg	-.059	ppb	437					
*** Sample ID: CCV			102717T Seq: 20	10:10:23 27 Oct 17 HG				
Hg	.910	ppb	5132					
*** Sample ID: CCB			102717T Seq: 21	10:18:45 27 Oct 17 HG				
Hg	-.105	ppb	214					
*** Sample ID:			102717T Seq: 22	10:20:51 27 Oct 17 HG				
			mb 500-406920/12-a					
Hg	-.061	ppb	425					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 23	10:22:59 27 Oct 17 HG				
			lcs 500-406920/13-a					
Hg	2.55	ppb	13066					
*** Sample ID:			102717T Seq: 24	10:25:10 27 Oct 17 HG				
			500-135987-e-8-b					
Hg	-.094	ppb	264					
*** Sample ID:			102717T Seq: 25	10:27:16 27 Oct 17 HG				
			500-135987-e-9-b					
Hg	-.187	ppb	-187					
*** Sample ID:			102717T Seq: 26	10:29:23 27 Oct 17 HG				
			500-136052-a-1-b					
Hg	-.044	ppb	507					
*** Sample ID:			102717T Seq: 27	10:31:31 27 Oct 17 HG				
			500-136053-b-1-b					
Hg	-.028	ppb	585					
*** Sample ID:			102717T Seq: 28	10:33:38 27 Oct 17 HG				
			500-136053-b-3-b					
Hg	-.084	ppb	314					
*** Sample ID:			102717T Seq: 29	10:35:44 27 Oct 17 HG				
			500-136053-b-5-b					
Hg	-.049	ppb	484					
*** Sample ID:			102717T Seq: 30	10:37:57 27 Oct 17 HG				
			500-136053-b-7-b					
Hg	-.024	ppb	607					
*** Sample ID:			102717T Seq: 31	10:40:38 27 Oct 17 HG				
			500-136054-e-1-b					
Hg	-.030	ppb	574					
*** Sample ID: CCV			102717T Seq: 32	10:42:44 27 Oct 17 HG				
Hg	.910	ppb	5132					
*** Sample ID: CCB			102717T Seq: 33	10:47:31 27 Oct 17 HG				
Hg	-.101	ppb	232					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 34 500-136054-b-2-b	10:49:39 27 Oct 17	HG			
Hg	2.94	ppb	14992					
*** Sample ID:			102717T Seq: 35 500-136112-b-1-b	10:51:44 27 Oct 17	HG			
Hg	-.332	ppb	-888					
*** Sample ID:			102717T Seq: 36 500-136161-a-1-b	10:53:50 27 Oct 17	HG			
Hg	-.072	ppb	373					
*** Sample ID:			102717T Seq: 37 500-136161-a-1-c du	10:55:56 27 Oct 17	HG			
Hg	-.101	ppb	233					
*** Sample ID:			102717T Seq: 38 500-136161-a-1-d ms	10:58:03 27 Oct 17	HG			
Hg	1.17	ppb	6378					
*** Sample ID:			102717T Seq: 39 500-135977-b-1-c	11:00:11 27 Oct 17	HG			
Hg	-.227	ppb	-379					
*** Sample ID:			102717T Seq: 40 500-135989-a-1-e	11:02:20 27 Oct 17	HG			
Hg	-.259	ppb	-535					
*** Sample ID:			102717T Seq: 41 500-136010-a-1-e	11:04:27 27 Oct 17	HG			
Hg	-.040	ppb	526					
*** Sample ID:			102717T Seq: 42 500-136013-a-1-b	11:06:33 27 Oct 17	HG			
Hg	-.034	ppb	558					
*** Sample ID:			102717T Seq: 43 lcs 500-406920/13-a	11:08:38 27 Oct 17	HG			
Hg	2.44	ppb	12550					
*** Sample ID: CCV			102717T Seq: 44	11:10:46 27 Oct 17	HG			
Hg	.864	ppb	4908					
*** Sample ID: CCV			102717T Seq: 45	11:13:10 27 Oct 17	HG			
Hg	.972	ppb	5435					

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Sample ID: CCV        102717T    Seq:  57     11:43:29 27 Oct 17   HG

Hg    1.01    ppb      5623
                                                                              =
==============================================================================
*** Sample ID: CCB        102717T    Seq:  58     11:45:56 27 Oct 17   HG

Hg   -.156    ppb      -37
                                                                              =
==============================================================================
*** Sample ID:            102717T    Seq:  59     11:48:15 27 Oct 17   HG
                           500-136094-t-2-b
Hg   -.071    ppb      378
                                                                              =
*** Sample ID:            102717T    Seq:  60     11:50:21 27 Oct 17   HG
                           500-136329-d-1-a
Hg   -.027    ppb      589
                                                                              =
*** Sample ID:            102717T    Seq:  61     12:11:35 27 Oct 17   HG
                           mb 500-407219/12-a
Hg   -.092    ppb      274
                                                                              =
*** Sample ID:            102717T    Seq:  62     12:13:44 27 Oct 17   HG
                           lcs 500-407219/13-a
Hg    2.41    ppb      12415
                                                                              =
*** Sample ID:            102717T    Seq:  63     12:15:52 27 Oct 17   HG
                           lb 500-406932/1-d
Hg   -.202    ppb      -258
                                                                              =
*** Sample ID:            102717T    Seq:  64     12:18:01 27 Oct 17   HG
                           500-136205-a-1-e
Hg   -.130    ppb      93
                                                                              =
*** Sample ID:            102717T    Seq:  65     12:20:10 27 Oct 17   HG
                           500-136167-b-1-d
Hg   -.135    ppb      65
                                                                              =
*** Sample ID:            102717T    Seq:  66     12:22:15 27 Oct 17   HG
                           500-136167-b-2-f
Hg   -.079    ppb      340
                                                                              =
*** Sample ID:            102717T    Seq:  67     12:24:22 27 Oct 17   HG
                           500-136058-b-1-e
Hg   -.144    ppb      24
                                                                              =
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 68	12:26:28 27 Oct 17 HG				
			lb2 500-406933/1-c					
Hg	-.142	ppb	35					
*** Sample ID: CCV			102717T Seq: 69	12:28:34 27 Oct 17 HG				
Hg	.998	ppb	5559					
*** Sample ID: CCB			102717T Seq: 70	12:30:45 27 Oct 17 HG				
Hg	-.162	ppb	-66					
*** Sample ID:			102717T Seq: 71	12:33:03 27 Oct 17 HG				
			500-135256-b-23-f					
Hg	-.114	ppb	167					
*** Sample ID:			102717T Seq: 72	12:35:11 27 Oct 17 HG				
			500-135256-b-24-f					
Hg	-.105	ppb	211					
*** Sample ID:			102717T Seq: 73	12:38:00 27 Oct 17 HG				
			lb 500-406711/1-c					
Hg	-.140	ppb	44					
*** Sample ID:			102717T Seq: 74	12:40:08 27 Oct 17 HG				
			500-135873-e-1-j					
Hg	-.138	ppb	54					
*** Sample ID:			102717T Seq: 75	12:42:15 27 Oct 17 HG				
			500-135873-e-2-j					
Hg	-.061	ppb	426					
*** Sample ID:			102717T Seq: 76	12:44:27 27 Oct 17 HG				
			500-135873-e-3-j					
Hg	-.146	ppb	13					
*** Sample ID:			102717T Seq: 77	12:46:37 27 Oct 17 HG				
			500-135873-e-4-l					
Hg	-.134	ppb	73					
*** Sample ID:			102717T Seq: 78	12:48:55 27 Oct 17 HG				
			500-135873-e-4-m du					
Hg	-.111	ppb	185					

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID:            102717T    Seq:  79     12:51:13 27 Oct 17   HG
                           500-135873-e-4-n ms
Hg    1.12    ppb      6155
                                                                              =
*** Sample ID:            102717T    Seq:  80     12:53:33 27 Oct 17   HG
                           500-135873-e-5-j
Hg   -.153    ppb      -22
                                                                              =
================================================================================
*** Sample ID: CCV        102717T    Seq:  81     12:55:44 27 Oct 17   HG

Hg    1.05    ppb      5826
                                                                              =
================================================================================
*** Sample ID: CCB        102717T    Seq:  82     12:57:52 27 Oct 17   HG

Hg   -.203    ppb      -263
                                                                              =
*** Sample ID: CCB        102717T    Seq:  83     13:00:41 27 Oct 17   HG

Hg   -.162    ppb      -66
                                                                              =
================================================================================
*** Sample ID:            102717T    Seq:  84     13:02:52 27 Oct 17   HG
                           500-135873-e-6-j
Hg   -.123    ppb      125
                                                                              =
*** Sample ID:            102717T    Seq:  85     13:05:00 27 Oct 17   HG
                           500-135873-e-7-j
Hg   -.150    ppb      -8
                                                                              =
*** Sample ID:            102717T    Seq:  86     13:07:12 27 Oct 17   HG
                           500-135873-e-8-j
Hg   -.121    ppb      135
                                                                              =
*** Sample ID:            102717T    Seq:  87     13:09:20 27 Oct 17   HG
                           500-135873-e-9-j
Hg   -.125    ppb      116
                                                                              =
*** Sample ID:            102717T    Seq:  88     13:11:36 27 Oct 17   HG
                           500-135873-e-10-j
Hg   -.129    ppb      98
                                                                              =
*** Sample ID:            102717T    Seq:  89     13:13:53 27 Oct 17   HG
                           500-135873-e-11-j
Hg   -.082    ppb      325
                                                                              =
```

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:			102717T Seq: 90	13:16:01 27 Oct 17	HG			
			500-135873-e-12-j					
Hg	-.132	ppb	82					
*** Sample ID:			102717T Seq: 91	13:18:08 27 Oct 17	HG			
			500-135873-e-13-p					
Hg	-.110	ppb	187					
*** Sample ID:			102717T Seq: 92	13:20:16 27 Oct 17	HG			
			mb 500-407221/12-a					
Hg	-.093	ppb	270					
*** Sample ID:			102717T Seq: 93	13:22:22 27 Oct 17	HG			
			lcs 500-407221/13-a					
Hg	2.34	ppb	12066					
*** Sample ID: CCV			102717T Seq: 94	13:24:32 27 Oct 17	HG			
Hg	.922	ppb	5191					
*** Sample ID: CCB			102717T Seq: 95	13:26:40 27 Oct 17	HG			
Hg	-.210	ppb	-297					
*** Sample ID:			102717T Seq: 96	13:28:53 27 Oct 17	HG			
			lb 500-406934/1-c					
Hg	-.154	ppb	-25					
*** Sample ID:			102717T Seq: 97	13:31:00 27 Oct 17	HG			
			500-135635-a-1-d					
Hg	354.	ppb	1714687					
*** Sample ID: CCV			102717T Seq: 98	13:41:51 27 Oct 17	HG			
Hg	.734	ppb	4277					

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136329-1

SDG No.:

Project: Chicago River Mystery Spill

Client Sample ID	Lab Sample ID
CRMS-SW-01-102617	500-136329-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: CRMS-SW-01-102617 Lab Sample ID: 500-136329-1

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG ID.:

Matrix: Water Date Sampled: 10/26/2017 11:48

Reporting Basis: WET Date Received: 10/26/2017 14:05

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Flashpoint	>176	40.0	40.0	Degrees F			1	1010A

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job Number: 500-136329-1

SDG Number:

Matrix: Water Instrument ID: FP4

Method: 1010A MDL Date: 05/01/2006 13:55

Analyte	Wavelength/ Mass	RL (Degrees F)	MDL (Degrees F)
Flashpoint		40	40

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Instrument ID: FP4 Analysis Method: 1010A

Start Date: 10/27/2017 10:16 End Date: 10/27/2017 16:28

Lab Sample Id	D/F	Type	Time	Analytes																								
				FP																								
ZZZZZZ			10:16																									
ZZZZZZ			12:59																									
500-136329-1	1	T	16:28	X																								

Prep Types:
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136329-1

SDG No.:

Batch Number: 407366 Batch Start Date: 10/27/17 10:16 Batch Analyst: Nunez, Marc A

Batch Method: 1010A Batch End Date: 10/27/17 16:28

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
500-136329-E-1	CRMS-SW-01-102617	1010A	T	Slight dark tint liquid					

Batch Notes	
Batch Comment	n-decane_00005 LCS, True Value 127 +/- 4degF. Flashed at 124
Equipment ID	HFP 2082

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

TestAmerica Chicago
Miscellaneous (IMB)

Parameter: ccfp
LIMS Test Method: 1010
LIMs Batch #: 407366
Reporting Limit: 176
Drinking Water Set (Circle): YES NO
Prep Time: ____ Start ____ End
Analysis Time: 10:16 Start 15:43 End

Page #: 55
Book #: 5140
Instrument: fp4
Conditions: mn 10/27/17

Calculation:

% Rec / RPD	Stds. / QC / Sample #		Results	Units	% Rec / RPD
	n-decane	True Value 127 ± 4°F	124	°F	
	500-135946-A-1	Rocks and some dirt	mn 10/27/17 156. 7176	°F	
	1 Du	" 1 "	7176	°F	
	500-135329-E-1	slight dark tint liquid	7176	°F	
			mn 10/27/17		

Standard Traceability:	Reagent Traceability:	Eppendorf Traceability:
n-decane - 0005		mn 10/27/17

Note: Working Standards are prepared daily from the noted Stock Solutions.

Analyst Signature: mn mn Date: 10/27/17
Reviewer Signature: John Trowell Date: 10/27/17

CHI-22-12-006/E-9/07

11/16/2017

General Chemistry Worksheet

Batch Number: 500-407366
Method: 1010
Analyst: Nunez, Marc A

Date Open: Oct 27 2017 10:16AM
Batch End: Oct 27 2017 3:43PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
500-135946-A-1	FL-1	1010A	T	Rocks and some dirt
500-135946-A-1~DU		1010A	T	Rocks and some dirt

Batch Comment: n-decane_00005 LCS, True Value 127 +/- 4degF. Flashed at 124

TALS Raw Data Report

Job Number: 500-135946-1
LIMS Batch: 407366
Equipment: FP4

Laboratory: TestAmerica Chicago

RS# 1 Lab ID: **500-135946-A-1** Inj Date: 10/27/2017 10:16:00AM Dil: 1.0 Meth: 1010A

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Flashpoint		>176 Degre	Degrees F				

RS# 2 Lab ID: **500-135946-A-1 DU** Inj Date: 10/27/2017 12:59:30PM Dil: 1.0 Meth: 1010A

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Flashpoint		>176 Degre	Degrees F			NC	20

General Chemistry Worksheet

Batch Number: 500-407366
Method: 1010
Analyst: Nunez, Marc A

Date Open: Oct 27 2017 10:16AM
Batch End: Oct 27 2017 4:28PM

Lab ID	Client ID	Method Chain	Basis	Comments Analysis comment
500-135946-A-1	FL-1	1010A	T	Rocks and some dirt
500-135946-A-1~DU		1010A	T	Rocks and some dirt
500-136329-E-1	CRMS-SW-01-102617	1010A	T	Slight dark tint liquid

Batch Comment: n-decane_00005 LCS, True Value 127 +/- 4degF. Flashed at 124

TALS Raw Data Report

Job Number: 500-135946-1
LIMS Batch: 407366
Equipment: FP4

Laboratory: TestAmerica Chicago

RS# 1 Lab ID: **500-135946-A-1** Inj Date: 10/27/2017 10:16:00AM Dil: 1.0 Meth: 1010A

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Flashpoint		>176 Degre	Degrees F				

RS# 2 Lab ID: **500-135946-A-1 DU** Inj Date: 10/27/2017 12:59:30PM Dil: 1.0 Meth: 1010A

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Flashpoint		>176 Degre	Degrees F			NC	20

TALS Raw Data Report

Job Number: 500-136329-1
LIMS Batch: 407366
Equipment: FP4

Laboratory: TestAmerica Chicago

RS# 3 Lab ID: **500-136329-E-1** Inj Date: 10/27/2017 4:28:10PM Dil: 1.0 Meth: 1010A

Analyte	Rspnse	Raw Res/Units	Final Res/Qual/Units	% Rec	Rec Lmt	% RPD	RPD Lmt
Flashpoint		>176 Degre	Degrees F				

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60
Phone: 708.534.5200 Fax: 708.534.

500-136329 COC

Chain of Custody Record

Lab Job #: 500-136329

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 17/2

Report To (optional)	Bill To (optional)
Contact: MATT VILLICANA	Contact: MATT VILLICANA
Company: TETRA TECH	Company: TETRA TECH
Address: 1 S. WACKER DR.	Address: 1 S. WACKER DR., 37TH FLR
Address: 37TH FLOOR	Address: CHICAGO, IL 60606
Phone: 708 502-1513	Phone:
Fax:	Fax:
E-Mail: MATT.VILLICANA@TETRATECH.COM	PO#/Reference#: TBD

Client	Clie.	Preservative	3	1	8	9					
TETRA TECH	TBD										
Project Name: CHICAGO RIVER MYSTERY SPILL		Parameter	RCRA 8 Metals	VOCs	SVOCs	TOX					
Project Location/State: CHICAGO, IL	Lab Project #										
Sampler: MATT VILLICANA	Lab PM										

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix									Comments
1		CRMS-SW-01-102617	10/26/17	11:48	6	W	X	X	X	X					

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
X 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	TETRA TECH	10/26/17	14:05		TA-CHI	10/26/17	1405
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier ☐
Shipped ☐
Hand Delivered X

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments
PLEASE PRESERVE TOX SAMPLE W/ SULFURIC ACID

Lab Comments:

11/16/2017

Login Sample Receipt Checklist

Client: Tetra Tech EM Inc.

Job Number: 500-136329-1

Login Number: 136329
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	17.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 500-136532-1

Job Description: Chicago River Mystery Spill

For:
Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, IL 60606

Attention: Mr. Matt Villicana

Approved for release.
Therese M Hargraves
Project Manager I
11/9/2017 2:56 PM

Therese M Hargraves, Project Manager I
2417 Bond Street, University Park, IL, 60484
therese.hargraves@testamericainc.com
11/09/2017

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

Table of Contents

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
500-136532-1

Comments
No additional comments.

Receipt
The samples were received on 10/31/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8º C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Added to COC and logged in.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCS associated with batch 500-407898 had 1 analyte outside control limits: bis (2-chloroisopropyl) ether. These results have been reported and qualified. (LCS 500-407898/2-A)

Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: CRMS-SW-02-103117 (500-136532-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: CRMS-SW-02-103117 (500-136532-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The following sample contained one base surrogate outside acceptance limits: (LCSD 500-407898/3-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method(s) 8270D: The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: Famphur, 1,4-Napthaquinone, Methane sulfonate, Benzaldehyde, 1-naphthylamine, 2-naphthylamine, p-Dimethylamino azobenzene, p-phenylenediamine, a,a-dimethylphenethylamine, Methapyriline, 2-picoline (2-methylpyridine), 3,3'-dimethylbenzidine, 3,3'-dichlorobenzidine, Benzidine, Benzaldehyde, Benzoic acid, Dinoseb, Hexachlorophene, Hexachlorocyclopentadiene, o,o,o-triethylphosphorothioate. These analytes may have a %D>60% if the average %D of all the analytes in the initial calibration verification (ICV) is 30%. ICV 500-402944/13 was outside limits, biased low for benzaldehyde.

Method(s) 8270D: CCVIS 500-407918/2 was outside the method criteria for the following analytes: Bis(2-chloroethyl)ether; 2,2'-oxybis[1-chloropropane]; Hexachlorobutadiene; 4-Nitrophenol; Hexachlorobenzene and 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The following sample was diluted due to the nature of the sample matrix: CRMS-SW-02-103117 (500-136532-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low-level CCV at line 8 in 6010C batch 500-408080 was above the method acceptance limits of 70-130% recovery for Arsenic.. The sample CRMS-SW-03-103117 (500-136532-2) was bracketed. The sample was a non-detect for Arsenic, therefore the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: 3510C_LVI 8270D

Due to the matrix, the following sample(s) could not be concentrated to the final method required volume: 500-136532-1. The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136532-1

Client Sample ID: CRMS-SW-02-103117 — Lab Sample ID: 500-136532-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	39		5.0	1.7	ug/L	1		8260B	Total/NA
Chloroform	1.2	J	2.0	0.37	ug/L	1		8260B	Total/NA
Methyl acetate	17		5.0	2.0	ug/L	1		8260B	Total/NA
Toluene	1.9		0.50	0.15	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	7.2	J	160	5.2	ug/L	50		8270D	Total/NA
Arsenic	0.048		0.033	0.012	mg/L	1		6010C	Total/NA
Barium	1.4		0.033	0.0041	mg/L	1		6010C	Total/NA
Cadmium	0.019	B	0.0067	0.0014	mg/L	1		6010C	Total/NA
Chromium	0.33		0.033	0.0056	mg/L	1		6010C	Total/NA
Lead	1.1		0.017	0.0090	mg/L	1		6010C	Total/NA
Selenium	0.046		0.033	0.018	mg/L	1		6010C	Total/NA
Silver	0.013	J	0.017	0.0049	mg/L	1		6010C	Total/NA
Mercury	1.3		0.20	0.098	ug/L	1		7470A	Total/NA

Client Sample ID: CRMS-SW-03-103117 — Lab Sample ID: 500-136532-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	40		5.0	1.7	ug/L	1		8260B	Total/NA
Chloroform	1.1	J	2.0	0.37	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	0.14	J	1.6	0.052	ug/L	1		8270D	Total/NA
Diethyl phthalate	0.41	J	4.0	0.29	ug/L	1		8270D	Total/NA
Barium	0.031		0.010	0.0012	mg/L	1		6010C	Total/NA
Cadmium	0.0012	J B	0.0020	0.00043	mg/L	1		6010C	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-136532-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: CRMS-SW-02-103117

Date Collected: 10/31/17 08:05
Date Received: 10/31/17 10:30

Lab Sample ID: 500-136532-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0	0.38	ug/L			11/08/17 18:14	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40	ug/L			11/08/17 18:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46	ug/L			11/08/17 18:14	1
1,1,2-Trichloroethane	<1.0		1.0	0.35	ug/L			11/08/17 18:14	1
1,1-Dichloroethane	<1.0		1.0	0.41	ug/L			11/08/17 18:14	1
1,1-Dichloroethene	<1.0		1.0	0.39	ug/L			11/08/17 18:14	1
1,2,4-Trichlorobenzene	<1.0		1.0	0.34	ug/L			11/08/17 18:14	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0	ug/L			11/08/17 18:14	1
1,2-Dibromoethane	<1.0		1.0	0.39	ug/L			11/08/17 18:14	1
1,2-Dichlorobenzene	<1.0		1.0	0.33	ug/L			11/08/17 18:14	1
1,2-Dichloroethane	<1.0		1.0	0.39	ug/L			11/08/17 18:14	1
1,2-Dichloropropane	<1.0		1.0	0.43	ug/L			11/08/17 18:14	1
1,3-Dichlorobenzene	<1.0		1.0	0.40	ug/L			11/08/17 18:14	1
1,4-Dichlorobenzene	<1.0		1.0	0.36	ug/L			11/08/17 18:14	1
2-Hexanone	<5.0		5.0	1.6	ug/L			11/08/17 18:14	1
Acetone	**39**		5.0	1.7	ug/L			11/08/17 18:14	1
Benzene	<0.50		0.50	0.15	ug/L			11/08/17 18:14	1
Bromodichloromethane	<1.0		1.0	0.37	ug/L			11/08/17 18:14	1
Bromoform	<1.0		1.0	0.48	ug/L			11/08/17 18:14	1
Bromomethane	<2.0		2.0	0.80	ug/L			11/08/17 18:14	1
Carbon disulfide	<2.0		2.0	0.45	ug/L			11/08/17 18:14	1
Carbon tetrachloride	<1.0		1.0	0.38	ug/L			11/08/17 18:14	1
Chlorobenzene	<1.0		1.0	0.39	ug/L			11/08/17 18:14	1
Chloroethane	<1.0		1.0	0.51	ug/L			11/08/17 18:14	1
Chloroform	**1.2**	**J**	2.0	0.37	ug/L			11/08/17 18:14	1
Chloromethane	<1.0		1.0	0.32	ug/L			11/08/17 18:14	1
cis-1,2-Dichloroethene	<1.0		1.0	0.41	ug/L			11/08/17 18:14	1
cis-1,3-Dichloropropene	<1.0		1.0	0.42	ug/L			11/08/17 18:14	1
Cyclohexane	<1.0		1.0	0.49	ug/L			11/08/17 18:14	1
Dibromochloromethane	<1.0		1.0	0.49	ug/L			11/08/17 18:14	1
Dichlorodifluoromethane	<2.0		2.0	0.67	ug/L			11/08/17 18:14	1
Ethylbenzene	<0.50		0.50	0.18	ug/L			11/08/17 18:14	1
Isopropylbenzene	<1.0		1.0	0.39	ug/L			11/08/17 18:14	1
Methyl acetate	**17**		5.0	2.0	ug/L			11/08/17 18:14	1
Methyl Ethyl Ketone	<5.0		5.0	2.1	ug/L			11/08/17 18:14	1
methyl isobutyl ketone	<5.0		5.0	2.2	ug/L			11/08/17 18:14	1
Methyl tert-butyl ether	<1.0		1.0	0.39	ug/L			11/08/17 18:14	1
Methylcyclohexane	<1.0		1.0	0.32	ug/L			11/08/17 18:14	1
Methylene Chloride	<5.0		5.0	1.6	ug/L			11/08/17 18:14	1
Styrene	<1.0		1.0	0.39	ug/L			11/08/17 18:14	1
Tetrachloroethene	<1.0		1.0	0.37	ug/L			11/08/17 18:14	1
Toluene	**1.9**		0.50	0.15	ug/L			11/08/17 18:14	1
trans-1,2-Dichloroethene	<1.0		1.0	0.35	ug/L			11/08/17 18:14	1
trans-1,3-Dichloropropene	<1.0		1.0	0.36	ug/L			11/08/17 18:14	1
Trichloroethene	<0.50		0.50	0.16	ug/L			11/08/17 18:14	1
Trichlorofluoromethane	<1.0		1.0	0.43	ug/L			11/08/17 18:14	1
Vinyl chloride	<0.50		0.50	0.20	ug/L			11/08/17 18:14	1
Xylenes, Total	<1.0		1.0	0.22	ug/L			11/08/17 18:14	1

Client Sample ID: CRMS-SW-02-103117 Lab Sample ID: 500-136532-1

Date Collected: 10/31/17 08:05 **Matrix: Water**
Date Received: 10/31/17 10:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*11/08/17 18:14*	*1*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*11/08/17 18:14*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*11/08/17 18:14*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*11/08/17 18:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<3200	^	3200	1200	ug/L		11/01/17 08:17	11/01/17 15:11	50
Phenol	<400		400	54	ug/L		11/01/17 08:17	11/01/17 15:11	50
Bis(2-chloroethyl)ether	<160		160	23	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Chlorophenol	<400		400	45	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Methylphenol	<160		160	24	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,2'-oxybis[1-chloropropane]	<160	*	160	30	ug/L		11/01/17 08:17	11/01/17 15:11	50
Acetophenone	<400		400	53	ug/L		11/01/17 08:17	11/01/17 15:11	50
N-Nitrosodi-n-propylamine	<40		40	12	ug/L		11/01/17 08:17	11/01/17 15:11	50
Hexachloroethane	<400		400	48	ug/L		11/01/17 08:17	11/01/17 15:11	50
Nitrobenzene	<80		80	36	ug/L		11/01/17 08:17	11/01/17 15:11	50
Isophorone	<160		160	30	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Nitrophenol	<800		800	200	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4-Dimethylphenol	<800		800	140	ug/L		11/01/17 08:17	11/01/17 15:11	50
Bis(2-chloroethoxy)methane	<160		160	23	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4-Dichlorophenol	<800		800	210	ug/L		11/01/17 08:17	11/01/17 15:11	50
Naphthalene	<80		80	25	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Chloroaniline	<800		800	160	ug/L		11/01/17 08:17	11/01/17 15:11	50
Hexachlorobutadiene	<400		400	41	ug/L		11/01/17 08:17	11/01/17 15:11	50
Caprolactam	<800		800	120	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Chloro-3-methylphenol	<800		800	180	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Methylnaphthalene	**7.2**	**J**	160	5.2	ug/L		11/01/17 08:17	11/01/17 15:11	50
Hexachlorocyclopentadiene	<1600		1600	510	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4,6-Trichlorophenol	<400		400	57	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4,5-Trichlorophenol	<800		800	210	ug/L		11/01/17 08:17	11/01/17 15:11	50
1,1'-Biphenyl	<400		400	29	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Chloronaphthalene	<160		160	19	ug/L		11/01/17 08:17	11/01/17 15:11	50
2-Nitroaniline	<400		400	100	ug/L		11/01/17 08:17	11/01/17 15:11	50
Dimethyl phthalate	<400		400	25	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,6-Dinitrotoluene	<80		80	5.9	ug/L		11/01/17 08:17	11/01/17 15:11	50
Acenaphthylene	<80		80	21	ug/L		11/01/17 08:17	11/01/17 15:11	50
3-Nitroaniline	<800		800	140	ug/L		11/01/17 08:17	11/01/17 15:11	50
Acenaphthene	<80		80	25	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4-Dinitrophenol	<1600		1600	690	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Nitrophenol	<1600		1600	590	ug/L		11/01/17 08:17	11/01/17 15:11	50
Dibenzofuran	<160		160	21	ug/L		11/01/17 08:17	11/01/17 15:11	50
2,4-Dinitrotoluene	<80		80	20	ug/L		11/01/17 08:17	11/01/17 15:11	50
Diethyl phthalate	<400		400	29	ug/L		11/01/17 08:17	11/01/17 15:11	50
Fluorene	<80		80	20	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Chlorophenyl phenyl ether	<400		400	51	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Nitroaniline	<800		800	130	ug/L		11/01/17 08:17	11/01/17 15:11	50
4,6-Dinitro-2-methylphenol	<1600		1600	470	ug/L		11/01/17 08:17	11/01/17 15:11	50
N-Nitrosodiphenylamine	<160		160	30	ug/L		11/01/17 08:17	11/01/17 15:11	50
4-Bromophenyl phenyl ether	<400		400	43	ug/L		11/01/17 08:17	11/01/17 15:11	50

Client Sample ID: CRMS-SW-02-103117 Lab Sample ID: 500-136532-1

Date Collected: 10/31/17 08:05 **Matrix: Water**
Date Received: 10/31/17 10:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<40		40	6.4	ug/L		11/01/17 08:17	11/01/17 15:11	50
Atrazine	<400		400	50	ug/L		11/01/17 08:17	11/01/17 15:11	50
Pentachlorophenol	<1600		1600	320	ug/L		11/01/17 08:17	11/01/17 15:11	50
Phenanthrene	<80		80	24	ug/L		11/01/17 08:17	11/01/17 15:11	50
Anthracene	<80		80	27	ug/L		11/01/17 08:17	11/01/17 15:11	50
Carbazole	<400		400	28	ug/L		11/01/17 08:17	11/01/17 15:11	50
Di-n-butyl phthalate	<400		400	58	ug/L		11/01/17 08:17	11/01/17 15:11	50
Fluoranthene	<80		80	36	ug/L		11/01/17 08:17	11/01/17 15:11	50
Pyrene	<80		80	34	ug/L		11/01/17 08:17	11/01/17 15:11	50
Butyl benzyl phthalate	<160		160	38	ug/L		11/01/17 08:17	11/01/17 15:11	50
3,3'-Dichlorobenzidine	<400		400	140	ug/L		11/01/17 08:17	11/01/17 15:11	50
Benzo[a]anthracene	<16		16	4.5	ug/L		11/01/17 08:17	11/01/17 15:11	50
Chrysene	<16		16	5.5	ug/L		11/01/17 08:17	11/01/17 15:11	50
Bis(2-ethylhexyl) phthalate	<800		800	140	ug/L		11/01/17 08:17	11/01/17 15:11	50
Di-n-octyl phthalate	<800		800	84	ug/L		11/01/17 08:17	11/01/17 15:11	50
Benzo[b]fluoranthene	<16		16	6.5	ug/L		11/01/17 08:17	11/01/17 15:11	50
Benzo[k]fluoranthene	<16		16	5.1	ug/L		11/01/17 08:17	11/01/17 15:11	50
Benzo[a]pyrene	<16		16	7.9	ug/L		11/01/17 08:17	11/01/17 15:11	50
Indeno[1,2,3-cd]pyrene	<16		16	6.0	ug/L		11/01/17 08:17	11/01/17 15:11	50
Dibenz(a,h)anthracene	<24		24	4.1	ug/L		11/01/17 08:17	11/01/17 15:11	50
Benzo[g,h,i]perylene	<80		80	30	ug/L		11/01/17 08:17	11/01/17 15:11	50
3 & 4 Methylphenol	<160		160	36	ug/L		11/01/17 08:17	11/01/17 15:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*0*	*D*	*27 - 110*	*11/01/17 08:17*	*11/01/17 15:11*	*50*
Phenol-d5 (Surr)	*0*	*D*	*20 - 100*	*11/01/17 08:17*	*11/01/17 15:11*	*50*
Nitrobenzene-d5 (Surr)	*0*	*D*	*36 - 120*	*11/01/17 08:17*	*11/01/17 15:11*	*50*
2-Fluorobiphenyl (Surr)	*0*	*D*	*34 - 110*	*11/01/17 08:17*	*11/01/17 15:11*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*D*	*40 - 145*	*11/01/17 08:17*	*11/01/17 15:11*	*50*
Terphenyl-d14 (Surr)	*0*	*D*	*40 - 145*	*11/01/17 08:17*	*11/01/17 15:11*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<4.0		4.0	0.67	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1221	<4.0		4.0	2.0	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1232	<4.0		4.0	2.0	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1242	<4.0		4.0	2.0	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1248	<4.0		4.0	2.0	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1254	<4.0		4.0	2.0	ug/L		11/01/17 10:02	11/07/17 20:00	10
PCB-1260	<4.0		4.0	0.70	ug/L		11/01/17 10:02	11/07/17 20:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*30 - 120*	*11/01/17 10:02*	*11/07/17 20:00*	*10*
DCB Decachlorobiphenyl	*111*		*30 - 140*	*11/01/17 10:02*	*11/07/17 20:00*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.048**		0.033	0.012	mg/L		10/31/17 16:02	11/02/17 12:03	1
Barium	**1.4**		0.033	0.0041	mg/L		10/31/17 16:02	11/01/17 18:19	1
Cadmium	**0.019**	**B**	0.0067	0.0014	mg/L		10/31/17 16:02	11/01/17 18:19	1

Client Sample ID: CRMS-SW-02-103117 **Lab Sample ID: 500-136532-1**
Date Collected: 10/31/17 08:05 **Matrix: Water**
Date Received: 10/31/17 10:30

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.33		0.033	0.0056	mg/L		10/31/17 16:02	11/01/17 18:19	1
Lead	1.1		0.017	0.0090	mg/L		10/31/17 16:02	11/01/17 18:19	1
Selenium	0.046		0.033	0.018	mg/L		10/31/17 16:02	11/01/17 18:19	1
Silver	0.013	J	0.017	0.0049	mg/L		10/31/17 16:02	11/01/17 18:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.3		0.20	0.098	ug/L		11/01/17 11:10	11/02/17 09:01	1

Client Sample ID: CRMS-SW-03-103117 Lab Sample ID: 500-136532-2

Date Collected: 10/31/17 08:25 **Matrix: Water**
Date Received: 10/31/17 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0	0.38	ug/L			11/08/17 18:39	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40	ug/L			11/08/17 18:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46	ug/L			11/08/17 18:39	1
1,1,2-Trichloroethane	<1.0		1.0	0.35	ug/L			11/08/17 18:39	1
1,1-Dichloroethane	<1.0		1.0	0.41	ug/L			11/08/17 18:39	1
1,1-Dichloroethene	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
1,2,4-Trichlorobenzene	<1.0		1.0	0.34	ug/L			11/08/17 18:39	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0	ug/L			11/08/17 18:39	1
1,2-Dibromoethane	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
1,2-Dichlorobenzene	<1.0		1.0	0.33	ug/L			11/08/17 18:39	1
1,2-Dichloroethane	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
1,2-Dichloropropane	<1.0		1.0	0.43	ug/L			11/08/17 18:39	1
1,3-Dichlorobenzene	<1.0		1.0	0.40	ug/L			11/08/17 18:39	1
1,4-Dichlorobenzene	<1.0		1.0	0.36	ug/L			11/08/17 18:39	1
2-Hexanone	<5.0		5.0	1.6	ug/L			11/08/17 18:39	1
Acetone	**40**		5.0	1.7	ug/L			11/08/17 18:39	1
Benzene	<0.50		0.50	0.15	ug/L			11/08/17 18:39	1
Bromodichloromethane	<1.0		1.0	0.37	ug/L			11/08/17 18:39	1
Bromoform	<1.0		1.0	0.48	ug/L			11/08/17 18:39	1
Bromomethane	<2.0		2.0	0.80	ug/L			11/08/17 18:39	1
Carbon disulfide	<2.0		2.0	0.45	ug/L			11/08/17 18:39	1
Carbon tetrachloride	<1.0		1.0	0.38	ug/L			11/08/17 18:39	1
Chlorobenzene	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
Chloroethane	<1.0		1.0	0.51	ug/L			11/08/17 18:39	1
Chloroform	**1.1**	**J**	2.0	0.37	ug/L			11/08/17 18:39	1
Chloromethane	<1.0		1.0	0.32	ug/L			11/08/17 18:39	1
cis-1,2-Dichloroethene	<1.0		1.0	0.41	ug/L			11/08/17 18:39	1
cis-1,3-Dichloropropene	<1.0		1.0	0.42	ug/L			11/08/17 18:39	1
Cyclohexane	<1.0		1.0	0.49	ug/L			11/08/17 18:39	1
Dibromochloromethane	<1.0		1.0	0.49	ug/L			11/08/17 18:39	1
Dichlorodifluoromethane	<2.0		2.0	0.67	ug/L			11/08/17 18:39	1
Ethylbenzene	<0.50		0.50	0.18	ug/L			11/08/17 18:39	1
Isopropylbenzene	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
Methyl acetate	<5.0		5.0	2.0	ug/L			11/08/17 18:39	1
Methyl Ethyl Ketone	<5.0		5.0	2.1	ug/L			11/08/17 18:39	1
methyl isobutyl ketone	<5.0		5.0	2.2	ug/L			11/08/17 18:39	1
Methyl tert-butyl ether	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
Methylcyclohexane	<1.0		1.0	0.32	ug/L			11/08/17 18:39	1
Methylene Chloride	<5.0		5.0	1.6	ug/L			11/08/17 18:39	1
Styrene	<1.0		1.0	0.39	ug/L			11/08/17 18:39	1
Tetrachloroethene	<1.0		1.0	0.37	ug/L			11/08/17 18:39	1
Toluene	<0.50		0.50	0.15	ug/L			11/08/17 18:39	1
trans-1,2-Dichloroethene	<1.0		1.0	0.35	ug/L			11/08/17 18:39	1
trans-1,3-Dichloropropene	<1.0		1.0	0.36	ug/L			11/08/17 18:39	1
Trichloroethene	<0.50		0.50	0.16	ug/L			11/08/17 18:39	1
Trichlorofluoromethane	<1.0		1.0	0.43	ug/L			11/08/17 18:39	1
Vinyl chloride	<0.50		0.50	0.20	ug/L			11/08/17 18:39	1
Xylenes, Total	<1.0		1.0	0.22	ug/L			11/08/17 18:39	1

Client Sample ID: CRMS-SW-03-103117 Lab Sample ID: 500-136532-2

Date Collected: 10/31/17 08:25 **Matrix: Water**
Date Received: 10/31/17 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*11/08/17 18:39*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*11/08/17 18:39*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*11/08/17 18:39*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*11/08/17 18:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<32	^	32	12	ug/L		11/01/17 08:17	11/01/17 14:45	1
Phenol	<4.0		4.0	0.54	ug/L		11/01/17 08:17	11/01/17 14:45	1
Bis(2-chloroethyl)ether	<1.6		1.6	0.23	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Chlorophenol	<4.0		4.0	0.45	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Methylphenol	<1.6		1.6	0.24	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,2'-oxybis[1-chloropropane]	<1.6	*	1.6	0.30	ug/L		11/01/17 08:17	11/01/17 14:45	1
Acetophenone	<4.0		4.0	0.53	ug/L		11/01/17 08:17	11/01/17 14:45	1
N-Nitrosodi-n-propylamine	<0.40		0.40	0.12	ug/L		11/01/17 08:17	11/01/17 14:45	1
Hexachloroethane	<4.0		4.0	0.48	ug/L		11/01/17 08:17	11/01/17 14:45	1
Nitrobenzene	<0.80		0.80	0.36	ug/L		11/01/17 08:17	11/01/17 14:45	1
Isophorone	<1.6		1.6	0.30	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Nitrophenol	<8.0		8.0	2.0	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4-Dimethylphenol	<8.0		8.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:45	1
Bis(2-chloroethoxy)methane	<1.6		1.6	0.23	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4-Dichlorophenol	<8.0		8.0	2.1	ug/L		11/01/17 08:17	11/01/17 14:45	1
Naphthalene	<0.80		0.80	0.25	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Chloroaniline	<8.0		8.0	1.6	ug/L		11/01/17 08:17	11/01/17 14:45	1
Hexachlorobutadiene	<4.0		4.0	0.41	ug/L		11/01/17 08:17	11/01/17 14:45	1
Caprolactam	<8.0		8.0	1.2	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Chloro-3-methylphenol	<8.0		8.0	1.8	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Methylnaphthalene	**0.14**	**J**	1.6	0.052	ug/L		11/01/17 08:17	11/01/17 14:45	1
Hexachlorocyclopentadiene	<16		16	5.1	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4,6-Trichlorophenol	<4.0		4.0	0.57	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4,5-Trichlorophenol	<8.0		8.0	2.1	ug/L		11/01/17 08:17	11/01/17 14:45	1
1,1'-Biphenyl	<4.0		4.0	0.29	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Chloronaphthalene	<1.6		1.6	0.19	ug/L		11/01/17 08:17	11/01/17 14:45	1
2-Nitroaniline	<4.0		4.0	1.0	ug/L		11/01/17 08:17	11/01/17 14:45	1
Dimethyl phthalate	<4.0		4.0	0.25	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,6-Dinitrotoluene	<0.80		0.80	0.059	ug/L		11/01/17 08:17	11/01/17 14:45	1
Acenaphthylene	<0.80		0.80	0.21	ug/L		11/01/17 08:17	11/01/17 14:45	1
3-Nitroaniline	<8.0		8.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:45	1
Acenaphthene	<0.80		0.80	0.25	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4-Dinitrophenol	<16		16	6.9	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Nitrophenol	<16		16	5.9	ug/L		11/01/17 08:17	11/01/17 14:45	1
Dibenzofuran	<1.6		1.6	0.21	ug/L		11/01/17 08:17	11/01/17 14:45	1
2,4-Dinitrotoluene	<0.80		0.80	0.20	ug/L		11/01/17 08:17	11/01/17 14:45	1
Diethyl phthalate	**0.41**	**J**	4.0	0.29	ug/L		11/01/17 08:17	11/01/17 14:45	1
Fluorene	<0.80		0.80	0.20	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Chlorophenyl phenyl ether	<4.0		4.0	0.51	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Nitroaniline	<8.0		8.0	1.3	ug/L		11/01/17 08:17	11/01/17 14:45	1
4,6-Dinitro-2-methylphenol	<16		16	4.7	ug/L		11/01/17 08:17	11/01/17 14:45	1
N-Nitrosodiphenylamine	<1.6		1.6	0.30	ug/L		11/01/17 08:17	11/01/17 14:45	1
4-Bromophenyl phenyl ether	<4.0		4.0	0.43	ug/L		11/01/17 08:17	11/01/17 14:45	1

Client Sample ID: CRMS-SW-03-103117 Lab Sample ID: 500-136532-2

Date Collected: 10/31/17 08:25 **Matrix: Water**
Date Received: 10/31/17 10:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<0.40		0.40	0.064	ug/L		11/01/17 08:17	11/01/17 14:45	1
Atrazine	<4.0		4.0	0.50	ug/L		11/01/17 08:17	11/01/17 14:45	1
Pentachlorophenol	<16		16	3.2	ug/L		11/01/17 08:17	11/01/17 14:45	1
Phenanthrene	<0.80		0.80	0.24	ug/L		11/01/17 08:17	11/01/17 14:45	1
Anthracene	<0.80		0.80	0.27	ug/L		11/01/17 08:17	11/01/17 14:45	1
Carbazole	<4.0		4.0	0.28	ug/L		11/01/17 08:17	11/01/17 14:45	1
Di-n-butyl phthalate	<4.0		4.0	0.58	ug/L		11/01/17 08:17	11/01/17 14:45	1
Fluoranthene	<0.80		0.80	0.36	ug/L		11/01/17 08:17	11/01/17 14:45	1
Pyrene	<0.80		0.80	0.34	ug/L		11/01/17 08:17	11/01/17 14:45	1
Butyl benzyl phthalate	<1.6		1.6	0.38	ug/L		11/01/17 08:17	11/01/17 14:45	1
3,3'-Dichlorobenzidine	<4.0		4.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:45	1
Benzo[a]anthracene	<0.16		0.16	0.045	ug/L		11/01/17 08:17	11/01/17 14:45	1
Chrysene	<0.16		0.16	0.055	ug/L		11/01/17 08:17	11/01/17 14:45	1
Bis(2-ethylhexyl) phthalate	<8.0		8.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:45	1
Di-n-octyl phthalate	<8.0		8.0	0.84	ug/L		11/01/17 08:17	11/01/17 14:45	1
Benzo[b]fluoranthene	<0.16		0.16	0.065	ug/L		11/01/17 08:17	11/01/17 14:45	1
Benzo[k]fluoranthene	<0.16		0.16	0.051	ug/L		11/01/17 08:17	11/01/17 14:45	1
Benzo[a]pyrene	<0.16		0.16	0.079	ug/L		11/01/17 08:17	11/01/17 14:45	1
Indeno[1,2,3-cd]pyrene	<0.16		0.16	0.060	ug/L		11/01/17 08:17	11/01/17 14:45	1
Dibenz(a,h)anthracene	<0.24		0.24	0.041	ug/L		11/01/17 08:17	11/01/17 14:45	1
Benzo[g,h,i]perylene	<0.80		0.80	0.30	ug/L		11/01/17 08:17	11/01/17 14:45	1
3 & 4 Methylphenol	<1.6		1.6	0.36	ug/L		11/01/17 08:17	11/01/17 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*50*		*27 - 110*	*11/01/17 08:17*	*11/01/17 14:45*	*1*
Phenol-d5 (Surr)	*36*		*20 - 100*	*11/01/17 08:17*	*11/01/17 14:45*	*1*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*11/01/17 08:17*	*11/01/17 14:45*	*1*
2-Fluorobiphenyl (Surr)	*65*		*34 - 110*	*11/01/17 08:17*	*11/01/17 14:45*	*1*
2,4,6-Tribromophenol (Surr)	*122*		*40 - 145*	*11/01/17 08:17*	*11/01/17 14:45*	*1*
Terphenyl-d14 (Surr)	*104*		*40 - 145*	*11/01/17 08:17*	*11/01/17 14:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.40		0.40	0.067	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1221	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1232	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1242	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1248	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1254	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 20:16	1
PCB-1260	<0.40		0.40	0.070	ug/L		11/01/17 10:02	11/07/17 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*30 - 120*	*11/01/17 10:02*	*11/07/17 20:16*	*1*
DCB Decachlorobiphenyl	*59*		*30 - 140*	*11/01/17 10:02*	*11/07/17 20:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010	^	0.010	0.0037	mg/L		10/31/17 16:02	11/01/17 18:27	1
Barium	**0.031**		0.010	0.0012	mg/L		10/31/17 16:02	11/01/17 18:27	1
Cadmium	**0.0012**	**J B**	0.0020	0.00043	mg/L		10/31/17 16:02	11/01/17 18:27	1

Client Sample ID: CRMS-SW-03-103117 **Lab Sample ID: 500-136532-2**
Date Collected: 10/31/17 08:25 **Matrix: Water**
Date Received: 10/31/17 10:30

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.010	0.0017	mg/L		10/31/17 16:02	11/01/17 18:27	1
Lead	<0.0050		0.0050	0.0027	mg/L		10/31/17 16:02	11/01/17 18:27	1
Selenium	<0.010		0.010	0.0053	mg/L		10/31/17 16:02	11/01/17 18:27	1
Silver	<0.0050		0.0050	0.0015	mg/L		10/31/17 16:02	11/01/17 18:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.098	ug/L		11/01/17 11:10	11/02/17 09:02	1

Client Sample ID: Trip Blank

Date Collected: 10/31/17 00:00
Date Received: 10/31/17 10:30

Lab Sample ID: 500-136532-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0	0.38	ug/L			11/08/17 19:04	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40	ug/L			11/08/17 19:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46	ug/L			11/08/17 19:04	1
1,1,2-Trichloroethane	<1.0		1.0	0.35	ug/L			11/08/17 19:04	1
1,1-Dichloroethane	<1.0		1.0	0.41	ug/L			11/08/17 19:04	1
1,1-Dichloroethene	<1.0		1.0	0.39	ug/L			11/08/17 19:04	1
1,2,4-Trichlorobenzene	<1.0		1.0	0.34	ug/L			11/08/17 19:04	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0	ug/L			11/08/17 19:04	1
1,2-Dibromoethane	<1.0		1.0	0.39	ug/L			11/08/17 19:04	1
1,2-Dichlorobenzene	<1.0		1.0	0.33	ug/L			11/08/17 19:04	1
1,2-Dichloroethane	<1.0		1.0	0.39	ug/L			11/08/17 19:04	1
1,2-Dichloropropane	<1.0		1.0	0.43	ug/L			11/08/17 19:04	1
1,3-Dichlorobenzene	<1.0		1.0	0.40	ug/L			11/08/17 19:04	1
1,4-Dichlorobenzene	<1.0		1.0	0.36	ug/L			11/08/17 19:04	1
2-Hexanone	<5.0		5.0	1.6	ug/L			11/08/17 19:04	1
Acetone	<5.0		5.0	1.7	ug/L			11/08/17 19:04	1
Benzene	<0.50		0.50	0.15	ug/L			11/08/17 19:04	1
Bromodichloromethane	<1.0		1.0	0.37	ug/L			11/08/17 19:04	1
Bromoform	<1.0		1.0	0.48	ug/L			11/08/17 19:04	1
Bromomethane	<2.0		2.0	0.80	ug/L			11/08/17 19:04	1
Carbon disulfide	<2.0		2.0	0.45	ug/L			11/08/17 19:04	1
Carbon tetrachloride	<1.0		1.0	0.38	ug/L			11/08/17 19:04	1
Chlorobenzene	<1.0		1.0	0.39	ug/L			11/08/17 19:04	1
Chloroethane	<1.0		1.0	0.51	ug/L			11/08/17 19:04	1
Chloroform	<2.0		2.0	0.37	ug/L			11/08/17 19:04	1
Chloromethane	<1.0		1.0	0.32	ug/L			11/08/17 19:04	1
cis-1,2-Dichloroethene	<1.0		1.0	0.41	ug/L			11/08/17 19:04	1
cis-1,3-Dichloropropene	<1.0		1.0	0.42	ug/L			11/08/17 19:04	1
Cyclohexane	<1.0		1.0	0.49	ug/L			11/08/17 19:04	1
Dibromochloromethane	<1.0		1.0	0.49	ug/L			11/08/17 19:04	1
Dichlorodifluoromethane	<2.0		2.0	0.67	ug/L			11/08/17 19:04	1
Ethylbenzene	<0.50		0.50	0.18	ug/L			11/08/17 19:04	1
Isopropylbenzene	<1.0		1.0	0.39	ug/L			11/08/17 19:04	1
Methyl acetate	<5.0		5.0	2.0	ug/L			11/08/17 19:04	1
Methyl Ethyl Ketone	<5.0		5.0	2.1	ug/L			11/08/17 19:04	1
methyl isobutyl ketone	<5.0		5.0	2.2	ug/L			11/08/17 19:04	1
Methyl tert-butyl ether	<1.0		1.0	0.39	ug/L			11/08/17 19:04	1
Methylcyclohexane	<1.0		1.0	0.32	ug/L			11/08/17 19:04	1
Methylene Chloride	<5.0		5.0	1.6	ug/L			11/08/17 19:04	1
Styrene	<1.0		1.0	0.39	ug/L			11/08/17 19:04	1
Tetrachloroethene	<1.0		1.0	0.37	ug/L			11/08/17 19:04	1
Toluene	<0.50		0.50	0.15	ug/L			11/08/17 19:04	1
trans-1,2-Dichloroethene	<1.0		1.0	0.35	ug/L			11/08/17 19:04	1
trans-1,3-Dichloropropene	<1.0		1.0	0.36	ug/L			11/08/17 19:04	1
Trichloroethene	<0.50		0.50	0.16	ug/L			11/08/17 19:04	1
Trichlorofluoromethane	<1.0		1.0	0.43	ug/L			11/08/17 19:04	1
Vinyl chloride	<0.50		0.50	0.20	ug/L			11/08/17 19:04	1
Xylenes, Total	<1.0		1.0	0.22	ug/L			11/08/17 19:04	1

Client Sample ID: Trip Blank — Lab Sample ID: 500-136532-3

Date Collected: 10/31/17 00:00 — **Matrix: Water**
Date Received: 10/31/17 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 126		11/08/17 19:04	1
4-Bromofluorobenzene (Surr)	95		72 - 124		11/08/17 19:04	1
Dibromofluoromethane	90		75 - 120		11/08/17 19:04	1
Toluene-d8 (Surr)	90		75 - 120		11/08/17 19:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	1.0	0.38	ug/L	8260B
1,1,2,2-Tetrachloroethane	1.0	0.40	ug/L	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.46	ug/L	8260B
1,1,2-Trichloroethane	1.0	0.35	ug/L	8260B
1,1-Dichloroethane	1.0	0.41	ug/L	8260B
1,1-Dichloroethene	1.0	0.39	ug/L	8260B
1,2,4-Trichlorobenzene	1.0	0.34	ug/L	8260B
1,2-Dibromo-3-Chloropropane	5.0	2.0	ug/L	8260B
1,2-Dibromoethane	1.0	0.39	ug/L	8260B
1,2-Dichlorobenzene	1.0	0.33	ug/L	8260B
1,2-Dichloroethane	1.0	0.39	ug/L	8260B
1,2-Dichloropropane	1.0	0.43	ug/L	8260B
1,3-Dichlorobenzene	1.0	0.40	ug/L	8260B
1,4-Dichlorobenzene	1.0	0.36	ug/L	8260B
2-Hexanone	5.0	1.6	ug/L	8260B
Acetone	5.0	1.7	ug/L	8260B
Benzene	0.50	0.15	ug/L	8260B
Bromodichloromethane	1.0	0.37	ug/L	8260B
Bromoform	1.0	0.48	ug/L	8260B
Bromomethane	2.0	0.80	ug/L	8260B
Carbon disulfide	2.0	0.45	ug/L	8260B
Carbon tetrachloride	1.0	0.38	ug/L	8260B
Chlorobenzene	1.0	0.39	ug/L	8260B
Chloroethane	1.0	0.51	ug/L	8260B
Chloroform	2.0	0.37	ug/L	8260B
Chloromethane	1.0	0.32	ug/L	8260B
cis-1,2-Dichloroethene	1.0	0.41	ug/L	8260B
cis-1,3-Dichloropropene	1.0	0.42	ug/L	8260B
Cyclohexane	1.0	0.49	ug/L	8260B
Dibromochloromethane	1.0	0.49	ug/L	8260B
Dichlorodifluoromethane	2.0	0.67	ug/L	8260B
Ethylbenzene	0.50	0.18	ug/L	8260B
Isopropylbenzene	1.0	0.39	ug/L	8260B
Methyl acetate	5.0	2.0	ug/L	8260B
Methyl Ethyl Ketone	5.0	2.1	ug/L	8260B
methyl isobutyl ketone	5.0	2.2	ug/L	8260B
Methyl tert-butyl ether	1.0	0.39	ug/L	8260B
Methylcyclohexane	1.0	0.32	ug/L	8260B
Methylene Chloride	5.0	1.6	ug/L	8260B
Styrene	1.0	0.39	ug/L	8260B
Tetrachloroethene	1.0	0.37	ug/L	8260B
Toluene	0.50	0.15	ug/L	8260B
trans-1,2-Dichloroethene	1.0	0.35	ug/L	8260B
trans-1,3-Dichloropropene	1.0	0.36	ug/L	8260B
Trichloroethene	0.50	0.16	ug/L	8260B
Trichlorofluoromethane	1.0	0.43	ug/L	8260B
Vinyl chloride	0.50	0.20	ug/L	8260B
Xylenes, Total	1.0	0.22	ug/L	8260B

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Prep: 3510C

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Prep: 3510C

Analyte	RL	MDL	Units	Method
1,1'-Biphenyl	4.0	0.29	ug/L	8270D
2,2'-oxybis[1-chloropropane]	1.6	0.30	ug/L	8270D
2,4,5-Trichlorophenol	8.0	2.1	ug/L	8270D
2,4,6-Trichlorophenol	4.0	0.57	ug/L	8270D
2,4-Dichlorophenol	8.0	2.1	ug/L	8270D
2,4-Dimethylphenol	8.0	1.4	ug/L	8270D
2,4-Dinitrophenol	16	6.9	ug/L	8270D
2,4-Dinitrotoluene	0.80	0.20	ug/L	8270D
2,6-Dinitrotoluene	0.80	0.059	ug/L	8270D
2-Chloronaphthalene	1.6	0.19	ug/L	8270D
2-Chlorophenol	4.0	0.45	ug/L	8270D
2-Methylnaphthalene	1.6	0.052	ug/L	8270D
2-Methylphenol	1.6	0.24	ug/L	8270D
2-Nitroaniline	4.0	1.0	ug/L	8270D
2-Nitrophenol	8.0	2.0	ug/L	8270D
3 & 4 Methylphenol	1.6	0.36	ug/L	8270D
3,3'-Dichlorobenzidine	4.0	1.4	ug/L	8270D
3-Nitroaniline	8.0	1.4	ug/L	8270D
4,6-Dinitro-2-methylphenol	16	4.7	ug/L	8270D
4-Bromophenyl phenyl ether	4.0	0.43	ug/L	8270D
4-Chloro-3-methylphenol	8.0	1.8	ug/L	8270D
4-Chloroaniline	8.0	1.6	ug/L	8270D
4-Chlorophenyl phenyl ether	4.0	0.51	ug/L	8270D
4-Nitroaniline	8.0	1.3	ug/L	8270D
4-Nitrophenol	16	5.9	ug/L	8270D
Acenaphthene	0.80	0.25	ug/L	8270D
Acenaphthylene	0.80	0.21	ug/L	8270D
Acetophenone	4.0	0.53	ug/L	8270D
Anthracene	0.80	0.27	ug/L	8270D
Atrazine	4.0	0.50	ug/L	8270D
Benzaldehyde	32	12	ug/L	8270D
Benzo[a]anthracene	0.16	0.045	ug/L	8270D
Benzo[a]pyrene	0.16	0.079	ug/L	8270D
Benzo[b]fluoranthene	0.16	0.065	ug/L	8270D
Benzo[g,h,i]perylene	0.80	0.30	ug/L	8270D
Benzo[k]fluoranthene	0.16	0.051	ug/L	8270D
Bis(2-chloroethoxy)methane	1.6	0.23	ug/L	8270D
Bis(2-chloroethyl)ether	1.6	0.23	ug/L	8270D
Bis(2-ethylhexyl) phthalate	8.0	1.4	ug/L	8270D
Butyl benzyl phthalate	1.6	0.38	ug/L	8270D
Caprolactam	8.0	1.2	ug/L	8270D
Carbazole	4.0	0.28	ug/L	8270D
Chrysene	0.16	0.055	ug/L	8270D
Dibenz(a,h)anthracene	0.24	0.041	ug/L	8270D
Dibenzofuran	1.6	0.21	ug/L	8270D
Diethyl phthalate	4.0	0.29	ug/L	8270D
Dimethyl phthalate	4.0	0.25	ug/L	8270D
Di-n-butyl phthalate	4.0	0.58	ug/L	8270D
Di-n-octyl phthalate	8.0	0.84	ug/L	8270D
Fluoranthene	0.80	0.36	ug/L	8270D
Fluorene	0.80	0.20	ug/L	8270D

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Prep: 3510C

Analyte	RL	MDL	Units	Method
Hexachlorobenzene	0.40	0.064	ug/L	8270D
Hexachlorobutadiene	4.0	0.41	ug/L	8270D
Hexachlorocyclopentadiene	16	5.1	ug/L	8270D
Hexachloroethane	4.0	0.48	ug/L	8270D
Indeno[1,2,3-cd]pyrene	0.16	0.060	ug/L	8270D
Isophorone	1.6	0.30	ug/L	8270D
Naphthalene	0.80	0.25	ug/L	8270D
Nitrobenzene	0.80	0.36	ug/L	8270D
N-Nitrosodi-n-propylamine	0.40	0.12	ug/L	8270D
N-Nitrosodiphenylamine	1.6	0.30	ug/L	8270D
Pentachlorophenol	16	3.2	ug/L	8270D
Phenanthrene	0.80	0.24	ug/L	8270D
Phenol	4.0	0.54	ug/L	8270D
Pyrene	0.80	0.34	ug/L	8270D

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Prep: 3510C

Analyte	RL	MDL	Units	Method
PCB-1016	0.40	0.067	ug/L	8082A
PCB-1221	0.40	0.20	ug/L	8082A
PCB-1232	0.40	0.20	ug/L	8082A
PCB-1242	0.40	0.20	ug/L	8082A
PCB-1248	0.40	0.20	ug/L	8082A
PCB-1254	0.40	0.20	ug/L	8082A
PCB-1260	0.40	0.070	ug/L	8082A

Method: 6010C - Metals (ICP)

Prep: 3010A

Analyte	RL	MDL	Units	Method
Arsenic	0.010	0.0037	mg/L	6010C
Barium	0.010	0.0012	mg/L	6010C
Cadmium	0.0020	0.00043	mg/L	6010C
Chromium	0.010	0.0017	mg/L	6010C
Lead	0.0050	0.0027	mg/L	6010C
Selenium	0.010	0.0053	mg/L	6010C
Silver	0.0050	0.0015	mg/L	6010C

Method: 7470A - Mercury (CVAA)

Prep: 7470A

Analyte	RL	MDL	Units	Method
Mercury	0.20	0.098	ug/L	7470A

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136532-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-136532-1	CRMS-SW-02-103117	90	92	91	90
500-136532-2	CRMS-SW-03-103117	90	93	93	88
500-136532-3	Trip Blank	87	95	90	90
LCS 500-408934/36	Lab Control Sample	82	85	91	91
MB 500-408934/6	Method Blank	88	97	91	87

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPH
Lab Sample ID	Client Sample ID	(27-110)	(20-100)	(36-120)	(34-110)	(40-145)	(40-145)
500-136532-1	CRMS-SW-02-103117	0 D	0 D	0 D	0 D	0 D	0 D
500-136532-2	CRMS-SW-03-103117	50	36	68	65	122	104
LCS 500-407898/2-A	Lab Control Sample	64	44	84	80	143	108
LCSD 500-407898/3-A	Lab Control Sample Dup	76	54	95	91	152 X	114
MB 500-407898/1-A	Method Blank	64	41	94	85	134	119

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(30-120)	(30-140)
500-136532-1	CRMS-SW-02-103117	49	111
500-136532-2	CRMS-SW-03-103117	95	59
LCS 500-407914/4-A	Lab Control Sample	83	45
LCSD 500-407914/5-A	Lab Control Sample Dup	85	54
MB 500-407914/1-A	Method Blank	91	51

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-408934/6
Matrix: Water
Analysis Batch: 408934

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0	0.38	ug/L			11/08/17 11:06	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40	ug/L			11/08/17 11:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46	ug/L			11/08/17 11:06	1
1,1,2-Trichloroethane	<1.0		1.0	0.35	ug/L			11/08/17 11:06	1
1,1-Dichloroethane	<1.0		1.0	0.41	ug/L			11/08/17 11:06	1
1,1-Dichloroethene	<1.0		1.0	0.39	ug/L			11/08/17 11:06	1
1,2,4-Trichlorobenzene	<1.0		1.0	0.34	ug/L			11/08/17 11:06	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0	ug/L			11/08/17 11:06	1
1,2-Dibromoethane	<1.0		1.0	0.39	ug/L			11/08/17 11:06	1
1,2-Dichlorobenzene	<1.0		1.0	0.33	ug/L			11/08/17 11:06	1
1,2-Dichloroethane	<1.0		1.0	0.39	ug/L			11/08/17 11:06	1
1,2-Dichloropropane	<1.0		1.0	0.43	ug/L			11/08/17 11:06	1
1,3-Dichlorobenzene	<1.0		1.0	0.40	ug/L			11/08/17 11:06	1
1,4-Dichlorobenzene	<1.0		1.0	0.36	ug/L			11/08/17 11:06	1
2-Hexanone	<5.0		5.0	1.6	ug/L			11/08/17 11:06	1
Acetone	<5.0		5.0	1.7	ug/L			11/08/17 11:06	1
Benzene	<0.50		0.50	0.15	ug/L			11/08/17 11:06	1
Bromodichloromethane	<1.0		1.0	0.37	ug/L			11/08/17 11:06	1
Bromoform	<1.0		1.0	0.48	ug/L			11/08/17 11:06	1
Bromomethane	<2.0		2.0	0.80	ug/L			11/08/17 11:06	1
Carbon disulfide	<2.0		2.0	0.45	ug/L			11/08/17 11:06	1
Carbon tetrachloride	<1.0		1.0	0.38	ug/L			11/08/17 11:06	1
Chlorobenzene	<1.0		1.0	0.39	ug/L			11/08/17 11:06	1
Chloroethane	<1.0		1.0	0.51	ug/L			11/08/17 11:06	1
Chloroform	<2.0		2.0	0.37	ug/L			11/08/17 11:06	1
Chloromethane	<1.0		1.0	0.32	ug/L			11/08/17 11:06	1
cis-1,2-Dichloroethene	<1.0		1.0	0.41	ug/L			11/08/17 11:06	1
cis-1,3-Dichloropropene	<1.0		1.0	0.42	ug/L			11/08/17 11:06	1
Cyclohexane	<1.0		1.0	0.49	ug/L			11/08/17 11:06	1
Dibromochloromethane	<1.0		1.0	0.49	ug/L			11/08/17 11:06	1
Dichlorodifluoromethane	<2.0		2.0	0.67	ug/L			11/08/17 11:06	1
Ethylbenzene	<0.50		0.50	0.18	ug/L			11/08/17 11:06	1
Isopropylbenzene	<1.0		1.0	0.39	ug/L			11/08/17 11:06	1
Methyl acetate	<5.0		5.0	2.0	ug/L			11/08/17 11:06	1
Methyl Ethyl Ketone	<5.0		5.0	2.1	ug/L			11/08/17 11:06	1
methyl isobutyl ketone	<5.0		5.0	2.2	ug/L			11/08/17 11:06	1
Methyl tert-butyl ether	<1.0		1.0	0.39	ug/L			11/08/17 11:06	1
Methylcyclohexane	<1.0		1.0	0.32	ug/L			11/08/17 11:06	1
Methylene Chloride	<5.0		5.0	1.6	ug/L			11/08/17 11:06	1
Styrene	<1.0		1.0	0.39	ug/L			11/08/17 11:06	1
Tetrachloroethene	<1.0		1.0	0.37	ug/L			11/08/17 11:06	1
Toluene	<0.50		0.50	0.15	ug/L			11/08/17 11:06	1
trans-1,2-Dichloroethene	<1.0		1.0	0.35	ug/L			11/08/17 11:06	1
trans-1,3-Dichloropropene	<1.0		1.0	0.36	ug/L			11/08/17 11:06	1
Trichloroethene	<0.50		0.50	0.16	ug/L			11/08/17 11:06	1
Trichlorofluoromethane	<1.0		1.0	0.43	ug/L			11/08/17 11:06	1
Vinyl chloride	<0.50		0.50	0.20	ug/L			11/08/17 11:06	1
Xylenes, Total	<1.0		1.0	0.22	ug/L			11/08/17 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*88*		*75 - 126*		*11/08/17 11:06*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*11/08/17 11:06*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*11/08/17 11:06*	*1*
Toluene-d8 (Surr)	*87*		*75 - 120*		*11/08/17 11:06*	*1*

Lab Sample ID: LCS 500-408934/36 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 408934

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	43.1		ug/L		86	70 - 125
1,1,2,2-Tetrachloroethane	50.0	37.7		ug/L		75	67 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.2		ug/L		96	70 - 123
1,1,2-Trichloroethane	50.0	37.7		ug/L		75	70 - 122
1,1-Dichloroethane	50.0	42.3		ug/L		85	70 - 125
1,1-Dichloroethene	50.0	44.5		ug/L		89	67 - 122
1,2,4-Trichlorobenzene	50.0	37.8		ug/L		76	66 - 127
1,2-Dibromo-3-Chloropropane	50.0	30.2		ug/L		60	56 - 123
1,2-Dibromoethane	50.0	36.1		ug/L		72	70 - 125
1,2-Dichlorobenzene	50.0	38.8		ug/L		78	70 - 125
1,2-Dichloroethane	50.0	38.4		ug/L		77	68 - 127
1,2-Dichloropropane	50.0	41.5		ug/L		83	67 - 130
1,3-Dichlorobenzene	50.0	39.8		ug/L		80	70 - 125
1,4-Dichlorobenzene	50.0	40.3		ug/L		81	70 - 120
2-Hexanone	50.0	40.1		ug/L		80	56 - 135
Acetone	50.0	52.3		ug/L		105	40 - 143
Benzene	50.0	44.7		ug/L		89	70 - 120
Bromodichloromethane	50.0	40.7		ug/L		81	69 - 120
Bromoform	50.0	35.6		ug/L		71	56 - 132
Bromomethane	50.0	62.7		ug/L		125	40 - 130
Carbon disulfide	50.0	42.7		ug/L		85	66 - 120
Carbon tetrachloride	50.0	44.6		ug/L		89	65 - 122
Chlorobenzene	50.0	42.2		ug/L		84	70 - 120
Chloroethane	50.0	58.0		ug/L		116	45 - 127
Chloroform	50.0	40.9		ug/L		82	70 - 120
Chloromethane	50.0	51.6		ug/L		103	54 - 147
cis-1,2-Dichloroethene	50.0	42.7		ug/L		85	70 - 125
cis-1,3-Dichloropropene	50.0	37.2		ug/L		74	64 - 127
Cyclohexane	50.0	47.3		ug/L		95	69 - 142
Dibromochloromethane	50.0	36.6		ug/L		73	68 - 125
Dichlorodifluoromethane	50.0	48.6		ug/L		97	40 - 150
Ethylbenzene	50.0	42.0		ug/L		84	70 - 120
Isopropylbenzene	50.0	40.7		ug/L		81	70 - 126
Methyl acetate	100	84.0		ug/L		84	56 - 150
Methyl Ethyl Ketone	50.0	41.5		ug/L		83	53 - 141
methyl isobutyl ketone	50.0	40.1		ug/L		80	56 - 133
Methyl tert-butyl ether	50.0	39.9		ug/L		80	70 - 120
Methylcyclohexane	50.0	45.6		ug/L		91	70 - 120
Methylene Chloride	50.0	47.5		ug/L		95	69 - 125
Styrene	50.0	42.2		ug/L		84	70 - 120
Tetrachloroethene	50.0	44.2		ug/L		88	70 - 128
Toluene	50.0	43.0		ug/L		86	70 - 125
trans-1,2-Dichloroethene	50.0	44.5		ug/L		89	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-408934/36
Matrix: Water
Analysis Batch: 408934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	35.9		ug/L		72	62 - 128
Trichloroethene	50.0	44.8		ug/L		90	70 - 125
Trichlorofluoromethane	50.0	47.2		ug/L		94	70 - 126
Vinyl chloride	50.0	48.7		ug/L		97	64 - 126
Xylenes, Total	100	86.0		ug/L		86	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*75 - 126*
4-Bromofluorobenzene (Surr)	*85*		*72 - 124*
Dibromofluoromethane	*91*		*75 - 120*
Toluene-d8 (Surr)	*91*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-407898/1-A
Matrix: Water
Analysis Batch: 407918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<32	^	32	12	ug/L		11/01/17 08:17	11/01/17 14:18	1
Phenol	<4.0		4.0	0.54	ug/L		11/01/17 08:17	11/01/17 14:18	1
Bis(2-chloroethyl)ether	<1.6		1.6	0.23	ug/L		11/01/17 08:17	11/01/17 14:18	1
2-Chlorophenol	<4.0		4.0	0.45	ug/L		11/01/17 08:17	11/01/17 14:18	1
2-Methylphenol	<1.6		1.6	0.24	ug/L		11/01/17 08:17	11/01/17 14:18	1
2,2'-oxybis[1-chloropropane]	<1.6		1.6	0.30	ug/L		11/01/17 08:17	11/01/17 14:18	1
Acetophenone	<4.0		4.0	0.53	ug/L		11/01/17 08:17	11/01/17 14:18	1
N-Nitrosodi-n-propylamine	<0.40		0.40	0.12	ug/L		11/01/17 08:17	11/01/17 14:18	1
Hexachloroethane	<4.0		4.0	0.48	ug/L		11/01/17 08:17	11/01/17 14:18	1
Nitrobenzene	<0.80		0.80	0.36	ug/L		11/01/17 08:17	11/01/17 14:18	1
Isophorone	<1.6		1.6	0.30	ug/L		11/01/17 08:17	11/01/17 14:18	1
2-Nitrophenol	<8.0		8.0	2.0	ug/L		11/01/17 08:17	11/01/17 14:18	1
2,4-Dimethylphenol	<8.0		8.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:18	1
Bis(2-chloroethoxy)methane	<1.6		1.6	0.23	ug/L		11/01/17 08:17	11/01/17 14:18	1
2,4-Dichlorophenol	<8.0		8.0	2.1	ug/L		11/01/17 08:17	11/01/17 14:18	1
Naphthalene	<0.80		0.80	0.25	ug/L		11/01/17 08:17	11/01/17 14:18	1
4-Chloroaniline	<8.0		8.0	1.6	ug/L		11/01/17 08:17	11/01/17 14:18	1
Hexachlorobutadiene	<4.0		4.0	0.41	ug/L		11/01/17 08:17	11/01/17 14:18	1
Caprolactam	<8.0		8.0	1.2	ug/L		11/01/17 08:17	11/01/17 14:18	1
4-Chloro-3-methylphenol	<8.0		8.0	1.8	ug/L		11/01/17 08:17	11/01/17 14:18	1
2-Methylnaphthalene	<1.6		1.6	0.052	ug/L		11/01/17 08:17	11/01/17 14:18	1
Hexachlorocyclopentadiene	<16		16	5.1	ug/L		11/01/17 08:17	11/01/17 14:18	1
2,4,6-Trichlorophenol	<4.0		4.0	0.57	ug/L		11/01/17 08:17	11/01/17 14:18	1
2,4,5-Trichlorophenol	<8.0		8.0	2.1	ug/L		11/01/17 08:17	11/01/17 14:18	1
1,1'-Biphenyl	<4.0		4.0	0.29	ug/L		11/01/17 08:17	11/01/17 14:18	1
2-Chloronaphthalene	<1.6		1.6	0.19	ug/L		11/01/17 08:17	11/01/17 14:18	1
2-Nitroaniline	<4.0		4.0	1.0	ug/L		11/01/17 08:17	11/01/17 14:18	1
Dimethyl phthalate	<4.0		4.0	0.25	ug/L		11/01/17 08:17	11/01/17 14:18	1
2,6-Dinitrotoluene	<0.80		0.80	0.059	ug/L		11/01/17 08:17	11/01/17 14:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-407898/1-A
Matrix: Water
Analysis Batch: 407918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<0.80		0.80	0.21	ug/L		11/01/17 08:17	11/01/17 14:18	1
3-Nitroaniline	<8.0		8.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:18	1
Acenaphthene	<0.80		0.80	0.25	ug/L		11/01/17 08:17	11/01/17 14:18	1
2,4-Dinitrophenol	<16		16	6.9	ug/L		11/01/17 08:17	11/01/17 14:18	1
4-Nitrophenol	<16		16	5.9	ug/L		11/01/17 08:17	11/01/17 14:18	1
Dibenzofuran	<1.6		1.6	0.21	ug/L		11/01/17 08:17	11/01/17 14:18	1
2,4-Dinitrotoluene	<0.80		0.80	0.20	ug/L		11/01/17 08:17	11/01/17 14:18	1
Diethyl phthalate	<4.0		4.0	0.29	ug/L		11/01/17 08:17	11/01/17 14:18	1
Fluorene	<0.80		0.80	0.20	ug/L		11/01/17 08:17	11/01/17 14:18	1
4-Chlorophenyl phenyl ether	<4.0		4.0	0.51	ug/L		11/01/17 08:17	11/01/17 14:18	1
4-Nitroaniline	<8.0		8.0	1.3	ug/L		11/01/17 08:17	11/01/17 14:18	1
4,6-Dinitro-2-methylphenol	<16		16	4.7	ug/L		11/01/17 08:17	11/01/17 14:18	1
N-Nitrosodiphenylamine	<1.6		1.6	0.30	ug/L		11/01/17 08:17	11/01/17 14:18	1
4-Bromophenyl phenyl ether	<4.0		4.0	0.43	ug/L		11/01/17 08:17	11/01/17 14:18	1
Hexachlorobenzene	<0.40		0.40	0.064	ug/L		11/01/17 08:17	11/01/17 14:18	1
Atrazine	<4.0		4.0	0.50	ug/L		11/01/17 08:17	11/01/17 14:18	1
Pentachlorophenol	<16		16	3.2	ug/L		11/01/17 08:17	11/01/17 14:18	1
Phenanthrene	<0.80		0.80	0.24	ug/L		11/01/17 08:17	11/01/17 14:18	1
Anthracene	<0.80		0.80	0.27	ug/L		11/01/17 08:17	11/01/17 14:18	1
Carbazole	<4.0		4.0	0.28	ug/L		11/01/17 08:17	11/01/17 14:18	1
Di-n-butyl phthalate	<4.0		4.0	0.58	ug/L		11/01/17 08:17	11/01/17 14:18	1
Fluoranthene	<0.80		0.80	0.36	ug/L		11/01/17 08:17	11/01/17 14:18	1
Pyrene	<0.80		0.80	0.34	ug/L		11/01/17 08:17	11/01/17 14:18	1
Butyl benzyl phthalate	<1.6		1.6	0.38	ug/L		11/01/17 08:17	11/01/17 14:18	1
3,3'-Dichlorobenzidine	<4.0		4.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:18	1
Benzo[a]anthracene	<0.16		0.16	0.045	ug/L		11/01/17 08:17	11/01/17 14:18	1
Chrysene	<0.16		0.16	0.055	ug/L		11/01/17 08:17	11/01/17 14:18	1
Bis(2-ethylhexyl) phthalate	<8.0		8.0	1.4	ug/L		11/01/17 08:17	11/01/17 14:18	1
Di-n-octyl phthalate	<8.0		8.0	0.84	ug/L		11/01/17 08:17	11/01/17 14:18	1
Benzo[b]fluoranthene	<0.16		0.16	0.065	ug/L		11/01/17 08:17	11/01/17 14:18	1
Benzo[k]fluoranthene	<0.16		0.16	0.051	ug/L		11/01/17 08:17	11/01/17 14:18	1
Benzo[a]pyrene	<0.16		0.16	0.079	ug/L		11/01/17 08:17	11/01/17 14:18	1
Indeno[1,2,3-cd]pyrene	<0.16		0.16	0.060	ug/L		11/01/17 08:17	11/01/17 14:18	1
Dibenz(a,h)anthracene	<0.24		0.24	0.041	ug/L		11/01/17 08:17	11/01/17 14:18	1
Benzo[g,h,i]perylene	<0.80		0.80	0.30	ug/L		11/01/17 08:17	11/01/17 14:18	1
3 & 4 Methylphenol	<1.6		1.6	0.36	ug/L		11/01/17 08:17	11/01/17 14:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*64*		*27 - 110*	*11/01/17 08:17*	*11/01/17 14:18*	*1*
Phenol-d5 (Surr)	*41*		*20 - 100*	*11/01/17 08:17*	*11/01/17 14:18*	*1*
Nitrobenzene-d5 (Surr)	*94*		*36 - 120*	*11/01/17 08:17*	*11/01/17 14:18*	*1*
2-Fluorobiphenyl (Surr)	*85*		*34 - 110*	*11/01/17 08:17*	*11/01/17 14:18*	*1*
2,4,6-Tribromophenol (Surr)	*134*		*40 - 145*	*11/01/17 08:17*	*11/01/17 14:18*	*1*
Terphenyl-d14 (Surr)	*119*		*40 - 145*	*11/01/17 08:17*	*11/01/17 14:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-407898/2-A
Matrix: Water
Analysis Batch: 407918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzaldehyde	32.0	26.6	J ^	ug/L		83	
Phenol	32.0	15.9		ug/L		50	33 - 100
Bis(2-chloroethyl)ether	32.0	18.5		ug/L		58	49 - 110
2-Chlorophenol	32.0	22.9		ug/L		71	59 - 110
2-Methylphenol	32.0	21.7		ug/L		68	53 - 110
2,2'-oxybis[1-chloropropane]	32.0	11.1	*	ug/L		35	38 - 110
Acetophenone	32.0	22.5		ug/L		70	60 - 110
N-Nitrosodi-n-propylamine	32.0	24.4		ug/L		76	58 - 110
Hexachloroethane	32.0	11.8		ug/L		37	20 - 100
Nitrobenzene	32.0	28.5		ug/L		89	53 - 110
Isophorone	32.0	24.4		ug/L		76	57 - 110
2-Nitrophenol	32.0	25.2		ug/L		79	58 - 110
2,4-Dimethylphenol	32.0	25.1		ug/L		78	51 - 110
Bis(2-chloroethoxy)methane	32.0	24.6		ug/L		77	60 - 110
2,4-Dichlorophenol	32.0	28.8		ug/L		90	62 - 110
Naphthalene	32.0	20.3		ug/L		63	36 - 110
4-Chloroaniline	32.0	25.0		ug/L		78	35 - 128
Hexachlorobutadiene	32.0	10.6		ug/L		33	20 - 100
Caprolactam	32.0	14.9		ug/L		47	32 - 100
4-Chloro-3-methylphenol	32.0	29.3		ug/L		91	64 - 120
2-Methylnaphthalene	32.0	20.4		ug/L		64	34 - 110
Hexachlorocyclopentadiene	32.0	11.0	J	ug/L		34	10 - 100
2,4,6-Trichlorophenol	32.0	31.5		ug/L		99	62 - 110
2,4,5-Trichlorophenol	32.0	32.5		ug/L		101	63 - 120
1,1'-Biphenyl	32.0	23.6		ug/L		74	40 - 110
2-Chloronaphthalene	32.0	22.6		ug/L		71	39 - 110
2-Nitroaniline	32.0	31.6		ug/L		99	59 - 122
Dimethyl phthalate	32.0	30.4		ug/L		95	63 - 120
2,6-Dinitrotoluene	32.0	32.6		ug/L		102	63 - 119
Acenaphthylene	32.0	23.9		ug/L		75	47 - 110
3-Nitroaniline	32.0	29.2		ug/L		91	47 - 123
Acenaphthene	32.0	22.8		ug/L		71	46 - 110
2,4-Dinitrophenol	64.0	65.3		ug/L		102	37 - 130
4-Nitrophenol	64.0	55.6		ug/L		87	20 - 110
Dibenzofuran	32.0	26.6		ug/L		83	51 - 110
2,4-Dinitrotoluene	32.0	35.1		ug/L		110	63 - 122
Diethyl phthalate	32.0	35.1		ug/L		110	62 - 120
Fluorene	32.0	28.9		ug/L		90	53 - 120
4-Chlorophenyl phenyl ether	32.0	28.4		ug/L		89	47 - 112
4-Nitroaniline	32.0	28.5		ug/L		89	52 - 147
4,6-Dinitro-2-methylphenol	64.0	58.7		ug/L		92	50 - 117
N-Nitrosodiphenylamine	32.0	30.0		ug/L		94	66 - 110
4-Bromophenyl phenyl ether	32.0	31.6		ug/L		99	58 - 120
Hexachlorobenzene	32.0	35.0		ug/L		109	61 - 120
Atrazine	32.0	30.2		ug/L		95	58 - 118
Pentachlorophenol	64.0	63.0		ug/L		98	23 - 129
Phenanthrene	32.0	30.8		ug/L		96	65 - 120
Anthracene	32.0	31.1		ug/L		97	67 - 110

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-407898/2-A
Matrix: Water
Analysis Batch: 407918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbazole	32.0	31.3		ug/L		98	61 - 145
Di-n-butyl phthalate	32.0	32.0		ug/L		100	70 - 120
Fluoranthene	32.0	33.3		ug/L		104	68 - 120
Pyrene	32.0	30.6		ug/L		96	70 - 110
Butyl benzyl phthalate	32.0	30.7		ug/L		96	68 - 120
3,3'-Dichlorobenzidine	32.0	34.0		ug/L		106	60 - 132
Benzo[a]anthracene	32.0	31.9		ug/L		100	70 - 120
Chrysene	32.0	32.4		ug/L		101	68 - 120
Bis(2-ethylhexyl) phthalate	32.0	29.4		ug/L		92	69 - 120
Di-n-octyl phthalate	32.0	31.5		ug/L		98	70 - 122
Benzo[b]fluoranthene	32.0	34.6		ug/L		108	69 - 123
Benzo[k]fluoranthene	32.0	32.9		ug/L		103	70 - 120
Benzo[a]pyrene	32.0	35.4		ug/L		111	70 - 120
Indeno[1,2,3-cd]pyrene	32.0	37.6		ug/L		118	65 - 133
Dibenz(a,h)anthracene	32.0	39.0		ug/L		122	70 - 127
Benzo[g,h,i]perylene	32.0	38.3		ug/L		120	70 - 120
3 & 4 Methylphenol	32.0	20.8		ug/L		65	53 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*64*		*27 - 110*
Phenol-d5 (Surr)	*44*		*20 - 100*
Nitrobenzene-d5 (Surr)	*84*		*36 - 120*
2-Fluorobiphenyl (Surr)	*80*		*34 - 110*
2,4,6-Tribromophenol (Surr)	*143*		*40 - 145*
Terphenyl-d14 (Surr)	*108*		*40 - 145*

Lab Sample ID: LCSD 500-407898/3-A
Matrix: Water
Analysis Batch: 407918

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 407898

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzaldehyde	32.0	33.7	^	ug/L		105		23	
Phenol	32.0	18.7		ug/L		58	33 - 100	16	20
Bis(2-chloroethyl)ether	32.0	21.1		ug/L		66	49 - 110	13	20
2-Chlorophenol	32.0	25.9		ug/L		81	59 - 110	12	20
2-Methylphenol	32.0	24.3		ug/L		76	53 - 110	11	20
2,2'-oxybis[1-chloropropane]	32.0	12.3		ug/L		39	38 - 110	11	20
Acetophenone	32.0	25.2		ug/L		79	60 - 110	11	20
N-Nitrosodi-n-propylamine	32.0	27.1		ug/L		85	58 - 110	11	20
Hexachloroethane	32.0	13.6		ug/L		43	20 - 100	15	20
Nitrobenzene	32.0	31.0		ug/L		97	53 - 110	8	20
Isophorone	32.0	26.1		ug/L		82	57 - 110	7	20
2-Nitrophenol	32.0	27.5		ug/L		86	58 - 110	9	20
2,4-Dimethylphenol	32.0	27.3		ug/L		85	51 - 110	8	20
Bis(2-chloroethoxy)methane	32.0	27.1		ug/L		85	60 - 110	10	20
2,4-Dichlorophenol	32.0	31.4		ug/L		98	62 - 110	9	20
Naphthalene	32.0	21.5		ug/L		67	36 - 110	6	20
4-Chloroaniline	32.0	27.4		ug/L		86	35 - 128	9	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-407898/3-A
Matrix: Water
Analysis Batch: 407918

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 407898

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobutadiene	32.0	11.5		ug/L		36	20 - 100	8	20
Caprolactam	32.0	15.3		ug/L		48	32 - 100	3	20
4-Chloro-3-methylphenol	32.0	31.6		ug/L		99	64 - 120	8	20
2-Methylnaphthalene	32.0	21.1		ug/L		66	34 - 110	4	20
Hexachlorocyclopentadiene	32.0	11.7	J	ug/L		37	10 - 100	7	20
2,4,6-Trichlorophenol	32.0	32.7		ug/L		102	62 - 110	4	20
2,4,5-Trichlorophenol	32.0	34.2		ug/L		107	63 - 120	5	20
1,1'-Biphenyl	32.0	24.0		ug/L		75	40 - 110	2	20
2-Chloronaphthalene	32.0	23.3		ug/L		73	39 - 110	3	20
2-Nitroaniline	32.0	32.4		ug/L		101	59 - 122	3	20
Dimethyl phthalate	32.0	31.2		ug/L		97	63 - 120	2	20
2,6-Dinitrotoluene	32.0	33.0		ug/L		103	63 - 119	1	20
Acenaphthylene	32.0	24.5		ug/L		76	47 - 110	2	20
3-Nitroaniline	32.0	30.1		ug/L		94	47 - 123	3	20
Acenaphthene	32.0	23.4		ug/L		73	46 - 110	3	20
2,4-Dinitrophenol	64.0	65.4		ug/L		102	37 - 130	0	20
4-Nitrophenol	64.0	56.5		ug/L		88	20 - 110	2	20
Dibenzofuran	32.0	27.1		ug/L		85	51 - 110	2	20
2,4-Dinitrotoluene	32.0	34.7		ug/L		108	63 - 122	1	20
Diethyl phthalate	32.0	35.3		ug/L		110	62 - 120	0	20
Fluorene	32.0	28.9		ug/L		90	53 - 120	0	20
4-Chlorophenyl phenyl ether	32.0	27.9		ug/L		87	47 - 112	2	20
4-Nitroaniline	32.0	28.1		ug/L		88	52 - 147	1	20
4,6-Dinitro-2-methylphenol	64.0	59.1		ug/L		92	50 - 117	1	20
N-Nitrosodiphenylamine	32.0	29.3		ug/L		92	66 - 110	3	20
4-Bromophenyl phenyl ether	32.0	31.1		ug/L		97	58 - 120	1	20
Hexachlorobenzene	32.0	34.1		ug/L		107	61 - 120	3	20
Atrazine	32.0	29.7		ug/L		93	58 - 118	2	20
Pentachlorophenol	64.0	62.6		ug/L		98	23 - 129	1	20
Phenanthrene	32.0	30.8		ug/L		96	65 - 120	0	20
Anthracene	32.0	30.5		ug/L		95	67 - 110	2	20
Carbazole	32.0	31.0		ug/L		97	61 - 145	1	20
Di-n-butyl phthalate	32.0	31.6		ug/L		99	70 - 120	1	20
Fluoranthene	32.0	33.1		ug/L		103	68 - 120	1	20
Pyrene	32.0	30.9		ug/L		97	70 - 110	1	20
Butyl benzyl phthalate	32.0	31.0		ug/L		97	68 - 120	1	20
3,3'-Dichlorobenzidine	32.0	33.6		ug/L		105	60 - 132	1	20
Benzo[a]anthracene	32.0	32.1		ug/L		100	70 - 120	1	20
Chrysene	32.0	32.5		ug/L		102	68 - 120	0	20
Bis(2-ethylhexyl) phthalate	32.0	30.1		ug/L		94	69 - 120	2	20
Di-n-octyl phthalate	32.0	31.7		ug/L		99	70 - 122	1	20
Benzo[b]fluoranthene	32.0	34.7		ug/L		108	69 - 123	0	20
Benzo[k]fluoranthene	32.0	32.6		ug/L		102	70 - 120	1	20
Benzo[a]pyrene	32.0	34.7		ug/L		108	70 - 120	2	20
Indeno[1,2,3-cd]pyrene	32.0	37.9		ug/L		118	65 - 133	1	20
Dibenz(a,h)anthracene	32.0	39.0		ug/L		122	70 - 127	0	20
Benzo[g,h,i]perylene	32.0	38.4		ug/L		120	70 - 120	0	20
3 & 4 Methylphenol	32.0	23.6		ug/L		74	53 - 110	13	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-407898/3-A
Matrix: Water
Analysis Batch: 407918

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 407898

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorophenol (Surr)	76		27 - 110
Phenol-d5 (Surr)	54		20 - 100
Nitrobenzene-d5 (Surr)	95		36 - 120
2-Fluorobiphenyl (Surr)	91		34 - 110
2,4,6-Tribromophenol (Surr)	152	X	40 - 145
Terphenyl-d14 (Surr)	114		40 - 145

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-407914/1-A
Matrix: Water
Analysis Batch: 408844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.40		0.40	0.067	ug/L		11/01/17 10:02	11/07/17 19:11	1
PCB-1221	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 19:11	1
PCB-1232	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 19:11	1
PCB-1242	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 19:11	1
PCB-1248	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 19:11	1
PCB-1254	<0.40		0.40	0.20	ug/L		11/01/17 10:02	11/07/17 19:11	1
PCB-1260	<0.40		0.40	0.070	ug/L		11/01/17 10:02	11/07/17 19:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		30 - 120	11/01/17 10:02	11/07/17 19:11	1
DCB Decachlorobiphenyl	51		30 - 140	11/01/17 10:02	11/07/17 19:11	1

Lab Sample ID: LCS 500-407914/4-A
Matrix: Water
Analysis Batch: 408844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.97		ug/L		99	56 - 120
PCB-1260	4.00	3.32		ug/L		83	53 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	83		30 - 120
DCB Decachlorobiphenyl	45		30 - 140

Lab Sample ID: LCSD 500-407914/5-A
Matrix: Water
Analysis Batch: 408844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 407914

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	4.00	4.04		ug/L		101	56 - 120	2	20
PCB-1260	4.00	3.50		ug/L		87	53 - 137	5	20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 500-407914/5-A
Matrix: Water
Analysis Batch: 408844

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 407914

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*30 - 120*
DCB Decachlorobiphenyl	*54*		*30 - 140*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-407850/1-A
Matrix: Water
Analysis Batch: 408080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407850

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010	^	0.010	0.0037	mg/L		10/31/17 16:02	11/01/17 18:11	1
Barium	<0.010		0.010	0.0012	mg/L		10/31/17 16:02	11/01/17 18:11	1
Cadmium	0.000572	J	0.0020	0.00043	mg/L		10/31/17 16:02	11/01/17 18:11	1
Chromium	<0.010		0.010	0.0017	mg/L		10/31/17 16:02	11/01/17 18:11	1
Lead	<0.0050		0.0050	0.0027	mg/L		10/31/17 16:02	11/01/17 18:11	1
Selenium	<0.010		0.010	0.0053	mg/L		10/31/17 16:02	11/01/17 18:11	1
Silver	<0.0050		0.0050	0.0015	mg/L		10/31/17 16:02	11/01/17 18:11	1

Lab Sample ID: LCS 500-407850/2-A
Matrix: Water
Analysis Batch: 408080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407850

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0970	^	mg/L		97	80 - 120
Barium	2.00	1.92		mg/L		96	80 - 120
Cadmium	0.0500	0.0477		mg/L		95	80 - 120
Chromium	0.200	0.195		mg/L		98	80 - 120
Lead	0.100	0.0923		mg/L		92	80 - 120
Selenium	0.100	0.0876		mg/L		88	80 - 120
Silver	0.0500	0.0475		mg/L		95	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-407943/12-A
Matrix: Water
Analysis Batch: 408141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 407943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.098	ug/L		11/01/17 11:10	11/02/17 08:40	1

Lab Sample ID: LCS 500-407943/13-A
Matrix: Water
Analysis Batch: 408141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 407943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.00	2.24		ug/L		112	80 - 120

GC/MS VOA

Analysis Batch: 408934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136532-1	CRMS-SW-02-103117	Total/NA	Water	8260B	
500-136532-2	CRMS-SW-03-103117	Total/NA	Water	8260B	
500-136532-3	Trip Blank	Total/NA	Water	8260B	
MB 500-408934/6	Method Blank	Total/NA	Water	8260B	
LCS 500-408934/36	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 407898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136532-1	CRMS-SW-02-103117	Total/NA	Water	3510C	
500-136532-2	CRMS-SW-03-103117	Total/NA	Water	3510C	
MB 500-407898/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-407898/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-407898/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 407918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136532-1	CRMS-SW-02-103117	Total/NA	Water	8270D	407898
500-136532-2	CRMS-SW-03-103117	Total/NA	Water	8270D	407898
MB 500-407898/1-A	Method Blank	Total/NA	Water	8270D	407898
LCS 500-407898/2-A	Lab Control Sample	Total/NA	Water	8270D	407898
LCSD 500-407898/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	407898

GC Semi VOA

Prep Batch: 407914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136532-1	CRMS-SW-02-103117	Total/NA	Water	3510C	
500-136532-2	CRMS-SW-03-103117	Total/NA	Water	3510C	
MB 500-407914/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-407914/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-407914/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 408844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136532-1	CRMS-SW-02-103117	Total/NA	Water	8082A	407914
500-136532-2	CRMS-SW-03-103117	Total/NA	Water	8082A	407914
MB 500-407914/1-A	Method Blank	Total/NA	Water	8082A	407914
LCS 500-407914/4-A	Lab Control Sample	Total/NA	Water	8082A	407914
LCSD 500-407914/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	407914

Metals

Prep Batch: 407850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136532-1	CRMS-SW-02-103117	Total/NA	Water	3010A	
500-136532-2	CRMS-SW-03-103117	Total/NA	Water	3010A	
MB 500-407850/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-407850/2-A	Lab Control Sample	Total/NA	Water	3010A	

QC Association Summary

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136532-1

Prep Batch: 407943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136532-1	CRMS-SW-02-103117	Total/NA	Water	7470A	
500-136532-2	CRMS-SW-03-103117	Total/NA	Water	7470A	
MB 500-407943/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-407943/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 408080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136532-1	CRMS-SW-02-103117	Total/NA	Water	6010C	407850
500-136532-2	CRMS-SW-03-103117	Total/NA	Water	6010C	407850
MB 500-407850/1-A	Method Blank	Total/NA	Water	6010C	407850
LCS 500-407850/2-A	Lab Control Sample	Total/NA	Water	6010C	407850

Analysis Batch: 408141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136532-1	CRMS-SW-02-103117	Total/NA	Water	7470A	407943
500-136532-2	CRMS-SW-03-103117	Total/NA	Water	7470A	407943
MB 500-407943/12-A	Method Blank	Total/NA	Water	7470A	407943
LCS 500-407943/13-A	Lab Control Sample	Total/NA	Water	7470A	407943

Analysis Batch: 408178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136532-1	CRMS-SW-02-103117	Total/NA	Water	6010C	407850

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136532-1

Client Sample ID: CRMS-SW-02-103117
Date Collected: 10/31/17 08:05
Date Received: 10/31/17 10:30

Lab Sample ID: 500-136532-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	408934	11/08/17 18:14	EMA	TAL CHI
Total/NA	Prep	3510C			407898	11/01/17 08:17	DX	TAL CHI
Total/NA	Analysis	8270D		50	407918	11/01/17 15:11	AJD	TAL CHI
Total/NA	Prep	3510C			407914	11/01/17 10:02	DX	TAL CHI
Total/NA	Analysis	8082A		10	408844	11/07/17 20:00	BJH	TAL CHI
Total/NA	Prep	3010A			407850	10/31/17 16:02	BDE	TAL CHI
Total/NA	Analysis	6010C		1	408080	11/01/17 18:19	PJ1	TAL CHI
Total/NA	Prep	3010A			407850	10/31/17 16:02	BDE	TAL CHI
Total/NA	Analysis	6010C		1	408178	11/02/17 12:03	KML	TAL CHI
Total/NA	Prep	7470A			407943	11/01/17 11:10	EEN	TAL CHI
Total/NA	Analysis	7470A		1	408141	11/02/17 09:01	EEN	TAL CHI

Client Sample ID: CRMS-SW-03-103117
Date Collected: 10/31/17 08:25
Date Received: 10/31/17 10:30

Lab Sample ID: 500-136532-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	408934	11/08/17 18:39	EMA	TAL CHI
Total/NA	Prep	3510C			407898	11/01/17 08:17	DX	TAL CHI
Total/NA	Analysis	8270D		1	407918	11/01/17 14:45	AJD	TAL CHI
Total/NA	Prep	3510C			407914	11/01/17 10:02	DX	TAL CHI
Total/NA	Analysis	8082A		1	408844	11/07/17 20:16	BJH	TAL CHI
Total/NA	Prep	3010A			407850	10/31/17 16:02	BDE	TAL CHI
Total/NA	Analysis	6010C		1	408080	11/01/17 18:27	PJ1	TAL CHI
Total/NA	Prep	7470A			407943	11/01/17 11:10	EEN	TAL CHI
Total/NA	Analysis	7470A		1	408141	11/02/17 09:02	EEN	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 10/31/17 00:00
Date Received: 10/31/17 10:30

Lab Sample ID: 500-136532-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	408934	11/08/17 19:04	EMA	TAL CHI

Laboratory References:
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tetra Tech EM Inc. TestAmerica Job ID: 500-136532-1
Project/Site: Chicago River Mystery Spill

Laboratory: TestAmerica Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-18
Georgia	State Program	4	939	04-30-18
Hawaii	State Program	9	N/A	04-30-18
Illinois	NELAP	5	100201	04-30-18
Indiana	State Program	5	C-IL-02	04-30-18
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	12-31-17 *
Kentucky (UST)	State Program	4	66	04-30-18
Kentucky (WW)	State Program	4	KY90023	12-31-17 *
Mississippi	State Program	4	N/A	04-30-18
New York	NELAP	2	12019	04-01-18 *
North Carolina (WW/SW)	State Program	4	291	12-31-17 *
North Dakota	State Program	8	R-194	04-30-18
Oklahoma	State Program	6	8908	08-31-18
South Carolina	State Program	4	77001	04-30-18
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-18
Wyoming	State Program	8	8TMS-Q	04-30-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech EM Inc. TestAmerica Job ID: 500-136532-1
Project/Site: Chicago River Mystery Spill

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136532-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-136532-1	CRMS-SW-02-103117	Water	10/31/17 08:05	10/31/17 10:30
500-136532-2	CRMS-SW-03-103117	Water	10/31/17 08:25	10/31/17 10:30
500-136532-3	Trip Blank	Water	10/31/17 00:00	10/31/17 10:30

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: INST31-32 Analysis Batch Number: 407585

Lab Sample ID: IC 500-407585/6 Client Sample ID:

Date Analyzed: 10/30/17 13:23 Lab File ID: 103017_006.D GC Column: ZB-5 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.44	Peak not integrated	hamnerb	10/30/17 16:05
PCB-1016 Peak 2	3.61	Peak not integrated	hamnerb	10/30/17 16:05
PCB-1016 Peak 3	3.82	Peak not integrated	hamnerb	10/30/17 16:05
PCB-1016 Peak 4	3.91	Peak not integrated	hamnerb	10/30/17 16:05
PCB-1016 Peak 5	4.36	Peak not integrated	hamnerb	10/30/17 16:05

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
1660-LVI-4_00007	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-4_00029	2 mL	PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
							DCB Decachlorobiphenyl	0.008 ug/mL
							Tetrachloro-m-xylene	0.008 ug/mL
.AR1660-4_00029	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	AR1660PAR_00034	10 mL	PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					TCX/DCBPAR_00028	2 mL	DCB Decachlorobiphenyl	0.04 ug/mL
							Tetrachloro-m-xylene	0.04 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18		RESTEK, Lot A084195		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22		RESTEK, Lot A0117947		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloro-m-xylene	200 ug/mL
8260 GAS SPK_00129	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260 GASSPKPT_00033	40 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.8260 GASSPKPT_00033	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	GASES SPK STK_00011	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..GASES SPK STK_00011	11/30/18		Restek, Lot A0115484		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260 KET SPK_00100	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260KETSPKPT_00028	8 uL	2-Hexanone	50 ug/mL
							Acetone	50 ug/mL
							Methyl Ethyl Ketone	50 ug/mL
							methyl isobutyl ketone	50 ug/mL
.8260KETSPKPT_00028	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	KET SPK STK_00010	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..KET SPK STK_00010	03/31/19		Restek, Lot A0118013		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260 LOWIS1_00108	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	1,4DIOX-d8 IS_00012	1000 uL	1,4-Dioxane-d8	1000 ug/mL
					8260A IS PT_00026	40 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
					T-BUOH-d9 PT_00026	100 uL	TBA-d9 (IS)	1000 ug/mL
.1,4DIOX-d8 IS_00012	06/30/19		Restek, Lot A0120108		(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
.8260A IS PT_00026	09/30/17	06/26/17	n/a, Lot NA	1 mL	8260A IS SK_00007	1 mL	1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
..8260A IS SK_00007	02/28/21		Restek, Lot A0117358		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
.T-BUOH-d9 PT_00026	09/26/17	06/26/17	n/a, Lot NA	1 mL	T-BUOH-d9 IS_00006	1 mL	TBA-d9 (IS)	20000 ug/mL
..T-BUOH-d9 IS_00006	03/31/19		Restek, Lot A0117777		(Purchased Reagent)		TBA-d9 (IS)	20000 ug/mL
8260 LOWSS1_00133	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260/624 SSPT_00002	40 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260/624 SSPT_00002	09/26/17	06/26/17	na, Lot NA	5 mL	8260 SS PT_00040	5 mL	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
..8260 SS PT_00040	10/31/20	Restek, Lot A0114901			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260 MEGA SPK_00104	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260MEGASPKPT_00029	40 uL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.8260MEGASPKPT_00029	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	MEGA SPK STK_00011	1 mL	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..MEGA SPK STK_00011	07/31/18		Restek, Lot A0120604		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260/624ACRWK_00334	07/12/17	07/05/17	Water, Lot NA	2 mL	8260 ACRPTSPK_00032	400 uL	Acrolein	4000 ug/mL
.8260 ACRPTSPK_00032	08/23/17	05/23/17	Water, Lot NA	1 mL	ACROLN SK STK_00026	1 mL	Acrolein	20000 ug/mL
..ACROLN SK STK_00026	09/30/17	Restek, Lot A0125594			(Purchased Reagent)		Acrolein	20000 ug/mL
8260/624GASWK_00457	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASPT_00084	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00084	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 GAS_00015	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00015	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624GASWK_00478	11/08/17	11/01/17	METHANOL, Lot 177891	2 mL	8260/624GASPT_00089	80 uL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00089	01/27/18	10/27/17	na, Lot na	1 mL	8260/624 GAS_00016	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00016	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624KETWK_00262	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260/624KETPT_00045	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00045	08/06/17	05/06/17	na, Lot na	1 mL	8260/624 KET_00011	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00011	11/30/18		Restek, Lot A0115554		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260/624KETWK_00284	11/08/17	10/25/17	METHANOL, Lot 177891	2 mL	8260/624KETPT_00051	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00051	01/04/18	10/04/17	na, Lot na	1 mL	8260/624 KET_00013	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00013	01/31/20	Restek, Lot A0123890			(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromodichloromethane	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
.8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..8260/624 Mega_00016	03/31/18		Restek, Lot A0108177		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	Xylenes, Total	200 ug/mL
.8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	Xylenes, Total	5000 ug/mL
..8260/624 Mega_00016	03/31/18		Restek, Lot A0108177		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
8260/624MEGWK_00416	11/08/17	10/25/17	METHANOL, Lot 177891	2 mL	8260/624MEGPT_00078	80 uL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							o-Xylene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.8260/624MEGPT_00078	01/23/18	10/23/17	na, Lot na	1 mL	8260/624 Mega_00017	1 mL	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..8260/624 Mega_00017	12/31/18		Restek, Lot A01237		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260LOW IS/SS_00146	07/14/17	06/30/17	METHANOL, Lot 147462	20 mL	8260 IS/SS SK_00034	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00034	01/31/22		Restek, Lot A0124018		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00146	07/14/17	06/30/17	METHANOL, Lot 147462	20 mL	8260 IS/SS SK_00034	4000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00034	01/31/22		Restek, Lot A0124018		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260LOW IS/SS_00156	11/17/17	11/03/17	METHANOL, Lot 177891	20 mL	8260 IS/SS SK_00037	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00037	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00156	11/17/17	11/03/17	METHANOL, Lot 177891	20 mL	8260 IS/SS SK_00037	4000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00037	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260VA/2CEVE_00276	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624 VAPT_00051	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00044	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
.8260/624 VAPT_00051	09/30/17	05/30/17	METHANOL, Lot NA	1 mL	8260/624 VA_00023	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA_00023	09/30/17		Restek, Lot A0125716		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.8260/624CEVPT_00044	09/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260/624 CEVE_00011	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..8260/624 CEVE_00011	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
AR1248-4 LVI_00005	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1248-4_00039	2 mL	PCB-1248 Peak 1	0.1 ug/mL
							PCB-1248 Peak 2	0.1 ug/mL
							PCB-1248 Peak 3	0.1 ug/mL
							PCB-1248 Peak 4	0.1 ug/mL
							PCB-1248 Peak 5	0.1 ug/mL
.AR1248-4_00039	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCBAR1248_00011	0.05 mL	PCB-1248 Peak 1	0.5 ug/mL
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
..PCBAR1248_00011	06/30/22		RESTEK, Lot A0118166		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
AR1660-1 LVI_00003	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-1_00033	2 mL	PCB-1016 Peak 1	0.008 ug/mL
							PCB-1016 Peak 2	0.008 ug/mL
							PCB-1016 Peak 3	0.008 ug/mL
							PCB-1016 Peak 4	0.008 ug/mL
							PCB-1016 Peak 5	0.008 ug/mL
							PCB-1260 Peak 1	0.008 ug/mL
							PCB-1260 Peak 2	0.008 ug/mL
							PCB-1260 Peak 3	0.008 ug/mL
							PCB-1260 Peak 4	0.008 ug/mL
							PCB-1260 Peak 5	0.008 ug/mL
							DCB Decachlorobiphenyl	0.0008 ug/mL
							Tetrachloro-m-xylene	0.0008 ug/mL
.AR1660-1_00033	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	AR1660PAR_00034	0.8 mL	PCB-1016 Peak 1	0.04 ug/mL
							PCB-1016 Peak 2	0.04 ug/mL
							PCB-1016 Peak 3	0.04 ug/mL
							PCB-1016 Peak 4	0.04 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 5	0.04 ug/mL
							PCB-1260 Peak 1	0.04 ug/mL
							PCB-1260 Peak 2	0.04 ug/mL
							PCB-1260 Peak 3	0.04 ug/mL
							PCB-1260 Peak 4	0.04 ug/mL
							PCB-1260 Peak 5	0.04 ug/mL
					TCX/DCBPAR_00028	0.2 mL	DCB Decachlorobiphenyl	0.004 ug/mL
							Tetrachloro-m-xylene	0.004 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18	RESTEK, Lot A084195			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22	RESTEK, Lot A0117947			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-2 LVI_00003	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-2_00033	2 mL	PCB-1016 Peak 1	0.02 ug/mL
							PCB-1016 Peak 2	0.02 ug/mL
							PCB-1016 Peak 3	0.02 ug/mL
							PCB-1016 Peak 4	0.02 ug/mL
							PCB-1016 Peak 5	0.02 ug/mL
							PCB-1260 Peak 1	0.02 ug/mL
							PCB-1260 Peak 2	0.02 ug/mL
							PCB-1260 Peak 3	0.02 ug/mL
							PCB-1260 Peak 4	0.02 ug/mL
							PCB-1260 Peak 5	0.02 ug/mL
							DCB Decachlorobiphenyl	0.0016 ug/mL
							Tetrachloro-m-xylene	0.0016 ug/mL
.AR1660-2_00033	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	AR1660PAR_00034	2 mL	PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
					TCX/DCBPAR_00028	0.4 mL	DCB Decachlorobiphenyl	0.008 ug/mL
							Tetrachloro-m-xylene	0.008 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18	RESTEK, Lot A084195			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22	RESTEK, Lot A0117947			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-3 LVI_00004	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-3_00032	2 mL	PCB-1016 Peak 1	0.05 ug/mL
							PCB-1016 Peak 2	0.05 ug/mL
							PCB-1016 Peak 3	0.05 ug/mL
							PCB-1016 Peak 4	0.05 ug/mL
							PCB-1016 Peak 5	0.05 ug/mL
							PCB-1260 Peak 1	0.05 ug/mL
							PCB-1260 Peak 2	0.05 ug/mL
							PCB-1260 Peak 3	0.05 ug/mL
							PCB-1260 Peak 4	0.05 ug/mL
							PCB-1260 Peak 5	0.05 ug/mL
							DCB Decachlorobiphenyl	0.004 ug/mL
							Tetrachloro-m-xylene	0.004 ug/mL
.AR1660-3_00032	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	AR1660PAR_00034	5 mL	PCB-1016 Peak 1	0.25 ug/mL
							PCB-1016 Peak 2	0.25 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 3	0.25 ug/mL
							PCB-1016 Peak 4	0.25 ug/mL
							PCB-1016 Peak 5	0.25 ug/mL
							PCB-1260 Peak 1	0.25 ug/mL
							PCB-1260 Peak 2	0.25 ug/mL
							PCB-1260 Peak 3	0.25 ug/mL
							PCB-1260 Peak 4	0.25 ug/mL
							PCB-1260 Peak 5	0.25 ug/mL
					TCX/DCBPAR_00028	1 mL	DCB Decachlorobiphenyl	0.02 ug/mL
							Tetrachloro-m-xylene	0.02 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18		RESTEK, Lot A084195		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22		RESTEK, Lot A0117947		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-5 LVI_00003	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-5_00032	2 mL	PCB-1016 Peak 1	0.15 ug/mL
							PCB-1016 Peak 2	0.15 ug/mL
							PCB-1016 Peak 3	0.15 ug/mL
							PCB-1016 Peak 4	0.15 ug/mL
							PCB-1016 Peak 5	0.15 ug/mL
							PCB-1260 Peak 1	0.15 ug/mL
							PCB-1260 Peak 2	0.15 ug/mL
							PCB-1260 Peak 3	0.15 ug/mL
							PCB-1260 Peak 4	0.15 ug/mL
							PCB-1260 Peak 5	0.15 ug/mL
							DCB Decachlorobiphenyl	0.012 ug/mL
							Tetrachloro-m-xylene	0.012 ug/mL
.AR1660-5_00032	03/07/18	09/07/17	HEXANE, Lot 173156	50 mL	AR1660PAR_00034	7.5 mL	PCB-1016 Peak 1	0.75 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 2	0.75 ug/mL
							PCB-1016 Peak 3	0.75 ug/mL
							PCB-1016 Peak 4	0.75 ug/mL
							PCB-1016 Peak 5	0.75 ug/mL
							PCB-1260 Peak 1	0.75 ug/mL
							PCB-1260 Peak 2	0.75 ug/mL
							PCB-1260 Peak 3	0.75 ug/mL
							PCB-1260 Peak 4	0.75 ug/mL
							PCB-1260 Peak 5	0.75 ug/mL
					TCX/DCBPAR_00028	1.5 mL	DCB Decachlorobiphenyl	0.06 ug/mL
							Tetrachloro-m-xylene	0.06 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18		RESTEK, Lot A084195		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22		RESTEK, Lot A0117947		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-6 LVI_00004	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-6_00033	2 mL	PCB-1016 Peak 1	0.2 ug/mL
							PCB-1016 Peak 2	0.2 ug/mL
							PCB-1016 Peak 3	0.2 ug/mL
							PCB-1016 Peak 4	0.2 ug/mL
							PCB-1016 Peak 5	0.2 ug/mL
							PCB-1260 Peak 1	0.2 ug/mL
							PCB-1260 Peak 2	0.2 ug/mL
							PCB-1260 Peak 3	0.2 ug/mL
							PCB-1260 Peak 4	0.2 ug/mL
							PCB-1260 Peak 5	0.2 ug/mL
							DCB Decachlorobiphenyl	0.016 ug/mL
							Tetrachloro-m-xylene	0.016 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.AR1660-6_00033	03/07/18	09/07/17	HEXANE, Lot 173156	50 mL	AR1660PAR_00034	10 mL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					TCX/DCBPAR_00028	2 mL	DCB Decachlorobiphenyl	0.08 ug/mL
							Tetrachloro-m-xylene	0.08 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18		RESTEK, Lot A084195		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22		RESTEK, Lot A0117947		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660CCV4LVI_00051	12/15/17	10/24/17	HEXANE, Lot 175756	50 mL	AR1660CCV4_00193	10 mL	PCB-1016	0.1 ug/mL
							PCB-1260	0.1 ug/mL
							DCB Decachlorobiphenyl	0.008 ug/mL
							Tetrachloro-m-xylene	0.008 ug/mL
.AR1660CCV4_00193	12/15/17	08/01/17	HEXANE, Lot 173156	100 mL	AR1660PAR_00033	10 mL	PCB-1016	0.5 ug/mL
							PCB-1260	0.5 ug/mL
					TCX/DCBPAR_00027	2 mL	DCB Decachlorobiphenyl	0.04 ug/mL
							Tetrachloro-m-xylene	0.04 ug/mL
..AR1660PAR_00033	12/15/17	06/15/17	HEXANE, Lot 172855	100 mL	PCB1660STK_00022	0.5 mL	PCB-1016	5 ug/mL
							PCB-1260	5 ug/mL
...PCB1660STK_00022	04/30/19		RESTEK, Lot A092844		(Purchased Reagent)		PCB-1016	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260	1000 ug/mL
..TCX/DCBPAR_00027	02/01/18	08/01/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22		RESTEK, Lot A0117947		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR2154-4 LVI_00003	03/07/18	09/07/17	HEXANE, Lot 172156	10 mL	AR2154-4_00002	2 mL	PCB-1221 Peak 1	0.1 ug/mL
							PCB-1221 Peak 2	0.1 ug/mL
							PCB-1221 Peak 3	0.1 ug/mL
							PCB-1254 Peak 1	0.1 ug/mL
							PCB-1254 Peak 2	0.1 ug/mL
							PCB-1254 Peak 3	0.1 ug/mL
							PCB-1254 Peak 4	0.1 ug/mL
							PCB-1254 Peak 5	0.1 ug/mL
.AR2154-4_00002	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCBAR12211254_00001	0.05 mL	PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
..PCBAR12211254_00001	02/28/22		RESTEK, Lot A0115555		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
AR3262-4 LVI_00002	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR3262-4_00002	2 mL	PCB-1232 Peak 1	0.1 ug/mL
							PCB-1232 Peak 2	0.1 ug/mL
							PCB-1232 Peak 3	0.1 ug/mL
							PCB-1232 Peak 4	0.1 ug/mL
							PCB-1232 Peak 5	0.1 ug/mL
							PCB-1262 Peak 1	0.1 ug/mL
							PCB-1262 Peak 2	0.1 ug/mL
							PCB-1262 Peak 3	0.1 ug/mL
							PCB-1262 Peak 4	0.1 ug/mL
.AR3262-4_00002	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCBAR12621232_00002	0.05 mL	PCB-1232 Peak 1	0.5 ug/mL
							PCB-1232 Peak 2	0.5 ug/mL
							PCB-1232 Peak 3	0.5 ug/mL
							PCB-1232 Peak 4	0.5 ug/mL
							PCB-1232 Peak 5	0.5 ug/mL
							PCB-1262 Peak 1	0.5 ug/mL
							PCB-1262 Peak 2	0.5 ug/mL
							PCB-1262 Peak 3	0.5 ug/mL
							PCB-1262 Peak 4	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PCBAR12621232_00002	10/31/21		RESTEK, Lot A0112323		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
AR4268-4 LVI_00003	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR4268-4_00002	2 mL	PCB-1242 Peak 1	0.1 ug/mL
							PCB-1242 Peak 2	0.1 ug/mL
							PCB-1242 Peak 3	0.1 ug/mL
							PCB-1242 Peak 4	0.1 ug/mL
							PCB-1242 Peak 5	0.1 ug/mL
							PCB-1268 Peak 1	0.1 ug/mL
							PCB-1268 Peak 2	0.1 ug/mL
							PCB-1268 Peak 3	0.1 ug/mL
							PCB-1268 Peak 4	0.1 ug/mL
							PCB-1268 Peak 5	0.1 ug/mL
.AR4268-4_00002	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCBAR12421268_00001	0.05 mL	PCB-1242 Peak 1	0.5 ug/mL
							PCB-1242 Peak 2	0.5 ug/mL
							PCB-1242 Peak 3	0.5 ug/mL
							PCB-1242 Peak 4	0.5 ug/mL
							PCB-1242 Peak 5	0.5 ug/mL
							PCB-1268 Peak 1	0.5 ug/mL
							PCB-1268 Peak 2	0.5 ug/mL
							PCB-1268 Peak 3	0.5 ug/mL
							PCB-1268 Peak 4	0.5 ug/mL
							PCB-1268 Peak 5	0.5 ug/mL
..PCBAR12421268_00001	04/30/22		RESTEK, Lot A0116616		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
BFB STD WK_00154							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
					BFB WK PT_00040	25 uL	BFB	25 ug/mL
.BFB WK PT_00040	08/17/17	05/17/17	1, Lot NA	1 mL	BFB STD SK_00008	1 mL	BFB	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..BFB STD SK_00008	11/30/17	ultra scientific, Lot CH-3248A			(Purchased Reagent)		BFB	2000 ug/mL
BFB STD WK_00168							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
					BFB WK PT_00043	25 uL	BFB	25 ug/mL
.BFB WK PT_00043	11/30/17	10/08/17	1, Lot NA	1 mL	BFB STD SK_00008	1 mL	BFB	2000 ug/mL
..BFB STD SK_00008	11/30/17	ultra scientific, Lot CH-3248A			(Purchased Reagent)		BFB	2000 ug/mL
EXBNAL1SPW_00190	03/19/18	09/19/17	MEOH, Lot 4415828	50 mL	SMcaLs1S11_ST_00005	1000 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SMcaLs1St1_ST_00032	2000 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SMcaLs1St10_00018	2000 uL	Benzoic acid	80 ug/mL
							Indene	80 ug/mL
					SMcaLs1St9_ST_00018	1000 uL	3,3'-Dichlorobenzidine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	40 ug/mL
.SMcaLs1S11_ST_00005	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.SMcaLs1St1_ST_00032	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.SMcaLs1St10_00018	06/30/18		Restek, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.SMcaLs1St9_ST_00018	06/30/18		Restek, Lot A0123497		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
EXBNASURTS_00042	06/30/20		Restek, Lot A0128636		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
EXCPPSUW_00936	04/24/18	10/30/17	ACETONE, Lot 4390356	100 mL	EXCPPSUP_00160	10 mL	DCB Decachlorobiphenyl	0.4 ug/mL
							Tetrachloro-m-xylene	0.4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.EXCPPSUP_00160	04/24/18	10/24/17	ACETONE, Lot 4451855	100 mL	EGCPPSUST_00044	2 mL	DCB Decachlorobiphenyl	4 ug/mL
							Tetrachloro-m-xylene	4 ug/mL
..EGCPPSUST_00044	06/30/23		Restek, Lot A0125833		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
EXPCBSPW66_00155	11/05/17	10/26/17	MEOH, Lot 4217261	100 mL	EXPCBSPP66_00035	10 mL	PCB-1016	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
.EXPCBSPP66_00035	11/05/17	05/05/17	MEOH, Lot 4143739	100 mL	PCB1660STK_00020	5 mL	PCB-1016	50 ug/mL
							PCB-1016 Peak 1	50 ug/mL
							PCB-1016 Peak 2	50 ug/mL
							PCB-1016 Peak 3	50 ug/mL
							PCB-1016 Peak 4	50 ug/mL
							PCB-1016 Peak 5	50 ug/mL
							PCB-1260	50 ug/mL
							PCB-1260 Peak 1	50 ug/mL
							PCB-1260 Peak 2	50 ug/mL
							PCB-1260 Peak 3	50 ug/mL
							PCB-1260 Peak 4	50 ug/mL
							PCB-1260 Peak 5	50 ug/mL
..PCB1660STK_00020	08/31/22		RESTEK, Lot A0119290		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
HIVOL_DFTPPWK_00083							4,4'-DDD	
							4,4'-DDE	
							Aramite, Total	
							Creosote	
							Diallate	
							Isosafrole	
							Methyl Phenols,Total	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tentatively Identified Compound	
							Total Cresols, TCEQ Definition	
					SMDFTPPWK_00106	200 uL	4,4'-DDT	10 ug/mL
							Benzidine	10 ug/mL
							DFTPP	10 ug/mL
							Pentachlorophenol	10 ug/mL
.SMDFTPPWK_00106	02/15/18	06/27/17	Methylene Chloride, Lot 173138	1000 uL	SMTUNEWKS_00015	50 uL	4,4'-DDT	50 ug/mL
							Benzidine	50 ug/mL
							DFTPP	50 ug/mL
							Pentachlorophenol	50 ug/mL
..SMTUNEWKS_00015	02/15/18	02/15/17	n/a, Lot n/a	1000 uL	SMTUNESTK_00012	1000 uL	4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
...SMTUNESTK_00012	12/31/19		RESTEK, Lot A0123348		(Purchased Reagent)		4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
ICV1660-3_00044	01/31/18	09/07/17	HEXANE, Lot 173156	10 mL	ICV1660-3_00041	2 mL	PCB-1016	0.05 ug/mL
							PCB-1260	0.05 ug/mL
.ICV1660-3_00041	01/31/18	07/31/17	HEXANE, Lot 173156	100 mL	ICV1660PAR_00024	5 mL	PCB-1016	0.25 ug/mL
							PCB-1260	0.25 ug/mL
..ICV1660PAR_00024	01/31/18	07/31/17	HEXANE, Lot 173156	100 mL	PCB1660ICVSTK_00003	0.5 mL	PCB-1016	5 ug/mL
							PCB-1260	5 ug/mL
...PCB1660ICVSTK_00003	01/31/22		RESTEK, Lot A0114674		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
IS8000WRK_00017	03/07/18	09/07/17	HEXANE, Lot 173156	100 ug/mL	IS 8000 STK_00003	0.2 mL	1-Bromo-2-nitrobenzene	2 ug/mL
.IS 8000 STK_00003	12/31/19		RESTEK, Lot A0121535		(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
LEVEL1 8260_00001	12/31/17	01/15/13	1, Lot DH247	1 mL	8260/624STD_00001	5 uL	Vinyl chloride	0.5 ug/mL
							Benzene	0.5 ug/mL
							Ethylbenzene	0.5 ug/mL
							m-Xylene & p-Xylene	0.5 ug/mL
							o-Xylene	0.5 ug/mL
							Toluene	0.5 ug/mL
							Trichloroethene	0.5 ug/mL
.8260/624STD_00001	12/31/17	01/15/13	METHANOL, Lot DH247	2 mL	8260/624L1GAS_00001	100 uL	Vinyl chloride	100 ug/mL
					8260/624L1MEG_00001	100 uL	Benzene	100 ug/mL
							Ethylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							o-Xylene	100 ug/mL
							Toluene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624L1GAS_00001	12/31/17		Restek, Lot A092242		(Purchased Reagent)		Vinyl chloride	2000 ug/mL
..8260/624L1MEG_00001	12/31/17		Restek, Lot A092262		(Purchased Reagent)		Benzene	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							o-Xylene	2000 ug/mL
							Toluene	2000 ug/mL
							Trichloroethene	2000 ug/mL
LO8260/624STD_00259	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASWK_00457	100 uL	Bromomethane	5 ug/mL
							Butadiene	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					8260/624KETWK_00263	100 uL	2-Hexanone	5 ug/mL
							Acetone	5 ug/mL
							Methyl Ethyl Ketone	5 ug/mL
							methyl isobutyl ketone	5 ug/mL
					8260/624MEGWK_00391	100 uL	1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dibromoethane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							3-Chloro-1-propene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromobenzene	5 ug/mL
							Bromodichloromethane	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromochloromethane	5 ug/mL
							Dibromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	25 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
					8260VA/2CEVE_00276	100 uL	Vinyl acetate	5 ug/mL
							2-Chloroethyl vinyl ether	5 ug/mL
.8260/624GASWK_00457	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASPT_00084	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
..8260/624GASPT_00084	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 GAS_00015	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
...8260/624 GAS_00015	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260/624KETWK_00263	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624KETPT_00046	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
..8260/624KETPT_00046	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 KET_00012	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
...8260/624 KET_00012	11/30/18		Restek, Lot A0115554		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
.8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
...8260/624 Mega_00016	03/31/18		Restek, Lot A0108177		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VA/2CEVE_00276	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624 VAPT_00051	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00044	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
..8260/624 VAPT_00051	09/30/17	05/30/17	METHANOL, Lot NA	1 mL	8260/624 VA_00023	1 mL	Vinyl acetate	5000 ug/mL
...8260/624 VA_00023	09/30/17		Restek, Lot A0125716		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..8260/624CEVPT_00044	09/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260/624 CEVE_00011	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
...8260/624 CEVE_00011	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
LOW8260ACR_00173	07/12/17	07/05/17	Water, Lot NA	1 mL	8260/624ACRWK_00334	50 uL	Acrolein	200 ug/mL
.8260/624ACRWK_00334	07/12/17	07/05/17	Water, Lot NA	2 mL	8260 ACRPTSPK_00032	400 uL	Acrolein	4000 ug/mL
..8260 ACRPTSPK_00032	08/23/17	05/23/17	Water, Lot NA	1 mL	ACROLN SK STK_00026	1 mL	Acrolein	20000 ug/mL
...ACROLN SK STK_00026	09/30/17		Restek, Lot A0125594		(Purchased Reagent)		Acrolein	20000 ug/mL
M15HSTKHG_00001	06/30/21		ULTRA, Lot T00602		(Purchased Reagent)		Mercury	1000 ug/mL
M17BSTKHG_00001	02/27/18		Inorganic Ventures, Lot J2-HG02134		(Purchased Reagent)		Mercury	1000 ug/mL
M17ISPKIC_00001	11/16/17	09/27/17	Nitric Acid Water, Lot 165099	1000 mL	M16LSTKIC_00004	100 mL	Al	200 ug/mL
							Barium	200 ug/mL
							Ca	1000 ug/mL
							K	1000 ug/mL
							Mg	1000 ug/mL
							Na	1000 ug/mL
					M16LSTKIC_00005	100 mL	Arsenic	10 ug/mL
							B	100 ug/mL
							Be	5 ug/mL
							Bi	50 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Co	50 ug/mL
							Cu	25 ug/mL
							Fe	100 ug/mL
							Lead	10 ug/mL
							Li	50 ug/mL
							Mn	50 ug/mL
							Ni	50 ug/mL
							Selenium	10 ug/mL
							Sr	100 ug/mL
							Tl	10 ug/mL
							V	50 ug/mL
							Zn	50 ug/mL
					M16LSTKIC_00006	100 mL	Mo	100 ug/mL
							Sb	50 ug/mL
							Si	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Silver	5 ug/mL
							Sn	100 ug/mL
							Ti	100 ug/mL
					M17ASTKIC_00003	5 mL	Tl	10 ug/mL
					M17GSTKIC_00007	9 mL	Selenium	10 ug/mL
					M17GSTKIC_00008	8 mL	Lead	10 ug/mL
					M17HSTKIC_00002	6 mL	Arsenic	10 ug/mL
.M16LSTKIC_00004	11/16/17	Environ. Express, Lot 1631619			(Purchased Reagent)		Al	2000 ug/mL
							Barium	2000 ug/mL
							Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
.M16LSTKIC_00005	11/16/17	Environ.l Express, Lot 1631620			(Purchased Reagent)		Arsenic	40 ug/mL
							B	1000 ug/mL
							Be	50 ug/mL
							Bi	500 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Cu	250 ug/mL
							Fe	1000 ug/mL
							Lead	20 ug/mL
							Li	500 ug/mL
							Mn	500 ug/mL
							Ni	500 ug/mL
							Selenium	10 ug/mL
							Sr	1000 ug/mL
							Tl	50 ug/mL
							V	500 ug/mL
							Zn	500 ug/mL
.M16LSTKIC_00006	11/16/17	Environ. Express, Lot 1631621			(Purchased Reagent)		Mo	1000 ug/mL
							Sb	500 ug/mL
							Si	5000 ug/mL
							Silver	50 ug/mL
							Sn	1000 ug/mL
							Ti	1000 ug/mL
.M17ASTKIC_00003	01/13/18	Inorganic Ventures, Lot K2-TL651554			(Purchased Reagent)		Tl	1000 ug/mL
.M17GSTKIC_00007	07/25/18	Inorganic Ventures, Lot M2-SE02058R			(Purchased Reagent)		Selenium	1000 ug/mL
.M17GSTKIC_00008	07/25/18	Inorganic Ventures, Lot M2-PB656988			(Purchased Reagent)		Lead	1000 ug/mL
.M17HSTKIC_00002	08/18/18	Inorganic Ventures, Lot M2-AS657780			(Purchased Reagent)		Arsenic	1000 ug/mL
M17JCCVIC_00003	06/01/18	10/30/17	acidic water, Lot 166089/175648	1000 mL	M17GSTKIC_00003	10 mL	Arsenic	0.5 ug/mL
							Barium	0.5 ug/mL
							Cadmium	0.5 ug/mL
							Chromium	0.5 ug/mL
							Lead	0.5 ug/mL
							Selenium	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					M17GSTKIC_00005	10 mL	Silver	0.5 ug/mL
.M17GSTKIC_00003	06/01/18	High Purity Standards, Lot 1718019			(Purchased Reagent)		Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
.M17GSTKIC_00005	06/01/18	High Purity Standards, Lot 1718016			(Purchased Reagent)		Silver	50 ug/mL
M17JCCVLIC_00001	03/08/18	10/05/17	acidic water, Lot 166089/175648	1000 mL	M17CSTKIC_00002	1 mL	Arsenic	0.01 ug/mL
							Barium	0.01 ug/mL
							Cadmium	0.002 ug/mL
							Chromium	0.01 ug/mL
							Lead	0.005 ug/mL
							Selenium	0.01 ug/mL
							Silver	0.005 ug/mL
.M17CSTKIC_00002	03/08/18	Inorganic Ventures, Lot M2-MEB656086			(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	10 ug/mL
							Cadmium	2 ug/mL
							Chromium	10 ug/mL
							Lead	5 ug/mL
							Selenium	10 ug/mL
							Silver	5 ug/mL
M17JCRIIC_00001	12/02/17	10/05/17	acidic water, Lot 166089/175648	1000 mL	M17CSTKIC_00002	2 mL	Arsenic	20 ug/L
							Barium	20 ug/L
							Cadmium	4 ug/L
							Chromium	20 ug/L
							Lead	10 ug/L
							Selenium	20 ug/L
							Silver	10 ug/L
.M17CSTKIC_00002	03/08/18	Inorganic Ventures, Lot M2-MEB656086			(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	10 ug/mL
							Cadmium	2 ug/mL
							Chromium	10 ug/mL
							Lead	5 ug/mL
							Selenium	10 ug/mL
							Silver	5 ug/mL
M17JICVIC_00002	06/01/18	10/30/17	acidic water, Lot 166089/175648	1000 mL	M17GSTKIC_00003	8 mL	Arsenic	0.4 ug/mL
							Barium	0.4 ug/mL
							Cadmium	0.4 ug/mL
							Chromium	0.4 ug/mL
							Lead	0.4 ug/mL
							Selenium	0.4 ug/mL
					M17GSTKIC_00005	8 mL	Silver	0.4 ug/mL
.M17GSTKIC_00003	06/01/18	High Purity Standards, Lot 1718019			(Purchased Reagent)		Arsenic	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
.M17GSTKIC_00005	06/01/18	High Purity Standards, Lot 1718016			(Purchased Reagent)		Silver	50 ug/mL
M17JISAIC_00002	10/04/18	10/30/17	acidic water, Lot 166089/175648	1000 mL	M17JSTKIC_00005	100 mL	Al	500 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.M17JSTKIC_00005	10/04/18	Inorganic Ventures, Lot K2-MEB643109			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
M17JISBIC_00002	07/17/18	10/30/17	acidic water, Lot 166089/175648	1000 mL	M17GSTKIC_00002	10 mL	Arsenic	0.1 ug/mL
							Barium	0.5 ug/mL
							Be	0.5 ug/mL
							Cadmium	1 ug/mL
							Chromium	0.5 ug/mL
							Co	0.5 ug/mL
							Cu	0.5 ug/mL
							Lead	0.05 ug/mL
							Mn	0.5 ug/mL
							Ni	1 ug/mL
							Sb	0.6 ug/mL
							Selenium	0.05 ug/mL
							Silver	0.2 ug/mL
							Tl	0.1 ug/mL
							V	0.5 ug/mL
							Zn	1 ug/mL
					M17JSTKIC_00005	100 mL	Al	500 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.M17GSTKIC_00002	07/17/18	Inorganic Ventures, Lot K2-MEB627074			(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	50 ug/mL
							Be	50 ug/mL
							Cadmium	100 ug/mL
							Chromium	50 ug/mL
							Co	50 ug/mL
							Cu	50 ug/mL
							Lead	5 ug/mL
							Mn	50 ug/mL
							Ni	100 ug/mL
							Sb	60 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Selenium	5 ug/mL
							Silver	20 ug/mL
							Tl	10 ug/mL
							V	50 ug/mL
							Zn	100 ug/mL
.M17JSTKIC_00005	10/04/18	Inorganic Ventures, Lot K2-MEB643109			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
SM_HIVOLISTD_00160	12/26/17	06/26/17	Methylene Chloride, Lot 173138	4000 uL	SMISTDWORK_00348	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
.SMISTDWORK_00348	06/05/18	06/21/17	Methylene Chloride, Lot 173138	4000 uL	SMISTD_WK_00038	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
..SMISTD_WK_00038	06/05/18	06/05/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
...SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMlst1_5uLICV_00037	12/28/17	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SM_HIVOLISTD_00172	10 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMlst1_5uLICV_00037	12/28/17	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMICV_L1_W5uL_00016	250 uL	Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							1,1'-Biphenyl	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
.SMICV_L1_W5uL_00016	12/28/17	07/06/17	Methylene Chloride, Lot 173138	1000 uL	SMICVL1_WKG_00019	200 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							1,1'-Biphenyl	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
..SMICVL1_WKG_00019	12/28/17	07/06/17	Methylene Chloride, Lot 173138	1000 uL	SMicLs1S11_WK_00005	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMicvLs1S1_WK_00008	200 uL	1,1'-Biphenyl	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
					SMicvLs1S9_WK_00005	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
...SMicLs1S11_WK_00005	12/28/17	06/28/17	Methylene Chloride, Lot n/a	5000 uL	SMicLs1S11_ST_00006	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMicLs1S11_ST_00006	06/30/18	RESTEK, Lot A0123649			(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMicvLs1S1_WK_00008	07/06/18	07/06/17	n/a, Lot n/a	5000 uL	SMicvLs1S1_ST_00017	5000 uL	1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
....SMicvLs1S1_ST_00017	11/30/18		RESTEK, Lot A0127347		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
...SMicvLs1S9_WK_00005	06/30/18	05/02/17	Methylene Chloride, Lot n/a	5000 uL	SMicvLs1S9_ST_00006	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
....SMicvLs1S9_ST_00006	06/30/18	RESTEK, Lot A0123493			(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
SMlst1_5uLL1_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5WKG_00054	20 uL	Benzo[a]anthracene	0.04 ug/mL
							Benzo[a]pyrene	0.04 ug/mL
							Benzo[b]fluoranthene	0.04 ug/mL
							Benzo[k]fluoranthene	0.04 ug/mL
							Chrysene	0.04 ug/mL
							Dibenz(a,h)anthracene	0.04 ug/mL
							Indeno[1,2,3-cd]pyrene	0.04 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
......SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
SMlst1_5uLL10_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	150 uL	1,1'-Biphenyl	12 ug/mL
							1,2,4,5-Tetrachlorobenzene	12 ug/mL
							1,2,4-Trichlorobenzene	12 ug/mL
							1,2-Dichlorobenzene	12 ug/mL
							1,2-Diphenylhydrazine	12 ug/mL
							1,3-Dichlorobenzene	12 ug/mL
							1,3-Dinitrobenzene	12 ug/mL
							1,4-Dichlorobenzene	12 ug/mL
							1,4-Dioxane	12 ug/mL
							1-Methylnaphthalene	12 ug/mL
							2,2'-oxybis[1-chloropropane]	12 ug/mL
							2,3,4,6-Tetrachlorophenol	12 ug/mL
							2,4,5-Trichlorophenol	12 ug/mL
							2,4,6-Trichlorophenol	12 ug/mL
							2,4-Dichlorophenol	12 ug/mL
							2,4-Dimethylphenol	12 ug/mL
							2,4-Dinitrophenol	24 ug/mL
							2,4-Dinitrotoluene	12 ug/mL
							2,6-Dichlorophenol	12 ug/mL
							2,6-Dinitrotoluene	12 ug/mL
							2-Chloronaphthalene	12 ug/mL
							2-Chlorophenol	12 ug/mL
							2-Methylnaphthalene	12 ug/mL
							2-Methylphenol	12 ug/mL
							2-Nitroaniline	12 ug/mL
							2-Nitrophenol	12 ug/mL
							3 & 4 Methylphenol	12 ug/mL
							3-Nitroaniline	12 ug/mL
							4,6-Dinitro-2-methylphenol	24 ug/mL
							4-Bromophenyl phenyl ether	12 ug/mL
							4-Chloro-3-methylphenol	12 ug/mL
							4-Chloroaniline	12 ug/mL
							4-Chlorophenyl phenyl ether	12 ug/mL
							4-Nitroaniline	12 ug/mL
							4-Nitrophenol	24 ug/mL
							Acenaphthene	12 ug/mL
							Acenaphthylene	12 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetophenone	12 ug/mL
							Aniline	12 ug/mL
							Anthracene	12 ug/mL
							Benzo[a]anthracene	12 ug/mL
							Benzo[a]pyrene	12 ug/mL
							Benzo[b]fluoranthene	12 ug/mL
							Benzo[g,h,i]perylene	12 ug/mL
							Benzo[k]fluoranthene	12 ug/mL
							Benzyl alcohol	12 ug/mL
							Bis(2-chloroethoxy)methane	12 ug/mL
							Bis(2-chloroethyl)ether	12 ug/mL
							Bis(2-ethylhexyl) phthalate	12 ug/mL
							Butyl benzyl phthalate	12 ug/mL
							Carbazole	12 ug/mL
							Chrysene	12 ug/mL
							Di-n-butyl phthalate	12 ug/mL
							Di-n-octyl phthalate	12 ug/mL
							Dibenz(a,h)anthracene	12 ug/mL
							Dibenzofuran	12 ug/mL
							Diethyl phthalate	12 ug/mL
							Dimethyl phthalate	12 ug/mL
							Diphenylamine	10.2 ug/mL
							Fluoranthene	12 ug/mL
							Fluorene	12 ug/mL
							Hexachlorobenzene	12 ug/mL
							Hexachlorobutadiene	12 ug/mL
							Hexachlorocyclopentadiene	12 ug/mL
							Hexachloroethane	12 ug/mL
							Hexadecane	12 ug/mL
							Indeno[1,2,3-cd]pyrene	12 ug/mL
							Isophorone	12 ug/mL
							n-Decane	12 ug/mL
							N-Nitrosodi-n-propylamine	12 ug/mL
							N-Nitrosodimethylamine	12 ug/mL
							N-Nitrosodiphenylamine	12 ug/mL
							n-Octadecane	12 ug/mL
							Naphthalene	12 ug/mL
							Nitrobenzene	12 ug/mL
							Pentachlorophenol	24 ug/mL
							Phenanthrene	12 ug/mL
							Phenol	12 ug/mL
							Pyrene	12 ug/mL
							Pyridine	24 ug/mL
							Benzoic acid	24 ug/mL
							Indene	24 ug/mL
							Atrazine	12 ug/mL
							Benzaldehyde	12 ug/mL
							Caprolactam	12 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3,3'-Dichlorobenzidine	12 ug/mL
							Benzidine	12 ug/mL
					SMSURR5uLWKG_00060	150 uL	2,4,6-Tribromophenol (Surr)	12 ug/mL
							2-Fluorobiphenyl (Surr)	12 ug/mL
							2-Fluorophenol (Surr)	12 ug/mL
							Nitrobenzene-d5 (Surr)	12 ug/mL
							Phenol-d5 (Surr)	12 ug/mL
							Terphenyl-d14 (Surr)	12 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL11_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	175 uL	1,1'-Biphenyl	14 ug/mL
							1,2,4,5-Tetrachlorobenzene	14 ug/mL
							1,2,4-Trichlorobenzene	14 ug/mL
							1,2-Dichlorobenzene	14 ug/mL
							1,2-Diphenylhydrazine	14 ug/mL
							1,3-Dichlorobenzene	14 ug/mL
							1,3-Dinitrobenzene	14 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	14 ug/mL
							1,4-Dioxane	14 ug/mL
							1-Methylnaphthalene	14 ug/mL
							2,2'-oxybis[1-chloropropane]	14 ug/mL
							2,3,4,6-Tetrachlorophenol	14 ug/mL
							2,4,5-Trichlorophenol	14 ug/mL
							2,4,6-Trichlorophenol	14 ug/mL
							2,4-Dichlorophenol	14 ug/mL
							2,4-Dimethylphenol	14 ug/mL
							2,4-Dinitrophenol	28 ug/mL
							2,4-Dinitrotoluene	14 ug/mL
							2,6-Dichlorophenol	14 ug/mL
							2,6-Dinitrotoluene	14 ug/mL
							2-Chloronaphthalene	14 ug/mL
							2-Chlorophenol	14 ug/mL
							2-Methylnaphthalene	14 ug/mL
							2-Methylphenol	14 ug/mL
							2-Nitroaniline	14 ug/mL
							2-Nitrophenol	14 ug/mL
							3 & 4 Methylphenol	14 ug/mL
							3-Nitroaniline	14 ug/mL
							4,6-Dinitro-2-methylphenol	28 ug/mL
							4-Bromophenyl phenyl ether	14 ug/mL
							4-Chloro-3-methylphenol	14 ug/mL
							4-Chloroaniline	14 ug/mL
							4-Chlorophenyl phenyl ether	14 ug/mL
							4-Nitroaniline	14 ug/mL
							4-Nitrophenol	28 ug/mL
							Acenaphthene	14 ug/mL
							Acenaphthylene	14 ug/mL
							Acetophenone	14 ug/mL
							Aniline	14 ug/mL
							Anthracene	14 ug/mL
							Benzo[a]anthracene	14 ug/mL
							Benzo[a]pyrene	14 ug/mL
							Benzo[b]fluoranthene	14 ug/mL
							Benzo[g,h,i]perylene	14 ug/mL
							Benzo[k]fluoranthene	14 ug/mL
							Benzyl alcohol	14 ug/mL
							Bis(2-chloroethoxy)methane	14 ug/mL
							Bis(2-chloroethyl)ether	14 ug/mL
							Bis(2-ethylhexyl) phthalate	14 ug/mL
							Butyl benzyl phthalate	14 ug/mL
							Carbazole	14 ug/mL
							Chrysene	14 ug/mL
							Di-n-butyl phthalate	14 ug/mL
							Di-n-octyl phthalate	14 ug/mL
							Dibenz(a,h)anthracene	14 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	14 ug/mL
							Diethyl phthalate	14 ug/mL
							Dimethyl phthalate	14 ug/mL
							Diphenylamine	11.9 ug/mL
							Fluoranthene	14 ug/mL
							Fluorene	14 ug/mL
							Hexachlorobenzene	14 ug/mL
							Hexachlorobutadiene	14 ug/mL
							Hexachlorocyclopentadiene	14 ug/mL
							Hexachloroethane	14 ug/mL
							Hexadecane	14 ug/mL
							Indeno[1,2,3-cd]pyrene	14 ug/mL
							Isophorone	14 ug/mL
							n-Decane	14 ug/mL
							N-Nitrosodi-n-propylamine	14 ug/mL
							N-Nitrosodimethylamine	14 ug/mL
							N-Nitrosodiphenylamine	14 ug/mL
							n-Octadecane	14 ug/mL
							Naphthalene	14 ug/mL
							Nitrobenzene	14 ug/mL
							Pentachlorophenol	28 ug/mL
							Phenanthrene	14 ug/mL
							Phenol	14 ug/mL
							Pyrene	14 ug/mL
							Pyridine	28 ug/mL
							Benzoic acid	28 ug/mL
							Indene	28 ug/mL
							Atrazine	14 ug/mL
							Benzaldehyde	14 ug/mL
							Caprolactam	14 ug/mL
							3,3'-Dichlorobenzidine	14 ug/mL
							Benzidine	14 ug/mL
					SMSURR5uLWKG_00060	175 uL	2,4,6-Tribromophenol (Surr)	14 ug/mL
							2-Fluorobiphenyl (Surr)	14 ug/mL
							2-Fluorophenol (Surr)	14 ug/mL
							Nitrobenzene-d5 (Surr)	14 ug/mL
							Phenol-d5 (Surr)	14 ug/mL
							Terphenyl-d14 (Surr)	14 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL2_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5WKG_00054	50 uL	2,6-Dinitrotoluene	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							N-Nitrosodi-n-propylamine	0.1 ug/mL
							Phenol	0.1 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	2,6-Dinitrotoluene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							Phenol	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	2,6-Dinitrotoluene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							Phenol	4 ug/mL
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	2,6-Dinitrotoluene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							Phenol	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	2,6-Dinitrotoluene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							Phenol	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Phenol	1000 ug/mL
......SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Phenol	1000 ug/mL
SMlst1_5uLL3_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SMLST_1_5WKG_00054	100 uL	1-Methylnaphthalene	0.2 ug/mL
							2,4-Dinitrotoluene	0.2 ug/mL
							2,6-Dinitrotoluene	0.2 ug/mL
							2-Methylnaphthalene	0.2 ug/mL
							Acenaphthene	0.2 ug/mL
							Acenaphthylene	0.2 ug/mL
							Acetophenone	0.2 ug/mL
							Anthracene	0.2 ug/mL
							Benzo[a]anthracene	0.2 ug/mL
							Benzo[a]pyrene	0.2 ug/mL
							Benzo[b]fluoranthene	0.2 ug/mL
							Benzo[g,h,i]perylene	0.2 ug/mL
							Benzo[k]fluoranthene	0.2 ug/mL
							Chrysene	0.2 ug/mL
							Dibenz(a,h)anthracene	0.2 ug/mL
							Fluoranthene	0.2 ug/mL
							Fluorene	0.2 ug/mL
							Hexachlorobenzene	0.2 ug/mL
							Indeno[1,2,3-cd]pyrene	0.2 ug/mL
							n-Decane	0.2 ug/mL
							N-Nitrosodi-n-propylamine	0.2 ug/mL
							N-Nitrosodiphenylamine	0.2 ug/mL
							Naphthalene	0.2 ug/mL
							Nitrobenzene	0.2 ug/mL
							Phenanthrene	0.2 ug/mL
							Pyrene	0.2 ug/mL
							2,4,6-Tribromophenol (Surr)	0.2 ug/mL
							2-Fluorobiphenyl (Surr)	0.2 ug/mL
							2-Fluorophenol (Surr)	0.2 ug/mL
							Nitrobenzene-d5 (Surr)	0.2 ug/mL
							Phenol-d5 (Surr)	0.2 ug/mL
							Terphenyl-d14 (Surr)	0.2 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	1-Methylnaphthalene	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1-Methylnaphthalene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Phenanthrene	4 ug/mL
							Pyrene	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1-Methylnaphthalene	40 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1-Methylnaphthalene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
......SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
....SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
......SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.......SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL4_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5WKG_00054	200 uL	1,2,4-Trichlorobenzene	0.4 ug/mL
							1,2-Dichlorobenzene	0.4 ug/mL
							1,3-Dichlorobenzene	0.4 ug/mL
							1,4-Dichlorobenzene	0.4 ug/mL
							1-Methylnaphthalene	0.4 ug/mL
							2,2'-oxybis[1-chloropropane]	0.4 ug/mL
							2,4-Dinitrotoluene	0.4 ug/mL
							2,6-Dinitrotoluene	0.4 ug/mL
							2-Chloronaphthalene	0.4 ug/mL
							2-Methylnaphthalene	0.4 ug/mL
							2-Methylphenol	0.4 ug/mL
							3 & 4 Methylphenol	0.4 ug/mL
							Acenaphthene	0.4 ug/mL
							Acenaphthylene	0.4 ug/mL
							Acetophenone	0.4 ug/mL
							Anthracene	0.4 ug/mL
							Benzo[a]anthracene	0.4 ug/mL
							Benzo[a]pyrene	0.4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	0.4 ug/mL
							Benzo[g,h,i]perylene	0.4 ug/mL
							Benzo[k]fluoranthene	0.4 ug/mL
							Bis(2-chloroethoxy)methane	0.4 ug/mL
							Bis(2-chloroethyl)ether	0.4 ug/mL
							Bis(2-ethylhexyl) phthalate	0.4 ug/mL
							Butyl benzyl phthalate	0.4 ug/mL
							Carbazole	0.4 ug/mL
							Chrysene	0.4 ug/mL
							Di-n-butyl phthalate	0.4 ug/mL
							Dibenz(a,h)anthracene	0.4 ug/mL
							Dibenzofuran	0.4 ug/mL
							Diethyl phthalate	0.4 ug/mL
							Dimethyl phthalate	0.4 ug/mL
							Fluoranthene	0.4 ug/mL
							Fluorene	0.4 ug/mL
							Hexachlorobenzene	0.4 ug/mL
							Hexachlorobutadiene	0.4 ug/mL
							Indeno[1,2,3-cd]pyrene	0.4 ug/mL
							Isophorone	0.4 ug/mL
							n-Decane	0.4 ug/mL
							N-Nitrosodi-n-propylamine	0.4 ug/mL
							N-Nitrosodiphenylamine	0.4 ug/mL
							n-Octadecane	0.4 ug/mL
							Naphthalene	0.4 ug/mL
							Nitrobenzene	0.4 ug/mL
							Phenanthrene	0.4 ug/mL
							Pyrene	0.4 ug/mL
							2,4,6-Tribromophenol (Surr)	0.4 ug/mL
							2-Fluorobiphenyl (Surr)	0.4 ug/mL
							2-Fluorophenol (Surr)	0.4 ug/mL
							Nitrobenzene-d5 (Surr)	0.4 ug/mL
							Phenol-d5 (Surr)	0.4 ug/mL
							Terphenyl-d14 (Surr)	0.4 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Phenanthrene	4 ug/mL
							Pyrene	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
.....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
....SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
......SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.......SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL5_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5ULWK_00042	125 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Diphenylamine	0.85 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Hexadecane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
..SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
...SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
...SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
.....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
......SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL6_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5ULWK_00042	250 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Diphenylamine	1.7 ug/mL
							Fluoranthene	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Hexadecane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	4 ug/mL
							Benzoic acid	4 ug/mL
							Indene	4 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
..SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	40 ug/mL
...SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
...SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
.....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
......SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL6X_00018	01/19/18	10/26/17	Methylene Chloride, Lot 180104	500 uL	SM_HIVOLISTD_00177	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
.SM_HIVOLISTD_00177	04/23/18	10/23/17	Methylene Chloride, Lot 180104	4000 uL	SMISTDWORK_00353	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00353	09/12/18	10/10/17	Methylene Chloride, Lot 180104	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMlst1_5uLL6X_00018	01/19/18	10/26/17	Methylene Chloride, Lot 180104	500 uL	SMLST_1_5ULWK_00042	250 uL	2,2'-oxybis[1-chloropropane]	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
.SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	2,2'-oxybis[1-chloropropane]	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	2,2'-oxybis[1-chloropropane]	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
...SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	2,2'-oxybis[1-chloropropane]	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	2,2'-oxybis[1-chloropropane]	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
.....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		2,2'-oxybis[1-chloropropane]	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
SMlst1_5uLL7_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	50 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00060	50 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18	RESTEK, Lot A0123819			(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18	RESTEK, Lot A0123718			(Purchased Reagent)		Atrazine	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18	RESTEK, Lot A0120168			(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19	RESTEK, Lot A0103960			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL8_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	100 uL	1,1'-Biphenyl	8 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	8 ug/mL
							1,2,4-Trichlorobenzene	8 ug/mL
							1,2-Dichlorobenzene	8 ug/mL
							1,2-Diphenylhydrazine	8 ug/mL
							1,3-Dichlorobenzene	8 ug/mL
							1,3-Dinitrobenzene	8 ug/mL
							1,4-Dichlorobenzene	8 ug/mL
							1,4-Dioxane	8 ug/mL
							1-Methylnaphthalene	8 ug/mL
							2,2'-oxybis[1-chloropropane]	8 ug/mL
							2,3,4,6-Tetrachlorophenol	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dichlorophenol	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3 & 4 Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Aniline	8 ug/mL
							Anthracene	8 ug/mL
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Benzyl alcohol	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl)ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Diphenylamine	6.8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Hexadecane	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL
							Isophorone	8 ug/mL
							n-Decane	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodimethylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							n-Octadecane	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Pyridine	16 ug/mL
							Benzoic acid	16 ug/mL
							Indene	16 ug/mL
							Atrazine	8 ug/mL
							Benzaldehyde	8 ug/mL
							Caprolactam	8 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
							Benzidine	8 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	8 ug/mL
							2-Fluorobiphenyl (Surr)	8 ug/mL
							2-Fluorophenol (Surr)	8 ug/mL
							Nitrobenzene-d5 (Surr)	8 ug/mL
							Phenol-d5 (Surr)	8 ug/mL
							Terphenyl-d14 (Surr)	8 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL8X_00115	01/19/18	09/21/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMlst1_5uLL8X_00115	01/19/18	09/21/17	Methylene Chloride, Lot 176171	500 uL	SMLIST_1_W5uL_00058	100 uL	1,1'-Biphenyl	8 ug/mL
							2,2'-oxybis[1-chloropropane]	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3 & 4 Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Anthracene	8 ug/mL
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl)ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL
							Isophorone	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Atrazine	8 ug/mL
							Benzaldehyde	8 ug/mL
							Caprolactam	8 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	8 ug/mL
							2-Fluorobiphenyl (Surr)	8 ug/mL
							2-Fluorophenol (Surr)	8 ug/mL
							Nitrobenzene-d5 (Surr)	8 ug/mL
							Phenol-d5 (Surr)	8 ug/mL
							Terphenyl-d14 (Surr)	8 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3,3'-Dichlorobenzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL9_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	125 uL	1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Diphenylamine	8.5 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Hexadecane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
					SMSURR5uLWKG_00060	125 uL	2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19	RESTEK, Lot A0103960			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
CRMS-SW-02-103117	500-136532-1	91	90	90	92
CRMS-SW-03-103117	500-136532-2	93	90	88	93
Trip Blank	500-136532-3	90	87	90	95
	MB 500-408934/6	91	88	87	97
	LCS 500-408934/36	91	82	91	85

	QC LIMITS
DBFM = Dibromofluoromethane	75-120
DCA = 1,2-Dichloroethane-d4 (Surr)	75-126
TOL = Toluene-d8 (Surr)	75-120
BFB = 4-Bromofluorobenzene (Surr)	72-124

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 18S1108A.d

Lab ID: LCS 500-408934/36 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	43.1	86	70-125	
1,1,2,2-Tetrachloroethane	50.0	37.7	75	67-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.2	96	70-123	
1,1,2-Trichloroethane	50.0	37.7	75	70-122	
1,1-Dichloroethane	50.0	42.3	85	70-125	
1,1-Dichloroethene	50.0	44.5	89	67-122	
1,2,4-Trichlorobenzene	50.0	37.8	76	66-127	
1,2-Dibromo-3-Chloropropane	50.0	30.2	60	56-123	
1,2-Dibromoethane	50.0	36.1	72	70-125	
1,2-Dichlorobenzene	50.0	38.8	78	70-125	
1,2-Dichloroethane	50.0	38.4	77	68-127	
1,2-Dichloropropane	50.0	41.5	83	67-130	
1,3-Dichlorobenzene	50.0	39.8	80	70-125	
1,4-Dichlorobenzene	50.0	40.3	81	70-120	
2-Hexanone	50.0	40.1	80	56-135	
Acetone	50.0	52.3	105	40-143	
Benzene	50.0	44.7	89	70-120	
Bromodichloromethane	50.0	40.7	81	69-120	
Bromoform	50.0	35.6	71	56-132	
Bromomethane	50.0	62.7	125	40-130	
Carbon disulfide	50.0	42.7	85	66-120	
Carbon tetrachloride	50.0	44.6	89	65-122	
Chlorobenzene	50.0	42.2	84	70-120	
Chloroethane	50.0	58.0	116	45-127	
Chloroform	50.0	40.9	82	70-120	
Chloromethane	50.0	51.6	103	54-147	
cis-1,2-Dichloroethene	50.0	42.7	85	70-125	
cis-1,3-Dichloropropene	50.0	37.2	74	64-127	
Cyclohexane	50.0	47.3	95	69-142	
Dibromochloromethane	50.0	36.6	73	68-125	
Dichlorodifluoromethane	50.0	48.6	97	40-150	
Ethylbenzene	50.0	42.0	84	70-120	
Isopropylbenzene	50.0	40.7	81	70-126	
Methyl acetate	100	84.0	84	56-150	
Methyl Ethyl Ketone	50.0	41.5	83	53-141	
methyl isobutyl ketone	50.0	40.1	80	56-133	
Methyl tert-butyl ether	50.0	39.9	80	70-120	
Methylcyclohexane	50.0	45.6	91	70-120	
Methylene Chloride	50.0	47.5	95	69-125	
Styrene	50.0	42.2	84	70-120	
Tetrachloroethene	50.0	44.2	88	70-128	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 18S1108A.d

Lab ID: LCS 500-408934/36 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	43.0	86	70-125	
trans-1,2-Dichloroethene	50.0	44.5	89	70-125	
trans-1,3-Dichloropropene	50.0	35.9	72	62-128	
Trichloroethene	50.0	44.8	90	70-125	
Trichlorofluoromethane	50.0	47.2	94	70-126	
Vinyl chloride	50.0	48.7	97	64-126	
Xylenes, Total	100	86.0	86	70-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab File ID: 18M1108.d Lab Sample ID: MB 500-408934/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CMS18 Date Analyzed: 11/08/2017 11:06

GC Column: DB624 ID: 0.2(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-408934/36	18S1108A.d	11/08/2017 17:24
CRMS-SW-02-103117	500-136532-1	500-136532-a-1.d	11/08/2017 18:14
CRMS-SW-03-103117	500-136532-2	500-136532-a-2.d	11/08/2017 18:39
Trip Blank	500-136532-3	500-136532-a-3.d	11/08/2017 19:04

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab File ID: 18B0705C.d BFB Injection Date: 07/05/2017

Instrument ID: CMS18 BFB Injection Time: 12:47

Analysis Batch No.: 391894

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.1	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	87.6	
175	5.0 - 9.0 % of mass 174	7.3	(8.3) 1
176	95.0 - 101.0 % of mass 174	86.5	(98.7) 1
177	5.0 - 9.0 % of mass 176	6.5	(7.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD01 500-391894/2	18I0705A.d	07/05/2017	13:26
	STD02 500-391894/3	18I0705B.d	07/05/2017	13:52
	STD03 500-391894/4	18I0705C.d	07/05/2017	14:16
	STD04 500-391894/5	18I0705D.d	07/05/2017	14:41
	STD05 500-391894/6	18I0705E.d	07/05/2017	15:06
	STD06 500-391894/7	18I0705F.d	07/05/2017	15:31
	STD07 500-391894/8	18I0705G.d	07/05/2017	15:56
	STD08 500-391894/9	18I0705H.d	07/05/2017	16:21
	STD09 500-391894/10	18I0705I.d	07/05/2017	16:46
	STD10 500-391894/11	18I0705J.d	07/05/2017	17:12
	ICV 500-391894/14	18S0705ICV1.d	07/05/2017	18:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab File ID: 18B1108.d BFB Injection Date: 11/08/2017

Instrument ID: CMS18 BFB Injection Time: 09:00

Analysis Batch No.: 408934

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.0
75	30.0 - 60.0 % of mass 95	45.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.3
173	Less than 2.0 % of mass 174	0.7 (0.8) 1
174	50.0 - 120.00 % of mass 95	86.9
175	5.0 - 9.0 % of mass 174	5.9 (6.8) 1
176	95.0 - 101.0 % of mass 174	87.1 (100.2) 1
177	5.0 - 9.0 % of mass 176	5.4 (6.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 500-408934/2	18C1108.d	11/08/2017	09:26
	CCV 500-408934/3	18D1108.d	11/08/2017	09:50
	MB 500-408934/6	18M1108.d	11/08/2017	11:06
	LCS 500-408934/36	18S1108A.d	11/08/2017	17:24
CRMS-SW-02-103117	500-136532-1	500-136532-a-1.d	11/08/2017	18:14
CRMS-SW-03-103117	500-136532-2	500-136532-a-2.d	11/08/2017	18:39
Trip Blank	500-136532-3	500-136532-a-3.d	11/08/2017	19:04

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Sample No.: STD07 500-391894/8 Date Analyzed: 07/05/2017 15:56

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18I0705G.d Heated Purge: (Y/N) N

Calibration ID: 24901

		TBAd9		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		180389	3.75	801683	6.14	18119	6.83
UPPER LIMIT		360778	4.25	1603366	6.64	36238	7.33
LOWER LIMIT		90195	3.25	400842	5.64	9060	6.33
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-391894/14		175585	3.75	774889	6.14	18363	6.83
CCVIS 500-408934/2		128463	3.74	873417	6.14	17508	6.83
CCV 500-408934/3		130617	3.74	855934	6.14	15693	6.83
MB 500-408934/6		138568	3.74	874833	6.14	18523	6.83
LCS 500-408934/36		161443	3.75	871415	6.14	21513	6.83
500-136532-1	CRMS-SW-02-103117	141304	3.74	768095	6.14	18273	6.83
500-136532-2	CRMS-SW-03-103117	127531	3.74	762665	6.14	16794	6.83
500-136532-3	Trip Blank	129563	3.74	787555	6.14	16387	6.83

TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
DXE = 1,4-Dioxane-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Sample No.: STD07 500-391894/8 Date Analyzed: 07/05/2017 15:56

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18I0705G.d Heated Purge: (Y/N) N

Calibration ID: 24901

		CBNZd5		DCBd4			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		569472	9.41	326186	12.83		
UPPER LIMIT		1138944	9.91	652372	13.33		
LOWER LIMIT		284736	8.91	163093	12.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-391894/14		555755	9.41	311287	12.84		
CCVIS 500-408934/2		696605	9.41	380394	12.83		
CCV 500-408934/3		675734	9.41	338809	12.83		
MB 500-408934/6		701161	9.41	339421	12.83		
LCS 500-408934/36		659709	9.41	386514	12.83		
500-136532-1	CRMS-SW-02-103117	584304	9.41	305418	12.83		
500-136532-2	CRMS-SW-03-103117	581911	9.41	306689	12.83		
500-136532-3	Trip Blank	604595	9.41	289071	12.83		

CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Sample No.: CCVIS 500-408934/2 Date Analyzed: 11/08/2017 09:26

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18C1108.d Heated Purge: (Y/N) N

Calibration ID: 24901

		TBAd9		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		128463	3.74	873417	6.14	17508	6.83
UPPER LIMIT		256926	4.24	1746834	6.64	35016	7.33
LOWER LIMIT		64232	3.24	436709	5.64	8754	6.33
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 500-408934/3		130617	3.74	855934	6.14	15693	6.83
MB 500-408934/6		138568	3.74	874833	6.14	18523	6.83
LCS 500-408934/36		161443	3.75	871415	6.14	21513	6.83
500-136532-1	CRMS-SW-02-103117	141304	3.74	768095	6.14	18273	6.83
500-136532-2	CRMS-SW-03-103117	127531	3.74	762665	6.14	16794	6.83
500-136532-3	Trip Blank	129563	3.74	787555	6.14	16387	6.83

TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
DXE = 1,4-Dioxane-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Sample No.: CCVIS 500-408934/2 Date Analyzed: 11/08/2017 09:26

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18C1108.d Heated Purge: (Y/N) N

Calibration ID: 24901

		CBNZd5		DCBd4			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		696605	9.41	380394	12.83		
UPPER LIMIT		1393210	9.91	760788	13.33		
LOWER LIMIT		348303	8.91	190197	12.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 500-408934/3		675734	9.41	338809	12.83		
MB 500-408934/6		701161	9.41	339421	12.83		
LCS 500-408934/36		659709	9.41	386514	12.83		
500-136532-1	CRMS-SW-02-103117	584304	9.41	305418	12.83		
500-136532-2	CRMS-SW-03-103117	581911	9.41	306689	12.83		
500-136532-3	Trip Blank	604595	9.41	289071	12.83		

CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-02-103117 | Lab Sample ID: 500-136532-1

Matrix: Water | Lab File ID: 500-136532-a-1.d

Analysis Method: 8260B | Date Collected: 10/31/2017 08:05

Sample wt/vol: 5(mL) | Date Analyzed: 11/08/2017 18:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 408934 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	<1.0		1.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46
79-00-5	1,1,2-Trichloroethane	<1.0		1.0	0.35
75-34-3	1,1-Dichloroethane	<1.0		1.0	0.41
75-35-4	1,1-Dichloroethene	<1.0		1.0	0.39
120-82-1	1,2,4-Trichlorobenzene	<1.0		1.0	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0
106-93-4	1,2-Dibromoethane	<1.0		1.0	0.39
95-50-1	1,2-Dichlorobenzene	<1.0		1.0	0.33
107-06-2	1,2-Dichloroethane	<1.0		1.0	0.39
78-87-5	1,2-Dichloropropane	<1.0		1.0	0.43
541-73-1	1,3-Dichlorobenzene	<1.0		1.0	0.40
106-46-7	1,4-Dichlorobenzene	<1.0		1.0	0.36
591-78-6	2-Hexanone	<5.0		5.0	1.6
67-64-1	Acetone	39		5.0	1.7
71-43-2	Benzene	<0.50		0.50	0.15
75-27-4	Bromodichloromethane	<1.0		1.0	0.37
75-25-2	Bromoform	<1.0		1.0	0.48
74-83-9	Bromomethane	<2.0		2.0	0.80
75-15-0	Carbon disulfide	<2.0		2.0	0.45
56-23-5	Carbon tetrachloride	<1.0		1.0	0.38
108-90-7	Chlorobenzene	<1.0		1.0	0.39
75-00-3	Chloroethane	<1.0		1.0	0.51
67-66-3	Chloroform	1.2	J	2.0	0.37
74-87-3	Chloromethane	<1.0		1.0	0.32
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0	0.42
110-82-7	Cyclohexane	<1.0		1.0	0.49
124-48-1	Dibromochloromethane	<1.0		1.0	0.49
75-71-8	Dichlorodifluoromethane	<2.0		2.0	0.67
100-41-4	Ethylbenzene	<0.50		0.50	0.18
98-82-8	Isopropylbenzene	<1.0		1.0	0.39
79-20-9	Methyl acetate	17		5.0	2.0
78-93-3	Methyl Ethyl Ketone	<5.0		5.0	2.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-02-103117 | Lab Sample ID: 500-136532-1

Matrix: Water | Lab File ID: 500-136532-a-1.d

Analysis Method: 8260B | Date Collected: 10/31/2017 08:05

Sample wt/vol: 5(mL) | Date Analyzed: 11/08/2017 18:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 408934 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-10-1	methyl isobutyl ketone	<5.0		5.0	2.2
1634-04-4	Methyl tert-butyl ether	<1.0		1.0	0.39
108-87-2	Methylcyclohexane	<1.0		1.0	0.32
75-09-2	Methylene Chloride	<5.0		5.0	1.6
100-42-5	Styrene	<1.0		1.0	0.39
127-18-4	Tetrachloroethene	<1.0		1.0	0.37
108-88-3	Toluene	1.9		0.50	0.15
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0	0.35
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0	0.36
79-01-6	Trichloroethene	<0.50		0.50	0.16
75-69-4	Trichlorofluoromethane	<1.0		1.0	0.43
75-01-4	Vinyl chloride	<0.50		0.50	0.20
1330-20-7	Xylenes, Total	<1.0		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		75-126
460-00-4	4-Bromofluorobenzene (Surr)	92		72-124
1868-53-7	Dibromofluoromethane	91		75-120
2037-26-5	Toluene-d8 (Surr)	90		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-1.d
Lims ID: 500-136532-A-1
Client ID: CRMS-SW-02-103117
Sample Type: Client
Inject. Date: 08-Nov-2017 18:14:30 ALS Bottle#: 23 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136532-a-1
Misc. Info.: 500-0048906-015
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 09-Nov-2017 09:22:43 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: huntjj Date: 09-Nov-2017 09:22:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
14 Acetone	43	3.261	3.256	0.005	95	27187	38.7	
20 Methyl acetate	43	3.598	3.593	0.005	99	31347	16.9	
* 22 TBA-d9 (IS)	65	3.742	3.742	0.000	0	141304	1000.0	
41 Chloroform	83	5.299	5.294	0.005	72	8702	1.17	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	185971	45.7	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	178923	45.0	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	768095	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	18273	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	720075	45.0	
71 Toluene	92	7.872	7.872	0.000	62	20472	1.91	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	584304	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	94	278518	46.2	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	94	305418	50.0	

Reagents:

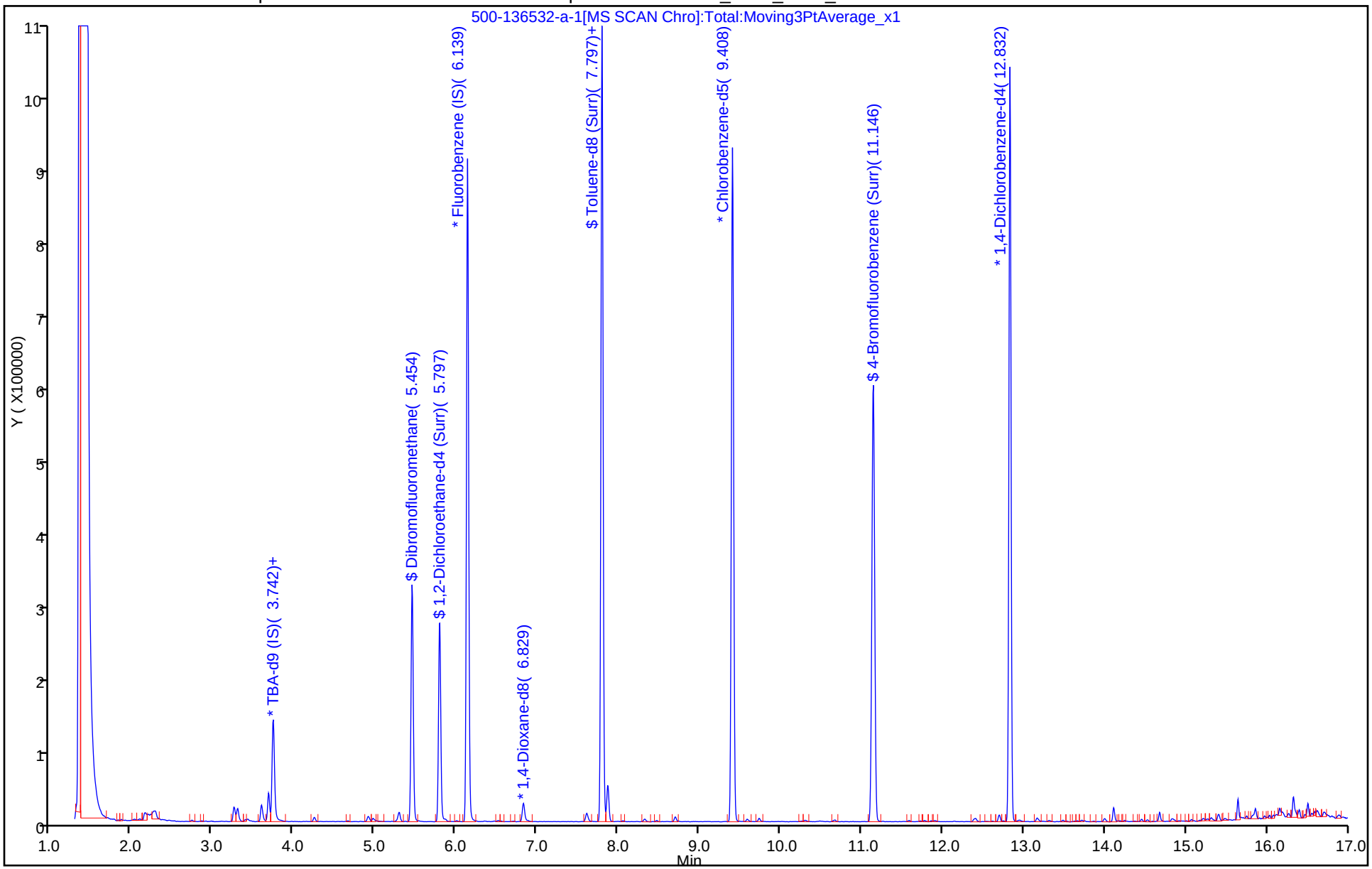
8260LOW IS/SS_00156 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Nov-2017 09:22:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-1.d

Injection Date:	08-Nov-2017 18:14:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	500-136532-A-1	Lab Sample ID:	500-136532-1	Worklist Smp#:	15
Client ID:	CRMS-SW-02-103117				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-1.d
Lims ID: 500-136532-A-1
Client ID: CRMS-SW-02-103117
Sample Type: Client
Inject. Date: 08-Nov-2017 18:14:30 ALS Bottle#: 23 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136532-a-1
Misc. Info.: 500-0048906-015
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 09-Nov-2017 09:22:43 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: huntjj Date: 09-Nov-2017 09:22:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	45.7	91.50
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	45.0	90.05
$ 70 Toluene-d8 (Surr)	50.0	45.0	89.98
$ 92 4-Bromofluorobenzene (Surr)	50.0	46.2	92.42

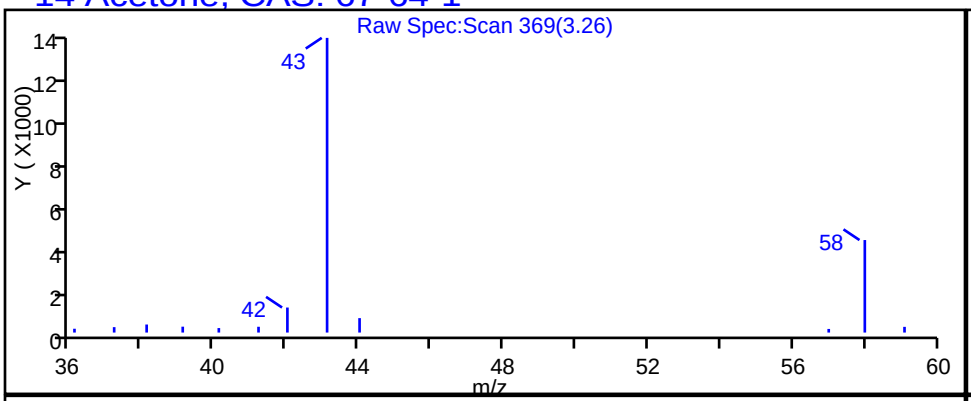
Report Date: 09-Nov-2017 09:22:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

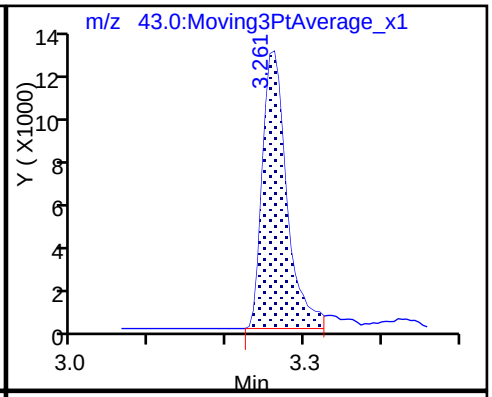
TestAmerica Chicago

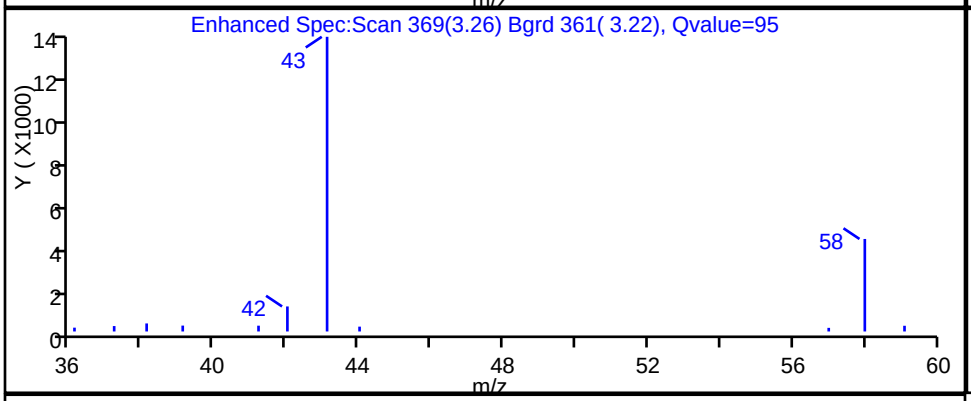
Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-1.d

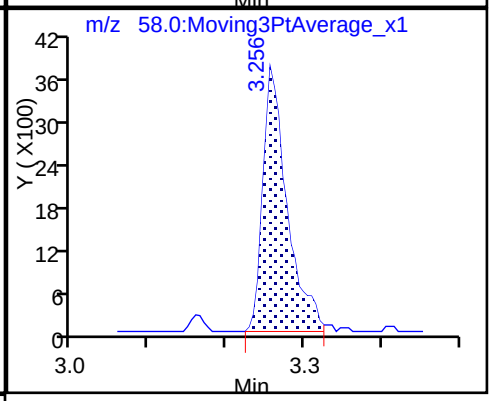
Injection Date:	08-Nov-2017 18:14:30	Instrument ID:	CMS18		
Lims ID:	500-136532-A-1	Lab Sample ID:	500-136532-1		
Client ID:	CRMS-SW-02-103117				
Operator ID:	JH	ALS Bottle#:	23	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

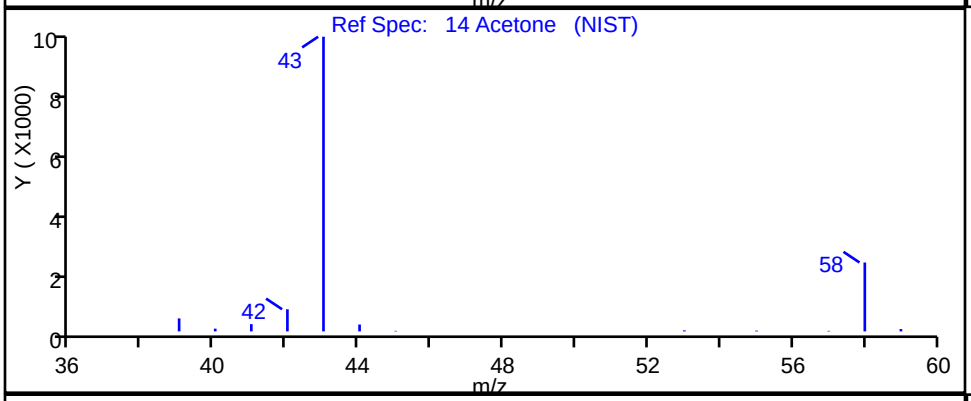
14 Acetone, CAS: 67-64-1

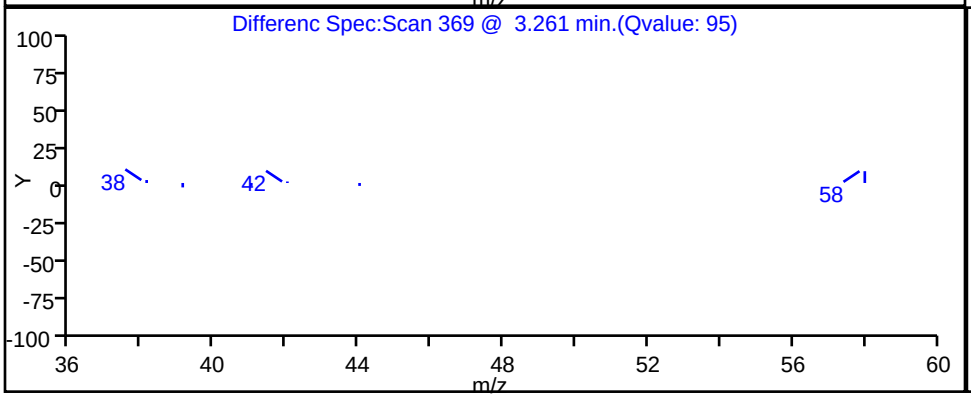


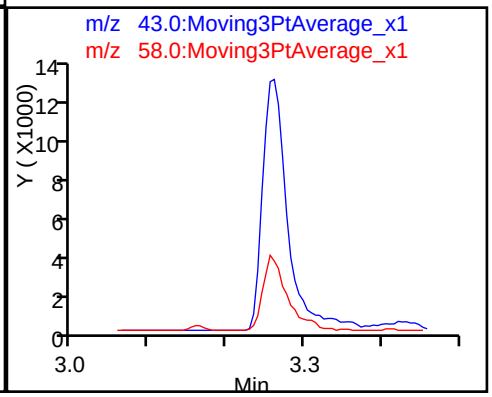












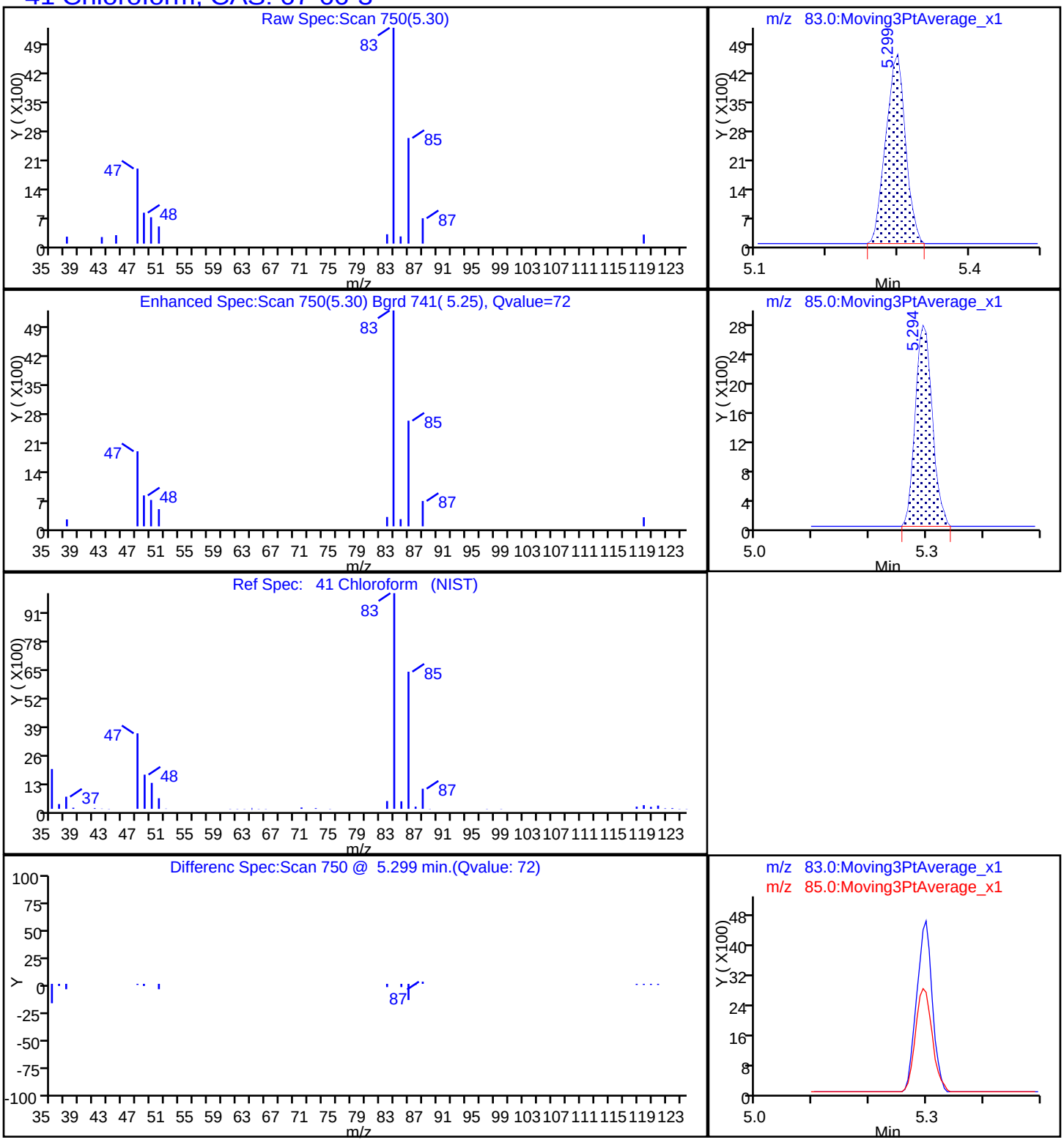
Report Date: 09-Nov-2017 09:22:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-1.d

Injection Date:	08-Nov-2017 18:14:30	Instrument ID:	CMS18		
Lims ID:	500-136532-A-1	Lab Sample ID:	500-136532-1		
Client ID:	CRMS-SW-02-103117				
Operator ID:	JH	ALS Bottle#:	23	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

41 Chloroform, CAS: 67-66-3



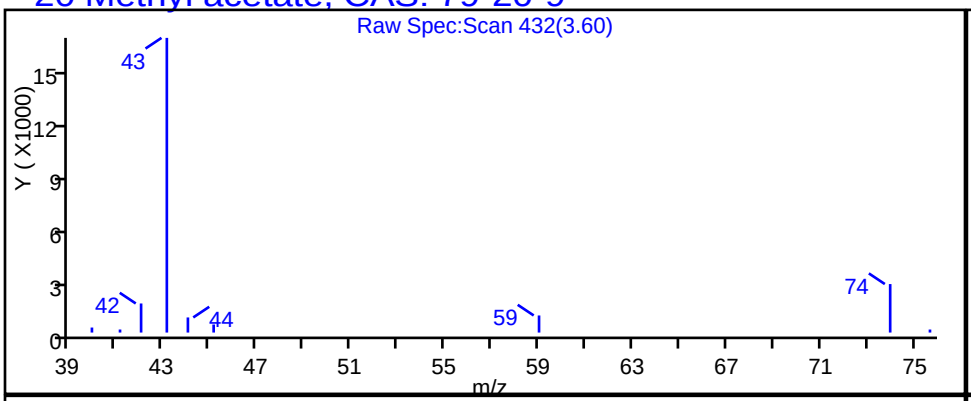
Report Date: 09-Nov-2017 09:22:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

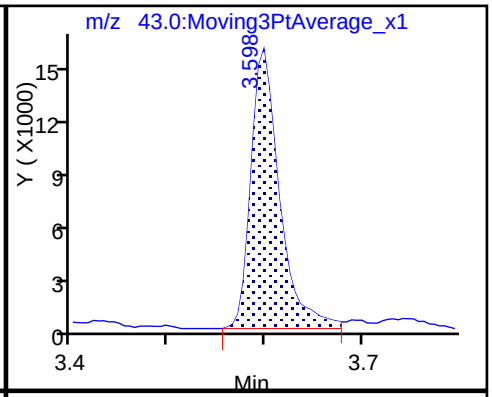
TestAmerica Chicago

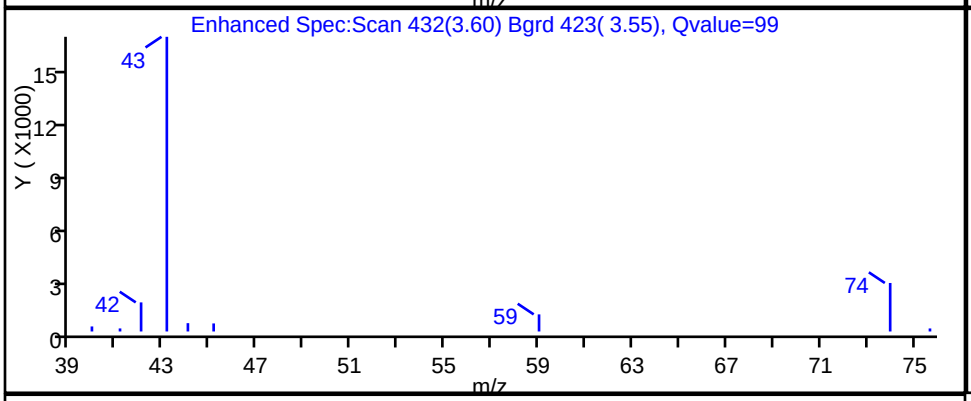
Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-1.d

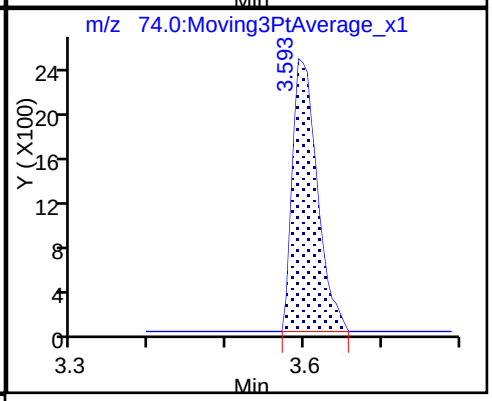
Injection Date:	08-Nov-2017 18:14:30	Instrument ID:	CMS18		
Lims ID:	500-136532-A-1	Lab Sample ID:	500-136532-1		
Client ID:	CRMS-SW-02-103117				
Operator ID:	JH	ALS Bottle#:	23	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

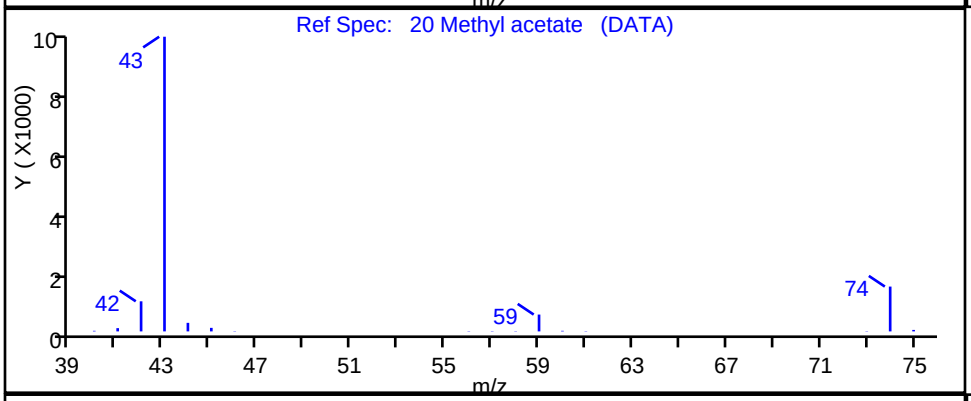
20 Methyl acetate, CAS: 79-20-9

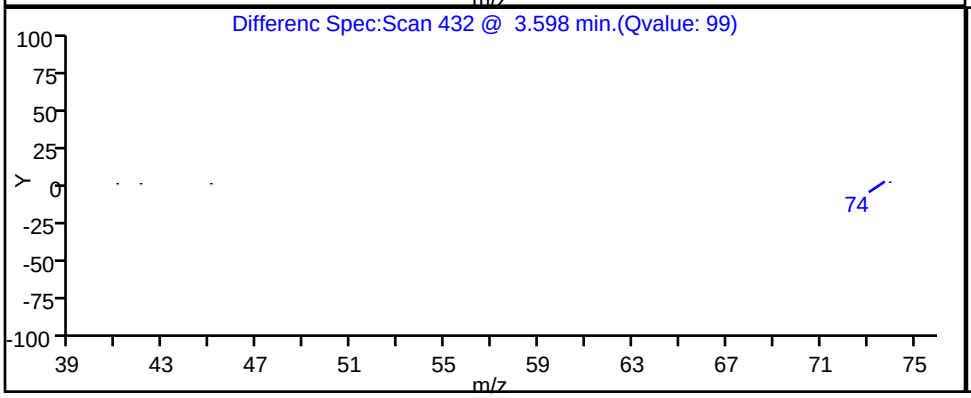


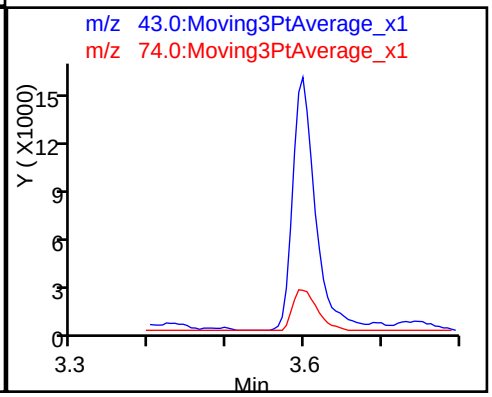












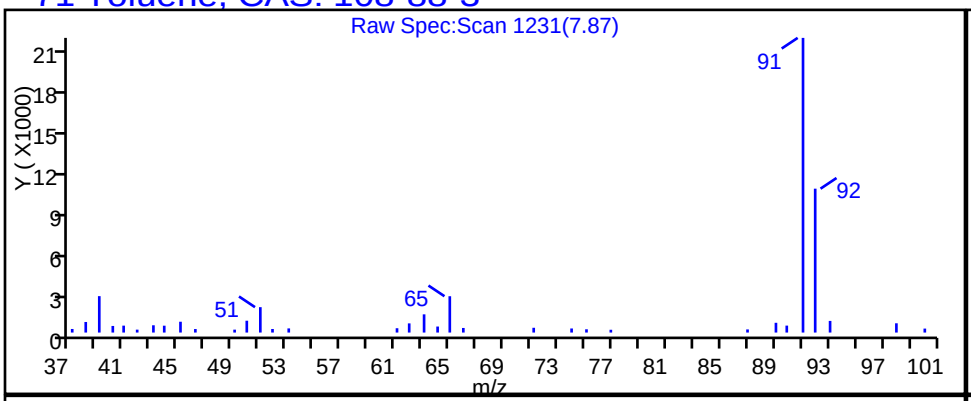
Report Date: 09-Nov-2017 09:22:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

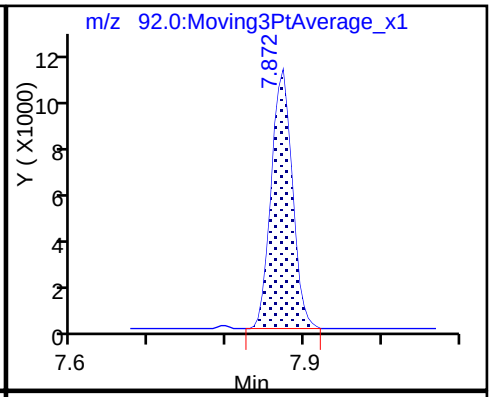
TestAmerica Chicago

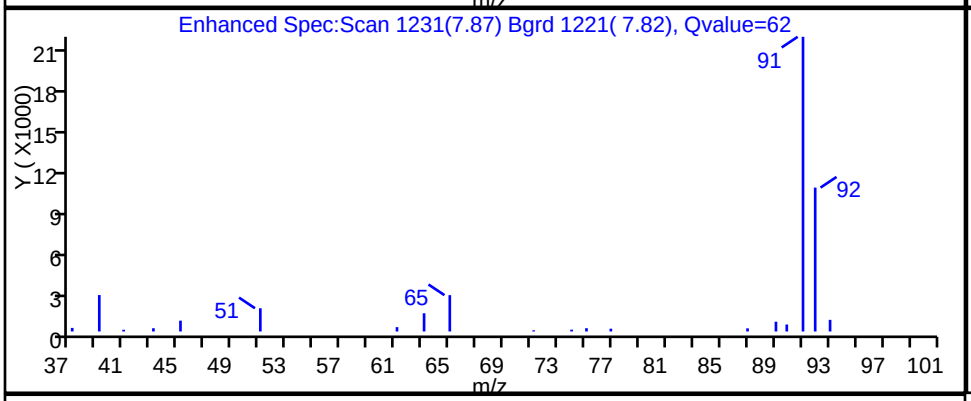
Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-1.d

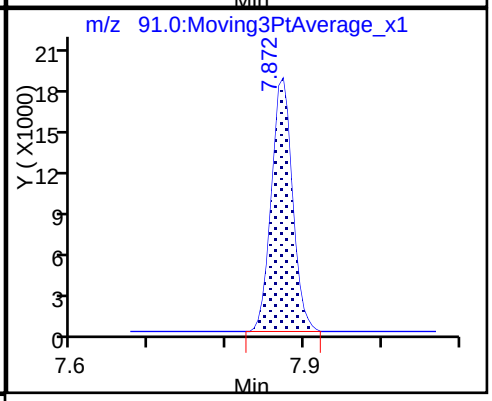
Injection Date:	08-Nov-2017 18:14:30	Instrument ID:	CMS18		
Lims ID:	500-136532-A-1	Lab Sample ID:	500-136532-1		
Client ID:	CRMS-SW-02-103117				
Operator ID:	JH	ALS Bottle#:	23	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		
Column:		Detector	MS SCAN		

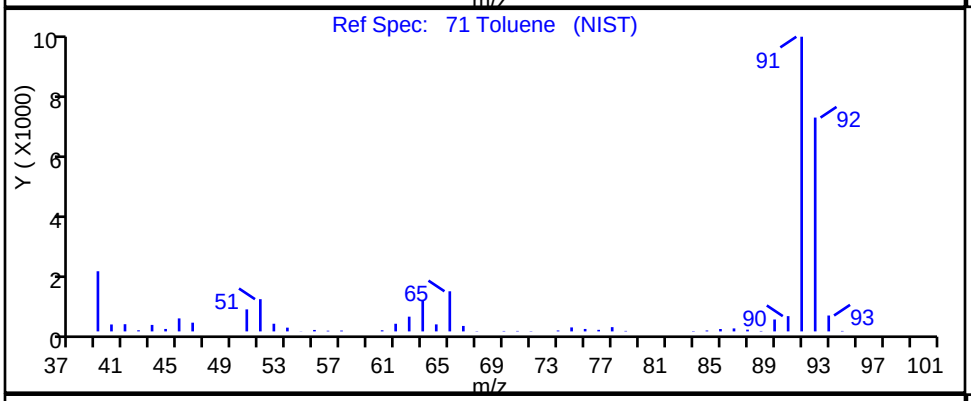
71 Toluene, CAS: 108-88-3

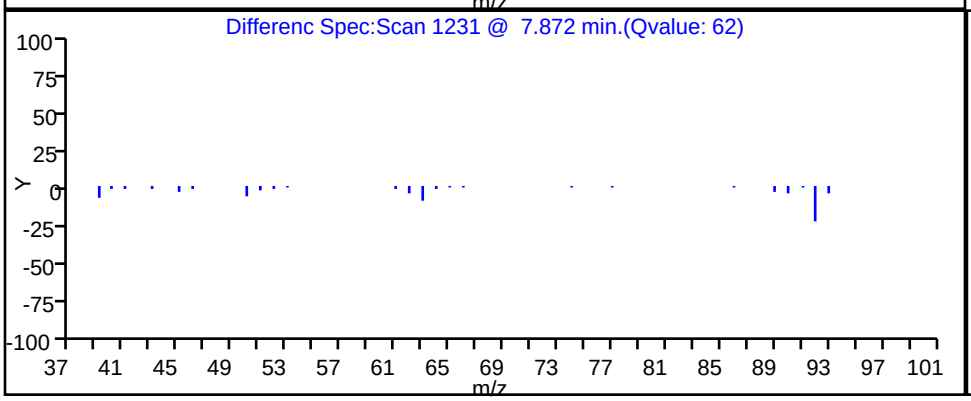


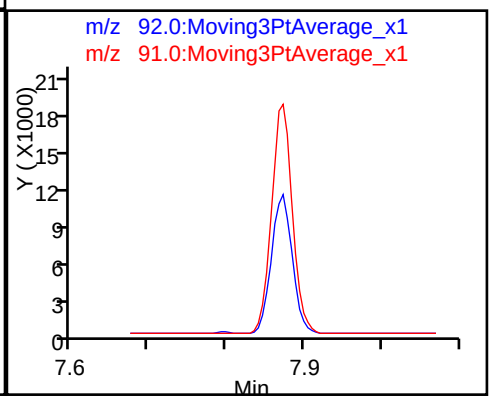












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-03-103117 | Lab Sample ID: 500-136532-2

Matrix: Water | Lab File ID: 500-136532-a-2.d

Analysis Method: 8260B | Date Collected: 10/31/2017 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 11/08/2017 18:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 408934 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	<1.0		1.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46
79-00-5	1,1,2-Trichloroethane	<1.0		1.0	0.35
75-34-3	1,1-Dichloroethane	<1.0		1.0	0.41
75-35-4	1,1-Dichloroethene	<1.0		1.0	0.39
120-82-1	1,2,4-Trichlorobenzene	<1.0		1.0	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0
106-93-4	1,2-Dibromoethane	<1.0		1.0	0.39
95-50-1	1,2-Dichlorobenzene	<1.0		1.0	0.33
107-06-2	1,2-Dichloroethane	<1.0		1.0	0.39
78-87-5	1,2-Dichloropropane	<1.0		1.0	0.43
541-73-1	1,3-Dichlorobenzene	<1.0		1.0	0.40
106-46-7	1,4-Dichlorobenzene	<1.0		1.0	0.36
591-78-6	2-Hexanone	<5.0		5.0	1.6
67-64-1	Acetone	40		5.0	1.7
71-43-2	Benzene	<0.50		0.50	0.15
75-27-4	Bromodichloromethane	<1.0		1.0	0.37
75-25-2	Bromoform	<1.0		1.0	0.48
74-83-9	Bromomethane	<2.0		2.0	0.80
75-15-0	Carbon disulfide	<2.0		2.0	0.45
56-23-5	Carbon tetrachloride	<1.0		1.0	0.38
108-90-7	Chlorobenzene	<1.0		1.0	0.39
75-00-3	Chloroethane	<1.0		1.0	0.51
67-66-3	Chloroform	1.1	J	2.0	0.37
74-87-3	Chloromethane	<1.0		1.0	0.32
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0	0.42
110-82-7	Cyclohexane	<1.0		1.0	0.49
124-48-1	Dibromochloromethane	<1.0		1.0	0.49
75-71-8	Dichlorodifluoromethane	<2.0		2.0	0.67
100-41-4	Ethylbenzene	<0.50		0.50	0.18
98-82-8	Isopropylbenzene	<1.0		1.0	0.39
79-20-9	Methyl acetate	<5.0		5.0	2.0
78-93-3	Methyl Ethyl Ketone	<5.0		5.0	2.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-03-103117 | Lab Sample ID: 500-136532-2

Matrix: Water | Lab File ID: 500-136532-a-2.d

Analysis Method: 8260B | Date Collected: 10/31/2017 08:25

Sample wt/vol: 5(mL) | Date Analyzed: 11/08/2017 18:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 408934 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-10-1	methyl isobutyl ketone	<5.0		5.0	2.2
1634-04-4	Methyl tert-butyl ether	<1.0		1.0	0.39
108-87-2	Methylcyclohexane	<1.0		1.0	0.32
75-09-2	Methylene Chloride	<5.0		5.0	1.6
100-42-5	Styrene	<1.0		1.0	0.39
127-18-4	Tetrachloroethene	<1.0		1.0	0.37
108-88-3	Toluene	<0.50		0.50	0.15
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0	0.35
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0	0.36
79-01-6	Trichloroethene	<0.50		0.50	0.16
75-69-4	Trichlorofluoromethane	<1.0		1.0	0.43
75-01-4	Vinyl chloride	<0.50		0.50	0.20
1330-20-7	Xylenes, Total	<1.0		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		75-126
460-00-4	4-Bromofluorobenzene (Surr)	93		72-124
1868-53-7	Dibromofluoromethane	93		75-120
2037-26-5	Toluene-d8 (Surr)	88		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-2.d
Lims ID: 500-136532-A-2
Client ID: CRMS-SW-03-103117
Sample Type: Client
Inject. Date: 08-Nov-2017 18:39:30 ALS Bottle#: 24 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136532-a-2
Misc. Info.: 500-0048906-016
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 09-Nov-2017 09:23:51 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: huntjj Date: 09-Nov-2017 09:23:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
14 Acetone	43	3.255	3.256	-0.001	98	27850	39.9	
* 22 TBA-d9 (IS)	65	3.737	3.742	-0.005	0	127531	1000.0	
41 Chloroform	83	5.294	5.294	0.000	74	8431	1.14	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	187058	46.3	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	177163	44.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	762665	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	16794	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	697845	43.8	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	86	581911	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	95	280628	46.4	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	94	306689	50.0	

Reagents:

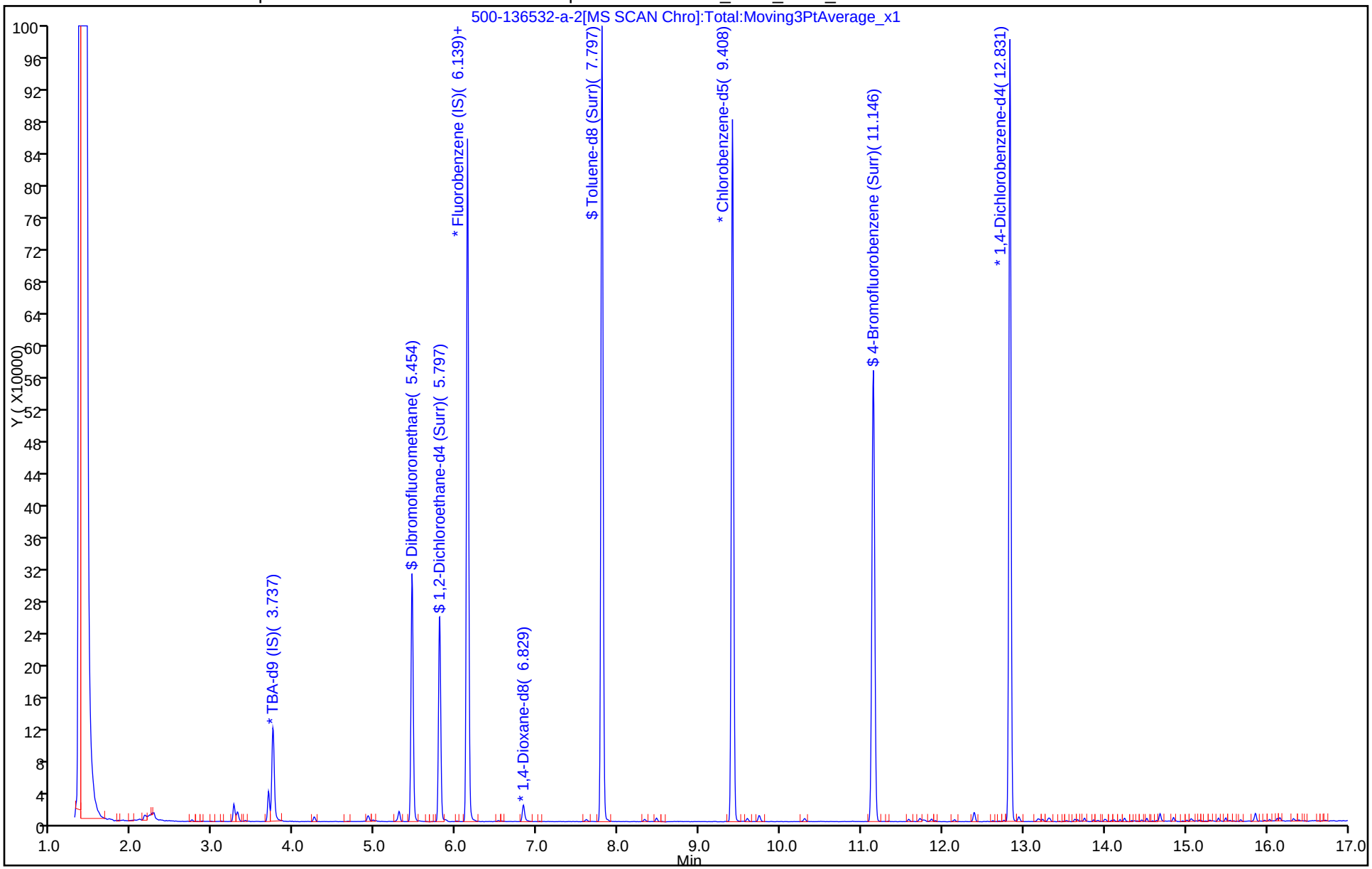
8260LOW IS/SS_00156 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Nov-2017 09:23:52 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-2.d

Injection Date:	08-Nov-2017 18:39:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	500-136532-A-2	Lab Sample ID:	500-136532-2	Worklist Smp#:	16
Client ID:	CRMS-SW-03-103117				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-2.d
Lims ID: 500-136532-A-2
Client ID: CRMS-SW-03-103117
Sample Type: Client
Inject. Date: 08-Nov-2017 18:39:30 ALS Bottle#: 24 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136532-a-2
Misc. Info.: 500-0048906-016
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 09-Nov-2017 09:23:51 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: huntjj Date: 09-Nov-2017 09:23:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	46.3	92.69
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	44.9	89.80
$ 70 Toluene-d8 (Surr)	50.0	43.8	87.56
$ 92 4-Bromofluorobenzene (Surr)	50.0	46.4	92.73

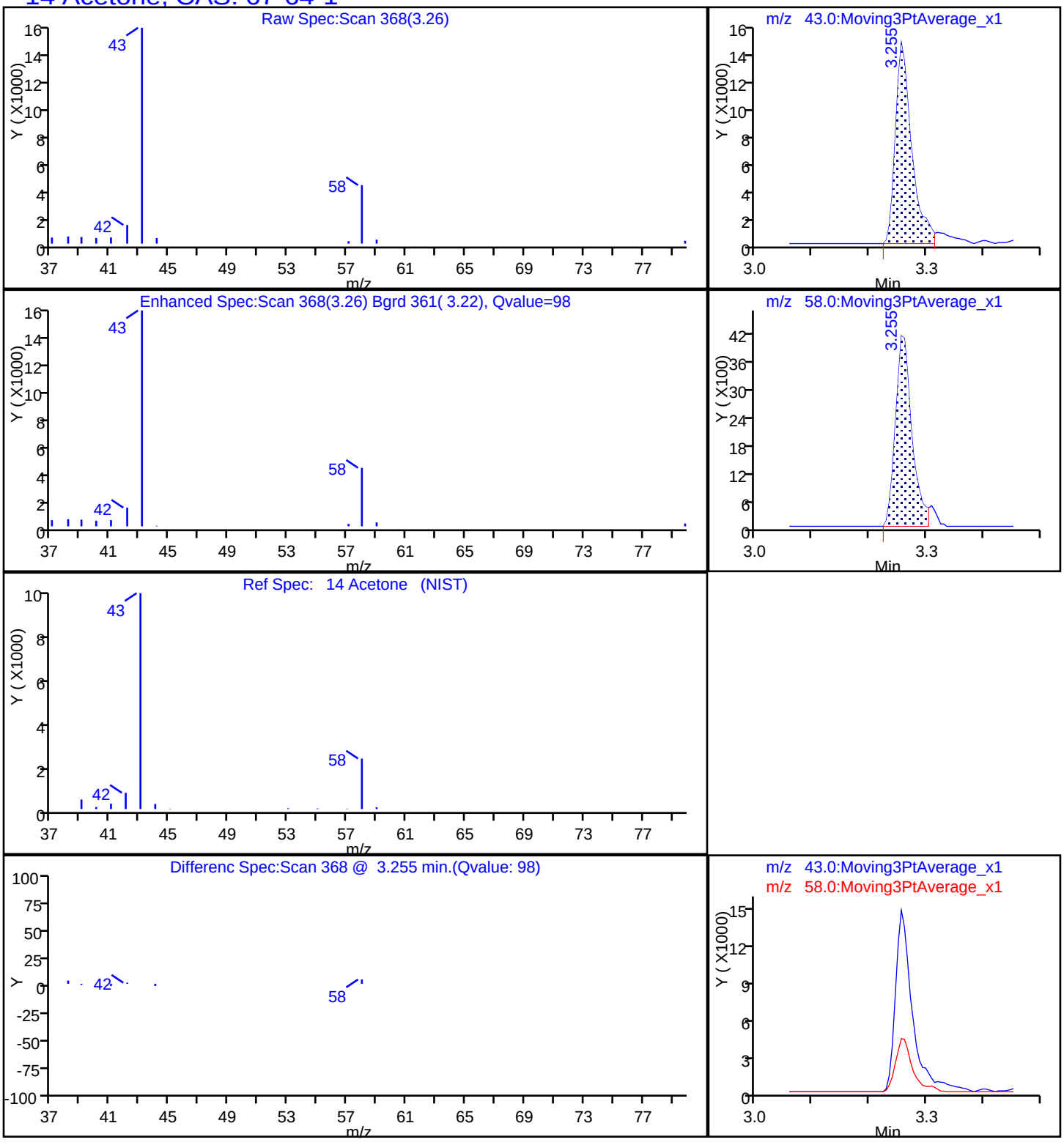
Report Date: 09-Nov-2017 09:23:52 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-2.d

Injection Date:	08-Nov-2017 18:39:30	Instrument ID:	CMS18
Lims ID:	500-136532-A-2	Lab Sample ID:	500-136532-2
Client ID:	CRMS-SW-03-103117		
Operator ID:	JH	ALS Bottle#:	24 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER
Column:		Detector	MS SCAN

14 Acetone, CAS: 67-64-1



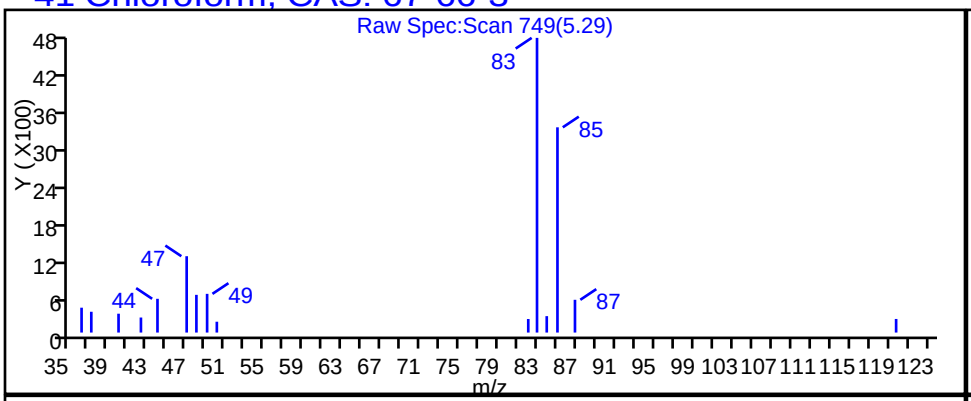
Report Date: 09-Nov-2017 09:23:52 Chrom Revision: 2.2 16-Aug-2017 16:24:46

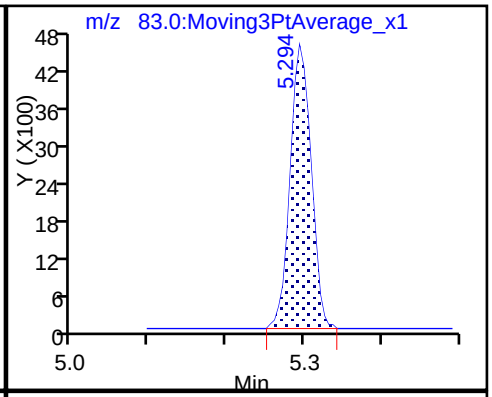
TestAmerica Chicago

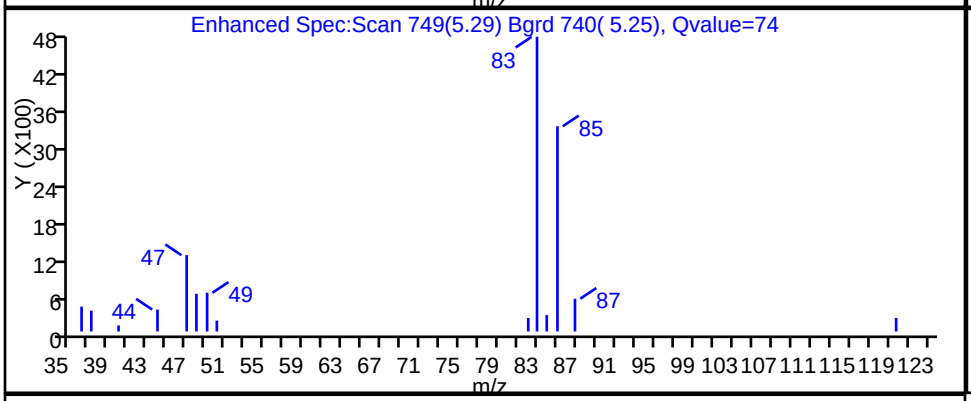
Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-2.d

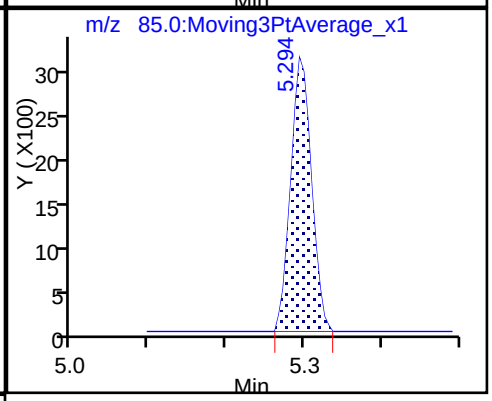
Injection Date:	08-Nov-2017 18:39:30	Instrument ID:	CMS18
Lims ID:	500-136532-A-2	Lab Sample ID:	500-136532-2
Client ID:	CRMS-SW-03-103117		
Operator ID:	JH	ALS Bottle#:	24 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER
Column:		Detector	MS SCAN

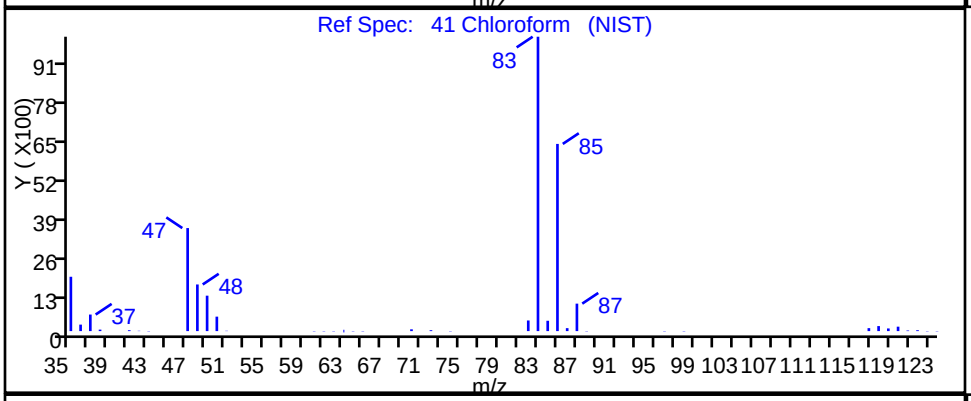
41 Chloroform, CAS: 67-66-3

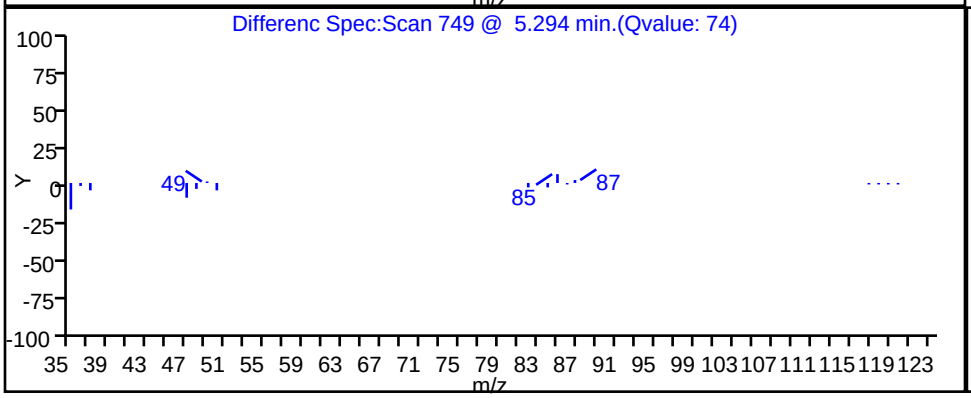


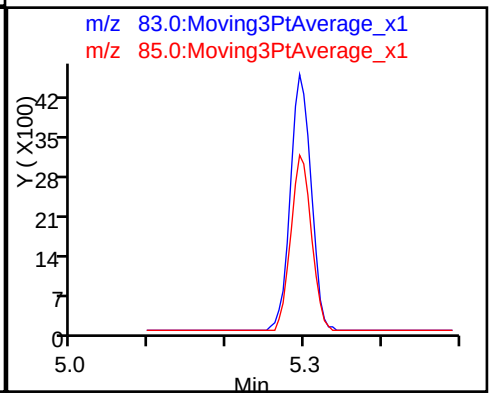












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 500-136532-3

Matrix: Water | Lab File ID: 500-136532-a-3.d

Analysis Method: 8260B | Date Collected: 10/31/2017 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 11/08/2017 19:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 408934 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	<1.0		1.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46
79-00-5	1,1,2-Trichloroethane	<1.0		1.0	0.35
75-34-3	1,1-Dichloroethane	<1.0		1.0	0.41
75-35-4	1,1-Dichloroethene	<1.0		1.0	0.39
120-82-1	1,2,4-Trichlorobenzene	<1.0		1.0	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0
106-93-4	1,2-Dibromoethane	<1.0		1.0	0.39
95-50-1	1,2-Dichlorobenzene	<1.0		1.0	0.33
107-06-2	1,2-Dichloroethane	<1.0		1.0	0.39
78-87-5	1,2-Dichloropropane	<1.0		1.0	0.43
541-73-1	1,3-Dichlorobenzene	<1.0		1.0	0.40
106-46-7	1,4-Dichlorobenzene	<1.0		1.0	0.36
591-78-6	2-Hexanone	<5.0		5.0	1.6
67-64-1	Acetone	<5.0		5.0	1.7
71-43-2	Benzene	<0.50		0.50	0.15
75-27-4	Bromodichloromethane	<1.0		1.0	0.37
75-25-2	Bromoform	<1.0		1.0	0.48
74-83-9	Bromomethane	<2.0		2.0	0.80
75-15-0	Carbon disulfide	<2.0		2.0	0.45
56-23-5	Carbon tetrachloride	<1.0		1.0	0.38
108-90-7	Chlorobenzene	<1.0		1.0	0.39
75-00-3	Chloroethane	<1.0		1.0	0.51
67-66-3	Chloroform	<2.0		2.0	0.37
74-87-3	Chloromethane	<1.0		1.0	0.32
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0	0.42
110-82-7	Cyclohexane	<1.0		1.0	0.49
124-48-1	Dibromochloromethane	<1.0		1.0	0.49
75-71-8	Dichlorodifluoromethane	<2.0		2.0	0.67
100-41-4	Ethylbenzene	<0.50		0.50	0.18
98-82-8	Isopropylbenzene	<1.0		1.0	0.39
79-20-9	Methyl acetate	<5.0		5.0	2.0
78-93-3	Methyl Ethyl Ketone	<5.0		5.0	2.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 500-136532-3

Matrix: Water | Lab File ID: 500-136532-a-3.d

Analysis Method: 8260B | Date Collected: 10/31/2017 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 11/08/2017 19:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 408934 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-10-1	methyl isobutyl ketone	<5.0		5.0	2.2
1634-04-4	Methyl tert-butyl ether	<1.0		1.0	0.39
108-87-2	Methylcyclohexane	<1.0		1.0	0.32
75-09-2	Methylene Chloride	<5.0		5.0	1.6
100-42-5	Styrene	<1.0		1.0	0.39
127-18-4	Tetrachloroethene	<1.0		1.0	0.37
108-88-3	Toluene	<0.50		0.50	0.15
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0	0.35
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0	0.36
79-01-6	Trichloroethene	<0.50		0.50	0.16
75-69-4	Trichlorofluoromethane	<1.0		1.0	0.43
75-01-4	Vinyl chloride	<0.50		0.50	0.20
1330-20-7	Xylenes, Total	<1.0		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		75-126
460-00-4	4-Bromofluorobenzene (Surr)	95		72-124
1868-53-7	Dibromofluoromethane	90		75-120
2037-26-5	Toluene-d8 (Surr)	90		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-3.d
Lims ID: 500-136532-A-3
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 08-Nov-2017 19:04:30 ALS Bottle#: 25 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136532-a-3
Misc. Info.: 500-0048906-017
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 09-Nov-2017 09:24:32 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: huntjj Date: 09-Nov-2017 09:24:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 22 TBA-d9 (IS)	65	3.737	3.742	-0.005	0	129563	1000.0	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	62	186583	44.8	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.791	5.797	-0.006	0	177252	43.5	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	787555	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	16387	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	95	746364	45.1	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	604595	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	93	270535	47.4	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	95	289071	50.0	

Reagents:

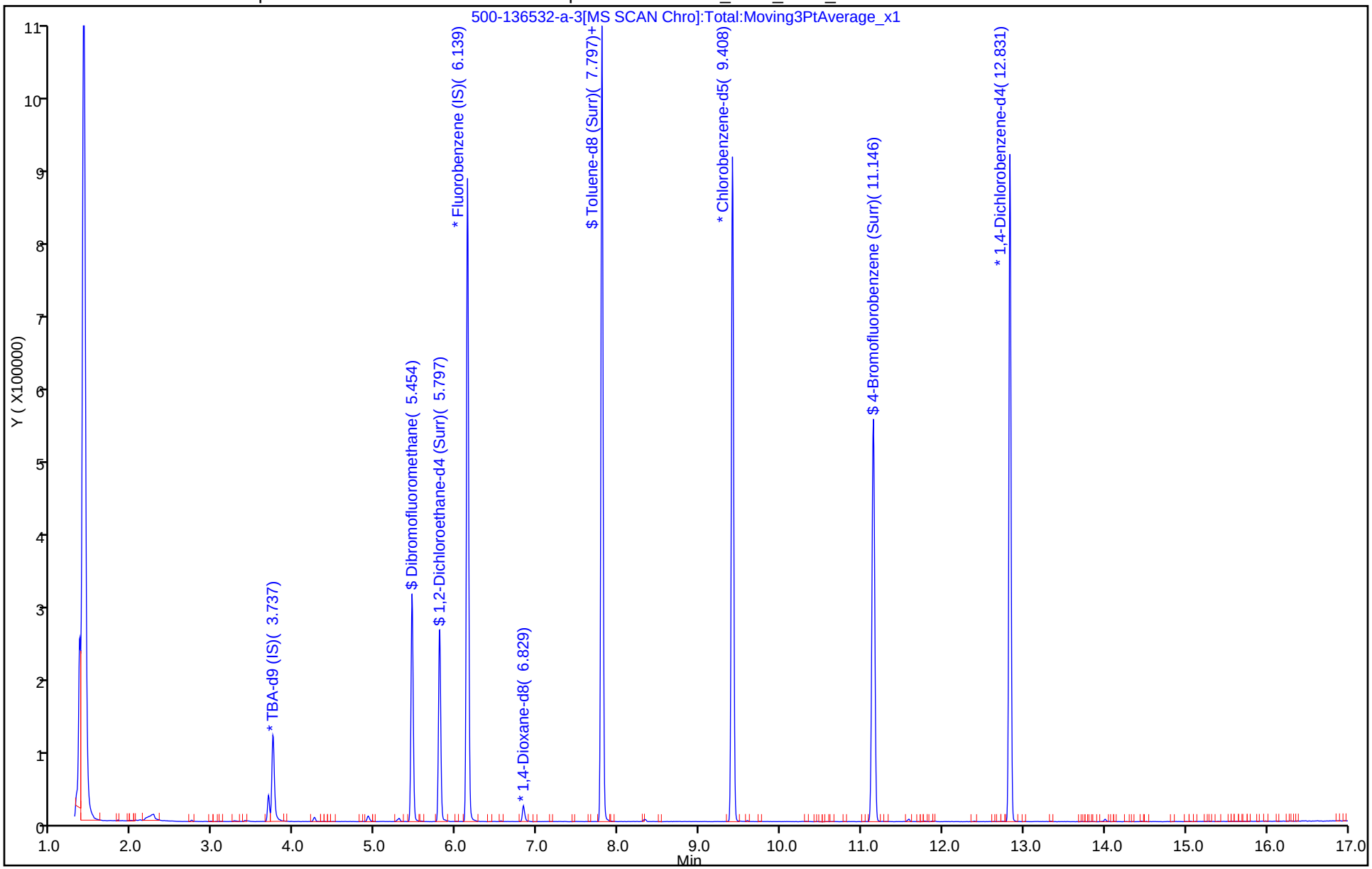
8260LOW IS/SS_00156 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Nov-2017 09:24:32 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-3.d

Injection Date:	08-Nov-2017 19:04:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	500-136532-A-3	Lab Sample ID:	500-136532-3	Worklist Smp#:	17
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\500-136532-a-3.d
Lims ID: 500-136532-A-3
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 08-Nov-2017 19:04:30 ALS Bottle#: 25 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136532-a-3
Misc. Info.: 500-0048906-017
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 09-Nov-2017 09:24:32 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: huntjj Date: 09-Nov-2017 09:24:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	44.8	89.53
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	43.5	87.01
$ 70 Toluene-d8 (Surr)	50.0	45.1	90.14
$ 92 4-Bromofluorobenzene (Surr)	50.0	47.4	94.85

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.2563	0.3394	0.2763 0.3309	0.2725 0.3258	0.2605 0.3368	Ave		0.2998			0.0100	12.2		15.0			
Chloromethane	0.3769	0.4202	0.5183 0.4228	0.4479 0.4168	0.3821 0.4398	Ave		0.4281			0.1000	10.3		15.0			
Vinyl chloride	0.6443 0.3447	0.4478 0.3806	0.4231 0.3794	0.4209 0.3772	0.3436 0.3894	Lin2	0.0640	0.3653			0.0100				0.9940		0.9900
Butadiene	0.3715	0.4146	0.5076 0.4187	0.4019 0.4189	0.3750 0.4354	Ave		0.4180			0.0100	10.2		15.0			
Bromomethane	0.1180	0.1199	0.1885 0.1216	0.1622 0.1212	0.1298 0.1320	Lin2	0.0692	0.1212			0.0100				0.9970		0.9900
Chloroethane	0.1749	0.1689	0.2198 0.1741	0.1800 0.1747	0.1802 0.1902	Ave		0.1829			0.0100	8.9		15.0			
Dichlorofluoromethane	0.4823	0.4879	0.6069 0.4844	0.5329 0.4748	0.5092 0.4956	Ave		0.5092			0.0100	8.6		15.0			
Trichlorofluoromethane	0.4318	0.4583	0.5418 0.4475	0.5271 0.4452	0.4317 0.4600	Ave		0.4679			0.0100	9.1		15.0			
Ethyl ether	0.1981	0.2033	0.1950 0.2129	0.2077 0.2103	0.1937 0.2122	Ave		0.2041			0.0100	3.8		15.0			
Acrolein	0.0190	0.0199	0.0198 0.0201	0.0184 0.0201	0.0176 0.0207	Ave		0.0195			0.0010	5.2		15.0			
1,1-Dichloroethene	0.2811	0.2854	0.2795 0.2861	0.3079 0.2913	0.2831 0.2900	Ave		0.2881			0.0100	3.1		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2975	0.3087	0.3166 0.3021	0.3127 0.3007	0.2820 0.3045	Ave		0.3031			0.0100	3.5		15.0			
Acetone	0.0420	0.0428	+++++ 0.0444	+++++ 0.0442	0.0552 0.0457	Ave		0.0457			0.0100	10.6		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Iodomethane	0.5137	0.5304	0.5282 0.5377	0.5743 0.5391	0.4895 0.5375	Ave		0.5313			0.0100	4.5		15.0			
Carbon disulfide	0.8819	0.9435	0.9975 0.9654	0.9479 0.9576	0.8528 0.9591	Ave		0.9382			0.0100	5.0		15.0			
3-Chloropropene	0.1683	0.1745	0.1800 0.1677	0.1803 0.1700	0.1660 0.1632	Ave		0.1713			0.0100	3.7		15.0			
Methyl acetate	0.1148	0.1152	0.1275 0.1234	0.1294 0.1211	0.1098 0.1242	Ave		0.1207			0.0100	5.7		15.0			
Methylene Chloride	0.2756	0.2786	+++++ 0.2767	+++++ 0.2768	0.2792 0.2744	Ave		0.2769			0.0100	0.7		15.0			
tert-Butyl alcohol	1.2676	1.1675	+++++ 1.2540	1.2936 1.2208	1.0837 1.2206	Ave		1.2154			0.0100	5.8		15.0			
Acrylonitrile	0.0591	0.0607	0.0724 0.0632	0.0682 0.0629	0.0552 0.0645	Ave		0.0633			0.0010	8.4		15.0			
trans-1,2-Dichloroethene	0.3031	0.3087	0.3351 0.3038	0.3406 0.3015	0.2951 0.3003	Ave		0.3110			0.0100	5.5		15.0			
Methyl tert-butyl ether	0.5218	0.5246	0.6455 0.5374	0.5494 0.5315	0.4843 0.5384	Ave		0.5416			0.0100	8.5		15.0			
Hexane	0.5291	0.5580	0.6150 0.5602	0.5928 0.5693	0.5108 0.5700	Ave		0.5632			0.0100	5.8		15.0			
1,1-Dichloroethane	0.5784	0.5787	0.6132 0.5921	0.6273 0.5989	0.5447 0.5980	Ave		0.5914			0.1000	4.2		15.0			
Vinyl acetate	0.3416	0.3428	0.3961 0.3572	0.3940 0.3799	0.3243 0.3902	Ave		0.3658			0.0100	7.6		15.0			
2,2-Dichloropropane	0.3427	0.3427	0.3777 0.3327	0.3861 0.3232	0.3438 0.3157	Ave		0.3456			0.0100	7.1		15.0			
cis-1,2-Dichloroethene	0.3196	0.3198	0.3554 0.3221	0.3319 0.3216	0.3023 0.3211	Ave		0.3242			0.0100	4.6		15.0			
Methyl Ethyl Ketone	0.0656	0.0666	+++++ 0.0640	+++++ 0.0649	0.0663 0.0669	Ave		0.0657			0.0100	1.7		15.0			
Bromochloromethane	0.1287	0.1275	0.1387 0.1347	0.1375 0.1326	0.1258 0.1340	Ave		0.1324			0.0100	3.6		15.0			
Tetrahydrofuran	0.0459	0.0425	+++++ 0.0440	0.0737 0.0442	0.0481 0.0454	Lin2	0.1149	0.0426			0.0100				0.9940		0.9900
Chloroform	0.4647	0.4647	0.5717 0.4716	0.5087 0.4801	0.4443 0.4794	Ave		0.4856			0.0100	8.1		15.0			
1,1,1-Trichloroethane	0.4212	0.4351	0.4907 0.4387	0.4556 0.4322	0.4060 0.4354	Ave		0.4394			0.0100	5.7		15.0			
Cyclohexane	0.6788	0.7017	0.7423 0.7013	0.7140 0.7053	0.6763 0.7151	Ave		0.7044			0.0100	3.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,1-Dichloropropene	0.3718	0.3763	0.3969 0.3746	0.4013 0.3796	0.3616 0.3760	Ave		0.3798			0.0100	3.5		15.0			
Carbon tetrachloride	0.3723	0.3948	0.4093 0.4005	0.3837 0.4026	0.3594 0.4022	Ave		0.3906			0.0100	4.4		15.0			
Isobutyl alcohol	0.5452	0.5399	+++++ 0.5804	0.6087 0.5609	0.4962 0.5732	Ave		0.5578			0.0010	6.4		15.0			
Benzene	1.1020 1.0510	1.1090 1.0571	1.1657 1.0765	1.1478 1.0894	1.0160 1.0740	Ave		1.0889			0.0100	4.1		15.0			
1,2-Dichloroethane	0.3228	0.3237	0.3511 0.3362	0.3456 0.3373	0.2954 0.3409	Ave		0.3316			0.0100	5.3		15.0			
Heptane	0.5198	0.5448	0.6117 0.5457	0.5860 0.5655	0.5250 0.5600	Ave		0.5573			0.0100	5.5		15.0			
Trichloroethene	0.3246 0.3035	0.3380 0.3050	0.3393 0.3093	0.3082 0.3136	0.2826 0.3125	Ave		0.3137			0.0100	5.4		15.0			
Methylcyclohexane	0.5798	0.5851	0.6265 0.5773	0.6212 0.5767	0.5645 0.5727	Ave		0.5880			0.0100	3.9		15.0			
1,2-Dichloropropane	0.2730	0.2780	0.3336 0.2831	0.2936 0.2914	0.2640 0.2899	Ave		0.2883			0.0100	7.2		15.0			
Dibromomethane	0.1115	0.1136	0.1308 0.1162	0.1249 0.1176	0.1027 0.1175	Ave		0.1168			0.0100	7.2		15.0			
1,4-Dioxane	1.2278	1.0540	+++++ 1.1060	+++++ 1.1021	1.1710 0.9575	Ave		1.1030			0.0010	8.5		15.0			
Bromodichloromethane	0.2711	0.2819	0.3396 0.2925	0.2705 0.3049	0.2618 0.3052	Ave		0.2909			0.0100	8.7		15.0			
2-Chloroethyl vinyl ether	0.1297	0.1258	0.1590 0.1316	0.1414 0.1343	0.1200 0.1368	Ave		0.1348			0.0100	8.7		15.0			
cis-1,3-Dichloropropene	0.4831	0.4864	0.5389 0.5056	0.4865 0.5178	0.4376 0.5133	Ave		0.4961			0.0100	6.1		15.0			
methyl isobutyl ketone	0.2069	0.2044	+++++ 0.2063	+++++ 0.2068	0.2041 0.2110	Ave		0.2066			0.0100	1.2		15.0			
Toluene	1.0019 0.8786	0.8502 0.8647	1.1068 0.9041	0.9279 0.9146	0.8261 0.9009	Ave		0.9176			0.0100	9.0		15.0			
trans-1,3-Dichloropropene	0.3841	0.3771	0.4853 0.3941	0.4035 0.3975	0.3709 0.3974	Ave		0.4013			0.0100	8.9		15.0			
Ethyl methacrylate	0.2716	0.2543	0.3947 0.2639	0.2953 0.2609	0.2680 0.2612	Lin2	0.1255	0.2556			0.0100				0.9970		0.9900
1,1,2-Trichloroethane	0.2049	0.1972	0.2899 0.2111	0.2231 0.2111	0.2052 0.2119	Ave		0.2193			0.0100	13.4		15.0			
Tetrachloroethene	0.4383	0.4390	0.4991 0.4407	0.4633 0.4517	0.4079 0.4402	Ave		0.4475			0.0100	5.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,3-Dichloropropane	0.3646	0.3527	0.4398 0.3661	0.4053 0.3689	0.3567 0.3613	Ave		0.3769			0.0100	8.0		15.0			
2-Hexanone	0.1399	0.1394	+++++ 0.1347	+++++ 0.1331	0.1395 0.1350	Ave		0.1369			0.0100	2.2		15.0			
Dibromochloromethane	0.2520	0.2659	0.3108 0.2845	0.2706 0.2908	0.2380 0.2922	Ave		0.2756			0.0100	8.6		15.0			
1,2-Dibromoethane	0.2115	0.2080	0.2577 0.2165	0.2505 0.2169	0.2056 0.2169	Ave		0.2229			0.0100	8.9		15.0			
Chlorobenzene	1.0275	1.0319	1.4344 1.0408	1.1391 1.0662	1.0054 1.0331	Ave		1.0973			0.3000	12.9		15.0			
1,1,1,2-Tetrachloroethane	0.3664	0.3669	0.4798 0.3878	0.3734 0.3981	0.3308 0.3897	Ave		0.3866			0.0100	11.1		15.0			
Ethylbenzene	0.6855 0.5923	0.5705 0.5878	0.8053 0.5894	0.6239 0.5994	0.5487 0.5817	Ave		0.6185			0.0100	12.1		15.0			
m&p-Xylene	1.5249 1.4150	1.3655 1.4041	1.9679 1.4145	1.5125 1.4143	1.3553 1.3797	Ave		1.4754			0.0100	12.3		15.0			
o-Xylene	1.5071 1.4515	1.4731 1.4611	2.0033 1.4713	1.5498 1.4727	1.4190 1.4309	Ave		1.5240			0.0100	11.3		15.0			
Styrene	1.1285	1.1116	1.5211 1.1310	1.2539 1.1347	1.0477 1.1052	Ave		1.1792			0.0100	12.7		15.0			
Bromoform	0.1413	0.1480	0.1741 0.1675	0.1455 0.1674	0.1252 0.1731	Ave		0.1553			0.1000	11.5		15.0			
Isopropylbenzene	3.4858	3.4318	4.7871 3.5483	3.8520 3.6788	3.4508 3.5404	Ave		3.7219			0.0100	12.1		15.0			
Bromobenzene	0.8249	0.7952	1.1282 0.8286	0.9218 0.8614	0.8321 0.8369	Ave		0.8786			0.0100	12.2		15.0			
1,1,2,2-Tetrachloroethane	0.4176	0.3950	0.6101 0.4272	0.5029 0.4304	0.4246 0.4286	Lin2	0.1908	0.4118			0.3000				0.9980		0.9900
1,2,3-Trichloropropane	0.4598	0.4474	0.4833 0.4716	0.5363 0.4916	0.4380 0.4934	Ave		0.4777			0.0100	6.5		15.0			
trans-1,4-Dichloro-2-butene	0.1557	0.1572	0.2023 0.1661	0.1751 0.1725	0.1549 0.1686	Ave		0.1690			0.0100	9.2		15.0			
N-Propylbenzene	4.1730	4.0181	5.9603 4.1230	4.5582 4.2110	4.1286 4.0344	Ave		4.4008			0.0100	14.8		15.0			
2-Chlorotoluene	2.3608	2.2755	3.5155 2.3483	2.6681 2.4381	2.3146 2.3571	Lin2	1.1057	2.2871			0.0100				0.9960		0.9900
1,3,5-Trimethylbenzene	3.0006	2.9176	4.0621 2.9766	3.1731 3.0475	2.9517 2.9124	Ave		3.1302			0.0100	12.3		15.0			
4-Chlorotoluene	2.7397	2.6230	3.8726 2.6788	3.2077 2.7557	2.7267 2.6632	Ave		2.9084			0.0100	14.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
tert-Butylbenzene	2.7957	2.7280	3.8556 2.8292	3.0764 2.8711	2.7159 2.7740	Ave		2.9557			0.0100	12.9		15.0			
1,2,4-Trimethylbenzene	3.0510	2.9799	4.0948 3.0662	3.3442 3.1285	3.0123 3.0075	Ave		3.2106			0.0100	11.7		15.0			
sec-Butylbenzene	4.0434	3.9618	5.5245 4.0653	4.3376 4.0750	3.9862 3.8786	Ave		4.2340			0.0100	12.7		15.0			
1,3-Dichlorobenzene	1.6954	1.6204	2.3626 1.7009	1.9612 1.7423	1.6346 1.6838	Ave		1.8001			0.0100	13.9		15.0			
p-Isopropyltoluene	3.5794	3.5003	4.7008 3.6040	3.7244 3.6277	3.4852 3.4269	Ave		3.7061			0.0100	11.1		15.0			
1,4-Dichlorobenzene	1.6607	1.5874	2.3665 1.6551	1.7827 1.6954	1.5578 1.6453	Ave		1.7439			0.0100	14.9		15.0			
1,2-Dichlorobenzene	1.4458	1.3925	2.0122 1.4527	1.6010 1.4736	1.3839 1.4169	Ave		1.5223			0.0100	13.7		15.0			
n-Butylbenzene	3.0890	3.0487	4.1233 3.1541	3.3676 3.1271	2.9788 2.9340	Ave		3.2278			0.0100	11.9		15.0			
1,2-Dibromo-3-Chloropropane	0.0616	0.0604	+++++ 0.0679	0.0605 0.0666	0.0687 0.0672	Ave		0.0647			0.0100	5.7		15.0			
1,2,4-Trichlorobenzene	0.9906	0.9766	1.2998 1.0368	1.0997 1.0207	0.9163 0.9451	Ave		1.0357			0.0100	11.7		15.0			
Hexachlorobutadiene	0.6766	0.6718	0.9377 0.6861	0.7609 0.6653	0.6604 0.6196	Ave		0.7098			0.0100	14.1		15.0			
Naphthalene	1.3507	1.3955	1.7701 1.5273	1.4909 1.4907	1.2240 1.4032	Ave		1.4566			0.0100	10.9		15.0			
1,2,3-Trichlorobenzene	0.7587	0.7559	1.0106 0.8093	0.8590 0.7879	0.6934 0.7184	Ave		0.7991			0.0100	12.5		15.0			
Dibromofluoromethane	0.2532	0.2633	0.2680	0.2726	0.2660	Ave		0.2646			0.0100	2.7		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2506	0.2542	0.2589	0.2646	0.2651	Ave		0.2587			0.0100	2.5		15.0			
Toluene-d8 (Surr)	1.3204	1.3563	1.3963	1.4034	1.3716	Ave		1.3696			0.0100	2.4		15.0			
4-Bromofluorobenzene (Surr)	0.9932	0.9432	0.9876	1.0243	0.9854	Ave		0.9867			0.0100	2.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave	81700	272116	4494 527601	8617 775138	20730 1061995	20.0	50.0	1.00 100	2.00 150	5.00 200
Chloromethane	FB	Ave	120142	336875	8429 674171	14166 991831	30407 1386497	20.0	50.0	1.00 100	2.00 150	5.00 200
Vinyl chloride	FB	Lin2	2527 109889	3516 305131	6881 604942	13310 897571	27348 1227798	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
Butadiene	FB	Ave	118412	332358	8254 667705	12711 996872	29843 1372905	20.0	50.0	1.00 100	2.00 150	5.00 200
Bromomethane	FB	Lin2	37607	96111	3065 193959	5130 288419	10328 416245	20.0	50.0	1.00 100	2.00 150	5.00 200
Chloroethane	FB	Ave	55755	135433	3574 277550	5694 415683	14338 599785	20.0	50.0	1.00 100	2.00 150	5.00 200
Dichlorofluoromethane	FB	Ave	153756	391107	9870 772426	16853 1129805	40525 1562454	20.0	50.0	1.00 100	2.00 150	5.00 200
Trichlorofluoromethane	FB	Ave	137633	367395	8810 713643	16670 1059463	34360 1450310	20.0	50.0	1.00 100	2.00 150	5.00 200
Ethyl ether	FB	Ave	63149	162953	3171 339452	6568 500438	15420 668978	20.0	50.0	1.00 100	2.00 150	5.00 200
Acrolein	FB	Ave	242776	637851	12902 1281902	23332 1915013	56091 2604613	800	2000	40.0 4000	80.0 6000	200 8000
1,1-Dichloroethene	FB	Ave	89606	228803	4546 456181	9738 693260	22528 914221	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	94835	247497	5148 481780	9888 715425	22445 960098	20.0	50.0	1.00 100	2.00 150	5.00 200
Acetone	FB	Ave	13388	34308	+++++ 70846	+++++ 105095	4395 144039	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Iodomethane	FB	Ave	163760	425176	8590 857408	18163 1282816	38958 1694761	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Carbon disulfide	FB	Ave	281113	756356	16222 1539407	29977 2278552	67873 3024082	20.0	50.0	1.00 100	2.00 150	5.00 200
3-Chloropropene	FB	Ave	53644	139927	2927 267341	5703 404491	13211 514612	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl acetate	FB	Ave	182964	461931	10371 983993	20462 1441283	43681 1958229	100	250	5.00 500	10.0 750	25.0 1000
Methylene Chloride	FB	Ave	87843	223357	+++++ 441233	+++++ 658706	22221 865146	20.0	50.0	+++++ 100	+++++ 150	5.00 200
tert-Butyl alcohol	TBAd9	Ave	44126	105305	+++++ 221896	4975 330674	9504 439795	200	500	+++++ 1000	20.0 1500	50.0 2000
Acrylonitrile	FB	Ave	188336	486981	11780 1008539	21559 1497067	43933 2032201	200	500	10.0 1000	20.0 1500	50.0 2000
trans-1,2-Dichloroethene	FB	Ave	96622	247445	5450 484469	10772 717405	23487 946972	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl tert-butyl ether	FB	Ave	166346	420529	10497 856864	17374 1264809	38541 1697581	20.0	50.0	1.00 100	2.00 150	5.00 200
Hexane	FB	Ave	168669	447347	10001 893243	18748 1354731	40656 1797062	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1-Dichloroethane	FB	Ave	184372	463937	9972 944075	19840 1425060	43354 1885420	20.0	50.0	1.00 100	2.00 150	5.00 200
Vinyl acetate	FB	Ave	108899	274781	6442 569580	12460 904001	25808 1230286	20.0	50.0	1.00 100	2.00 150	5.00 200
2,2-Dichloropropane	FB	Ave	109238	274726	6142 530587	12209 768970	27362 995454	20.0	50.0	1.00 100	2.00 150	5.00 200
cis-1,2-Dichloroethene	FB	Ave	101874	256370	5779 513610	10495 765209	24059 1012515	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl Ethyl Ketone	FB	Ave	20908	53426	+++++ 102095	+++++ 154325	5274 211058	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Bromochloromethane	FB	Ave	41021	102218	2256 214726	4347 315622	10011 422477	20.0	50.0	1.00 100	2.00 150	5.00 200
Tetrahydrofuran	FB	Lin2	29255	68078	+++++ 140204	4660 210363	7654 286010	40.0	100	+++++ 200	4.00 300	10.0 400
Chloroform	FB	Ave	148141	372573	9297 752011	16087 1142376	35358 1511411	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,1-Trichloroethane	FB	Ave	134251	348782	7980 699595	14409 1028320	32311 1372930	20.0	50.0	1.00 100	2.00 150	5.00 200
Cyclohexane	FB	Ave	216395	562502	12072 1118318	22582 1678279	53827 2254682	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1-Dichloropropene	FB	Ave	118509	301684	6454 597260	12691 903310	28779 1185625	20.0	50.0	1.00 100	2.00 150	5.00 200
Carbon tetrachloride	FB	Ave	118670	316472	6656 638700	12134 957861	28600 1268130	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isobutyl alcohol	TBAd9	Ave	47449	121739	+++++ 256767	5852 379845	10878 516284	500	1250	+++++ 2500	50.0 3750	125 5000
Benzene	FB	Ave	4322 335016	8707 847471	18957 1716482	36301 2592258	80864 3386318	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
1,2-Dichloroethane	FB	Ave	102909	259491	5710 536135	10930 802623	23507 1074681	20.0	50.0	1.00 100	2.00 150	5.00 200
Heptane	FB	Ave	165708	436764	9948 870212	18534 1345711	41785 1765681	20.0	50.0	1.00 100	2.00 150	5.00 200
Trichloroethene	FB	Ave	1273 96750	2654 244484	5518 493280	9747 746200	22491 985429	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
Methylcyclohexane	FB	Ave	184812	469084	10188 920502	19647 1372161	44931 1805649	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dichloropropane	FB	Ave	87032	222854	5425 451436	9284 693362	21014 913964	20.0	50.0	1.00 100	2.00 150	5.00 200
Dibromomethane	FB	Ave	35538	91089	2127 185247	3949 279814	8174 370367	20.0	50.0	1.00 100	2.00 150	5.00 200
1,4-Dioxane	DXE	Ave	8563	19097	+++++ 41154	+++++ 62699	2043 79073	400	1000	+++++ 2000	+++++ 3000	100 4000
Bromodichloromethane	FB	Ave	86406	226010	5522 466445	8554 725445	20839 962188	20.0	50.0	1.00 100	2.00 150	5.00 200
2-Chloroethyl vinyl ether	CBNZ d5	Ave	29172	71633	1900 146114	3221 224705	6935 306734	20.0	50.0	1.00 100	2.00 150	5.00 200
cis-1,3-Dichloropropene	CBNZ d5	Ave	108674	276998	6440 561271	11080 866161	25285 1150948	20.0	50.0	1.00 100	2.00 150	5.00 200
methyl isobutyl ketone	CBNZ d5	Ave	46539	116399	+++++ 229053	+++++ 345903	11794 473140	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Toluene	CBNZ d5	Ave	2923 197663	4902 492442	13227 1003686	21132 1530063	47727 2020225	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
trans-1,3-Dichloropropene	CBNZ d5	Ave	86409	214741	5800 437551	9188 665032	21432 891201	20.0	50.0	1.00 100	2.00 150	5.00 200
Ethyl methacrylate	CBNZ d5	Lin2	61111	144793	4717 292943	6724 436487	15482 585681	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,2-Trichloroethane	CBNZ d5	Ave	46098	112325	3464 234406	5080 353136	11856 475288	20.0	50.0	1.00 100	2.00 150	5.00 200
Tetrachloroethene	CBNZ d5	Ave	98599	250004	5964 489260	10551 755618	23569 987214	20.0	50.0	1.00 100	2.00 150	5.00 200
1,3-Dichloropropane	CBNZ d5	Ave	82025	200846	5256 406391	9229 617105	20609 810185	20.0	50.0	1.00 100	2.00 150	5.00 200
2-Hexanone	CBNZ d5	Ave	31482	79377	+++++ 149581	+++++ 222613	8059 302771	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Dibromochloromethane	CBNZ d5	Ave	56685	151435	3714 315790	6162 486428	13753 655275	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2-Dibromoethane	CBNZ d5	Ave	 47581	 118442	3079 240318	5705 362820	11878 486421	 20.0	 50.0	1.00 100	2.00 150	5.00 200
Chlorobenzene	CBNZ d5	Ave	 231158	 587653	17142 1155483	25942 1783602	58091 2316648	 20.0	 50.0	1.00 100	2.00 150	5.00 200
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	 82427	 208912	5734 430534	8504 665912	19110 873975	 20.0	 50.0	1.00 100	2.00 150	5.00 200
Ethylbenzene	CBNZ d5	Ave	2000 133251	3289 334739	9624 654389	14208 1002770	31705 1304396	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
m&p-Xylene	CBNZ d5	Ave	4449 318336	7873 799570	23517 1570381	34445 2365982	78305 3093823	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
o-Xylene	CBNZ d5	Ave	4397 326547	8493 832050	23940 1633419	35294 2463745	81986 3208794	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
Styrene	CBNZ d5	Ave	 253871	 633051	18178 1255558	28555 1898183	60534 2478330	 20.0	 50.0	1.00 100	2.00 150	5.00 200
Bromoform	CBNZ d5	Ave	 31783	 84269	2081 185997	3313 279997	7231 388152	 20.0	 50.0	1.00 100	2.00 150	5.00 200
Isopropylbenzene	DCBd 4	Ave	 445645	 1119416	31832 2208656	49255 3320949	109768 4287635	 20.0	 50.0	1.00 100	2.00 150	5.00 200
Bromobenzene	DCBd 4	Ave	 105458	 259390	7502 515768	11787 777571	26468 1013502	 20.0	 50.0	1.00 100	2.00 150	5.00 200
1,1,2,2-Tetrachloroethane	DCBd 4	Lin2	 53394	 128840	4057 265906	6431 388572	13507 519097	 20.0	 50.0	1.00 100	2.00 150	5.00 200
1,2,3-Trichloropropane	DCBd 4	Ave	 58789	 145921	3214 293535	6858 443741	13934 597569	 20.0	 50.0	1.00 100	2.00 150	5.00 200
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	 19904	 51269	1345 103376	2239 155723	4927 204185	 20.0	 50.0	1.00 100	2.00 150	5.00 200
N-Propylbenzene	DCBd 4	Ave	 533504	 1310644	39633 2566380	58286 3801360	131329 4885915	 20.0	 50.0	1.00 100	2.00 150	5.00 200
2-Chlorotoluene	DCBd 4	Lin2	 301823	 742252	23376 1461715	34117 2200917	73626 2854571	 20.0	 50.0	1.00 100	2.00 150	5.00 200
1,3,5-Trimethylbenzene	DCBd 4	Ave	 383613	 951676	27011 1852778	40574 2751022	93893 3527054	 20.0	 50.0	1.00 100	2.00 150	5.00 200
4-Chlorotoluene	DCBd 4	Ave	 350259	 855588	25751 1667450	41017 2487588	86734 3225245	 20.0	 50.0	1.00 100	2.00 150	5.00 200
tert-Butylbenzene	DCBd 4	Ave	 357420	 889840	25638 1761077	39338 2591771	86392 3359443	 20.0	 50.0	1.00 100	2.00 150	5.00 200
1,2,4-Trimethylbenzene	DCBd 4	Ave	 390056	 972016	27228 1908558	42762 2824184	95821 3642256	 20.0	 50.0	1.00 100	2.00 150	5.00 200
sec-Butylbenzene	DCBd 4	Ave	 516926	 1292282	36735 2530460	55465 3678597	126798 4697182	 20.0	 50.0	1.00 100	2.00 150	5.00 200
1,3-Dichlorobenzene	DCBd 4	Ave	 216750	 528543	15710 1058714	25078 1572809	51997 2039179	 20.0	 50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
p-Isopropyltoluene	DCBd 4	Ave	457613	1141738	31258 2243353	47624 3274818	110862 4150107	20.0	50.0	1.00 100	2.00 150	5.00 200
1,4-Dichlorobenzene	DCBd 4	Ave	212318	517781	15736 1030219	22795 1530441	49553 1992490	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dichlorobenzene	DCBd 4	Ave	184844	454217	13380 904238	20472 1330213	44020 1715886	20.0	50.0	1.00 100	2.00 150	5.00 200
n-Butylbenzene	DCBd 4	Ave	394914	994436	27418 1963275	43061 2822903	94755 3553266	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	7872	19714	+++++ 42234	774 60110	2184 81341	20.0	50.0	+++++ 100	2.00 150	5.00 200
1,2,4-Trichlorobenzene	DCBd 4	Ave	126644	318543	8643 645373	14062 921392	29148 1144526	20.0	50.0	1.00 100	2.00 150	5.00 200
Hexachlorobutadiene	DCBd 4	Ave	86502	219148	6235 427080	9729 600596	21008 750421	20.0	50.0	1.00 100	2.00 150	5.00 200
Naphthalene	DCBd 4	Ave	172680	455189	11770 950708	19064 1345710	38936 1699293	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2,3-Trichlorobenzene	DCBd 4	Ave	96998	246565	6720 503726	10984 711241	22057 869993	20.0	50.0	1.00 100	2.00 150	5.00 200
Dibromofluoromethane	FB	Ave	80718	211073	427416	648559	838574	20.0	50.0	100	150	200
1,2-Dichloroethane-d4 (Surr)	FB	Ave	79875	203800	412779	629613	835861	20.0	50.0	100	150	200
Toluene-d8 (Surr)	CBNZ d5	Ave	297039	772381	1550106	2347763	3075705	20.0	50.0	100	150	200
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	126981	307658	614724	924613	1193401	20.0	50.0	100	150	200

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Dichlorodifluoromethane	13.2	10.4	-7.8 8.7	-9.1 12.3	-13.1	-14.5	30	30	50 30	30 30	30	30
Chloromethane	-1.8	-1.2	21.1 -2.6	4.6 2.7	-10.8	-12.0	30	30	50 30	30 30	30	30
Vinyl chloride	6.3 3.9	-12.4 3.7	-1.7 3.2	6.5 6.5	-9.4	-6.5	50 30	30 30	30 30	30 30	30	30
Butadiene	-0.8	0.2	21.4 0.2	-3.8 4.2	-10.3	-11.1	30	30	50 30	30 30	30	30
Bromomethane	-2.2	-0.2	-1.5 -0.3	5.3 8.7	-4.3	-5.5	30	30	50 30	30 30	30	30
Chloroethane	-7.6	-4.8	20.2 -4.5	-1.5 4.0	-1.5	-4.3	30	30	50 30	30 30	30	30
Dichlorofluoromethane	-4.2	-4.9	19.2 -6.8	4.6 -2.7	0.0	-5.3	30	30	50 30	30 30	30	30
Trichlorofluoromethane	-2.1	-4.4	15.8 -4.8	12.6 -1.7	-7.7	-7.7	30	30	50 30	30 30	30	30
Ethyl ether	-0.4	4.3	-4.5 3.0	1.7 3.9	-5.1	-3.0	30	30	50 30	30 30	30	30
Acrolein	2.2	3.3	1.9 3.4	-5.2 6.1	-9.5	-2.2	30	30	50 30	30 30	30	30
1,1-Dichloroethene	-0.9	-0.7	-3.0 1.1	6.9 0.7	-1.7	-2.4	30	30	50 30	30 30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	-0.3	4.4 -0.8	3.2 0.5	-7.0	-1.8	30	30	50 30	30 30	30	30
Acetone	-6.4	-2.8	+++++ -3.4	+++++ -0.1	20.8	-8.1	30	30	30	30	50	30
Iodomethane	-0.2	1.2	-0.6 1.5	8.1 1.2	-7.9	-3.3	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Carbon disulfide	0.6	2.9	6.3 2.1	1.0 2.2	-9.1	-6.0	30	30	50 30	30 30	30	30
3-Chloropropene	1.9	-2.1	5.1 -0.7	5.3 -4.7	-3.1	-1.7	30	30	50 30	30 30	30	30
Methyl acetate	-4.5	2.3	5.7 0.4	7.2 2.9	-9.1	-4.9	30	30	50 30	30 30	30	30
Methylene Chloride	0.6	-0.1	+++++ 0.0	+++++ -0.9	0.8	-0.5	30	30	30	30	50	30
tert-Butyl alcohol	-3.9	3.2	+++++ 0.4	6.4 0.4	-10.8	4.3	30	30	30	50 30	30	30
Acrylonitrile	-4.0	-0.1	14.5 -0.6	7.7 1.9	-12.8	-6.6	30	30	50 30	30 30	30	30
trans-1,2-Dichloroethene	-0.8	-2.3	7.7 -3.1	9.5 -3.4	-5.1	-2.5	30	30	50 30	30 30	30	30
Methyl tert-butyl ether	-3.1	-0.8	19.2 -1.9	1.4 -0.6	-10.6	-3.7	30	30	50 30	30 30	30	30
Hexane	-0.9	-0.5	9.2 1.1	5.3 1.2	-9.3	-6.0	30	30	50 30	30 30	30	30
1,1-Dichloroethane	-2.1	0.1	3.7 1.3	6.1 1.1	-7.9	-2.2	30	30	50 30	30 30	30	30
Vinyl acetate	-6.3	-2.3	8.3 3.9	7.7 6.7	-11.3	-6.6	30	30	50 30	30 30	30	30
2,2-Dichloropropane	-0.8	-3.7	9.3 -6.5	11.7 -8.6	-0.5	-0.8	30	30	50 30	30 30	30	30
cis-1,2-Dichloroethene	-1.4	-0.7	9.6 -0.8	2.4 -0.9	-6.8	-1.4	30	30	50 30	30 30	30	30
Methyl Ethyl Ketone	1.4	-2.6	+++++ -1.3	+++++ 1.9	0.8	-0.2	30	30	30	30	50	30
Bromochloromethane	-3.7	1.7	4.8 0.2	3.8 1.2	-5.0	-2.8	30	30	50 30	30 30	30	30
Tetrahydrofuran	-3.0	1.9	+++++ 2.9	5.5 5.8	-14.1	1.0	30	30	30	50 30	30	30
Chloroform	-4.3	-2.9	17.7 -1.1	4.7 -1.3	-8.5	-4.3	30	30	50 30	30 30	30	30
1,1,1-Trichloroethane	-1.0	-0.1	11.7 -1.6	3.7 -0.9	-7.6	-4.1	30	30	50 30	30 30	30	30
Cyclohexane	-0.4	-0.4	5.4 0.1	1.4 1.5	-4.0	-3.6	30	30	50 30	30 30	30	30
1,1-Dichloropropene	-0.9	-1.4	4.5 0.0	5.7 -1.0	-4.8	-2.1	30	30	50 30	30 30	30	30
Carbon tetrachloride	1.1	2.6	4.8 3.1	-1.8 3.0	-8.0	-4.7	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Isobutyl alcohol	-3.2	4.1	+++++ 0.6	9.1 2.8	-11.0	-2.3	30	30	30	50 30	30	30
Benzene	1.2 -2.9	1.8 -1.1	7.1 0.1	5.4 -1.4	-6.7	-3.5	50 30	30 30	30 30	30 30	30	30
1,2-Dichloroethane	-2.4	1.4	5.9 1.7	4.2 2.8	-10.9	-2.7	30	30	50 30	30 30	30	30
Heptane	-2.2	-2.1	9.8 1.5	5.2 0.5	-5.8	-6.7	30	30	50 30	30 30	30	30
Trichloroethene	3.5 -2.8	7.8 -1.4	8.2 0.0	-1.7 -0.4	-9.9	-3.2	50 30	30 30	30 30	30 30	30	30
Methylcyclohexane	-0.5	-1.8	6.6 -1.9	5.7 -2.6	-4.0	-1.4	30	30	50 30	30 30	30	30
1,2-Dichloropropane	-3.6	-1.8	15.7 1.1	1.8 0.5	-8.4	-5.3	30	30	50 30	30 30	30	30
Dibromomethane	-2.8	-0.6	11.9 0.6	6.9 0.5	-12.1	-4.6	30	30	50 30	30 30	30	30
1,4-Dioxane	-4.4	0.3	+++++ -0.1	+++++ -13.2	6.2	11.3	30	30	30	30	50	30
Bromodichloromethane	-3.1	0.5	16.7 4.8	-7.0 4.9	-10.0	-6.8	30	30	50 30	30 30	30	30
2-Chloroethyl vinyl ether	-6.7	-2.4	17.9 -0.4	4.9 1.4	-11.0	-3.8	30	30	50 30	30 30	30	30
cis-1,3-Dichloropropene	-2.0	1.9	8.6 4.4	-1.9 3.4	-11.8	-2.6	30	30	50 30	30 30	30	30
methyl isobutyl ketone	-1.1	-0.1	+++++ 0.1	+++++ 2.1	-1.2	0.1	30	30	30	30	50	30
Toluene	9.2 -5.8	-7.3 -1.5	20.6 -0.3	1.1 -1.8	-10.0	-4.2	50 30	30 30	30 30	30 30	30	30
trans-1,3-Dichloropropene	-6.0	-1.8	21.0 -0.9	0.5 -1.0	-7.6	-4.3	30	30	50 30	30 30	30	30
Ethyl methacrylate	-1.5	2.7	5.3 1.7	-9.0 1.9	-5.0	3.8	30	30	50 30	30 30	30	30
1,1,2-Trichloroethane	-10.1	-3.7	32.2 -3.7	1.7 -3.4	-6.4	-6.6	30	30	50 30	30 30	30	30
Tetrachloroethene	-1.9	-1.5	11.5 0.9	3.5 -1.6	-8.8	-2.1	30	30	50 30	30 30	30	30
1,3-Dichloropropane	-6.4	-2.9	16.7 -2.1	7.5 -4.1	-5.4	-3.3	30	30	50 30	30 30	30	30
2-Hexanone	1.8	-1.6	+++++ -2.8	+++++ -1.4	1.9	2.2	30	30	30	30	50	30
Dibromochloromethane	-3.5	3.2	12.8 5.5	-1.8 6.0	-13.6	-8.6	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
1,2-Dibromoethane	-6.7	-2.9	15.6 -2.7	12.4 -2.7	-7.8	-5.1	30	30	50 30	30 30	30	30
Chlorobenzene	-6.0	-5.1	30.7 -2.8	3.8 -5.9	-8.4	-6.4	30	30	50 30	30 30	30	30
1,1,1,2-Tetrachloroethane	-5.1	0.3	24.1 3.0	-3.4 0.8	-14.4	-5.2	30	30	50 30	30 30	30	30
Ethylbenzene	10.8 -5.0	-7.8 -4.7	30.2 * -3.1	0.9 -5.9	-11.3	-4.2	50 30	30 30	30 30	30 30	30	30
m&p-Xylene	3.4 -4.8	-7.4 -4.1	33.4 * -4.1	2.5 -6.5	-8.1	-4.1	50 30	30 30	30 30	30 30	30	30
o-Xylene	-1.1 -4.1	-3.3 -3.5	31.5 * -3.4	1.7 -6.1	-6.9	-4.8	50 30	30 30	30 30	30 30	30	30
Styrene	-5.7	-4.1	29.0 -3.8	6.3 -6.3	-11.2	-4.3	30	30	50 30	30 30	30	30
Bromoform	-4.7	7.9	12.2 7.8	-6.3 11.5	-19.4	-9.0	30	30	50 30	30 30	30	30
Isopropylbenzene	-7.8	-4.7	28.6 -1.2	3.5 -4.9	-7.3	-6.3	30	30	50 30	30 30	30	30
Bromobenzene	-9.5	-5.7	28.4 -2.0	4.9 -4.8	-5.3	-6.1	30	30	50 30	30 30	30	30
1,1,2,2-Tetrachloroethane	-5.0	3.3	1.8 4.2	-1.0 3.8	-6.2	-0.9	30	30	50 30	30 30	30	30
1,2,3-Trichloropropane	-6.3	-1.3	1.2 2.9	12.3 3.3	-8.3	-3.7	30	30	50 30	30 30	30	30
trans-1,4-Dichloro-2-butene	-7.0	-1.8	19.7 2.1	3.6 -0.3	-8.4	-7.9	30	30	50 30	30 30	30	30
N-Propylbenzene	-8.7	-6.3	35.4 -4.3	3.6 -8.3	-6.2	-5.2	30	30	50 30	30 30	30	30
2-Chlorotoluene	-1.5	2.2	5.4 6.3	-7.5 2.8	-8.5	0.8	30	30	50 30	30 30	30	30
1,3,5-Trimethylbenzene	-6.8	-4.9	29.8 -2.6	1.4 -7.0	-5.7	-4.1	30	30	50 30	30 30	30	30
4-Chlorotoluene	-9.8	-7.9	33.2 -5.3	10.3 -8.4	-6.2	-5.8	30	30	50 30	30 30	30	30
tert-Butylbenzene	-7.7	-4.3	30.4 -2.9	4.1 -6.1	-8.1	-5.4	30	30	50 30	30 30	30	30
1,2,4-Trimethylbenzene	-7.2	-4.5	27.5 -2.6	4.2 -6.3	-6.2	-5.0	30	30	50 30	30 30	30	30
sec-Butylbenzene	-6.4	-4.0	30.5 -3.8	2.4 -8.4	-5.9	-4.5	30	30	50 30	30 30	30	30
1,3-Dichlorobenzene	-10.0	-5.5	31.2 -3.2	8.9 -6.5	-9.2	-5.8	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
p-Isopropyltoluene	-5.6	-2.8	26.8 -2.1	0.5 -7.5	-6.0	-3.4	30	30	50 30	30 30	30	30
1,4-Dichlorobenzene	-9.0	-5.1	35.7 -2.8	2.2 -5.7	-10.7	-4.8	30	30	50 30	30 30	30	30
1,2-Dichlorobenzene	-8.5	-4.6	32.2 -3.2	5.2 -6.9	-9.1	-5.0	30	30	50 30	30 30	30	30
n-Butylbenzene	-5.6	-2.3	27.7 -3.1	4.3 -9.1	-7.7	-4.3	30	30	50 30	30 30	30	30
1,2-Dibromo-3-Chloropropane	-6.6	4.9	+++++ 2.9	-6.4 3.8	6.1	-4.8	30	30	30	50 30	30	30
1,2,4-Trichlorobenzene	-5.7	0.1	25.5 -1.4	6.2 -8.8	-11.5	-4.4	30	30	50 30	30 30	30	30
Hexachlorobutadiene	-5.3	-3.3	32.1 -6.3	7.2 -12.7	-7.0	-4.7	30	30	50 30	30 30	30	30
Naphthalene	-4.2	4.9	21.5 2.3	2.4 -3.7	-16.0	-7.3	30	30	50 30	30 30	30	30
1,2,3-Trichlorobenzene	-5.4	1.3	26.5 -1.4	7.5 -10.1	-13.2	-5.1	30	30	50 30	30 30	30	30
Dibromofluoromethane	-0.5	1.3	3.0	0.5		-4.3	30	30	30	30		50
1,2-Dichloroethane-d4 (Surr)	-1.7	0.1	2.3	2.5		-3.1	30	30	30	30		50
Toluene-d8 (Surr)	-1.0	1.9	2.5	0.1		-3.6	30	30	30	30		50
4-Bromofluorobenzene (Surr)	-4.4	0.1	3.8	-0.1		0.7	30	30	30	30		50

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705A.d
Lims ID: STD01
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Jul-2017 13:26:30 ALS Bottle#: 3 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD01
Misc. Info.: 500-0046351-002
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:03:51 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:03:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Vinyl chloride	62	1.891	1.891	0.000	25	2527	0.2500	0.2658	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175728	1000.0	1000.0	
49 Benzene	78	5.855	5.861	-0.006	58	4322	0.2500	0.2530	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	784359	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	25	1273	0.2500	0.2587	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18293	1000.0	1000.0	
71 Toluene	92	7.878	7.872	0.006	46	2923	0.2500	0.2730	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	583516	50.0	50.0	
85 Ethylbenzene	106	9.590	9.584	0.006	46	2000	0.2500	0.2771	
86 m-Xylene & p-Xylene	91	9.745	9.739	0.006	54	4449	0.2500	0.2584	
87 o-Xylene	91	10.296	10.296	0.000	45	4397	0.2500	0.2472	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	95	326102	50.0	50.0	
S 123 Xylenes, Total	100				0			0.5056	

Reagents:

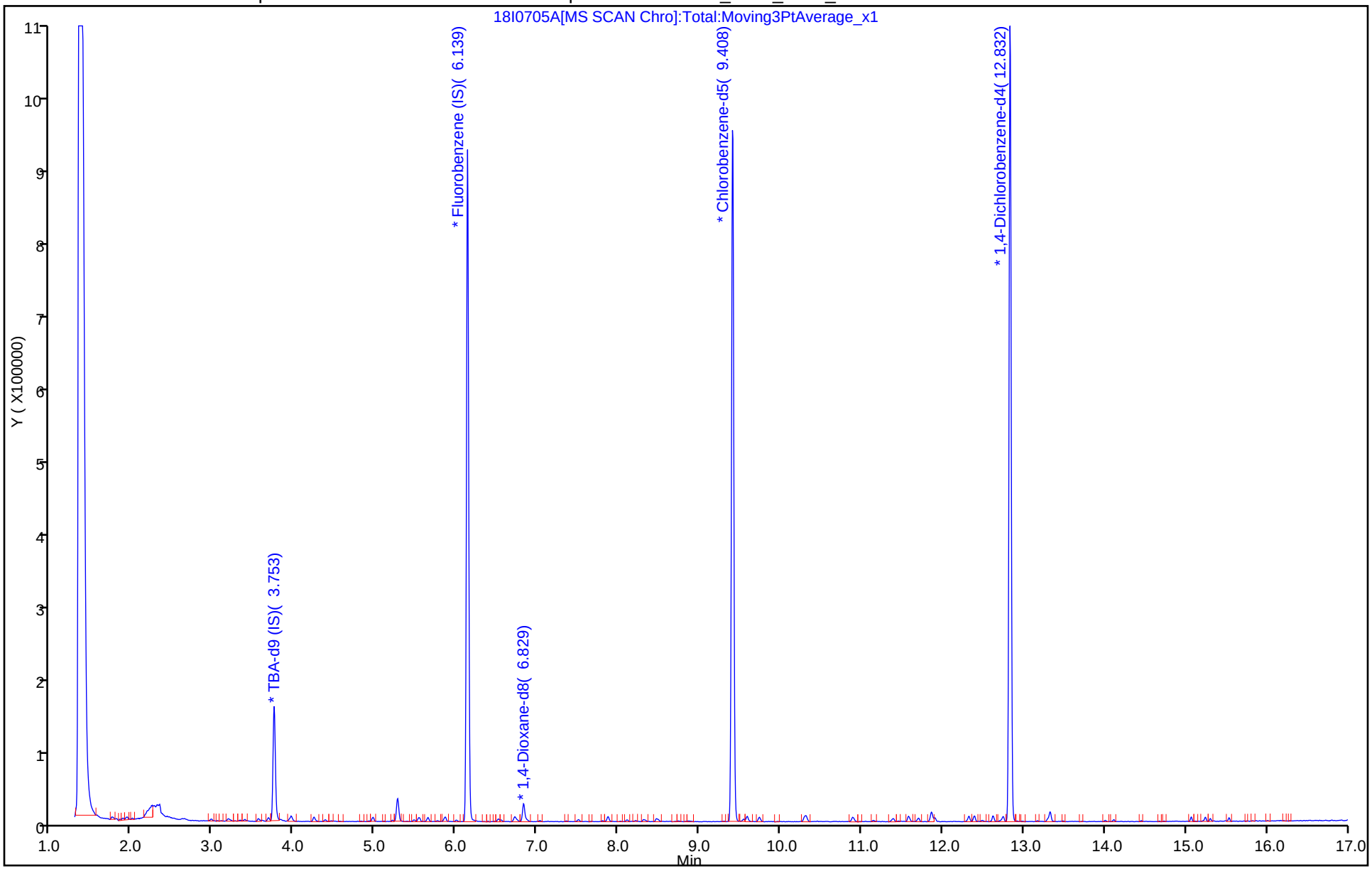
LEVEL1 8260_00001 Amount Added: 2.50 Units: uL
8260 LOWIS1_00108 Amount Added: 5.00 Units: uL

Report Date: 05-Jul-2017 18:03:52 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705A.d

Injection Date:	05-Jul-2017 13:26:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD01			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705B.d
Lims ID: STD02
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Jul-2017 13:52:30 ALS Bottle#: 4 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD02
Misc. Info.: 500-0046351-003
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:21 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Vinyl chloride	62	1.886	1.891	-0.005	41	3516	0.5000	0.4379	
* 22 TBA-d9 (IS)	65	3.732	3.753	-0.021	0	182037	1000.0	1000.0	
49 Benzene	78	5.861	5.861	0.000	89	8707	0.5000	0.5092	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	785119	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	66	2654	0.5000	0.5388	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17950	1000.0	1000.0	
71 Toluene	92	7.872	7.872	0.000	55	4902	0.5000	0.4633	
* 81 Chlorobenzene-d5	117	9.408	9.413	-0.005	88	576557	50.0	50.0	
85 Ethylbenzene	106	9.584	9.584	0.000	82	3289	0.5000	0.4612	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	75	7873	0.5000	0.4628	
87 o-Xylene	91	10.296	10.296	0.000	81	8493	0.5000	0.4833	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	95	316967	50.0	50.0	
S 123 Xylenes, Total	100				0			0.9461	

Reagents:

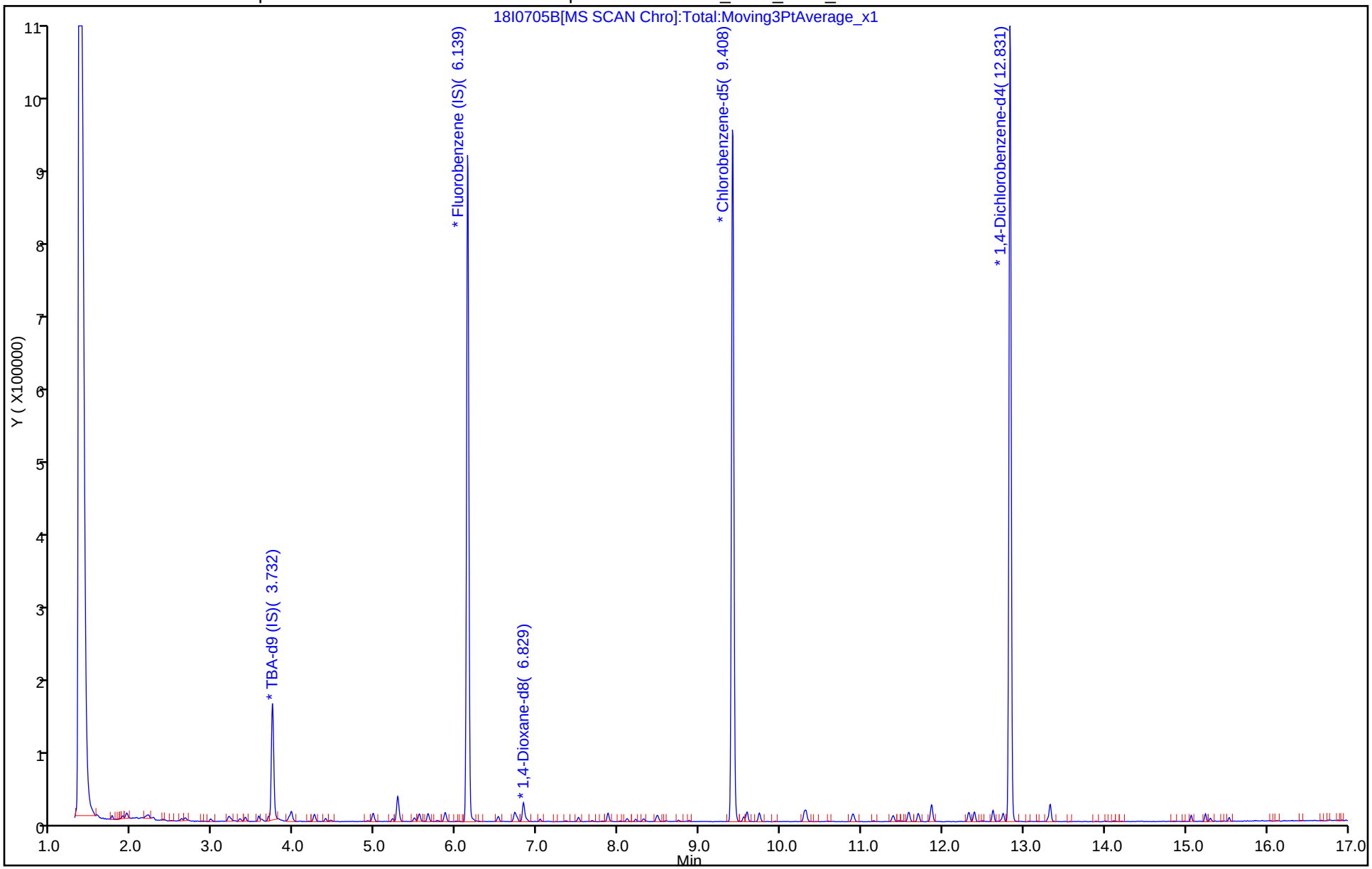
LEVEL1 8260_00001 Amount Added: 5.00 Units: uL
8260 LOWIS1_00108 Amount Added: 5.00 Units: uL

Report Date: 05-Jul-2017 18:04:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705B.d

Injection Date:	05-Jul-2017 13:52:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD02			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705C.d
Lims ID: STD03
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Jul-2017 14:16:30 ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD03
Misc. Info.: 500-0046351-004
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:27 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	52	4494	1.00	0.9217	
2 Chloromethane	50	1.752	1.752	0.000	85	8429	1.00	1.21	
3 Vinyl chloride	62	1.891	1.891	0.000	58	6881	1.00	0.9833	
4 Butadiene	39	1.934	1.940	-0.006	89	8254	1.00	1.21	
5 Bromomethane	94	2.245	2.250	-0.005	74	3065	1.00	0.9847	
6 Chloroethane	64	2.362	2.362	0.000	49	3574	1.00	1.20	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	72	9870	1.00	1.19	
8 Trichlorofluoromethane	101	2.651	2.646	0.005	69	8810	1.00	1.16	
10 Ethyl ether	59	2.977	2.972	0.005	71	3171	1.00	0.9552	
11 Acrolein	56	3.100	3.095	0.005	89	12902	40.0	40.8	
12 1,1-Dichloroethene	96	3.191	3.181	0.010	79	4546	1.00	0.9705	
13 1,1,2-Trichloro-1,2,2-trif	101	3.213	3.218	-0.005	53	5148	1.00	1.04	
15 Iodomethane	142	3.331	3.330	0.000	93	8590	1.00	0.99	
16 Carbon disulfide	76	3.395	3.389	0.006	98	16222	1.00	1.06	
19 3-Chloro-1-propene	76	3.566	3.560	0.006	84	2927	1.00	1.05	
20 Methyl acetate	43	3.598	3.593	0.005	88	10371	5.00	5.28	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	167169	1000.0	1000.0	
24 Acrylonitrile	53	3.940	3.935	0.005	92	11780	10.0	11.4	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	5450	1.00	1.08	
26 Methyl tert-butyl ether	73	3.978	3.972	0.006	83	10497	1.00	1.19	
27 Hexane	57	4.245	4.245	0.000	89	10001	1.00	1.09	
28 1,1-Dichloroethane	63	4.390	4.384	0.006	58	9972	1.00	1.04	
29 Vinyl acetate	43	4.454	4.449	0.005	86	6442	1.00	1.08	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	46	6142	1.00	1.09	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	85	5779	1.00	1.10	
39 Chlorobromomethane	128	5.219	5.214	0.005	73	2256	1.00	1.05	
41 Chloroform	83	5.299	5.294	0.005	86	9297	1.00	1.18	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	78	7980	1.00	1.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Cyclohexane	56	5.540	5.545	-0.005	84	12072	1.00	1.05	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	70	6454	1.00	1.05	
46 Carbon tetrachloride	117	5.652	5.652	0.000	56	6656	1.00	1.05	
49 Benzene	78	5.861	5.861	0.000	90	18957	1.00	1.07	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	36	5710	1.00	1.06	
53 n-Heptane	43	6.134	6.134	0.000	37	9948	1.00	1.10	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	813104	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	69	5518	1.00	1.08	
58 Methylcyclohexane	83	6.722	6.722	0.000	90	10188	1.00	1.07	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	67	5425	1.00	1.16	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17166	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	61	2127	1.00	1.12	
65 Dichlorobromomethane	83	7.033	7.032	0.000	82	5522	1.00	1.17	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	47	1900	1.00	1.18	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	54	6440	1.00	1.09	
71 Toluene	92	7.872	7.872	0.000	86	13227	1.00	1.21	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	78	5800	1.00	1.21	
73 Ethyl methacrylate	69	8.209	8.209	0.000	62	4717	1.00	1.05	
74 1,1,2-Trichloroethane	97	8.311	8.306	0.005	58	3464	1.00	1.32	
75 Tetrachloroethene	166	8.472	8.472	0.000	78	5964	1.00	1.12	
76 1,3-Dichloropropane	76	8.498	8.493	0.005	79	5256	1.00	1.17	
79 Chlorodibromomethane	129	8.744	8.744	0.000	37	3714	1.00	1.13	
80 Ethylene Dibromide	107	8.873	8.873	0.000	53	3079	1.00	1.16	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	597515	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	48	17142	1.00	1.31	
84 1,1,1,2-Tetrachloroethane	131	9.552	9.547	0.005	64	5734	1.00	1.24	
85 Ethylbenzene	106	9.590	9.584	0.006	94	9624	1.00	1.30	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	91	23517	1.00	1.33	
87 o-Xylene	91	10.296	10.296	0.000	87	23940	1.00	1.31	
88 Styrene	104	10.317	10.317	0.000	85	18178	1.00	1.29	
89 Bromoform	173	10.590	10.590	0.000	44	2081	1.00	1.12	
90 Isopropylbenzene	105	10.895	10.895	0.000	89	31832	1.00	1.29	
94 Bromobenzene	156	11.387	11.387	0.000	87	7502	1.00	1.28	
95 1,1,2,2-Tetrachloroethane	83	11.393	11.392	0.001	29	4057	1.00	1.02	
96 1,2,3-Trichloropropane	75	11.457	11.462	-0.005	14	3214	1.00	1.01	
97 trans-1,4-Dichloro-2-buten	53	11.500	11.494	0.006	1	1345	1.00	1.20	
98 N-Propylbenzene	91	11.585	11.585	0.000	93	39633	1.00	1.35	
99 2-Chlorotoluene	91	11.703	11.697	0.006	82	23376	1.00	1.05	
101 4-Chlorotoluene	91	11.869	11.863	0.006	86	25751	1.00	1.33	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	87	27011	1.00	1.30	
103 tert-Butylbenzene	119	12.323	12.323	0.000	80	25638	1.00	1.30	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	61	27228	1.00	1.28	
106 sec-Butylbenzene	105	12.623	12.623	0.000	83	36735	1.00	1.30	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	86	15710	1.00	1.31	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	51	31258	1.00	1.27	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	96	332474	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	32	15736	1.00	1.36	
113 1,2-Dichlorobenzene	146	13.318	13.324	-0.006	85	13380	1.00	1.32	
114 n-Butylbenzene	91	13.329	13.329	0.000	91	27418	1.00	1.28	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	81	8643	1.00	1.26	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	76	6235	1.00	1.32	
119 Naphthalene	128	15.303	15.303	0.000	85	11770	1.00	1.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	75	6720	1.00	1.26	
S 123 Xylenes, Total	100				0			2.65	
S 124 Trihalomethanes, Total	1				0			4.59	
S 125 1,3-Dichloropropene, Total	1				0			2.30	
S 126 Trimethylbenzene, Total	1				0			2.57	
S 127 1,2-Dichloroethene, Total	96				0			2.17	

Reagents:

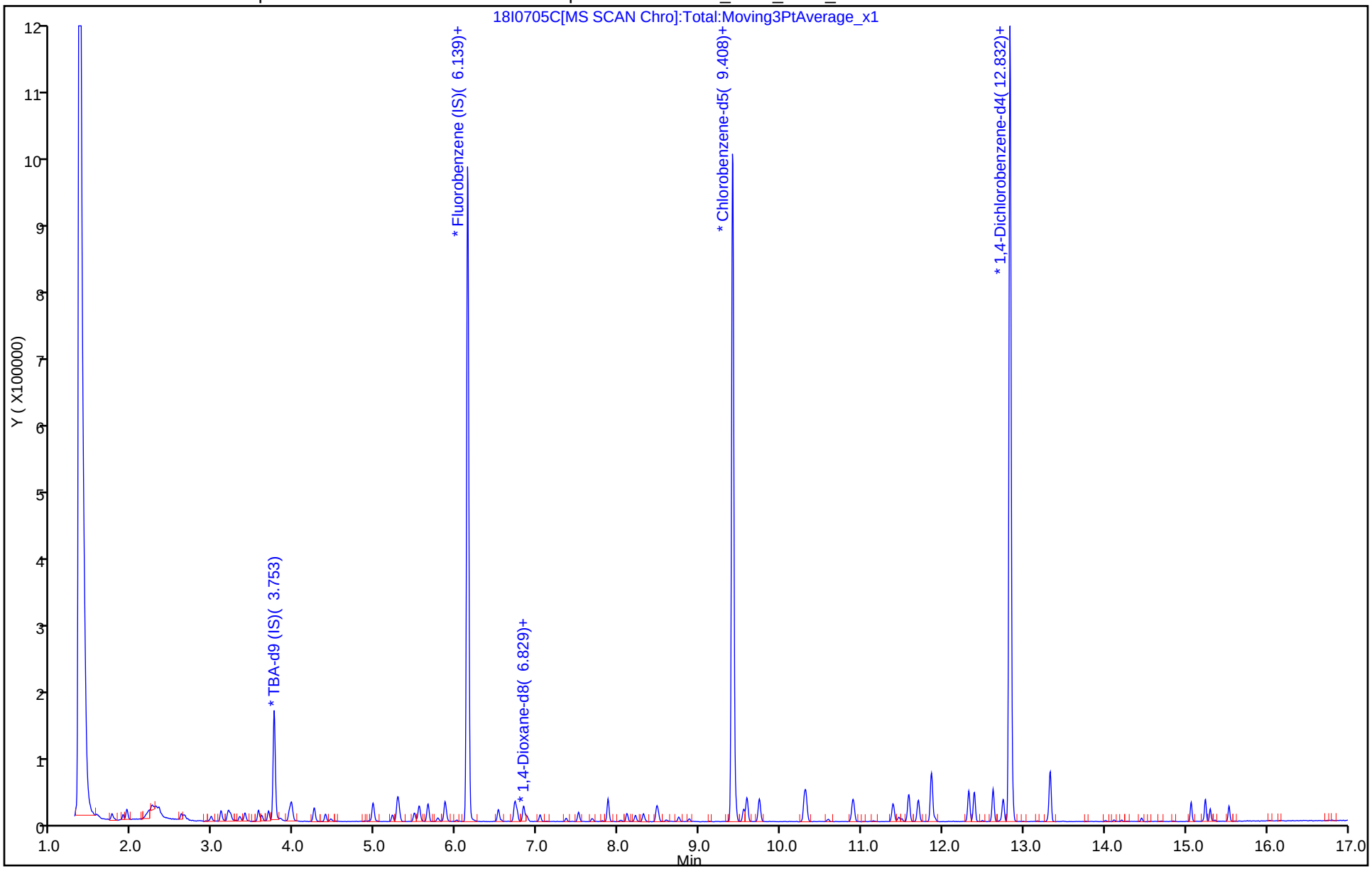
LOW8260ACR_00173	Amount Added:	1.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LO8260/624STD_00259	Amount Added:	1.00	Units: uL

Report Date: 05-Jul-2017 18:04:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705C.d

Injection Date:	05-Jul-2017 14:16:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD03			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705D.d
Lims ID: STD04
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-Jul-2017 14:41:30 ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD04
Misc. Info.: 500-0046351-005
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:35 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	70	8617	2.00	1.82	
2 Chloromethane	50	1.752	1.752	0.000	87	14166	2.00	2.09	
3 Vinyl chloride	62	1.886	1.891	-0.005	74	13310	2.00	2.13	
4 Butadiene	39	1.934	1.940	-0.006	83	12711	2.00	1.92	
5 Bromomethane	94	2.244	2.250	-0.006	78	5130	2.00	2.11	
6 Chloroethane	64	2.357	2.362	-0.005	41	5694	2.00	1.97	
7 Dichlorofluoromethane	67	2.603	2.608	-0.005	75	16853	2.00	2.09	
8 Trichlorofluoromethane	101	2.635	2.646	-0.011	70	16670	2.00	2.25	
10 Ethyl ether	59	2.977	2.972	0.005	85	6568	2.00	2.03	
11 Acrolein	56	3.100	3.095	0.005	80	23332	80.0	75.8	
12 1,1-Dichloroethene	96	3.180	3.181	-0.001	79	9738	2.00	2.14	
13 1,1,2-Trichloro-1,2,2-trif	101	3.207	3.218	-0.011	72	9888	2.00	2.06	
15 Iodomethane	142	3.330	3.330	0.000	94	18163	2.00	2.16	
16 Carbon disulfide	76	3.389	3.389	0.000	98	29977	2.00	2.02	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	84	5703	2.00	2.11	
20 Methyl acetate	43	3.603	3.593	0.010	94	20462	10.0	10.7	
* 22 TBA-d9 (IS)	65	3.758	3.753	0.005	0	192292	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.844	3.839	0.005	66	4975	20.0	21.3	
24 Acrylonitrile	53	3.940	3.935	0.005	97	21559	20.0	21.5	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	87	10772	2.00	2.19	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	79	17374	2.00	2.03	
27 Hexane	57	4.245	4.245	0.000	91	18748	2.00	2.11	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	67	19840	2.00	2.12	
29 Vinyl acetate	43	4.448	4.449	-0.001	96	12460	2.00	2.15	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	81	10495	2.00	2.05	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	66	12209	2.00	2.23	
39 Chlorobromomethane	128	5.213	5.214	-0.001	81	4347	2.00	2.08	
40 Tetrahydrofuran	42	5.267	5.267	0.000	54	4660	4.00	4.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	5.294	5.294	0.000	76	16087	2.00	2.09	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	81	14409	2.00	2.07	
44 Cyclohexane	56	5.545	5.545	0.000	90	22582	2.00	2.03	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	78	12691	2.00	2.11	
46 Carbon tetrachloride	117	5.652	5.652	0.000	79	12134	2.00	1.96	
47 Isobutyl alcohol	43	5.775	5.770	0.005	65	5852	50.0	54.6	
49 Benzene	78	5.861	5.861	0.000	96	36301	2.00	2.11	
50 1,2-Dichloroethane	62	5.877	5.872	0.005	76	10930	2.00	2.08	
53 n-Heptane	43	6.134	6.134	0.000	37	18534	2.00	2.10	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	790635	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	88	9747	2.00	1.97	
58 Methylcyclohexane	83	6.722	6.722	0.000	92	19647	2.00	2.11	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	9284	2.00	2.04	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	22057	1000.0	1000.0	
63 Dibromomethane	93	6.861	6.867	-0.006	72	3949	2.00	2.14	
65 Dichlorobromomethane	83	7.032	7.032	0.000	77	8554	2.00	1.86	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	57	3221	2.00	2.10	
68 cis-1,3-Dichloropropene	75	7.508	7.509	-0.001	66	11080	2.00	1.96	
71 Toluene	92	7.872	7.872	0.000	90	21132	2.00	2.02	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	79	9188	2.00	2.01	
73 Ethyl methacrylate	69	8.209	8.209	0.000	62	6724	2.00	1.82	
74 1,1,2-Trichloroethane	97	8.305	8.306	-0.001	78	5080	2.00	2.03	
75 Tetrachloroethene	166	8.477	8.472	0.005	83	10551	2.00	2.07	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	84	9229	2.00	2.15	
79 Chlorodibromomethane	129	8.744	8.744	0.000	54	6162	2.00	1.96	
80 Ethylene Dibromide	107	8.878	8.873	0.005	62	5705	2.00	2.25	
* 81 Chlorobenzene-d5	117	9.408	9.413	-0.005	87	569332	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	44	25942	2.00	2.08	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	70	8504	2.00	1.93	
85 Ethylbenzene	106	9.584	9.584	0.000	93	14208	2.00	2.02	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	96	34445	2.00	2.05	
87 o-Xylene	91	10.296	10.296	0.000	89	35294	2.00	2.03	
88 Styrene	104	10.317	10.317	0.000	85	28555	2.00	2.13	
89 Bromoform	173	10.595	10.590	0.005	47	3313	2.00	1.87	
90 Isopropylbenzene	105	10.895	10.895	0.000	91	49255	2.00	2.07	
94 Bromobenzene	156	11.387	11.387	0.000	89	11787	2.00	2.10	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	52	6431	2.00	1.98	
96 1,2,3-Trichloropropane	75	11.456	11.462	-0.006	41	6858	2.00	2.25	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	9	2239	2.00	2.07	
98 N-Propylbenzene	91	11.585	11.585	0.000	93	58286	2.00	2.07	
99 2-Chlorotoluene	91	11.703	11.697	0.006	92	34117	2.00	1.85	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	40574	2.00	2.03	
101 4-Chlorotoluene	91	11.868	11.863	0.005	91	41017	2.00	2.21	
103 tert-Butylbenzene	119	12.323	12.323	0.000	85	39338	2.00	2.08	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	51	42762	2.00	2.08	
106 sec-Butylbenzene	105	12.623	12.623	0.000	89	55465	2.00	2.05	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	90	25078	2.00	2.18	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	54	47624	2.00	2.01	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	96	319675	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.863	12.864	-0.001	38	22795	2.00	2.04	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	70	20472	2.00	2.10	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	43061	2.00	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	1	774	2.00	1.87	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	83	14062	2.00	2.12	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	82	9729	2.00	2.14	
119 Naphthalene	128	15.303	15.303	0.000	95	19064	2.00	2.05	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	85	10984	2.00	2.15	
S 123 Xylenes, Total	100				0			4.08	
S 124 Trihalomethanes, Total	1				0			7.79	
S 125 1,3-Dichloropropene, Total	1				0			3.97	
S 126 Trimethylbenzene, Total	1				0			4.11	
S 127 1,2-Dichloroethene, Total	96				0			4.24	

Reagents:

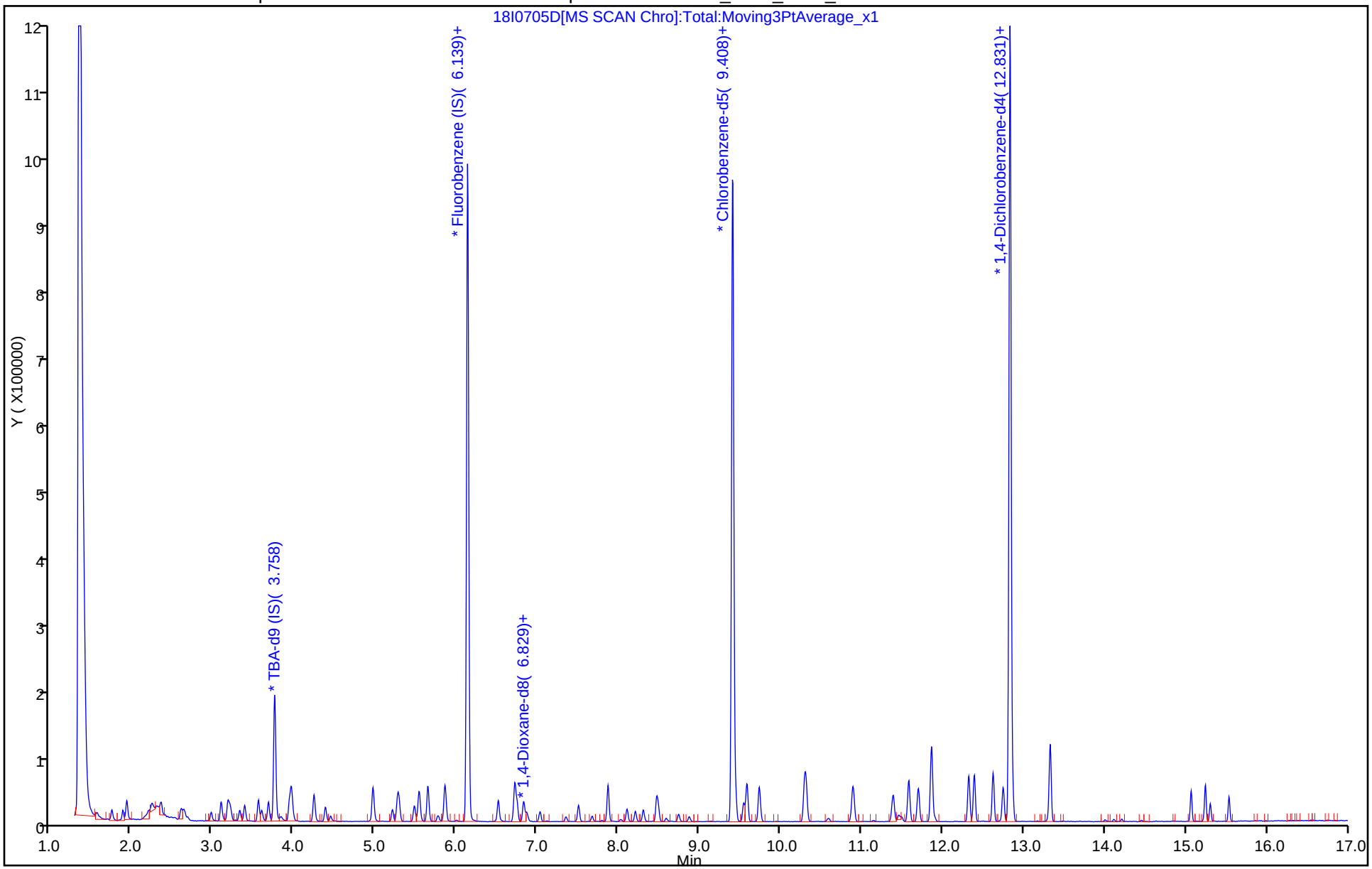
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LOW8260ACR_00173	Amount Added:	2.00	Units: uL
LO8260/624STD_00259	Amount Added:	2.00	Units: uL

Report Date: 05-Jul-2017 18:04:37 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705D.d

Injection Date:	05-Jul-2017 14:41:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD04			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705E.d
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Jul-2017 15:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Misc. Info.: 500-0046351-006
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:41 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	80	20730	5.00	4.34	
2 Chloromethane	50	1.752	1.752	0.000	88	30407	5.00	4.46	
3 Vinyl chloride	62	1.886	1.891	-0.005	81	27348	5.00	4.53	
4 Butadiene	39	1.939	1.940	-0.001	88	29843	5.00	4.49	
5 Bromomethane	94	2.250	2.250	0.000	87	10328	5.00	4.78	
6 Chloroethane	64	2.362	2.362	0.000	79	14338	5.00	4.93	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	97	40525	5.00	5.00	
8 Trichlorofluoromethane	101	2.640	2.646	-0.006	75	34360	5.00	4.61	
10 Ethyl ether	59	2.972	2.972	0.000	89	15420	5.00	4.75	
11 Acrolein	56	3.095	3.095	0.000	90	56091	200.0	181.1	
12 1,1-Dichloroethene	96	3.181	3.181	0.000	85	22528	5.00	4.91	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	81	22445	5.00	4.65	
14 Acetone	43	3.272	3.261	0.011	79	4395	5.00	6.04	
15 Iodomethane	142	3.330	3.330	0.000	97	38958	5.00	4.61	
16 Carbon disulfide	76	3.389	3.389	0.000	98	67873	5.00	4.54	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	91	13211	5.00	4.85	
20 Methyl acetate	43	3.598	3.593	0.005	96	43681	25.0	22.7	
21 Methylene Chloride	84	3.683	3.684	-0.001	92	22221	5.00	5.04	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175392	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	74	9504	50.0	44.6	
24 Acrylonitrile	53	3.935	3.935	0.000	94	43933	50.0	43.6	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	23487	5.00	4.74	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	88	38541	5.00	4.47	
27 Hexane	57	4.245	4.245	0.000	94	40656	5.00	4.54	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	82	43354	5.00	4.61	
29 Vinyl acetate	43	4.448	4.449	-0.001	98	25808	5.00	4.43	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	61	27362	5.00	4.97	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	24059	5.00	4.66	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	5.005	4.994	0.011	67	5274	5.00	5.04	
39 Chlorobromomethane	128	5.213	5.214	-0.001	82	10011	5.00	4.75	
40 Tetrahydrofuran	42	5.267	5.267	0.000	67	7654	10.0	8.59	
41 Chloroform	83	5.294	5.294	0.000	96	35358	5.00	4.57	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	86	32311	5.00	4.62	
44 Cyclohexane	56	5.540	5.545	-0.005	94	53827	5.00	4.80	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	28779	5.00	4.76	
46 Carbon tetrachloride	117	5.652	5.652	0.000	76	28600	5.00	4.60	
47 Isobutyl alcohol	43	5.775	5.770	0.005	83	10878	125.0	111.2	
49 Benzene	78	5.861	5.861	0.000	97	80864	5.00	4.67	
50 1,2-Dichloroethane	62	5.871	5.872	-0.001	62	23507	5.00	4.45	
53 n-Heptane	43	6.134	6.134	0.000	40	41785	5.00	4.71	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	795875	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	85	22491	5.00	4.50	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	44931	5.00	4.80	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	86	21014	5.00	4.58	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17447	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	73	8174	5.00	4.40	
64 1,4-Dioxane	88	6.883	6.888	-0.005	36	2043	100.0	106.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	86	20839	5.00	4.50	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	77	6935	5.00	4.45	
68 cis-1,3-Dichloropropene	75	7.509	7.509	-0.001	73	25285	5.00	4.41	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	78	11794	5.00	4.94	
71 Toluene	92	7.872	7.872	0.000	93	47727	5.00	4.50	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	90	21432	5.00	4.62	
73 Ethyl methacrylate	69	8.209	8.209	0.000	79	15482	5.00	4.75	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	81	11856	5.00	4.68	
75 Tetrachloroethene	166	8.471	8.472	-0.001	88	23569	5.00	4.56	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	93	20609	5.00	4.73	
77 2-Hexanone	43	8.589	8.584	0.005	90	8059	5.00	5.09	
79 Chlorodibromomethane	129	8.744	8.744	0.000	78	13753	5.00	4.32	
80 Ethylene Dibromide	107	8.873	8.873	0.000	92	11878	5.00	4.61	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	85	577772	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	79	58091	5.00	4.58	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	82	19110	5.00	4.28	
85 Ethylbenzene	106	9.590	9.584	0.006	98	31705	5.00	4.44	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	78305	5.00	4.59	
87 o-Xylene	91	10.296	10.296	0.000	92	81986	5.00	4.66	
88 Styrene	104	10.317	10.317	0.000	90	60534	5.00	4.44	
89 Bromoform	173	10.585	10.590	-0.005	74	7231	5.00	4.03	
90 Isopropylbenzene	105	10.895	10.895	0.000	97	109768	5.00	4.64	
94 Bromobenzene	156	11.387	11.387	0.000	91	26468	5.00	4.74	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	60	13507	5.00	4.69	
96 1,2,3-Trichloropropane	75	11.457	11.462	-0.005	45	13934	5.00	4.59	
97 trans-1,4-Dichloro-2-buten	53	11.489	11.494	-0.005	28	4927	5.00	4.58	
98 N-Propylbenzene	91	11.585	11.585	0.000	96	131329	5.00	4.69	
99 2-Chlorotoluene	91	11.703	11.697	0.006	95	73626	5.00	4.58	
101 4-Chlorotoluene	91	11.869	11.863	0.005	91	86734	5.00	4.69	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	90	93893	5.00	4.71	
103 tert-Butylbenzene	119	12.323	12.323	0.000	91	86392	5.00	4.59	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	64	95821	5.00	4.69	
106 sec-Butylbenzene	105	12.623	12.623	0.000	93	126798	5.00	4.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	51997	5.00	4.54	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	68	110862	5.00	4.70	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	96	318096	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	92	49553	5.00	4.47	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	72	44020	5.00	4.55	
114 n-Butylbenzene	91	13.329	13.329	0.000	96	94755	5.00	4.61	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	12	2184	5.00	5.31	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	90	29148	5.00	4.42	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	87	21008	5.00	4.65	
119 Naphthalene	128	15.303	15.303	0.000	98	38936	5.00	4.20	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	93	22057	5.00	4.34	
S 123 Xylenes, Total	100				0			9.25	
S 124 Trihalomethanes, Total	1				0			17.4	
S 125 1,3-Dichloropropene, Total	1				0			9.03	
S 126 Trimethylbenzene, Total	1				0			9.41	
S 127 1,2-Dichloroethene, Total	96				0			9.41	

Reagents:

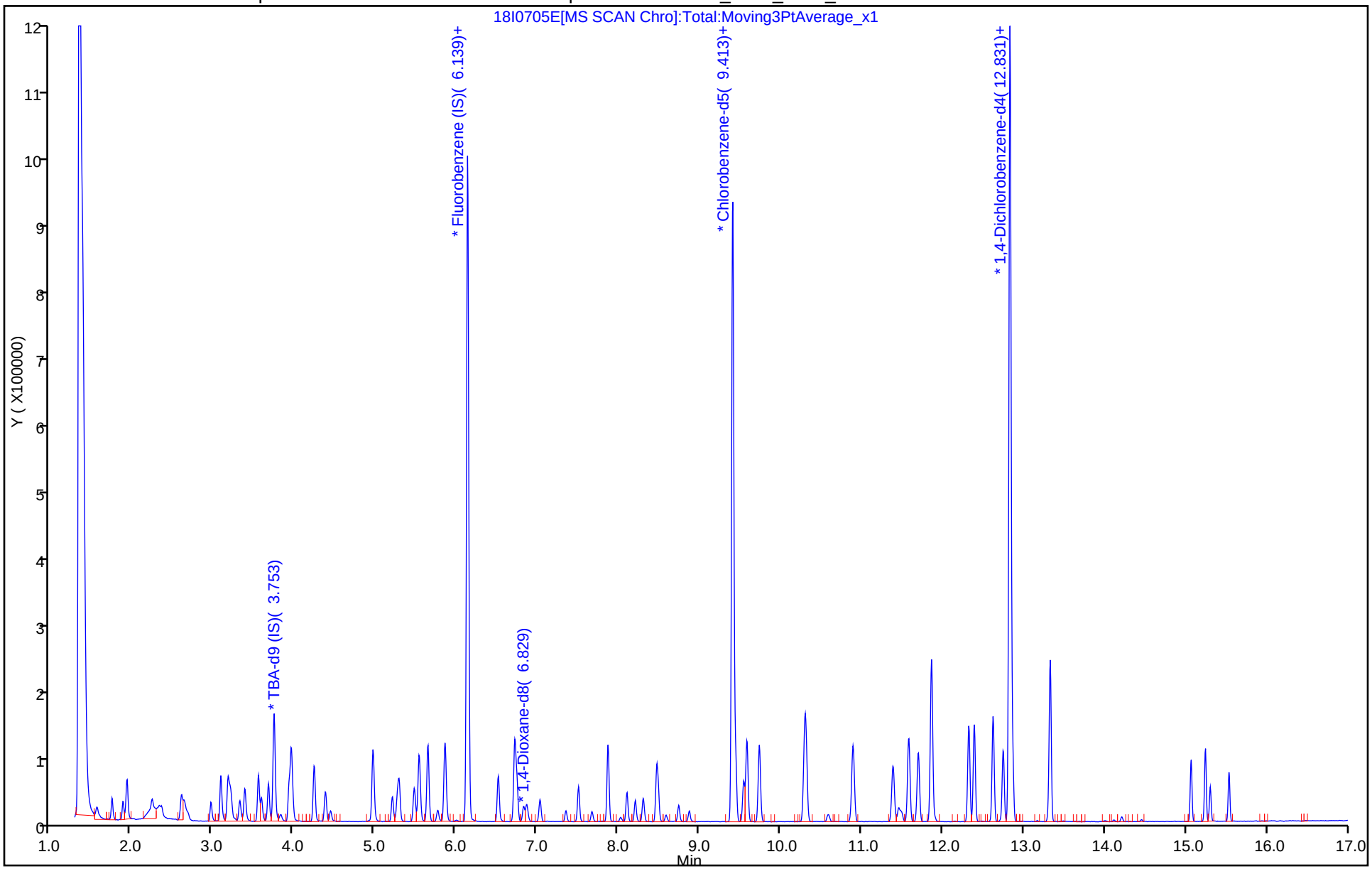
LOW8260ACR_00173	Amount Added:	5.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LO8260/624STD_00259	Amount Added:	5.00	Units: uL

Report Date: 05-Jul-2017 18:04:42 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705E.d

Injection Date:	05-Jul-2017 15:06:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD05			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705F.d
Lims ID: STD06
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Jul-2017 15:31:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD06
Misc. Info.: 500-0046351-007
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:46 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	81700	20.0	17.1	
2 Chloromethane	50	1.758	1.752	0.006	89	120142	20.0	17.6	
3 Vinyl chloride	62	1.891	1.891	0.000	84	109889	20.0	18.7	
4 Butadiene	39	1.940	1.940	0.000	93	118412	20.0	17.8	
5 Bromomethane	94	2.250	2.250	0.000	92	37607	20.0	18.9	
6 Chloroethane	64	2.368	2.362	0.006	91	55755	20.0	19.1	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	82	153756	20.0	18.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	137633	20.0	18.5	
10 Ethyl ether	59	2.972	2.972	0.000	93	63149	20.0	19.4	
11 Acrolein	56	3.095	3.095	0.000	96	242776	800.0	782.6	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	89606	20.0	19.5	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	94835	20.0	19.6	
14 Acetone	43	3.261	3.261	0.000	94	13388	20.0	18.4	
15 Iodomethane	142	3.330	3.330	0.000	98	163760	20.0	19.3	
16 Carbon disulfide	76	3.395	3.389	0.006	99	281113	20.0	18.8	
19 3-Chloro-1-propene	76	3.561	3.560	0.001	91	53644	20.0	19.7	
20 Methyl acetate	43	3.598	3.593	0.005	99	182964	100.0	95.1	
21 Methylene Chloride	84	3.684	3.684	0.000	93	87843	20.0	19.9	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	174054	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	91	44126	200.0	208.6	
24 Acrylonitrile	53	3.935	3.935	0.000	99	188336	200.0	186.7	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	90	96622	20.0	19.5	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	88	166346	20.0	19.3	
27 Hexane	57	4.245	4.245	0.000	94	168669	20.0	18.8	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	184372	20.0	19.6	
29 Vinyl acetate	43	4.449	4.449	0.000	99	108899	20.0	18.7	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	83	101874	20.0	19.7	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	109238	20.0	19.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	55	20908	20.0	20.0	
39 Chlorobromomethane	128	5.214	5.214	0.000	91	41021	20.0	19.4	
40 Tetrahydrofuran	42	5.267	5.267	0.000	87	29255	40.0	40.4	
41 Chloroform	83	5.299	5.294	0.005	83	148141	20.0	19.1	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	67	80718	20.0	19.1	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	88	134251	20.0	19.2	
44 Cyclohexane	56	5.545	5.545	0.000	93	216395	20.0	19.3	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	85	118509	20.0	19.6	
46 Carbon tetrachloride	117	5.652	5.652	0.000	78	118670	20.0	19.1	
47 Isobutyl alcohol	43	5.770	5.770	0.000	95	47449	500.0	488.7	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	79875	20.0	19.4	
49 Benzene	78	5.861	5.861	0.000	96	335016	20.0	19.3	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	56	102909	20.0	19.5	
53 n-Heptane	43	6.134	6.134	0.000	54	165708	20.0	18.7	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	97	796927	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	96750	20.0	19.4	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	184812	20.0	19.7	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	86	87032	20.0	18.9	
* 61 1,4-Dioxane-d8	96	6.835	6.834	0.001	0	17436	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	83	35538	20.0	19.1	
64 1,4-Dioxane	88	6.888	6.888	0.000	52	8563	400.0	445.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	90	86406	20.0	18.6	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	91	29172	20.0	19.2	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	81	108674	20.0	19.5	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	95	46539	20.0	20.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.803	-0.006	94	297039	20.0	19.3	
71 Toluene	92	7.872	7.872	0.000	88	197663	20.0	19.2	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	86409	20.0	19.1	
73 Ethyl methacrylate	69	8.209	8.209	0.000	81	61111	20.0	20.8	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	90	46098	20.0	18.7	
75 Tetrachloroethene	166	8.472	8.472	0.000	90	98599	20.0	19.6	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	82025	20.0	19.3	
77 2-Hexanone	43	8.584	8.584	0.000	95	31482	20.0	20.4	
79 Chlorodibromomethane	129	8.744	8.744	0.000	87	56685	20.0	18.3	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	47581	20.0	19.0	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	562417	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	92	231158	20.0	18.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	86	82427	20.0	19.0	
85 Ethylbenzene	106	9.584	9.584	0.000	99	133251	20.0	19.2	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	318336	20.0	19.2	
87 o-Xylene	91	10.296	10.296	0.000	92	326547	20.0	19.0	
88 Styrene	104	10.317	10.317	0.000	92	253871	20.0	19.1	
89 Bromoform	173	10.590	10.590	0.000	97	31783	20.0	18.2	
90 Isopropylbenzene	105	10.895	10.895	0.000	97	445645	20.0	18.7	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	90	126981	20.0	20.1	
94 Bromobenzene	156	11.387	11.387	0.000	90	105458	20.0	18.8	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	65	53394	20.0	19.8	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	49	58789	20.0	19.3	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	47	19904	20.0	18.4	
98 N-Propylbenzene	91	11.580	11.585	-0.005	98	533504	20.0	19.0	
99 2-Chlorotoluene	91	11.703	11.697	0.006	97	301823	20.0	20.2	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	88	383613	20.0	19.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.863	11.863	0.000	87	350259	20.0	18.8	
103 tert-Butylbenzene	119	12.323	12.323	0.000	93	357420	20.0	18.9	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	390056	20.0	19.0	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	516926	20.0	19.1	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	216750	20.0	18.8	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	93	457613	20.0	19.3	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	96	319614	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	93	212318	20.0	19.0	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	73	184844	20.0	19.0	
114 n-Butylbenzene	91	13.329	13.329	0.000	96	394914	20.0	19.1	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	47	7872	20.0	19.0	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	92	126644	20.0	19.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	86502	20.0	19.1	
119 Naphthalene	128	15.303	15.303	0.000	99	172680	20.0	18.5	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	96998	20.0	19.0	
S 123 Xylenes, Total	100				0			38.2	
S 124 Trihalomethanes, Total	1				0			74.3	
S 125 1,3-Dichloropropene, Total	1				0			38.6	
S 126 Trimethylbenzene, Total	1				0			38.2	
S 127 1,2-Dichloroethene, Total	96				0			39.2	

Reagents:

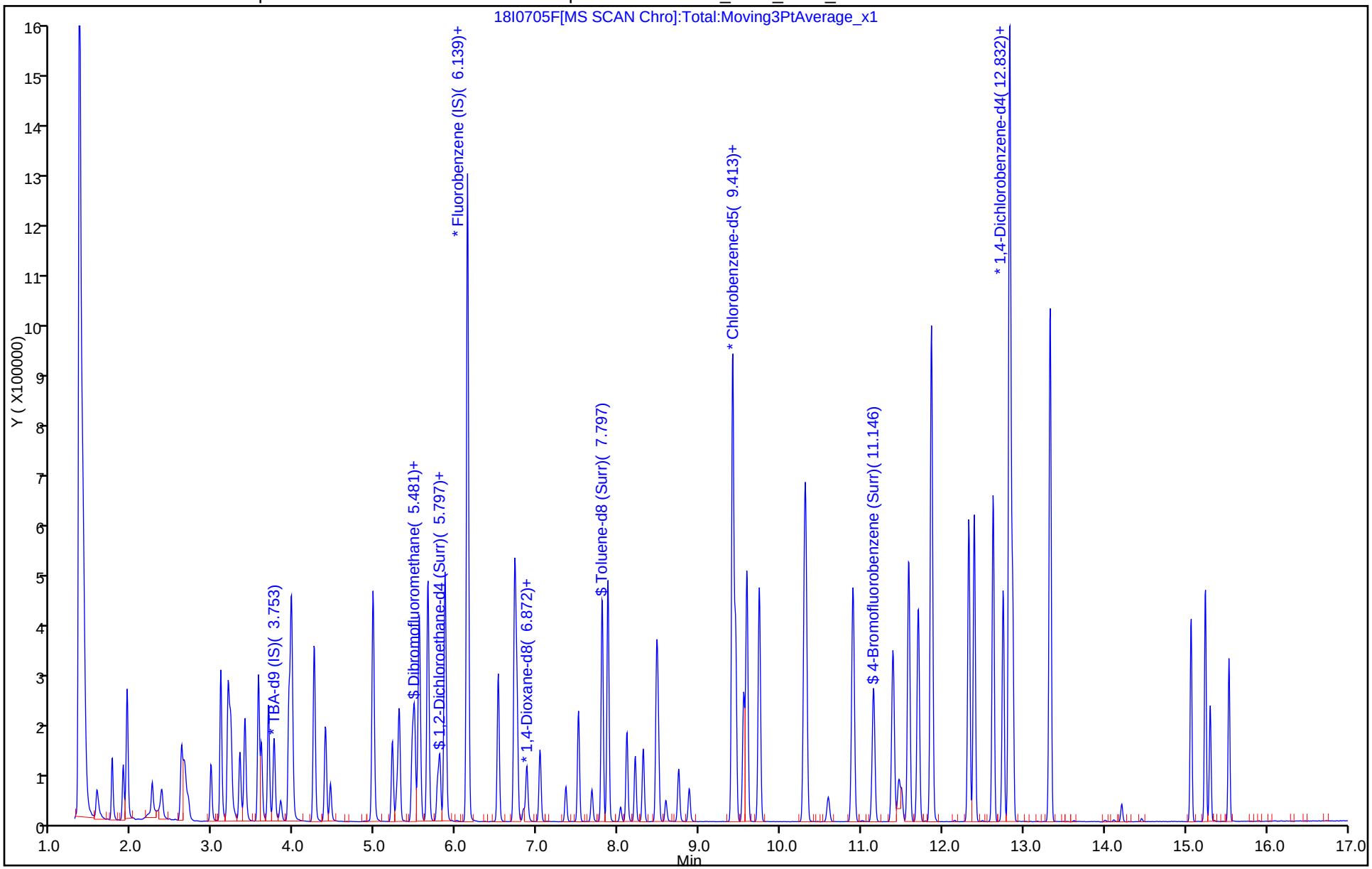
LOW8260ACR_00173	Amount Added: 20.00	Units: uL
8260 LOWSS1_00133	Amount Added: 2.00	Units: uL
8260 LOWIS1_00108	Amount Added: 5.00	Units: uL
LO8260/624STD_00259	Amount Added: 20.00	Units: uL

Report Date: 05-Jul-2017 18:04:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705F.d

Injection Date:	05-Jul-2017 15:31:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD06			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705G.d
Lims ID: STD07
Client ID:
Sample Type: ICIS Calib Level: 7
Inject. Date: 05-Jul-2017 15:56:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD07
Misc. Info.: 500-0046351-008
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:52 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	272116	50.0	56.6	
2 Chloromethane	50	1.752	1.752	0.000	89	336875	50.0	49.1	
3 Vinyl chloride	62	1.891	1.891	0.000	84	305131	50.0	51.9	
4 Butadiene	39	1.940	1.940	0.000	94	332358	50.0	49.6	
5 Bromomethane	94	2.250	2.250	0.000	90	96111	50.0	48.9	
6 Chloroethane	64	2.362	2.362	0.000	92	135433	50.0	46.2	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	83	391107	50.0	47.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	367395	50.0	49.0	
10 Ethyl ether	59	2.972	2.972	0.000	96	162953	50.0	49.8	
11 Acrolein	56	3.095	3.095	0.000	96	637851	2000.0	2044.0	
12 1,1-Dichloroethene	96	3.181	3.181	0.000	86	228803	50.0	49.5	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	83	247497	50.0	50.9	
14 Acetone	43	3.261	3.261	0.000	98	34308	50.0	46.8	
15 Iodomethane	142	3.330	3.330	0.000	97	425176	50.0	49.9	
16 Carbon disulfide	76	3.389	3.389	0.000	99	756356	50.0	50.3	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	139927	50.0	51.0	
20 Methyl acetate	43	3.593	3.593	0.000	97	461931	250.0	238.7	
21 Methylene Chloride	84	3.684	3.684	0.000	93	223357	50.0	50.3	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180389	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.839	3.839	0.000	90	105305	500.0	480.3	
24 Acrylonitrile	53	3.935	3.935	0.000	99	486981	500.0	480.0	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	90	247445	50.0	49.6	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	420529	50.0	48.4	
27 Hexane	57	4.245	4.245	0.000	95	447347	50.0	49.5	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	86	463937	50.0	48.9	
29 Vinyl acetate	43	4.449	4.449	0.000	99	274781	50.0	46.9	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	274726	50.0	49.6	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	256370	50.0	49.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	59	53426	50.0	50.7	
39 Chlorobromomethane	128	5.214	5.214	0.000	90	102218	50.0	48.1	
40 Tetrahydrofuran	42	5.267	5.267	0.000	89	68078	100.0	97.0	
41 Chloroform	83	5.294	5.294	0.000	84	372573	50.0	47.8	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	63	211073	50.0	49.7	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	348782	50.0	49.5	
44 Cyclohexane	56	5.545	5.545	0.000	93	562502	50.0	49.8	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	85	301684	50.0	49.5	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	316472	50.0	50.5	
47 Isobutyl alcohol	43	5.770	5.770	0.000	96	121739	1250.0	1209.9	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	203800	50.0	49.1	
49 Benzene	78	5.861	5.861	0.000	95	847471	50.0	48.5	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	58	259491	50.0	48.8	
53 n-Heptane	43	6.134	6.134	0.000	80	436764	50.0	48.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	93	801683	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	244484	50.0	48.6	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	469084	50.0	49.8	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	222854	50.0	48.2	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	18119	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	86	91089	50.0	48.6	
64 1,4-Dioxane	88	6.888	6.888	0.000	67	19097	1000.0	955.5	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	226010	50.0	48.5	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	71633	50.0	46.6	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	276998	50.0	49.0	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	116399	50.0	49.5	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	772381	50.0	49.5	
71 Toluene	92	7.872	7.872	0.000	85	492442	50.0	47.1	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	214741	50.0	47.0	
73 Ethyl methacrylate	69	8.209	8.209	0.000	84	144793	50.0	49.2	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	112325	50.0	45.0	
75 Tetrachloroethene	166	8.472	8.472	0.000	90	250004	50.0	49.0	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	97	200846	50.0	46.8	
77 2-Hexanone	43	8.584	8.584	0.000	76	79377	50.0	50.9	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	151435	50.0	48.2	
80 Ethylene Dibromide	107	8.873	8.873	0.000	97	118442	50.0	46.6	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	87	569472	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	93	587653	50.0	47.0	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	208912	50.0	47.4	
85 Ethylbenzene	106	9.584	9.584	0.000	99	334739	50.0	47.5	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	799570	50.0	47.6	
87 o-Xylene	91	10.296	10.296	0.000	94	832050	50.0	47.9	
88 Styrene	104	10.317	10.317	0.000	91	633051	50.0	47.1	
89 Bromoform	173	10.590	10.590	0.000	98	84269	50.0	47.7	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	1119416	50.0	46.1	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	91	307658	50.0	47.8	
94 Bromobenzene	156	11.387	11.387	0.000	92	259390	50.0	45.3	
95 1,1,2,2-Tetrachloroethane	83	11.392	11.392	0.000	58	128840	50.0	47.5	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	51	145921	50.0	46.8	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	70	51269	50.0	46.5	
98 N-Propylbenzene	91	11.585	11.585	0.000	98	1310644	50.0	45.7	
99 2-Chlorotoluene	91	11.697	11.697	0.000	98	742252	50.0	49.3	
101 4-Chlorotoluene	91	11.863	11.863	0.000	87	855588	50.0	45.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	951676	50.0	46.6	
103 tert-Butylbenzene	119	12.323	12.323	0.000	93	889840	50.0	46.1	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	972016	50.0	46.4	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	1292282	50.0	46.8	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	528543	50.0	45.0	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	94	1141738	50.0	47.2	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	80	326186	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	94	517781	50.0	45.5	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	72	454217	50.0	45.7	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	994436	50.0	47.2	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	56	19714	50.0	46.7	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	318543	50.0	47.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	219148	50.0	47.3	
119 Naphthalene	128	15.303	15.303	0.000	99	455189	50.0	47.9	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	246565	50.0	47.3	

Reagents:

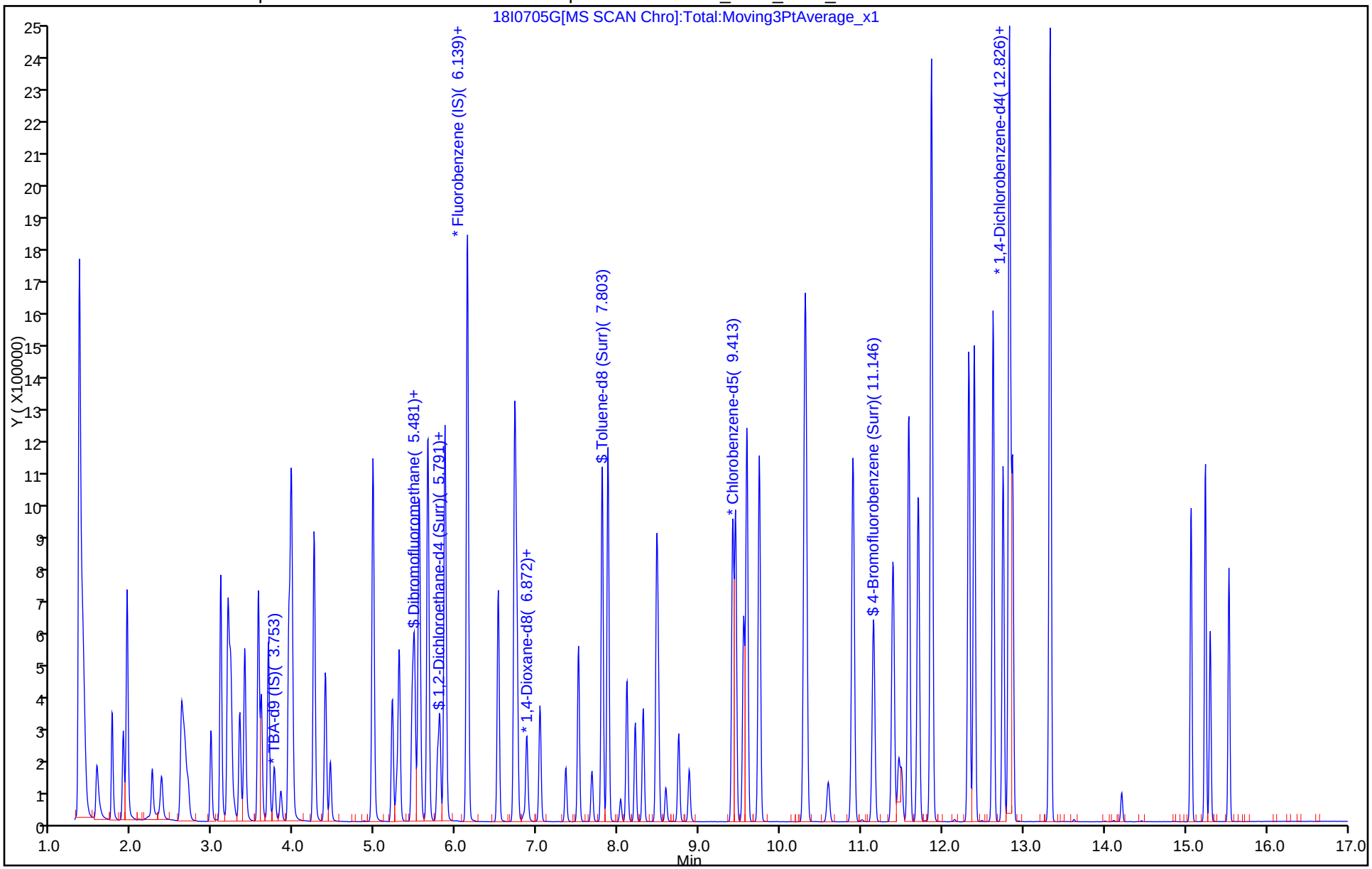
8260 LOWSS1_00133	Amount Added:	5.00	Units: uL
8260/624ACRWK_00334	Amount Added:	2.50	Units: uL
8260/624GASWK_00457	Amount Added:	2.50	Units: uL
8260/624KETWK_00262	Amount Added:	2.50	Units: uL
8260VA/2CEVE_00276	Amount Added:	2.50	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	2.50	Units: uL

Report Date: 05-Jul-2017 18:04:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705G.d

Injection Date:	05-Jul-2017 15:56:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD07			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705H.d
Lims ID: STD08
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 05-Jul-2017 16:21:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD08
Misc. Info.: 500-0046351-009
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:58 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	527601	100.0	110.4	
2 Chloromethane	50	1.752	1.752	0.000	89	674171	100.0	98.8	
3 Vinyl chloride	62	1.891	1.891	0.000	84	604942	100.0	103.7	
4 Butadiene	39	1.940	1.940	0.000	93	667705	100.0	100.2	
5 Bromomethane	94	2.250	2.250	0.000	90	193959	100.0	99.8	
6 Chloroethane	64	2.362	2.362	0.000	92	277550	100.0	95.2	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	84	772426	100.0	95.1	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	713643	100.0	95.6	
10 Ethyl ether	59	2.972	2.972	0.000	97	339452	100.0	104.3	
11 Acrolein	56	3.095	3.095	0.000	94	1281902	4000.0	4130.6	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	456181	100.0	99.3	
13 1,1,2-Trichloro-1,2,2-trif	101	3.213	3.218	-0.005	84	481780	100.0	99.7	
14 Acetone	43	3.261	3.261	0.000	96	70846	100.0	97.2	
15 Iodomethane	142	3.330	3.330	0.000	97	857408	100.0	101.2	
16 Carbon disulfide	76	3.389	3.389	0.000	99	1539407	100.0	102.9	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	267341	100.0	97.9	
20 Methyl acetate	43	3.593	3.593	0.000	100	983993	500.0	511.3	
21 Methylene Chloride	84	3.684	3.684	0.000	93	441233	100.0	99.9	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	176950	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	99	221896	1000.0	1031.8	
24 Acrylonitrile	53	3.935	3.935	0.000	98	1008539	1000.0	999.5	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	484469	100.0	97.7	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	856864	100.0	99.2	
27 Hexane	57	4.245	4.245	0.000	94	893243	100.0	99.5	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	944075	100.0	100.1	
29 Vinyl acetate	43	4.449	4.449	0.000	99	569580	100.0	97.7	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	513610	100.0	99.3	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	530587	100.0	96.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	42	102095	100.0	97.4	
39 Chlorobromomethane	128	5.214	5.214	0.000	92	214726	100.0	101.7	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	88	140204	200.0	203.7	
41 Chloroform	83	5.294	5.294	0.000	74	752011	100.0	97.1	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	65	427416	100.0	101.3	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	699595	100.0	99.9	
44 Cyclohexane	56	5.545	5.545	0.000	94	1118318	100.0	99.6	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	597260	100.0	98.6	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	638700	100.0	102.6	
47 Isobutyl alcohol	43	5.770	5.770	0.000	97	256767	2500.0	2601.5	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	412779	100.0	100.1	
49 Benzene	78	5.861	5.861	0.000	95	1716482	100.0	98.9	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	55	536135	100.0	101.4	
53 n-Heptane	43	6.134	6.134	0.000	95	870212	100.0	97.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	85	797286	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	91	493280	100.0	98.6	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	920502	100.0	98.2	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	451436	100.0	98.2	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18605	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	185247	100.0	99.4	
64 1,4-Dioxane	88	6.888	6.888	0.000	64	41154	2000.0	2005.3	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	466445	100.0	100.5	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	94	146114	100.0	97.6	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	561271	100.0	101.9	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	229053	100.0	99.9	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	1550106	100.0	101.9	
71 Toluene	92	7.872	7.872	0.000	93	1003686	100.0	98.5	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	437551	100.0	98.2	
73 Ethyl methacrylate	69	8.209	8.209	0.000	83	292943	100.0	102.7	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	87	234406	100.0	96.3	
75 Tetrachloroethene	166	8.471	8.472	-0.001	91	489260	100.0	98.5	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	406391	100.0	97.1	
77 2-Hexanone	43	8.584	8.584	0.000	98	149581	100.0	98.4	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	315790	100.0	103.2	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	240318	100.0	97.1	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	88	555088	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	95	1155483	100.0	94.9	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	430534	100.0	100.3	
85 Ethylbenzene	106	9.590	9.584	0.006	99	654389	100.0	95.3	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	1570381	100.0	95.9	
87 o-Xylene	91	10.296	10.296	0.000	93	1633419	100.0	96.5	
88 Styrene	104	10.317	10.317	0.000	92	1255558	100.0	95.9	
89 Bromoform	173	10.590	10.590	0.000	98	185997	100.0	107.9	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	2208656	100.0	95.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	90	614724	100.0	100.1	
94 Bromobenzene	156	11.387	11.387	0.000	91	515768	100.0	94.3	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	66	265906	100.0	103.3	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	52	293535	100.0	98.7	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	76	103376	100.0	98.2	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	2566380	100.0	93.7	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	1461715	100.0	102.2	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	1852778	100.0	95.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.869	11.863	0.006	92	1667450	100.0	92.1	
103 tert-Butylbenzene	119	12.323	12.323	0.000	89	1761077	100.0	95.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	1908558	100.0	95.5	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	2530460	100.0	96.0	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	1058714	100.0	94.5	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	95	2243353	100.0	97.2	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	72	311229	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	94	1030219	100.0	94.9	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	75	904238	100.0	95.4	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	1963275	100.0	97.7	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	63	42234	100.0	104.9	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	92	645373	100.0	100.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	427080	100.0	96.7	
119 Naphthalene	128	15.303	15.303	0.000	98	950708	100.0	104.9	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	503726	100.0	101.3	
S 123 Xylenes, Total	100				0			192.4	
S 124 Trihalomethanes, Total	1				0			408.8	
S 125 1,3-Dichloropropene, Total	1				0			200.1	
S 126 Trimethylbenzene, Total	1				0			190.6	
S 127 1,2-Dichloroethene, Total	96				0			197.0	

Reagents:

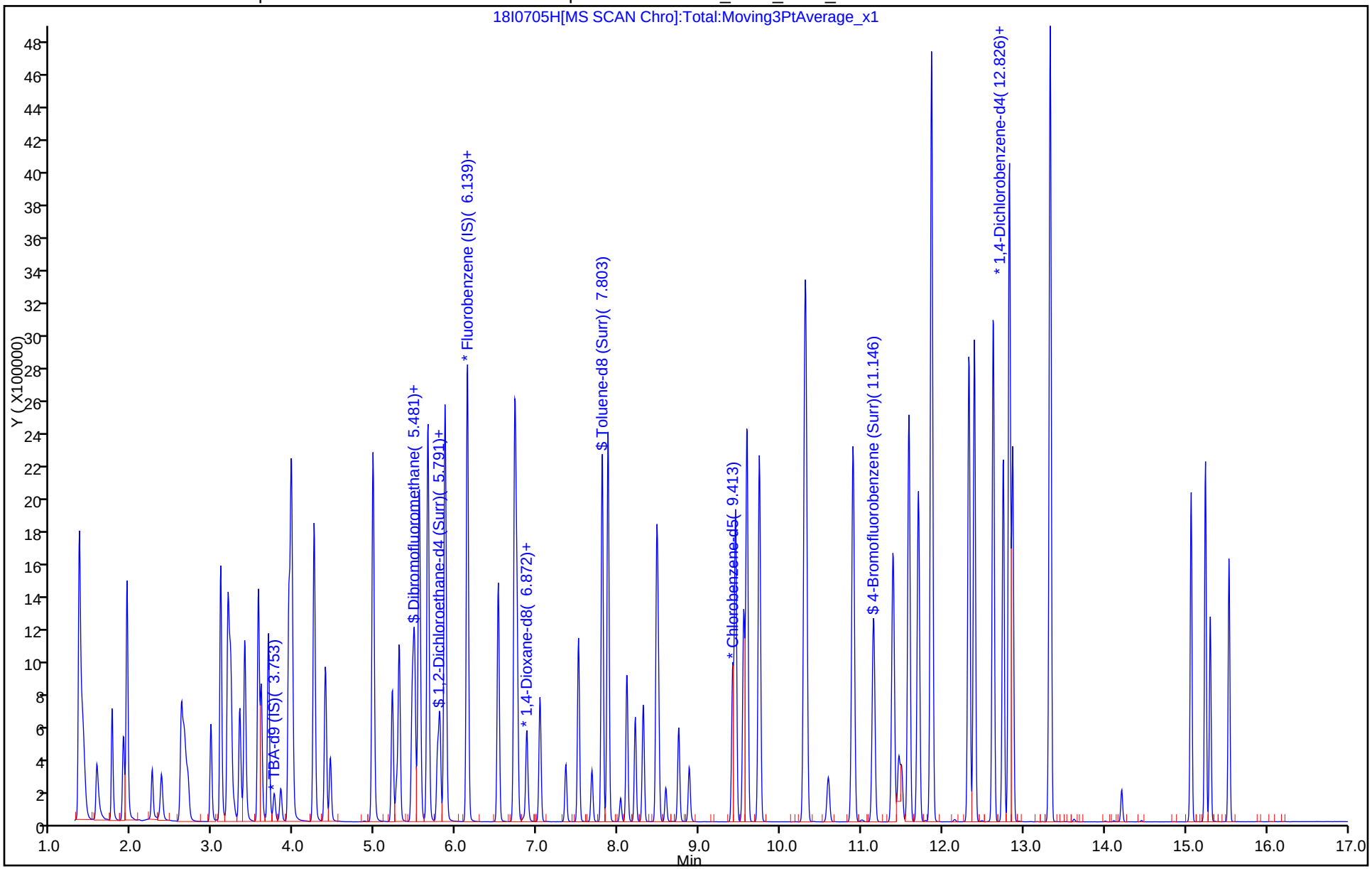
8260 LOWSS1_00133	Amount Added:	10.00	Units: uL
8260/624ACRWK_00334	Amount Added:	5.00	Units: uL
8260/624GASWK_00457	Amount Added:	5.00	Units: uL
8260/624KETWK_00262	Amount Added:	5.00	Units: uL
8260VA/2CEVE_00276	Amount Added:	5.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	5.00	Units: uL

Report Date: 05-Jul-2017 18:05:00 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705H.d

Injection Date:	05-Jul-2017 16:21:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD08			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705I.d
Lims ID: STD09
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 05-Jul-2017 16:46:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD09
Misc. Info.: 500-0046351-010
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:05:05 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:05:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	88	775138	150.0	163.0	
2 Chloromethane	50	1.757	1.752	0.005	89	991831	150.0	146.1	
3 Vinyl chloride	62	1.897	1.891	0.006	83	897571	150.0	154.7	
4 Butadiene	39	1.939	1.940	-0.001	93	996872	150.0	150.4	
5 Bromomethane	94	2.250	2.250	0.000	91	288419	150.0	149.5	
6 Chloroethane	64	2.367	2.362	0.005	91	415683	150.0	143.3	
7 Dichlorofluoromethane	67	2.613	2.608	0.005	83	1129805	150.0	139.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	1059463	150.0	142.7	
10 Ethyl ether	59	2.972	2.972	0.000	98	500438	150.0	154.5	
11 Acrolein	56	3.095	3.095	0.000	96	1915013	6000.0	6202.8	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	693260	150.0	151.7	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	715425	150.0	148.8	
14 Acetone	43	3.261	3.261	0.000	97	105095	150.0	144.9	
15 Iodomethane	142	3.330	3.330	0.000	98	1282816	150.0	152.2	
16 Carbon disulfide	76	3.394	3.389	0.005	99	2278552	150.0	153.1	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	91	404491	150.0	148.9	
20 Methyl acetate	43	3.592	3.593	-0.001	100	1441283	750.0	752.8	
21 Methylene Chloride	84	3.683	3.684	-0.001	92	658706	150.0	150.0	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180577	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	99	330674	1500.0	1506.7	
24 Acrylonitrile	53	3.935	3.935	0.000	98	1497067	1500.0	1491.3	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	717405	150.0	145.4	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	92	1264809	150.0	147.2	
27 Hexane	57	4.250	4.245	0.005	95	1354731	150.0	151.6	
28 1,1-Dichloroethane	63	4.390	4.384	0.006	85	1425060	150.0	151.9	
29 Vinyl acetate	43	4.448	4.449	-0.001	99	904001	150.0	155.8	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	58	768970	150.0	140.3	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	765209	150.0	148.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	42	154325	150.0	148.0	
39 Chlorobromomethane	128	5.213	5.214	-0.001	92	315622	150.0	150.2	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	90	210363	300.0	308.7	
41 Chloroform	83	5.299	5.294	0.005	84	1142376	150.0	148.3	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	65	648559	150.0	154.5	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	90	1028320	150.0	147.5	
44 Cyclohexane	56	5.545	5.545	0.000	94	1678279	150.0	150.2	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	84	903310	150.0	149.9	
46 Carbon tetrachloride	117	5.652	5.652	0.000	74	957861	150.0	154.6	
47 Isobutyl alcohol	43	5.770	5.770	0.000	95	379845	3750.0	3771.2	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.796	5.797	-0.001	0	629613	150.0	153.4	
49 Benzene	78	5.861	5.861	0.000	95	2592258	150.0	150.1	
50 1,2-Dichloroethane	62	5.871	5.872	-0.001	54	802623	150.0	152.6	
53 n-Heptane	43	6.134	6.134	0.000	96	1345711	150.0	152.2	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	68	793160	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	746200	150.0	150.0	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	1372161	150.0	147.1	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	87	693362	150.0	151.6	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	18964	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	88	279814	150.0	151.0	
64 1,4-Dioxane	88	6.888	6.888	0.000	63	62699	3000.0	2997.3	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	725445	150.0	157.2	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	224705	150.0	149.4	
68 cis-1,3-Dichloropropene	75	7.508	7.509	-0.001	86	866161	150.0	156.5	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	345903	150.0	150.1	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	2347763	150.0	153.7	
71 Toluene	92	7.872	7.872	0.000	91	1530063	150.0	149.5	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	665032	150.0	148.6	
73 Ethyl methacrylate	69	8.209	8.209	0.000	82	436487	150.0	152.6	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	89	353136	150.0	144.4	
75 Tetrachloroethene	166	8.477	8.472	0.005	91	755618	150.0	151.4	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	617105	150.0	146.8	
77 2-Hexanone	43	8.584	8.584	0.000	98	222613	150.0	145.8	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	486428	150.0	158.3	
80 Ethylene Dibromide	107	8.873	8.873	0.000	100	362820	150.0	145.9	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	557640	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	1783602	150.0	145.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	665912	150.0	154.4	
85 Ethylbenzene	106	9.589	9.584	0.005	99	1002770	150.0	145.4	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	2365982	150.0	143.8	
87 o-Xylene	91	10.301	10.296	0.005	91	2463745	150.0	145.0	
88 Styrene	104	10.317	10.317	0.000	91	1898183	150.0	144.3	
89 Bromoform	173	10.590	10.590	0.000	97	279997	150.0	161.7	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	3320949	150.0	148.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	89	924613	150.0	155.7	
94 Bromobenzene	156	11.387	11.387	0.000	90	777571	150.0	147.1	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	64	388572	150.0	156.3	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	53	443741	150.0	154.4	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	78	155723	150.0	153.1	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	3801360	150.0	143.5	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	2200917	150.0	159.4	
101 4-Chlorotoluene	91	11.868	11.863	0.005	91	2487588	150.0	142.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	2751022	150.0	146.0	
103 tert-Butylbenzene	119	12.328	12.323	0.005	93	2591771	150.0	145.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	2824184	150.0	146.2	
106 sec-Butylbenzene	105	12.628	12.623	0.005	94	3678597	150.0	144.4	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	1572809	150.0	145.2	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	94	3274818	150.0	146.8	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	57	300905	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.863	12.864	-0.001	94	1530441	150.0	145.8	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	77	1330213	150.0	145.2	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	2822903	150.0	145.3	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	59	60110	150.0	154.4	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	90	921392	150.0	147.8	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	600596	150.0	140.6	
119 Naphthalene	128	15.303	15.303	0.000	98	1345710	150.0	153.5	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	93	711241	150.0	147.9	
S 123 Xylenes, Total	100				0			288.7	
S 124 Trihalomethanes, Total	1				0			625.4	
S 125 1,3-Dichloropropene, Total	1				0			305.1	
S 126 Trimethylbenzene, Total	1				0			292.2	
S 127 1,2-Dichloroethene, Total	96				0			294.2	

Reagents:

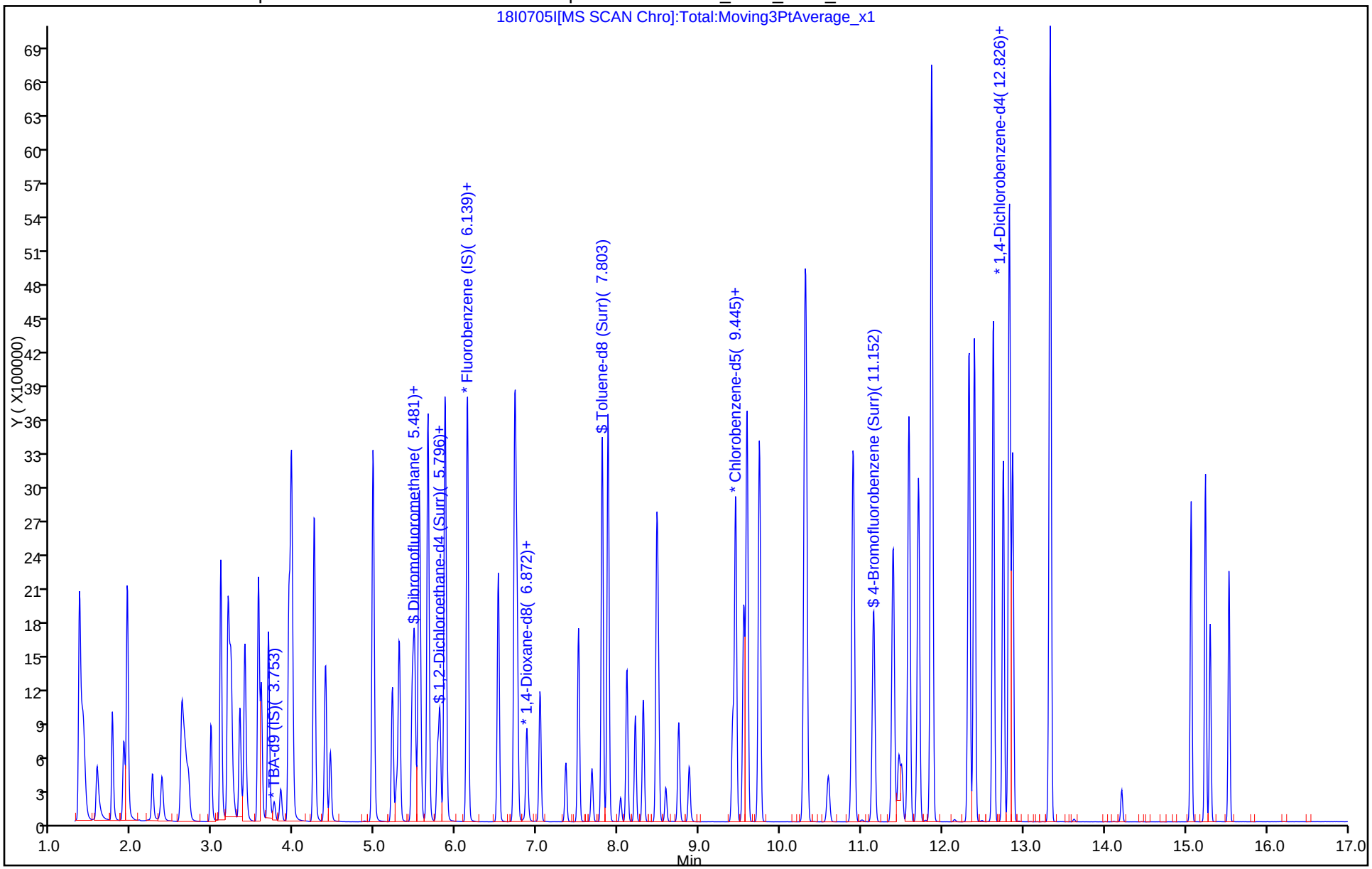
8260 LOWSS1_00133	Amount Added:	15.00	Units: uL
8260/624ACRWK_00334	Amount Added:	7.50	Units: uL
8260/624GASWK_00457	Amount Added:	7.50	Units: uL
8260/624KETWK_00262	Amount Added:	7.50	Units: uL
8260VA/2CEVE_00276	Amount Added:	7.50	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	7.50	Units: uL

Report Date: 05-Jul-2017 18:05:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705I.d

Injection Date:	05-Jul-2017 16:46:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD09			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 05-Jul-2017 17:12:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Misc. Info.: 500-0046351-011
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:05:10 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:05:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	88	1061995	200.0	224.7	
2 Chloromethane	50	1.758	1.752	0.006	88	1386497	200.0	205.4	
3 Vinyl chloride	62	1.902	1.891	0.011	82	1227798	200.0	213.1	
4 Butadiene	39	1.940	1.940	0.000	93	1372905	200.0	208.4	
5 Bromomethane	94	2.250	2.250	0.000	90	416245	200.0	217.4	
6 Chloroethane	64	2.368	2.362	0.006	92	599785	200.0	208.1	
7 Dichlorofluoromethane	67	2.614	2.608	0.006	83	1562454	200.0	194.6	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	1450310	200.0	196.6	
10 Ethyl ether	59	2.972	2.972	0.000	98	668978	200.0	207.9	
11 Acrolein	56	3.095	3.095	0.000	94	2604613	8000.0	8489.1	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	914221	200.0	201.3	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	960098	200.0	200.9	
14 Acetone	43	3.261	3.261	0.000	97	144039	200.0	199.9	
15 Iodomethane	142	3.330	3.330	0.000	98	1694761	200.0	202.3	
16 Carbon disulfide	76	3.395	3.389	0.006	99	3024082	200.0	204.5	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	514612	200.0	190.6	
20 Methyl acetate	43	3.593	3.593	0.000	98	1958229	1000.0	1029.2	
21 Methylene Chloride	84	3.684	3.684	0.000	92	865146	200.0	198.2	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180156	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	98	439795	2000.0	2008.5	
24 Acrylonitrile	53	3.935	3.935	0.000	98	2032201	2000.0	2037.1	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	946972	200.0	193.1	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	92	1697581	200.0	198.8	
27 Hexane	57	4.251	4.245	0.006	95	1797062	200.0	202.4	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	1885420	200.0	202.2	
29 Vinyl acetate	43	4.449	4.449	0.000	99	1230286	200.0	213.4	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	1012515	200.0	198.1	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	58	995454	200.0	182.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	43	211058	200.0	203.7	
39 Chlorobromomethane	128	5.214	5.214	0.000	91	422477	200.0	202.4	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	91	286010	400.0	423.3	
41 Chloroform	83	5.299	5.294	0.005	84	1511411	200.0	197.4	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	68	838574	200.0	201.0	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	89	1372930	200.0	198.2	
44 Cyclohexane	56	5.545	5.545	0.000	93	2254682	200.0	203.0	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	83	1185625	200.0	198.0	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	1268130	200.0	206.0	
47 Isobutyl alcohol	43	5.770	5.770	0.000	97	516284	5000.0	5137.8	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	835861	200.0	205.0	
49 Benzene	78	5.861	5.861	0.000	95	3386318	200.0	197.3	
50 1,2-Dichloroethane	62	5.877	5.872	0.005	71	1074681	200.0	205.6	
53 n-Heptane	43	6.134	6.134	0.000	96	1765681	200.0	201.0	
* 54 Fluorobenzene (IS)	96	6.144	6.139	0.005	65	788230	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	985429	200.0	199.3	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	1805649	200.0	194.8	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	87	913964	200.0	201.1	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	20646	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	370367	200.0	201.1	
64 1,4-Dioxane	88	6.888	6.888	0.000	62	79073	4000.0	3472.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	962188	200.0	209.8	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	306734	200.0	202.9	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	86	1150948	200.0	206.9	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	473140	200.0	204.3	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	94	3075705	200.0	200.3	
71 Toluene	92	7.872	7.872	0.000	88	2020225	200.0	196.4	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	891201	200.0	198.1	
73 Ethyl methacrylate	69	8.209	8.209	0.000	83	585681	200.0	203.9	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	475288	200.0	193.3	
75 Tetrachloroethene	166	8.472	8.472	0.000	91	987214	200.0	196.7	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	95	810185	200.0	191.7	
77 2-Hexanone	43	8.584	8.584	0.000	98	302771	200.0	197.2	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	655275	200.0	212.1	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	486421	200.0	194.6	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	560615	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	96	2316648	200.0	188.3	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	873975	200.0	201.6	
85 Ethylbenzene	106	9.590	9.584	0.006	99	1304396	200.0	188.1	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	3093823	200.0	187.0	
87 o-Xylene	91	10.301	10.296	0.005	92	3208794	200.0	187.8	
88 Styrene	104	10.317	10.317	0.000	90	2478330	200.0	187.4	
89 Bromoform	173	10.590	10.590	0.000	98	388152	200.0	223.0	
90 Isopropylbenzene	105	10.900	10.895	0.005	98	4287635	200.0	190.2	
$ 92 4-Bromofluorobenzene (Surr	95	11.152	11.146	0.006	91	1193401	200.0	199.7	
94 Bromobenzene	156	11.387	11.387	0.000	90	1013502	200.0	190.5	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	64	519097	200.0	207.7	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	51	597569	200.0	206.6	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	74	204185	200.0	199.5	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	4885915	200.0	183.3	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	2854571	200.0	205.6	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	88	3527054	200.0	186.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.869	11.863	0.006	88	3225245	200.0	183.1	
103 tert-Butylbenzene	119	12.329	12.323	0.006	88	3359443	200.0	187.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	3642256	200.0	187.4	
106 sec-Butylbenzene	105	12.628	12.623	0.005	94	4697182	200.0	183.2	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	2039179	200.0	187.1	
108 4-Isopropyltoluene	119	12.826	12.821	0.005	95	4150107	200.0	184.9	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	53	302763	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.869	12.864	0.005	94	1992490	200.0	188.7	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	80	1715886	200.0	186.1	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	3553266	200.0	181.8	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	66	81341	200.0	207.7	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	1144526	200.0	182.5	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	750421	200.0	174.6	
119 Naphthalene	128	15.303	15.303	0.000	98	1699293	200.0	192.7	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	869993	200.0	179.8	
S 123 Xylenes, Total	100				0			374.8	
S 124 Trihalomethanes, Total	1				0			842.3	
S 125 1,3-Dichloropropene, Total	1				0			405.0	
S 126 Trimethylbenzene, Total	1				0			373.4	
S 127 1,2-Dichloroethene, Total	96				0			391.2	

Reagents:

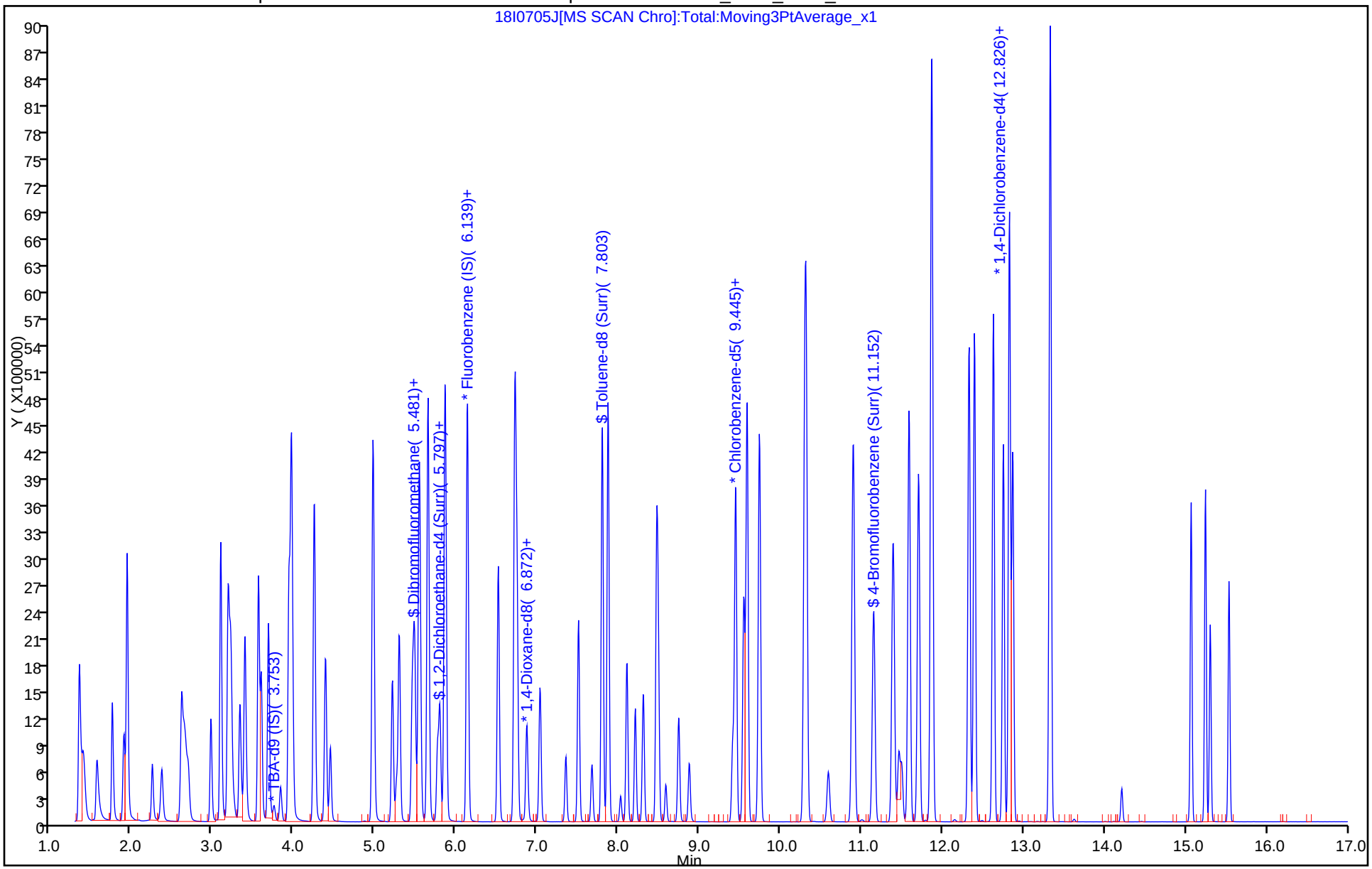
8260 LOWSS1_00133	Amount Added:	20.00	Units: uL
8260/624ACRWK_00334	Amount Added:	10.00	Units: uL
8260/624GASWK_00457	Amount Added:	10.00	Units: uL
8260/624KETWK_00262	Amount Added:	10.00	Units: uL
8260VA/2CEVE_00276	Amount Added:	10.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	10.00	Units: uL

Report Date: 05-Jul-2017 18:05:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Injection Date:	05-Jul-2017 17:12:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD10			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2998	0.2920	0.0100	48.7	50.0	-2.6	30.0
Chloromethane	Ave	0.4281	0.3997	0.1000	46.7	50.0	-6.6	30.0
Vinyl chloride	Lin2		0.3704	0.0100	50.5	50.0	1.0	30.0
Butadiene	Ave	0.4180	0.3885	0.0100	46.5	50.0	-7.1	30.0
Bromomethane	Lin2		0.1169	0.0100	47.7	50.0	-4.7	30.0
Chloroethane	Ave	0.1829	0.1695	0.0100	46.3	50.0	-7.3	30.0
Dichlorofluoromethane	Ave	0.5092	0.5182	0.0100	50.9	50.0	1.8	30.0
Trichlorofluoromethane	Ave	0.4679	0.4430	0.0100	47.3	50.0	-5.3	30.0
Ethyl ether	Ave	0.2041	0.2052	0.0100	50.3	50.0	0.5	30.0
Acrolein	Ave	0.0195	0.0192	0.0010	1980	2000	-1.2	30.0
1,1-Dichloroethene	Ave	0.2881	0.2728	0.0100	47.4	50.0	-5.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3031	0.2857	0.0100	47.1	50.0	-5.8	30.0
Acetone	Ave	0.0457	0.0473	0.0100	51.7	50.0	3.4	30.0
Iodomethane	Ave	0.5313	0.5202	0.0100	48.9	50.0	-2.1	30.0
Carbon disulfide	Ave	0.9382	0.8937	0.0100	47.6	50.0	-4.7	30.0
3-Chloropropene	Ave	0.1713	0.1610	0.0100	47.0	50.0	-6.0	30.0
Methyl acetate	Ave	0.1207	0.1144	0.0100	237	250	-5.3	30.0
Methylene Chloride	Ave	0.2769	0.2784	0.0100	50.3	50.0	0.5	30.0
tert-Butyl alcohol	Ave	1.215	1.249	0.0100	514	500	2.7	30.0
Acrylonitrile	Ave	0.0633	0.0606	0.0010	479	500	-4.2	30.0
trans-1,2-Dichloroethene	Ave	0.3110	0.2992	0.0100	48.1	50.0	-3.8	30.0
Methyl tert-butyl ether	Ave	0.5416	0.5337	0.0100	49.3	50.0	-1.5	30.0
Hexane	Ave	0.5632	0.5254	0.0100	46.6	50.0	-6.7	30.0
1,1-Dichloroethane	Ave	0.5914	0.5734	0.1000	48.5	50.0	-3.0	30.0
Vinyl acetate	Ave	0.3658	0.3379	0.0100	46.2	50.0	-7.6	30.0
2,2-Dichloropropane	Ave	0.3456	0.3247	0.0100	47.0	50.0	-6.0	30.0
cis-1,2-Dichloroethene	Ave	0.3242	0.3126	0.0100	48.2	50.0	-3.6	30.0
Methyl Ethyl Ketone	Ave	0.0657	0.0688	0.0100	52.3	50.0	4.7	30.0
Bromochloromethane	Ave	0.1324	0.1249	0.0100	47.1	50.0	-5.7	30.0
Tetrahydrofuran	Lin2		0.0410	0.0100	93.6	100	-6.4	30.0
Chloroform	Ave	0.4856	0.4596	0.0100	47.3	50.0	-5.4	30.0
1,1,1-Trichloroethane	Ave	0.4394	0.4141	0.0100	47.1	50.0	-5.8	30.0
Cyclohexane	Ave	0.7044	0.6678	0.0100	47.4	50.0	-5.2	30.0
1,1-Dichloropropene	Ave	0.3798	0.3639	0.0100	47.9	50.0	-4.2	30.0
Carbon tetrachloride	Ave	0.3906	0.3804	0.0100	48.7	50.0	-2.6	30.0
Isobutyl alcohol	Ave	0.5578	0.5501	0.0010	1230	1250	-1.4	30.0
Benzene	Ave	1.089	1.048	0.0100	48.1	50.0	-3.7	30.0
1,2-Dichloroethane	Ave	0.3316	0.3186	0.0100	48.0	50.0	-3.9	30.0
Heptane	Ave	0.5573	0.5113	0.0100	45.9	50.0	-8.3	30.0
Trichloroethene	Ave	0.3137	0.2951	0.0100	47.0	50.0	-5.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5880	0.5515	0.0100	46.9	50.0	-6.2	30.0
1,2-Dichloropropane	Ave	0.2883	0.2805	0.0100	48.7	50.0	-2.7	30.0
Dibromomethane	Ave	0.1168	0.1079	0.0100	46.2	50.0	-7.7	30.0
1,4-Dioxane	Ave	1.103	1.128	0.0010	1020	1000	2.2	30.0
Bromodichloromethane	Ave	0.2909	0.2777	0.0100	47.7	50.0	-4.6	30.0
2-Chloroethyl vinyl ether	Ave	0.1348	0.1332	0.0100	49.4	50.0	-1.2	30.0
cis-1,3-Dichloropropene	Ave	0.4961	0.4686	0.0100	47.2	50.0	-5.5	30.0
methyl isobutyl ketone	Ave	0.2066	0.2308	0.0100	55.9	50.0	11.7	30.0
Toluene	Ave	0.9176	0.8446	0.0100	46.0	50.0	-8.0	30.0
trans-1,3-Dichloropropene	Ave	0.4013	0.3550	0.0100	44.2	50.0	-11.5	30.0
Ethyl methacrylate	Lin2		0.2514	0.0100	48.7	50.0	-2.6	30.0
1,1,2-Trichloroethane	Ave	0.2193	0.2012	0.0100	45.9	50.0	-8.2	30.0
Tetrachloroethene	Ave	0.4475	0.4075	0.0100	45.5	50.0	-9.0	30.0
1,3-Dichloropropane	Ave	0.3769	0.3369	0.0100	44.7	50.0	-10.6	30.0
2-Hexanone	Ave	0.1369	0.1559	0.0100	56.9	50.0	13.8	30.0
Dibromochloromethane	Ave	0.2756	0.2523	0.0100	45.8	50.0	-8.4	30.0
1,2-Dibromoethane	Ave	0.2229	0.2055	0.0100	46.1	50.0	-7.8	30.0
Chlorobenzene	Ave	1.097	1.004	0.3000	45.7	50.0	-8.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3866	0.3726	0.0100	48.2	50.0	-3.6	30.0
Ethylbenzene	Ave	0.6185	0.5694	0.0100	46.0	50.0	-7.9	30.0
m&p-Xylene	Ave	1.475	1.329	0.0100	45.0	50.0	-9.9	30.0
o-Xylene	Ave	1.524	1.409	0.0100	46.2	50.0	-7.5	30.0
Styrene	Ave	1.179	1.091	0.0100	46.2	50.0	-7.5	30.0
Bromoform	Ave	0.1553	0.1455	0.1000	46.8	50.0	-6.3	30.0
Isopropylbenzene	Ave	3.722	3.359	0.0100	45.1	50.0	-9.7	30.0
Bromobenzene	Ave	0.8786	0.7999	0.0100	45.5	50.0	-9.0	30.0
1,1,2,2-Tetrachloroethane	Lin2		0.3999	0.3000	48.1	50.0	-3.8	30.0
1,2,3-Trichloropropane	Ave	0.4777	0.4635	0.0100	48.5	50.0	-3.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1690	0.1596	0.0100	47.2	50.0	-5.6	30.0
N-Propylbenzene	Ave	4.401	3.906	0.0100	44.4	50.0	-11.2	30.0
2-Chlorotoluene	Lin2		2.261	0.0100	48.9	50.0	-2.1	30.0
1,3,5-Trimethylbenzene	Ave	3.130	2.879	0.0100	46.0	50.0	-8.0	30.0
4-Chlorotoluene	Ave	2.908	2.594	0.0100	44.6	50.0	-10.8	30.0
tert-Butylbenzene	Ave	2.956	2.680	0.0100	45.3	50.0	-9.3	30.0
1,2,4-Trimethylbenzene	Ave	3.211	2.935	0.0100	45.7	50.0	-8.6	30.0
sec-Butylbenzene	Ave	4.234	3.820	0.0100	45.1	50.0	-9.8	30.0
1,3-Dichlorobenzene	Ave	1.800	1.607	0.0100	44.6	50.0	-10.7	30.0
p-Isopropyltoluene	Ave	3.706	3.412	0.0100	46.0	50.0	-7.9	30.0
1,4-Dichlorobenzene	Ave	1.744	1.595	0.0100	45.7	50.0	-8.5	30.0
1,2-Dichlorobenzene	Ave	1.522	1.401	0.0100	46.0	50.0	-7.9	30.0
n-Butylbenzene	Ave	3.228	2.910	0.0100	45.1	50.0	-9.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0647	0.0603	0.0100	46.6	50.0	-6.8	30.0
1,2,4-Trichlorobenzene	Ave	1.036	0.9580	0.0100	46.2	50.0	-7.5	30.0
Hexachlorobutadiene	Ave	0.7098	0.6503	0.0100	45.8	50.0	-8.4	30.0
Naphthalene	Ave	1.457	1.373	0.0100	47.1	50.0	-5.7	30.0
1,2,3-Trichlorobenzene	Ave	0.7991	0.7788	0.0100	48.7	50.0	-2.5	30.0
Dibromofluoromethane	Ave	0.2646	0.2543	0.0100	48.0	50.0	-3.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.2409	0.0100	46.6	50.0	-6.9	30.0
Toluene-d8 (Surr)	Ave	1.370	1.271	0.0100	46.4	50.0	-7.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.9346	0.0100	47.4	50.0	-5.3	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18S0705ICV1.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 05-Jul-2017 18:26:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV 1
Misc. Info.: 500-0046351-014
Operator ID: EA Instrument ID: CMS18
Sublist:
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:50:13 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:50:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	86	226273	50.0	48.7	
2 Chloromethane	50	1.758	1.752	0.006	89	309726	50.0	46.7	
3 Vinyl chloride	62	1.891	1.891	0.000	83	286985	50.0	50.5	
4 Butadiene	39	1.939	1.940	-0.001	93	301021	50.0	46.5	
5 Bromomethane	94	2.250	2.250	0.000	90	90546	50.0	47.7	
6 Chloroethane	64	2.367	2.362	0.005	91	131305	50.0	46.3	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	83	401573	50.0	50.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	343254	50.0	47.3	
10 Ethyl ether	59	2.977	2.972	0.005	97	158994	50.0	50.3	
11 Acrolein	56	3.095	3.095	0.000	95	596015	2000.0	1976.0	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	211424	50.0	47.4	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	83	221349	50.0	47.1	
14 Acetone	43	3.261	3.261	0.000	97	36629	50.0	51.7	
15 Iodomethane	142	3.330	3.330	0.000	98	403056	50.0	48.9	
16 Carbon disulfide	76	3.389	3.389	0.000	99	692541	50.0	47.6	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	124779	50.0	47.0	
20 Methyl acetate	43	3.598	3.593	0.005	98	443049	250.0	236.9	
21 Methylene Chloride	84	3.683	3.683	-0.001	93	215692	50.0	50.3	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175585	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.839	3.844	0.000	98	109636	500.0	513.7	
24 Acrylonitrile	53	3.935	3.935	0.000	98	469707	500.0	478.9	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	88	231852	50.0	48.1	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	93	413516	50.0	49.3	
27 Hexane	57	4.245	4.245	0.000	95	407146	50.0	46.6	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	444312	50.0	48.5	
29 Vinyl acetate	43	4.449	4.448	-0.001	99	261850	50.0	46.2	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	59	251593	50.0	47.0	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	242217	50.0	48.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	63	53306	50.0	52.3	
39 Chlorobromomethane	128	5.214	5.214	0.000	92	96753	50.0	47.1	
40 Tetrahydrofuran	42	5.267	5.267	0.000	86	63582	100.0	93.6	
41 Chloroform	83	5.299	5.294	0.005	84	356098	50.0	47.3	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	58	197027	50.0	48.0	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	320856	50.0	47.1	
44 Cyclohexane	56	5.545	5.545	0.000	94	517488	50.0	47.4	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	281968	50.0	47.9	
46 Carbon tetrachloride	117	5.652	5.652	0.000	76	294765	50.0	48.7	
47 Isobutyl alcohol	43	5.770	5.778	0.000	96	120745	1250.0	1232.9	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	186691	50.0	46.6	
49 Benzene	78	5.861	5.861	0.000	96	812290	50.0	48.1	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	55	246848	50.0	48.0	
53 n-Heptane	43	6.134	6.134	0.000	79	396182	50.0	45.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	94	774889	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	228678	50.0	47.0	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	427327	50.0	46.9	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	217391	50.0	48.7	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18363	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	83580	50.0	46.2	
64 1,4-Dioxane	88	6.883	6.883	-0.005	49	20710	1000.0	1022.5	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	215163	50.0	47.7	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	74010	50.0	49.4	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	260439	50.0	47.2	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	97	128264	50.0	55.9	
$ 70 Toluene-d8 (Surr)	98	7.797	7.803	-0.006	95	706171	50.0	46.4	
71 Toluene	92	7.872	7.872	0.000	91	469396	50.0	46.0	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	197296	50.0	44.2	
73 Ethyl methacrylate	69	8.209	8.209	0.000	84	139741	50.0	48.7	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	111838	50.0	45.9	
75 Tetrachloroethene	166	8.471	8.471	-0.001	90	226452	50.0	45.5	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	97	187232	50.0	44.7	
77 2-Hexanone	43	8.584	8.584	0.000	98	86636	50.0	56.9	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	140223	50.0	45.8	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	114194	50.0	46.1	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	555755	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	557899	50.0	45.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	207093	50.0	48.2	
85 Ethylbenzene	106	9.584	9.584	0.000	99	316461	50.0	46.0	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	738658	50.0	45.0	
87 o-Xylene	91	10.296	10.296	0.000	93	783156	50.0	46.2	
88 Styrene	104	10.317	10.317	0.000	92	606139	50.0	46.2	
89 Bromoform	173	10.590	10.590	0.000	98	80844	50.0	46.8	
90 Isopropylbenzene	105	10.895	10.899	0.000	98	1045747	50.0	45.1	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.151	0.000	90	290937	50.0	47.4	
94 Bromobenzene	156	11.387	11.392	0.000	90	248989	50.0	45.5	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.397	0.006	64	124477	50.0	48.1	
96 1,2,3-Trichloropropane	75	11.462	11.467	0.000	50	144270	50.0	48.5	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.499	0.000	69	49680	50.0	47.2	
98 N-Propylbenzene	91	11.585	11.590	0.000	97	1215984	50.0	44.4	
99 2-Chlorotoluene	91	11.703	11.702	0.006	98	703837	50.0	48.9	
101 4-Chlorotoluene	91	11.869	11.868	0.006	93	807562	50.0	44.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.868	0.000	87	896129	50.0	46.0	
103 tert-Butylbenzene	119	12.323	12.328	0.000	89	834297	50.0	45.3	
105 1,2,4-Trimethylbenzene	105	12.393	12.398	0.000	66	913765	50.0	45.7	
106 sec-Butylbenzene	105	12.623	12.628	0.000	94	1189197	50.0	45.1	
107 1,3-Dichlorobenzene	146	12.746	12.751	0.000	97	500307	50.0	44.6	
108 4-Isopropyltoluene	119	12.821	12.826	0.000	96	1062237	50.0	46.0	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	96	311287	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.869	0.000	94	496520	50.0	45.7	
113 1,2-Dichlorobenzene	146	13.324	13.329	0.000	76	436255	50.0	46.0	
114 n-Butylbenzene	91	13.329	13.335	0.000	98	905937	50.0	45.1	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.218	0.000	51	18757	50.0	46.6	
117 1,2,4-Trichlorobenzene	180	15.068	15.074	0.000	93	298203	50.0	46.2	
118 Hexachlorobutadiene	225	15.244	15.251	0.000	93	202436	50.0	45.8	
119 Naphthalene	128	15.303	15.309	0.000	99	427430	50.0	47.1	
120 1,2,3-Trichlorobenzene	180	15.533	15.540	0.000	93	242437	50.0	48.7	
S 123 Xylenes, Total	100				0		100.0	91.3	
S 127 1,2-Dichloroethene, Total	96				0		100.0	96.3	

Reagents:

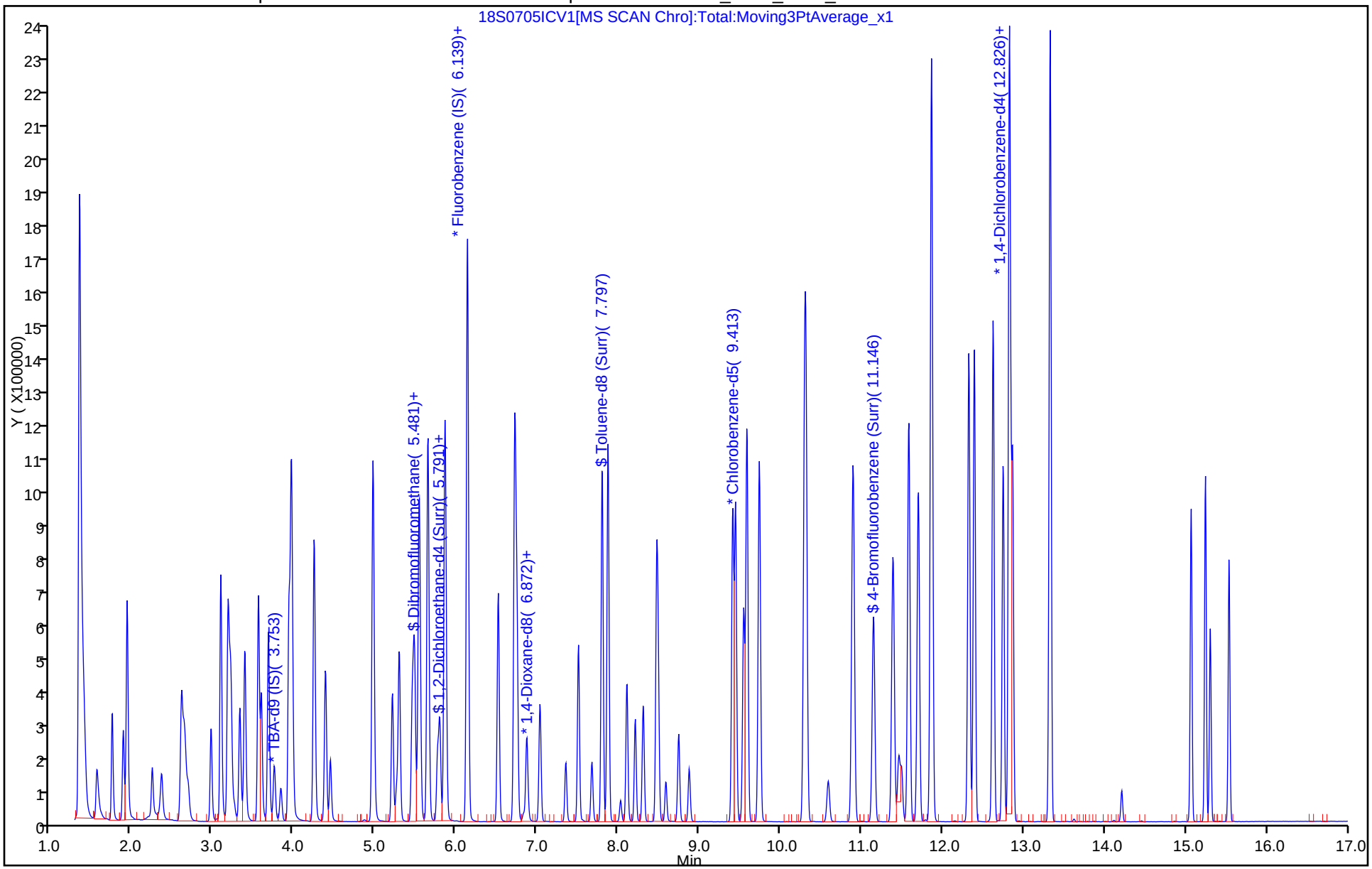
8260 MEGA SPK_00104	Amount Added:	5.00	Units: uL	
8260 KET SPK_00100	Amount Added:	5.00	Units: uL	
8260 ACR SPK_00129	Amount Added:	5.00	Units: uL	
8260 GAS SPK_00129	Amount Added:	5.00	Units: uL	
VA/2CEVE SPK_00114	Amount Added:	5.00	Units: uL	
8260LOW IS/SS_00146	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Jul-2017 18:50:14 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18S0705ICV1.d

Injection Date:	05-Jul-2017 18:26:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	ICV			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: CCVIS 500-408934/2 Calibration Date: 11/08/2017 09:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1108.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2998	0.2909	0.0100	48.5	50.0	-3.0	50.0
Chloromethane	Ave	0.4281	0.4427	0.1000	51.7	50.0	3.4	50.0
Vinyl chloride	Lin2		0.3621	0.0100	49.4	50.0	-1.2	20.0
Butadiene	Ave	0.4180	0.4209	0.0100	50.3	50.0	0.7	50.0
Bromomethane	Lin2		0.1620	0.0100	66.3	50.0	32.6	50.0
Chloroethane	Ave	0.1829	0.2234	0.0100	61.1	50.0	22.2	50.0
Dichlorofluoromethane	Ave	0.5092	0.5006	0.0100	49.2	50.0	-1.7	50.0
Trichlorofluoromethane	Ave	0.4679	0.4468	0.0100	47.7	50.0	-4.5	50.0
Ethyl ether	Ave	0.2041	0.1679	0.0100	41.1	50.0	-17.8	50.0
Acrolein	Ave	0.0195	0.0204	0.0010	2090	2000	4.6	50.0
1,1-Dichloroethene	Ave	0.2881	0.2756	0.0100	47.8	50.0	-4.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3031	0.3071	0.0100	50.7	50.0	1.3	50.0
Acetone	Ave	0.0457	0.0478	0.0100	52.3	50.0	4.6	50.0
Iodomethane	Ave	0.5313	0.5192	0.0100	48.9	50.0	-2.3	50.0
Carbon disulfide	Ave	0.9382	0.8847	0.0100	47.1	50.0	-5.7	50.0
3-Chloropropene	Ave	0.1713	0.1602	0.0100	46.8	50.0	-6.4	50.0
Methyl acetate	Ave	0.1207	0.0984	0.0100	81.5	100	-18.5	50.0
Methylene Chloride	Ave	0.2769	0.2584	0.0100	46.7	50.0	-6.7	50.0
tert-Butyl alcohol	Ave	1.215	1.179	0.0100	485	500	-3.0	50.0
Acrylonitrile	Ave	0.0633	0.0544	0.0010	430	500	-14.0	50.0
trans-1,2-Dichloroethene	Ave	0.3110	0.3051	0.0100	49.1	50.0	-1.9	50.0
Methyl tert-butyl ether	Ave	0.5416	0.4335	0.0100	40.0	50.0	-20.0	50.0
Hexane	Ave	0.5632	0.5469	0.0100	48.6	50.0	-2.9	50.0
1,1-Dichloroethane	Ave	0.5914	0.5423	0.1000	45.8	50.0	-8.3	50.0
Vinyl acetate	Ave	0.3658	0.2838	0.0100	38.8	50.0	-22.4	50.0
2,2-Dichloropropane	Ave	0.3456	0.3784	0.0100	54.7	50.0	9.5	50.0
cis-1,2-Dichloroethene	Ave	0.3242	0.3131	0.0100	48.3	50.0	-3.4	50.0
Methyl Ethyl Ketone	Ave	0.0657	0.0530	0.0100	40.3	50.0	-19.4	50.0
Bromochloromethane	Ave	0.1324	0.1191	0.0100	45.0	50.0	-10.1	50.0
Tetrahydrofuran	Lin2		0.0377	0.0100	85.8	100	-14.2	50.0
Chloroform	Ave	0.4856	0.4419	0.0100	45.5	50.0	-9.0	20.0
1,1,1-Trichloroethane	Ave	0.4394	0.4361	0.0100	49.6	50.0	-0.7	50.0
Cyclohexane	Ave	0.7044	0.7323	0.0100	52.0	50.0	4.0	50.0
1,1-Dichloropropene	Ave	0.3798	0.3803	0.0100	50.1	50.0	0.1	50.0
Carbon tetrachloride	Ave	0.3906	0.3985	0.0100	51.0	50.0	2.0	50.0
Isobutyl alcohol	Ave	0.5578	0.6354	0.0010	1420	1250	13.9	50.0
Benzene	Ave	1.089	1.059	0.0100	48.6	50.0	-2.7	50.0
1,2-Dichloroethane	Ave	0.3316	0.2731	0.0100	41.2	50.0	-17.7	50.0
Heptane	Ave	0.5573	0.5735	0.0100	51.4	50.0	2.9	50.0
Trichloroethene	Ave	0.3137	0.3004	0.0100	47.9	50.0	-4.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: CCVIS 500-408934/2 Calibration Date: 11/08/2017 09:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1108.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5880	0.5980	0.0100	50.9	50.0	1.7	50.0
1,2-Dichloropropane	Ave	0.2883	0.2590	0.0100	44.9	50.0	-10.2	20.0
Dibromomethane	Ave	0.1168	0.1024	0.0100	43.8	50.0	-12.4	50.0
1,4-Dioxane	Ave	1.103	1.035	0.0010	938	1000	-6.2	50.0
Bromodichloromethane	Ave	0.2909	0.2555	0.0100	43.9	50.0	-12.2	50.0
2-Chloroethyl vinyl ether	Ave	0.1348	0.0938	0.0100	34.8	50.0	-30.5	50.0
cis-1,3-Dichloropropene	Ave	0.4961	0.3807	0.0100	38.4	50.0	-23.3	50.0
methyl isobutyl ketone	Ave	0.2066	0.1600	0.0100	38.7	50.0	-22.5	50.0
Toluene	Ave	0.9176	0.8239	0.0100	44.9	50.0	-10.2	20.0
trans-1,3-Dichloropropene	Ave	0.4013	0.3025	0.0100	37.7	50.0	-24.6	50.0
Ethyl methacrylate	Lin2		0.2068	0.0100	40.0	50.0	-20.1	50.0
1,1,2-Trichloroethane	Ave	0.2193	0.1708	0.0100	38.9	50.0	-22.1	50.0
Tetrachloroethene	Ave	0.4475	0.4106	0.0100	45.9	50.0	-8.3	50.0
1,3-Dichloropropane	Ave	0.3769	0.3123	0.0100	41.4	50.0	-17.1	50.0
2-Hexanone	Ave	0.1369	0.1020	0.0100	37.3	50.0	-25.5	50.0
Dibromochloromethane	Ave	0.2756	0.2164	0.0100	39.3	50.0	-21.5	50.0
1,2-Dibromoethane	Ave	0.2229	0.1753	0.0100	39.3	50.0	-21.4	50.0
Chlorobenzene	Ave	1.097	1.019	0.3000	46.4	50.0	-7.1	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3866	0.3210	0.0100	41.5	50.0	-17.0	50.0
Ethylbenzene	Ave	0.6185	0.5712	0.0100	46.2	50.0	-7.6	20.0
m&p-Xylene	Ave	1.475	1.391	0.0100	47.1	50.0	-5.7	50.0
o-Xylene	Ave	1.524	1.412	0.0100	46.3	50.0	-7.3	50.0
Styrene	Ave	1.179	1.098	0.0100	46.6	50.0	-6.9	50.0
Bromoform	Ave	0.1553	0.1139	0.1000	36.7	50.0	-26.7	50.0
Isopropylbenzene	Ave	3.722	3.458	0.0100	46.5	50.0	-7.1	50.0
Bromobenzene	Ave	0.8786	0.7655	0.0100	43.6	50.0	-12.9	50.0
1,1,2,2-Tetrachloroethane	Lin2		0.3260	0.3000	39.1	50.0	-21.8	50.0
1,2,3-Trichloropropane	Ave	0.4777	0.3573	0.0100	37.4	50.0	-25.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1690	0.1113	0.0100	32.9	50.0	-34.2	50.0
N-Propylbenzene	Ave	4.401	4.163	0.0100	47.3	50.0	-5.4	50.0
2-Chlorotoluene	Lin2		2.327	0.0100	50.4	50.0	0.8	50.0
1,3,5-Trimethylbenzene	Ave	3.130	2.905	0.0100	46.4	50.0	-7.2	50.0
4-Chlorotoluene	Ave	2.908	2.661	0.0100	45.8	50.0	-8.5	50.0
tert-Butylbenzene	Ave	2.956	2.669	0.0100	45.1	50.0	-9.7	50.0
1,2,4-Trimethylbenzene	Ave	3.211	2.898	0.0100	45.1	50.0	-9.7	50.0
sec-Butylbenzene	Ave	4.234	3.898	0.0100	46.0	50.0	-7.9	50.0
1,3-Dichlorobenzene	Ave	1.800	1.551	0.0100	43.1	50.0	-13.9	50.0
p-Isopropyltoluene	Ave	3.706	3.403	0.0100	45.9	50.0	-8.2	50.0
1,4-Dichlorobenzene	Ave	1.744	1.499	0.0100	43.0	50.0	-14.1	50.0
1,2-Dichlorobenzene	Ave	1.522	1.282	0.0100	42.1	50.0	-15.8	50.0
n-Butylbenzene	Ave	3.228	2.957	0.0100	45.8	50.0	-8.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: CCVIS 500-408934/2 Calibration Date: 11/08/2017 09:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1108.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0647	0.0395	0.0100	30.5	50.0	-39.0	50.0
1,2,4-Trichlorobenzene	Ave	1.036	0.7944	0.0100	38.4	50.0	-23.3	50.0
Hexachlorobutadiene	Ave	0.7098	0.6062	0.0100	42.7	50.0	-14.6	50.0
Naphthalene	Ave	1.457	0.9421	0.0100	32.3	50.0	-35.3	50.0
1,2,3-Trichlorobenzene	Ave	0.7991	0.5867	0.0100	36.7	50.0	-26.6	50.0
Dibromofluoromethane	Ave	0.2646	0.2488	0.0100	47.0	50.0	-6.0	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.2113	0.0100	40.8	50.0	-18.3	50.0
Toluene-d8 (Surr)	Ave	1.370	1.212	0.0100	44.2	50.0	-11.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.8860	0.0100	44.9	50.0	-10.2	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18C1108.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Nov-2017 09:26:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 500-0048906-002
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 08-Nov-2017 14:01:29 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: huntjj Date: 08-Nov-2017 09:47:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.570	0.000	88	254057	50.0	48.5	
2 Chloromethane	50	1.784	1.784	0.000	89	386626	50.0	51.7	
3 Vinyl chloride	62	1.913	1.913	0.000	82	316279	50.0	49.4	
4 Butadiene	39	1.950	1.950	0.000	91	367595	50.0	50.3	
5 Bromomethane	94	2.277	2.277	0.000	91	141501	50.0	66.3	
6 Chloroethane	64	2.378	2.378	0.000	99	195087	50.0	61.1	
7 Dichlorofluoromethane	67	2.624	2.624	0.000	83	437251	50.0	49.2	
8 Trichlorofluoromethane	101	2.667	2.667	0.000	80	390226	50.0	47.7	
10 Ethyl ether	59	2.972	2.972	0.000	98	146616	50.0	41.1	
11 Acrolein	56	3.095	3.095	0.000	95	711272	2000.0	2092.1	
12 1,1-Dichloroethene	96	3.191	3.191	0.000	86	240686	50.0	47.8	
13 1,1,2-Trichloro-1,2,2-trif	101	3.223	3.223	0.000	91	268214	50.0	50.7	
14 Acetone	43	3.256	3.256	0.000	95	41761	50.0	52.3	
15 Iodomethane	142	3.336	3.336	0.000	98	453471	50.0	48.9	
16 Carbon disulfide	76	3.400	3.400	0.000	100	772694	50.0	47.1	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	139926	50.0	46.8	
20 Methyl acetate	43	3.593	3.593	0.000	97	171925	100.0	81.5	
21 Methylene Chloride	84	3.684	3.684	0.000	91	225689	50.0	46.7	
* 22 TBA-d9 (IS)	65	3.742	3.742	0.000	0	128463	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.823	3.823	0.000	94	75719	500.0	485.0	
24 Acrylonitrile	53	3.935	3.935	0.000	99	475477	500.0	430.1	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	90	266513	50.0	49.1	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	92	378615	50.0	40.0	
27 Hexane	57	4.251	4.251	0.000	94	477699	50.0	48.6	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	473659	50.0	45.8	
29 Vinyl acetate	43	4.449	4.449	0.000	99	247878	50.0	38.8	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	85	273450	50.0	48.3	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	65	330494	50.0	54.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.989	0.000	37	46286	50.0	40.3	
39 Chlorobromomethane	128	5.214	5.214	0.000	91	104026	50.0	45.0	
40 Tetrahydrofuran	42	5.262	5.262	0.000	93	65835	100.0	85.8	
41 Chloroform	83	5.294	5.294	0.000	83	385985	50.0	45.5	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	69	217282	50.0	47.0	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	92	380892	50.0	49.6	
44 Cyclohexane	56	5.545	5.545	0.000	93	639628	50.0	52.0	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	88	332133	50.0	50.1	
46 Carbon tetrachloride	117	5.652	5.652	0.000	80	348093	50.0	51.0	
47 Isobutyl alcohol	43	5.765	5.765	0.000	96	102028	1250.0	1423.9	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	184506	50.0	40.8	
49 Benzene	78	5.855	5.855	0.000	95	924934	50.0	48.6	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	54	238517	50.0	41.2	
53 n-Heptane	43	6.134	6.134	0.000	81	500902	50.0	51.4	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	94	873417	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	95	262411	50.0	47.9	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	522289	50.0	50.9	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	91	226198	50.0	44.9	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	17508	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	85	89411	50.0	43.8	
64 1,4-Dioxane	88	6.883	6.883	0.000	48	18115	1000.0	938.0	
65 Dichlorobromomethane	83	7.032	7.032	0.000	92	223160	50.0	43.9	
67 2-Chloroethyl vinyl ether	63	7.348	7.348	0.000	91	65318	50.0	34.8	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	87	265220	50.0	38.4	
69 4-Methyl-2-pentanone (MIBK	43	7.669	7.669	0.000	95	111473	50.0	38.7	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	843934	50.0	44.2	
71 Toluene	92	7.872	7.872	0.000	92	573931	50.0	44.9	
72 trans-1,3-Dichloropropene	75	8.102	8.102	0.000	94	210693	50.0	37.7	
73 Ethyl methacrylate	69	8.209	8.209	0.000	83	144085	50.0	40.0	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	93	118948	50.0	38.9	
75 Tetrachloroethene	166	8.471	8.471	0.000	96	286003	50.0	45.9	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	98	217544	50.0	41.4	
77 2-Hexanone	43	8.584	8.584	0.000	97	71073	50.0	37.3	
79 Chlorodibromomethane	129	8.744	8.744	0.000	91	150708	50.0	39.3	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	122116	50.0	39.3	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	87	696605	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	709959	50.0	46.4	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	89	223579	50.0	41.5	
85 Ethylbenzene	106	9.584	9.584	0.000	99	397904	50.0	46.2	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	0	968894	50.0	47.1	
87 o-Xylene	91	10.296	10.296	0.000	93	983862	50.0	46.3	
88 Styrene	104	10.312	10.312	0.000	91	764825	50.0	46.6	
89 Bromoform	173	10.590	10.590	0.000	97	79326	50.0	36.7	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	1315528	50.0	46.5	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	93	337023	50.0	44.9	
94 Bromobenzene	156	11.387	11.387	0.000	90	291177	50.0	43.6	
95 1,1,2,2-Tetrachloroethane	83	11.392	11.392	0.000	58	124016	50.0	39.1	
96 1,2,3-Trichloropropane	75	11.457	11.457	0.000	47	135917	50.0	37.4	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	36	42323	50.0	32.9	
98 N-Propylbenzene	91	11.580	11.580	0.000	99	1583651	50.0	47.3	
99 2-Chlorotoluene	91	11.697	11.697	0.000	97	885108	50.0	50.4	
100 1,3,5-Trimethylbenzene	105	11.858	11.858	0.000	87	1104920	50.0	46.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.863	11.863	0.000	91	1012358	50.0	45.8	
103 tert-Butylbenzene	119	12.323	12.323	0.000	88	1015189	50.0	45.1	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	66	1102444	50.0	45.1	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	1482856	50.0	46.0	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	99	589815	50.0	43.1	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	94	1294597	50.0	45.9	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	83	380394	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	94	570103	50.0	43.0	
113 1,2-Dichlorobenzene	146	13.318	13.318	0.000	83	487475	50.0	42.1	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	1124821	50.0	45.8	
115 1,2-Dibromo-3-Chloropropan	75	14.206	14.206	0.000	49	15008	50.0	30.5	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	302186	50.0	38.4	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	92	230584	50.0	42.7	
119 Naphthalene	128	15.303	15.303	0.000	98	358371	50.0	32.3	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	223169	50.0	36.7	
S 123 Xylenes, Total	100				0		100.0	93.5	
S 127 1,2-Dichloroethene, Total	96				0		100.0	97.3	

Reagents:

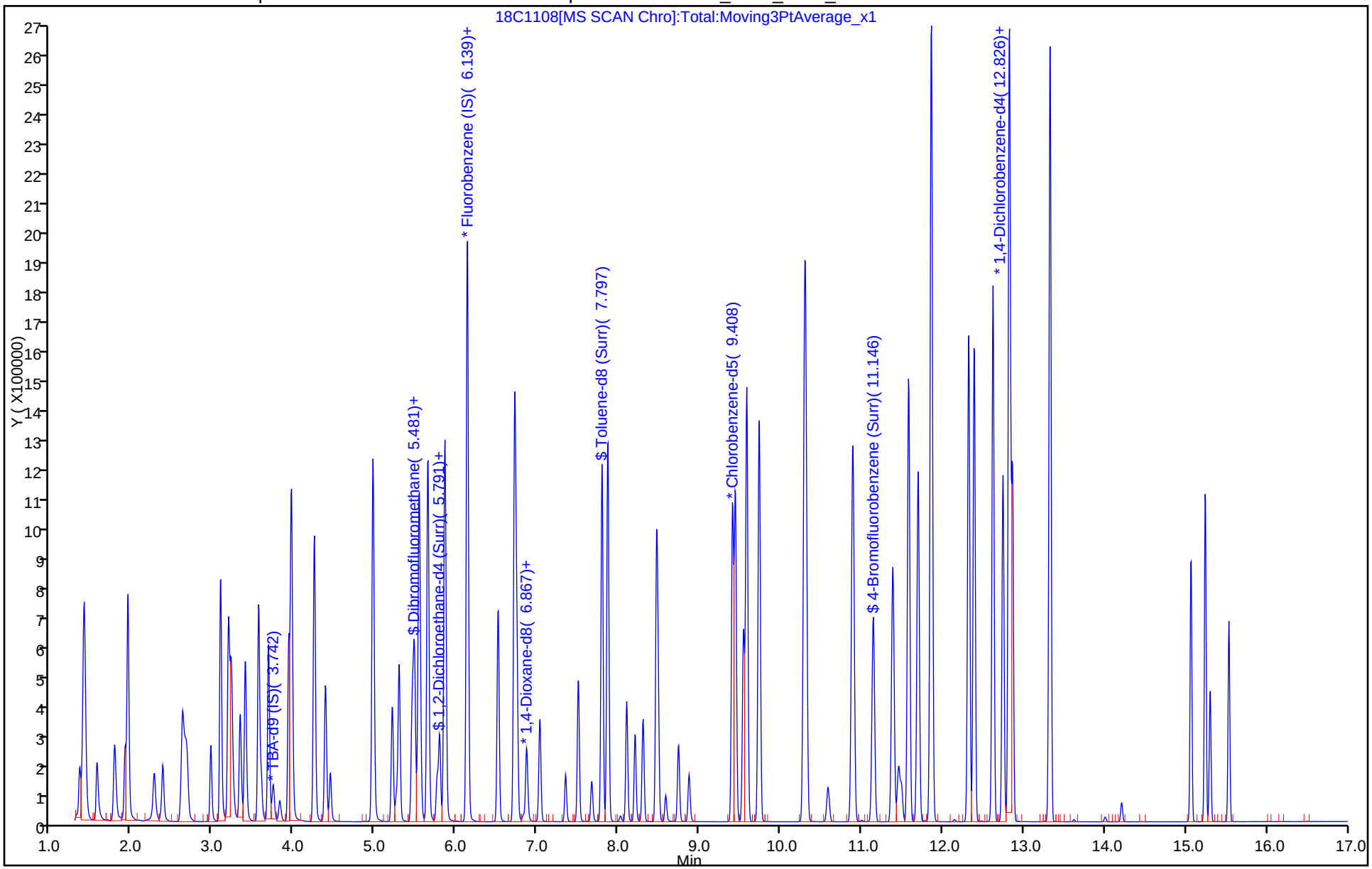
8260/624KETWK_00284	Amount Added:	2.50	Units: uL	
8260/624GASWK_00478	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00298	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00416	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00360	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00156	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Nov-2017 14:01:34 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18C1108.d

Injection Date:	08-Nov-2017 09:26:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: CCV 500-408934/3 Calibration Date: 11/08/2017 09:50

Instrument ID: CMS18 Calib Start Date: 06/30/2017 18:41

GC Column: DB624 ID: 0.20(mm) Calib End Date: 06/30/2017 22:00

Lab File ID: 18D1108.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.1881	0.0010	2200	2000	9.9	50.0
Isopropyl alcohol	Ave	0.9581	0.8497	0.0010	443	500	-11.3	50.0
Acetonitrile	Ave	0.0230	0.0188	0.0010	409	500	-18.3	50.0
Isopropyl ether	Ave	1.174	1.028	0.0100	43.7	50.0	-12.5	50.0
2-Chloro-1,3-butadiene	Ave	0.6406	0.5686	0.0100	44.4	50.0	-11.2	50.0
Tert-butyl ethyl ether	Ave	0.8952	0.6953	0.0010	38.8	50.0	-22.3	50.0
Propionitrile	Ave	0.0219	0.0187	0.0010	426	500	-14.9	50.0
Ethyl acetate	Ave	0.1396	0.1107	0.0100	79.3	100	-20.7	50.0
Methacrylonitrile	Ave	0.1095	0.0893	0.0100	408	500	-18.5	50.0
Isooctane	Ave	1.641	1.610	0.0100	49.1	50.0	-1.9	50.0
Tert-amyl methyl ether	Ave	0.5850	0.4552	0.0100	38.9	50.0	-22.2	50.0
n-Butyl alcohol	Ave	0.3693	0.3445	0.0010	1170	1250	-6.7	50.0
Ethyl acrylate	Ave	0.1844	0.1677	0.0010	45.5	50.0	-9.1	50.0
2,3-Dichloro-1-propene	Ave	0.3684	0.3406	0.0010	46.2	50.0	-7.6	50.0
Methyl methacrylate	Ave	0.1493	0.1296	0.0100	86.8	100	-13.2	50.0
2-Nitropropane	Ave	0.0682	0.0328	0.0100	48.1	100	-51.9*	50.0
n-Butyl acetate	Ave	0.4169	0.2912	0.0010	34.9	50.0	-30.2	50.0
1-Chlorohexane	Ave	0.5127	0.5150	0.0100	50.2	50.0	0.4	50.0
Cyclohexanone	Ave	0.0135	0.0097*	0.0100	3580	5000	-28.3	50.0
2-Ethyltoluene	Ave	3.530	3.863	0.0010	54.7	50.0	9.4	50.0
Pentachloroethane	Ave	0.3740	0.3923	0.0100	52.5	50.0	4.9	50.0
1,2,3-Trimethylbenzene	Ave	2.786	2.695	0.0010	48.4	50.0	-3.3	50.0
Benzyl chloride	Ave	0.1985	0.1107	0.0010	27.9	50.0	-44.2	50.0
1,3,5-Trichlorobenzene	Ave	1.227	1.194	0.0100	48.7	50.0	-2.7	50.0
2-Methylnaphthalene	Lin1		0.3650	0.0100	25.8	50.0	-48.4	50.0
1-Methylnaphthalene	Lin1		0.2969	0.0100	28.6	50.0	-42.9	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18D1108.d
Lims ID: CCV IX
Client ID:
Sample Type: CCV
Inject. Date: 08-Nov-2017 09:50:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV IX
Misc. Info.: 500-0048906-003
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub50
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 08-Nov-2017 10:15:13 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: huntjj Date: 08-Nov-2017 10:15:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.897	2.897	0.000	96	49127	2000.0	2197.3	
17 Isopropyl alcohol	45	3.427	3.421	0.006	96	55492	500.0	443.4	
18 Acetonitrile	41	3.534	3.534	0.000	100	160645	500.0	408.7	
* 22 TBA-d9 (IS)	65	3.742	3.742	0.000	0	130617	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	96	879509	50.0	43.7	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	92	486691	50.0	44.4	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	98	595151	50.0	38.8	
36 Propionitrile	54	5.042	5.042	0.000	100	159798	500.0	425.7	
37 Ethyl acetate	43	5.053	5.053	0.000	98	189517	100.0	79.3	
38 Methacrylonitrile	41	5.203	5.197	0.006	96	763913	500.0	407.7	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	60	207221	50.0	45.7	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	182187	50.0	41.1	
51 Isooctane	57	5.946	5.946	0.000	97	1377920	50.0	49.1	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	90	389655	50.0	38.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	855934	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	94	56253	1250.0	1166.2	
57 Ethyl acrylate	55	6.626	6.626	0.000	97	143528	50.0	45.5	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	97	291530	50.0	46.2	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	15693	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	0.001	87	221768	100.0	86.8	
66 2-Nitropropane	43	7.268	7.268	0.000	92	44337	100.0	48.1	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	828257	50.0	44.7	
78 n-Butyl acetate	43	8.728	8.728	0.000	97	196763	50.0	34.9	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	84	675734	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	90	347980	50.0	50.2	
91 Cyclohexanone	55	11.029	11.029	0.000	92	327280	5000.0	3583.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	93	328666	50.0	49.2	
102 2-Ethyltoluene	105	12.147	12.147	0.000	98	1308835	50.0	54.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Pentachloroethane	167	12.334	12.334	0.000	87	132924	50.0	52.5	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	95	338809	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.938	0.006	95	912965	50.0	48.4	
112 Benzyl chloride	126	13.040	13.040	0.000	98	37509	50.0	27.9	
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	96	404695	50.0	48.7	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	88	123664	50.0	25.8	
122 1-Methylnaphthalene	142	16.539	16.539	0.000	90	100606	50.0	28.6	

Reagents:

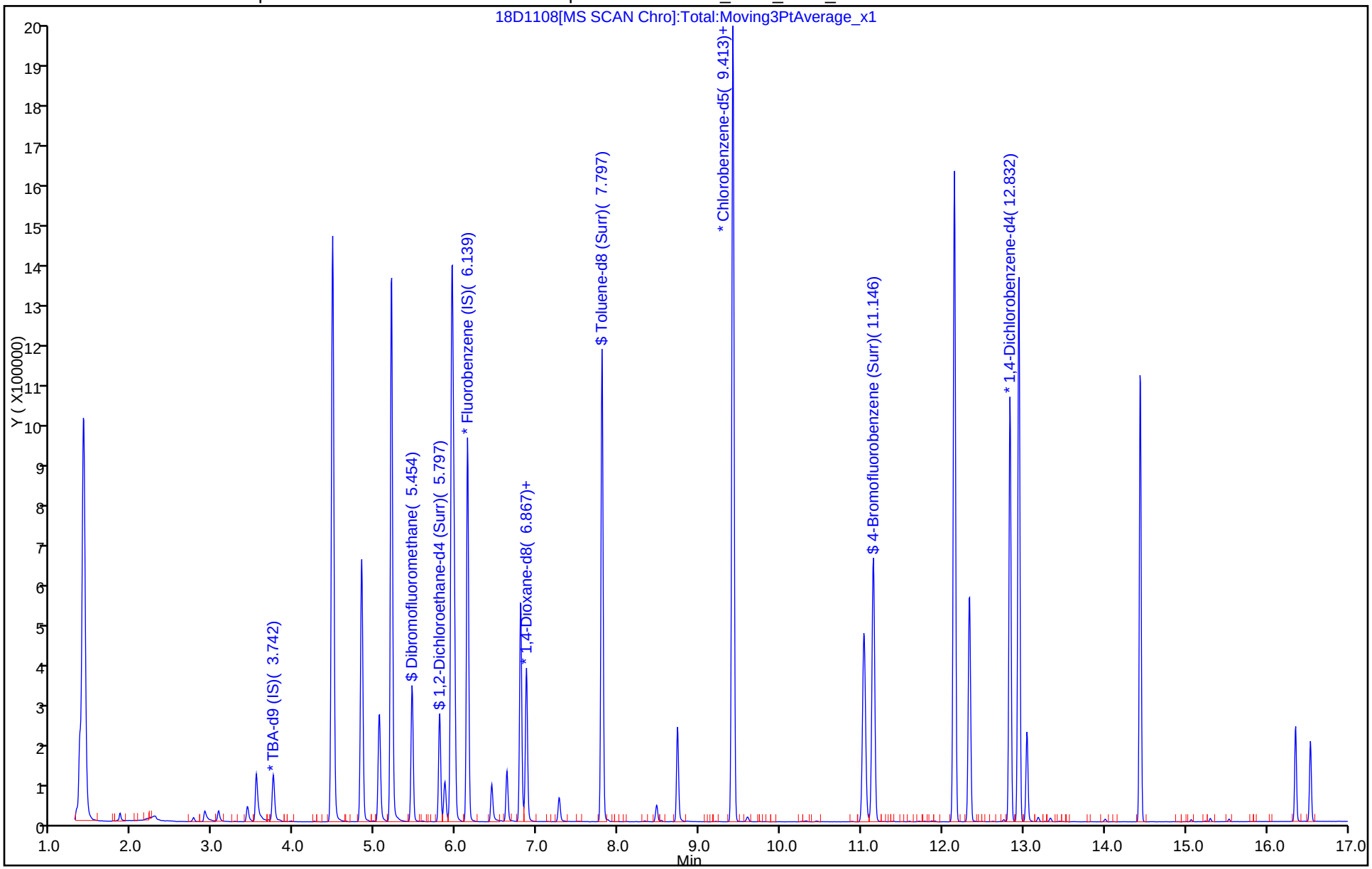
8260 23DCP WK_00106	Amount Added:	2.50	Units: uL	
8260/624STD2_00172	Amount Added:	2.50	Units: uL	
8260ADDS 2016_00056	Amount Added:	2.50	Units: uL	
8260CYCHXWK_00177	Amount Added:	2.50	Units: uL	
8260POLR ADDS_00131	Amount Added:	2.50	Units: uL	
2ETTOL WK STD_00041	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00156	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Nov-2017 10:15:15 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18D1108.d

Injection Date:	08-Nov-2017 09:50:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	CCV IX			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: CCV 500-408934/3 Calibration Date: 11/08/2017 09:50

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18D1108.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.2646	0.2421	0.0100	45.7	50.0	-8.5	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.2129	0.0100	41.1	50.0	-17.7	50.0
Toluene-d8 (Surr)	Ave	1.370	1.226	0.0100	44.7	50.0	-10.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.9701	0.0100	49.2	50.0	-1.7	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18D1108.d
Lims ID: CCV IX
Client ID:
Sample Type: CCV
Inject. Date: 08-Nov-2017 09:50:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV IX
Misc. Info.: 500-0048906-003
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub50
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 08-Nov-2017 10:15:13 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: huntjj Date: 08-Nov-2017 10:15:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.897	2.897	0.000	96	49127	2000.0	2197.3	
17 Isopropyl alcohol	45	3.427	3.421	0.006	96	55492	500.0	443.4	
18 Acetonitrile	41	3.534	3.534	0.000	100	160645	500.0	408.7	
* 22 TBA-d9 (IS)	65	3.742	3.742	0.000	0	130617	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	96	879509	50.0	43.7	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	92	486691	50.0	44.4	
32 Tert-butyl ethyl ether	59	4.834	4.834	0.000	98	595151	50.0	38.8	
36 Propionitrile	54	5.042	5.042	0.000	100	159798	500.0	425.7	
37 Ethyl acetate	43	5.053	5.053	0.000	98	189517	100.0	79.3	
38 Methacrylonitrile	41	5.203	5.197	0.006	96	763913	500.0	407.7	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	60	207221	50.0	45.7	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	182187	50.0	41.1	
51 Isooctane	57	5.946	5.946	0.000	97	1377920	50.0	49.1	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	90	389655	50.0	38.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	855934	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	94	56253	1250.0	1166.2	
57 Ethyl acrylate	55	6.626	6.626	0.000	97	143528	50.0	45.5	
60 2,3-Dichloro-1-propene	75	6.797	6.797	0.000	97	291530	50.0	46.2	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	15693	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	0.001	87	221768	100.0	86.8	
66 2-Nitropropane	43	7.268	7.268	0.000	92	44337	100.0	48.1	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	828257	50.0	44.7	
78 n-Butyl acetate	43	8.728	8.728	0.000	97	196763	50.0	34.9	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	84	675734	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	90	347980	50.0	50.2	
91 Cyclohexanone	55	11.029	11.029	0.000	92	327280	5000.0	3583.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	93	328666	50.0	49.2	
102 2-Ethyltoluene	105	12.147	12.147	0.000	98	1308835	50.0	54.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Pentachloroethane	167	12.334	12.334	0.000	87	132924	50.0	52.5	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	95	338809	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.938	0.006	95	912965	50.0	48.4	
112 Benzyl chloride	126	13.040	13.040	0.000	98	37509	50.0	27.9	
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	96	404695	50.0	48.7	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	88	123664	50.0	25.8	
122 1-Methylnaphthalene	142	16.539	16.539	0.000	90	100606	50.0	28.6	

Reagents:

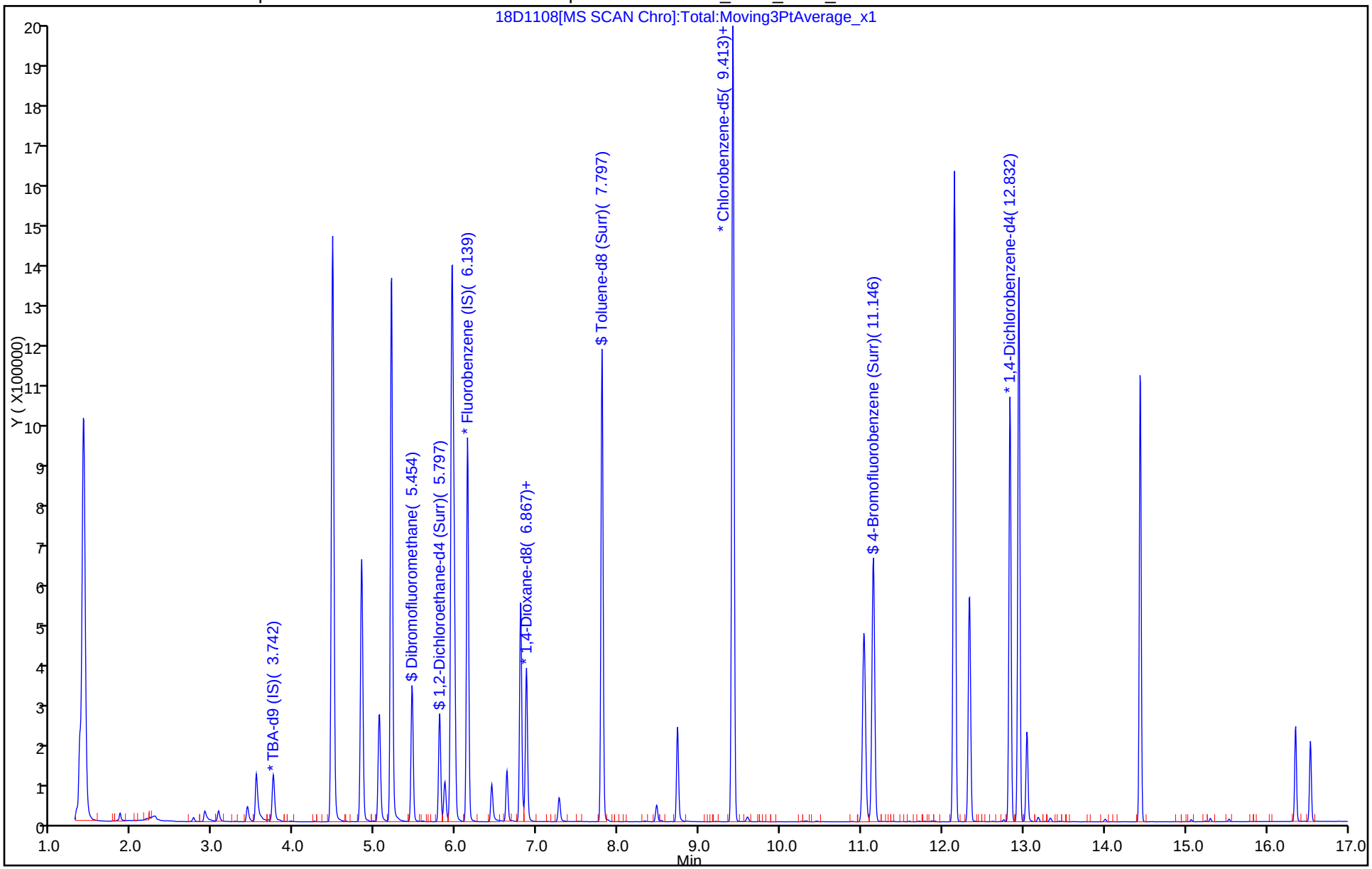
8260 23DCP WK_00106	Amount Added:	2.50	Units: uL	
8260/624STD2_00172	Amount Added:	2.50	Units: uL	
8260ADDS 2016_00056	Amount Added:	2.50	Units: uL	
8260CYCHXWK_00177	Amount Added:	2.50	Units: uL	
8260POLR ADDS_00131	Amount Added:	2.50	Units: uL	
2ETTOL WK STD_00041	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00156	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Nov-2017 10:15:15 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18D1108.d

Injection Date:	08-Nov-2017 09:50:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	CCV IX			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Jul-2017 12:47:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	500-0046351-001				
Operator ID:	EA	Instrument ID:	CMS18		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Method Label:	TAL Chicago VOA Report				
Last Update:	05-Jul-2017 13:09:31	Calib Date:	30-Jun-2017 22:00:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK024				
First Level Reviewer: alikpalae		Date:	05-Jul-2017 13:09:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 93 BFB	95	11.146	11.146	0.000	89	61346	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

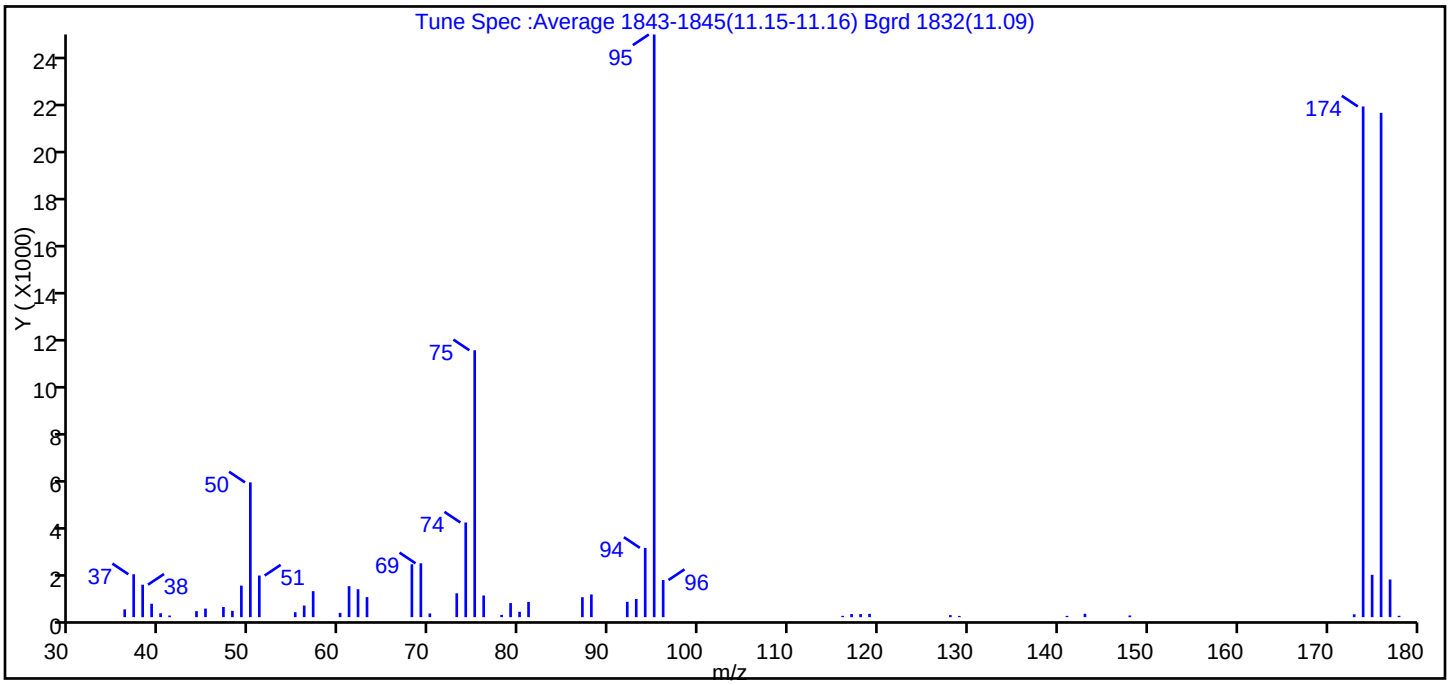
BFB STD WK_00154 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d
Injection Date: 05-Jul-2017 12:47:30 Instrument ID: CMS18
Lims ID: BFB
Client ID:
Operator ID: EA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W18cps Limit Group: MSVOA_8260_ICAL_WATER
Tune Method: BFB Method 8260

$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.1
75	30 to 60% of m/z 95	45.8
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	87.6
175	5 to 9% of m/z 174	7.3 (8.3)
176	Greater than 95% but less than 101% of m/z 174	86.5 (98.7)
177	5 to 9% of m/z 176	6.5 (7.5)

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d\8260W18cps.rslt\spectra.d
Injection Date: 05-Jul-2017 12:47:30
Spectrum: Tune Spec :Average 1843-1845(11.15-11.16) Bgrd 1832(11.09)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 53

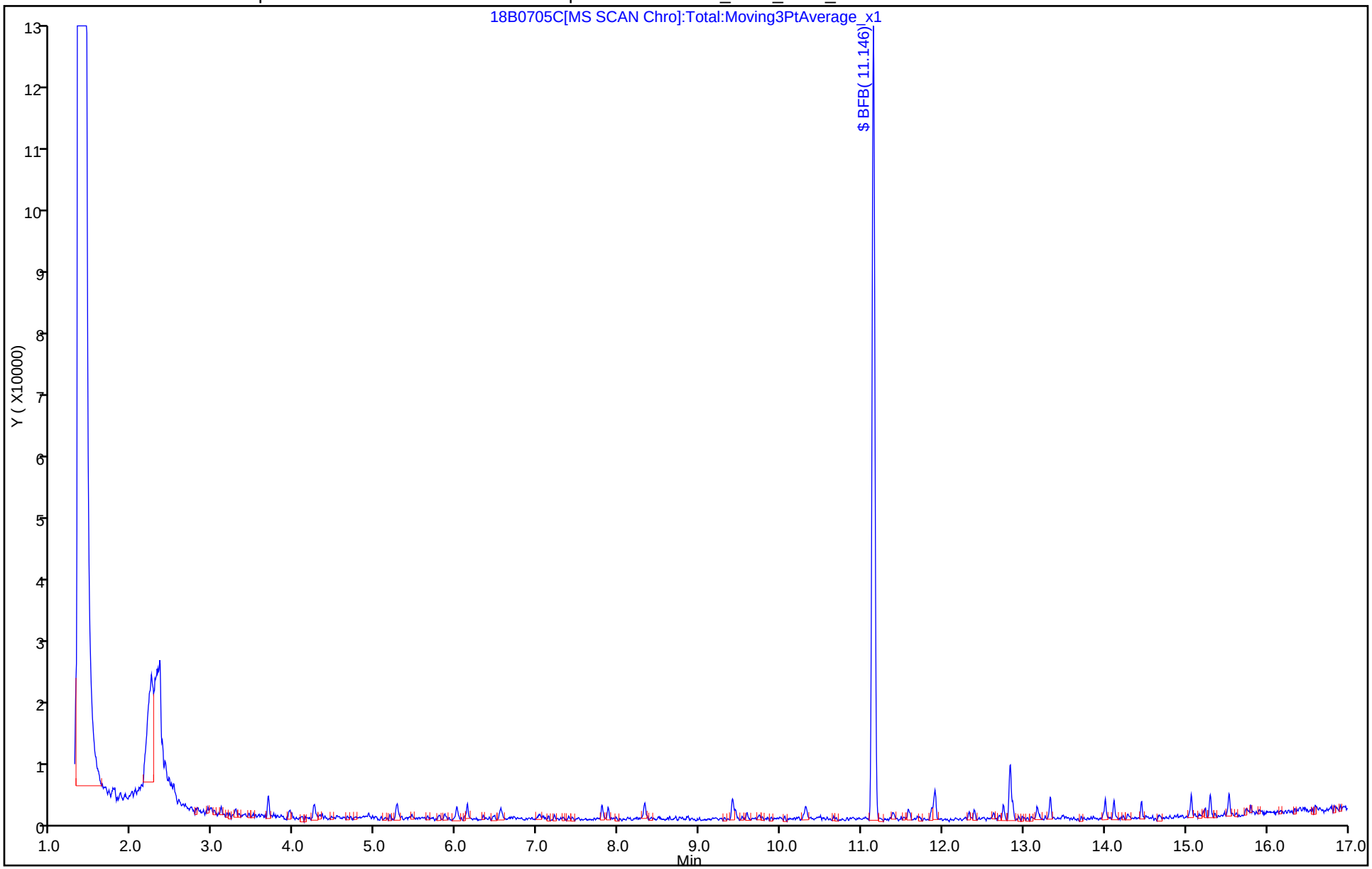
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	320	56.00	478	79.00	580	128.00	83
37.00	1768	57.00	1071	80.00	220	129.00	50
38.00	1338	60.00	176	81.00	629	141.00	53
39.00	553	61.00	1278	87.00	822	143.00	139
40.00	160	62.00	1152	88.00	936	148.00	69
41.00	67	63.00	827	92.00	632	173.00	116
44.00	247	68.00	2180	93.00	748	174.00	21056
45.00	353	69.00	2220	94.00	2856	175.00	1746
47.00	417	70.00	153	95.00	24024	176.00	20792
48.00	260	73.00	982	96.00	1530	177.00	1552
49.00	1300	74.00	3902	116.00	54	178.00	56
50.00	5557	75.00	11004	117.00	128		
51.00	1715	76.00	891	118.00	126		
55.00	203	78.00	95	119.00	137		

Report Date: 05-Jul-2017 13:09:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d

Injection Date:	05-Jul-2017 12:47:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18B1108.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Nov-2017 09:00:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 500-0048906-001
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 08-Nov-2017 09:27:06 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: huntjj Date: 08-Nov-2017 09:27:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 93 BFB	95	11.146	11.146	0.000	88	46240	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

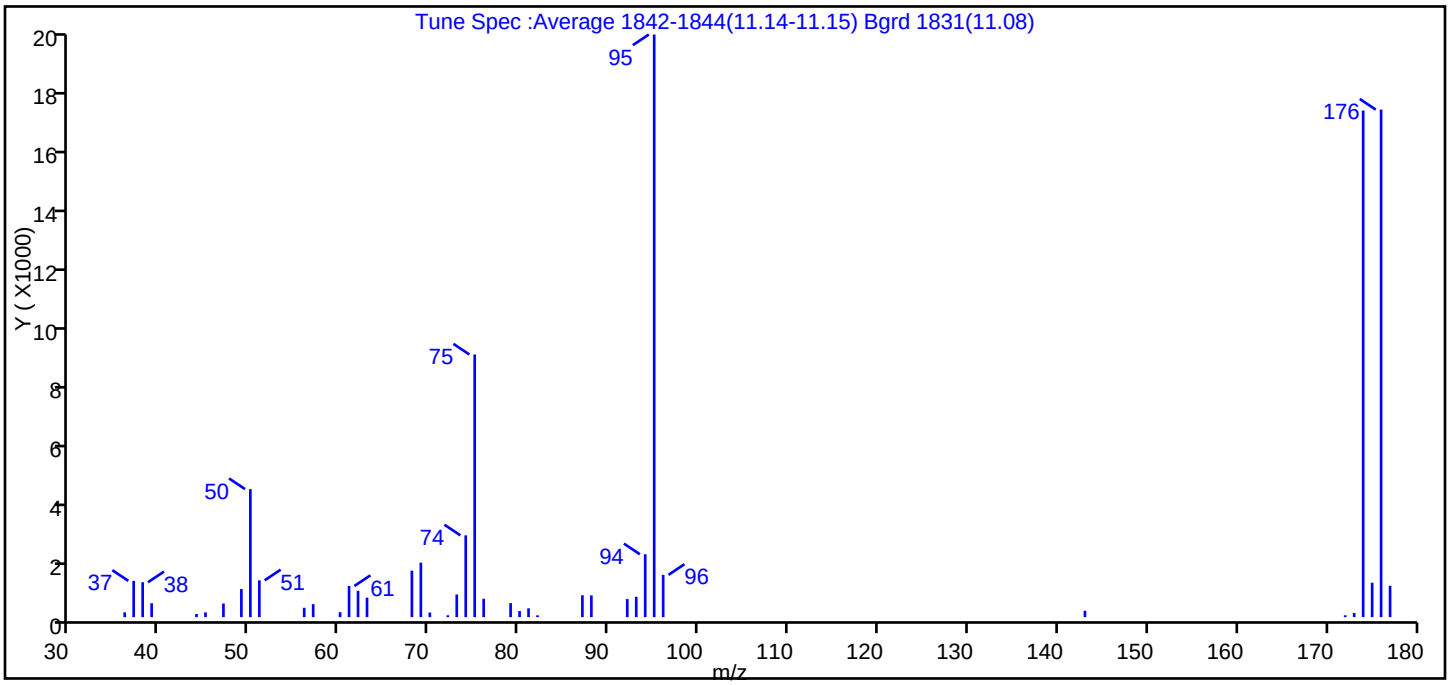
BFB STD WK_00168 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18B1108.d
Injection Date: 08-Nov-2017 09:00:30 Instrument ID: CMS18
Lims ID: BFB
Client ID:
Operator ID: JH ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W18cps Limit Group: MSVOA_8260_ICAL_WATER
Tune Method: BFB Method 8260

$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.0
75	30 to 60% of m/z 95	45.1
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.7 (0.8)
174	50 to 120% of m/z 95	86.9
175	5 to 9% of m/z 174	5.9 (6.8)
176	Greater than 95% but less than 101% of m/z 174	87.1 (100.2)
177	5 to 9% of m/z 176	5.4 (6.2)

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18B1108.d\8260W18cps.rslt\spectra.d
Injection Date: 08-Nov-2017 09:00:30
Spectrum: Tune Spec :Average 1842-1844(11.14-11.15) Bgrd 1831(11.08)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 42

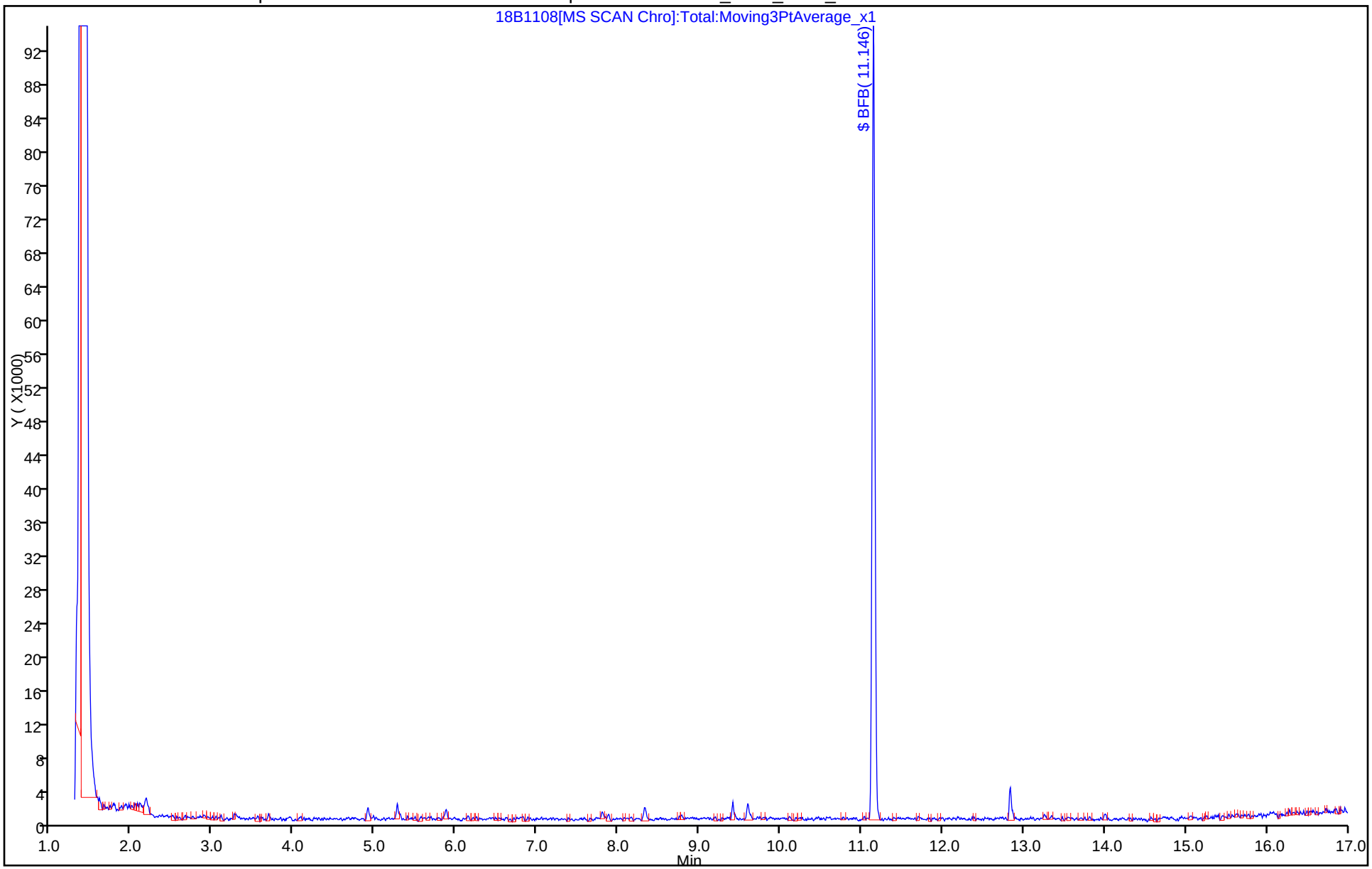
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	162	57.00	436	75.00	8835	95.00	19600
37.00	1220	60.00	167	76.00	618	96.00	1423
38.00	1174	61.00	1048	79.00	472	143.00	214
39.00	467	62.00	887	80.00	204	172.00	63
44.00	104	63.00	656	81.00	296	173.00	140
45.00	160	68.00	1564	82.00	61	174.00	17040
47.00	460	69.00	1832	87.00	735	175.00	1157
49.00	946	70.00	154	88.00	732	176.00	17072
50.00	4307	72.00	62	92.00	609	177.00	1056
51.00	1238	73.00	762	93.00	683		
56.00	315	74.00	2751	94.00	2115		

Report Date: 08-Nov-2017 09:27:07 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18B1108.d

Injection Date:	08-Nov-2017 09:00:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-408934/6

Matrix: Water | Lab File ID: 18M1108.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/08/2017 11:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 408934 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	<1.0		1.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46
79-00-5	1,1,2-Trichloroethane	<1.0		1.0	0.35
75-34-3	1,1-Dichloroethane	<1.0		1.0	0.41
75-35-4	1,1-Dichloroethene	<1.0		1.0	0.39
120-82-1	1,2,4-Trichlorobenzene	<1.0		1.0	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0
106-93-4	1,2-Dibromoethane	<1.0		1.0	0.39
95-50-1	1,2-Dichlorobenzene	<1.0		1.0	0.33
107-06-2	1,2-Dichloroethane	<1.0		1.0	0.39
78-87-5	1,2-Dichloropropane	<1.0		1.0	0.43
541-73-1	1,3-Dichlorobenzene	<1.0		1.0	0.40
106-46-7	1,4-Dichlorobenzene	<1.0		1.0	0.36
591-78-6	2-Hexanone	<5.0		5.0	1.6
67-64-1	Acetone	<5.0		5.0	1.7
71-43-2	Benzene	<0.50		0.50	0.15
75-27-4	Bromodichloromethane	<1.0		1.0	0.37
75-25-2	Bromoform	<1.0		1.0	0.48
74-83-9	Bromomethane	<2.0		2.0	0.80
75-15-0	Carbon disulfide	<2.0		2.0	0.45
56-23-5	Carbon tetrachloride	<1.0		1.0	0.38
108-90-7	Chlorobenzene	<1.0		1.0	0.39
75-00-3	Chloroethane	<1.0		1.0	0.51
67-66-3	Chloroform	<2.0		2.0	0.37
74-87-3	Chloromethane	<1.0		1.0	0.32
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0	0.42
110-82-7	Cyclohexane	<1.0		1.0	0.49
124-48-1	Dibromochloromethane	<1.0		1.0	0.49
75-71-8	Dichlorodifluoromethane	<2.0		2.0	0.67
100-41-4	Ethylbenzene	<0.50		0.50	0.18
98-82-8	Isopropylbenzene	<1.0		1.0	0.39
79-20-9	Methyl acetate	<5.0		5.0	2.0
78-93-3	Methyl Ethyl Ketone	<5.0		5.0	2.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-408934/6

Matrix: Water | Lab File ID: 18M1108.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/08/2017 11:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 408934 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-10-1	methyl isobutyl ketone	<5.0		5.0	2.2
1634-04-4	Methyl tert-butyl ether	<1.0		1.0	0.39
108-87-2	Methylcyclohexane	<1.0		1.0	0.32
75-09-2	Methylene Chloride	<5.0		5.0	1.6
100-42-5	Styrene	<1.0		1.0	0.39
127-18-4	Tetrachloroethene	<1.0		1.0	0.37
108-88-3	Toluene	<0.50		0.50	0.15
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0	0.35
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0	0.36
79-01-6	Trichloroethene	<0.50		0.50	0.16
75-69-4	Trichlorofluoromethane	<1.0		1.0	0.43
75-01-4	Vinyl chloride	<0.50		0.50	0.20
1330-20-7	Xylenes, Total	<1.0		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		75-126
460-00-4	4-Bromofluorobenzene (Surr)	97		72-124
1868-53-7	Dibromofluoromethane	91		75-120
2037-26-5	Toluene-d8 (Surr)	87		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18M1108.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Nov-2017 11:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500-0048906-006
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 08-Nov-2017 11:27:10 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: huntjj Date: 08-Nov-2017 11:27:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 22 TBA-d9 (IS)	65	3.737	3.742	-0.005	0	138568	1000.0	1000.0	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	211646	50.0	45.7	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	198969	50.0	44.0	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	874833	50.0	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	18523	1000.0	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	832190	50.0	43.3	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	86	701161	50.0	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	93	323898	50.0	48.4	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	95	339421	50.0	50.0	

Reagents:

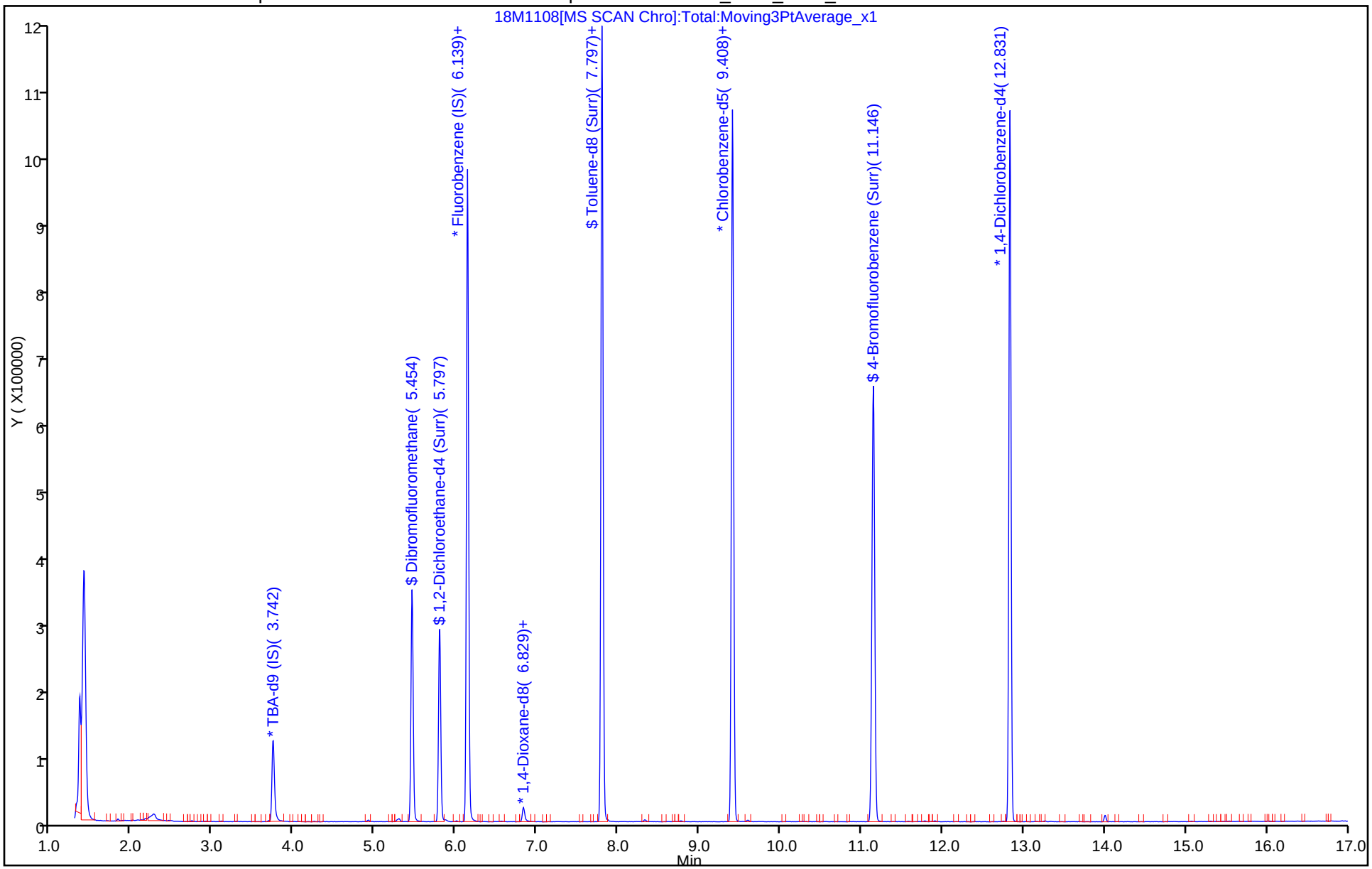
8260LOW IS/SS_00156 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 08-Nov-2017 11:27:11 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18M1108.d

Injection Date:	08-Nov-2017 11:06:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18M1108.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Nov-2017 11:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500-0048906-006
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 08-Nov-2017 11:27:10 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: huntjj Date: 08-Nov-2017 11:27:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	45.7	91.43
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	44.0	87.92
$ 70 Toluene-d8 (Surr)	50.0	43.3	86.66
$ 92 4-Bromofluorobenzene (Surr)	50.0	48.4	96.71

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-408934/36

Matrix: Water | Lab File ID: 18S1108A.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/08/2017 17:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 408934 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	43.1		1.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	37.7		1.0	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	48.2		1.0	0.46
79-00-5	1,1,2-Trichloroethane	37.7		1.0	0.35
75-34-3	1,1-Dichloroethane	42.3		1.0	0.41
75-35-4	1,1-Dichloroethene	44.5		1.0	0.39
120-82-1	1,2,4-Trichlorobenzene	37.8		1.0	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	30.2		5.0	2.0
106-93-4	1,2-Dibromoethane	36.1		1.0	0.39
95-50-1	1,2-Dichlorobenzene	38.8		1.0	0.33
107-06-2	1,2-Dichloroethane	38.4		1.0	0.39
78-87-5	1,2-Dichloropropane	41.5		1.0	0.43
541-73-1	1,3-Dichlorobenzene	39.8		1.0	0.40
106-46-7	1,4-Dichlorobenzene	40.3		1.0	0.36
591-78-6	2-Hexanone	40.1		5.0	1.6
67-64-1	Acetone	52.3		5.0	1.7
71-43-2	Benzene	44.7		0.50	0.15
75-27-4	Bromodichloromethane	40.7		1.0	0.37
75-25-2	Bromoform	35.6		1.0	0.48
74-83-9	Bromomethane	62.7		2.0	0.80
75-15-0	Carbon disulfide	42.7		2.0	0.45
56-23-5	Carbon tetrachloride	44.6		1.0	0.38
108-90-7	Chlorobenzene	42.2		1.0	0.39
75-00-3	Chloroethane	58.0		1.0	0.51
67-66-3	Chloroform	40.9		2.0	0.37
74-87-3	Chloromethane	51.6		1.0	0.32
156-59-2	cis-1,2-Dichloroethene	42.7		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	37.2		1.0	0.42
110-82-7	Cyclohexane	47.3		1.0	0.49
124-48-1	Dibromochloromethane	36.6		1.0	0.49
75-71-8	Dichlorodifluoromethane	48.6		2.0	0.67
100-41-4	Ethylbenzene	42.0		0.50	0.18
98-82-8	Isopropylbenzene	40.7		1.0	0.39
79-20-9	Methyl acetate	84.0		5.0	2.0
78-93-3	Methyl Ethyl Ketone	41.5		5.0	2.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-408934/36

Matrix: Water | Lab File ID: 18S1108A.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/08/2017 17:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 408934 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-10-1	methyl isobutyl ketone	40.1		5.0	2.2
1634-04-4	Methyl tert-butyl ether	39.9		1.0	0.39
108-87-2	Methylcyclohexane	45.6		1.0	0.32
75-09-2	Methylene Chloride	47.5		5.0	1.6
100-42-5	Styrene	42.2		1.0	0.39
127-18-4	Tetrachloroethene	44.2		1.0	0.37
108-88-3	Toluene	43.0		0.50	0.15
156-60-5	trans-1,2-Dichloroethene	44.5		1.0	0.35
10061-02-6	trans-1,3-Dichloropropene	35.9		1.0	0.36
79-01-6	Trichloroethene	44.8		0.50	0.16
75-69-4	Trichlorofluoromethane	47.2		1.0	0.43
75-01-4	Vinyl chloride	48.7		0.50	0.20
1330-20-7	Xylenes, Total	86.0		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		75-126
460-00-4	4-Bromofluorobenzene (Surr)	85		72-124
1868-53-7	Dibromofluoromethane	91		75-120
2037-26-5	Toluene-d8 (Surr)	91		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18S1108A.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Nov-2017 17:24:30 ALS Bottle#: 21 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 500-0048906-036
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 08-Nov-2017 17:43:57 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: alikpalae Date: 08-Nov-2017 17:43:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.570	-0.005	87	253792	50.0	48.6	
2 Chloromethane	50	1.784	1.784	0.000	89	384667	50.0	51.6	
3 Vinyl chloride	62	1.913	1.913	0.000	83	310962	50.0	48.7	
4 Butadiene	39	1.950	1.950	0.000	92	358673	50.0	49.2	
5 Bromomethane	94	2.277	2.277	0.000	91	133615	50.0	62.7	
6 Chloroethane	64	2.378	2.378	0.000	97	184938	50.0	58.0	
7 Dichlorofluoromethane	67	2.624	2.624	0.000	83	430880	50.0	48.5	
8 Trichlorofluoromethane	101	2.662	2.667	-0.005	80	385305	50.0	47.2	
10 Ethyl ether	59	2.972	2.972	0.000	98	147054	50.0	41.3	
11 Acrolein	56	3.095	3.095	0.000	96	671190	2000.0	1978.8	
12 1,1-Dichloroethene	96	3.186	3.191	-0.005	85	223369	50.0	44.5	
13 1,1,2-Trichloro-1,2,2-trif	101	3.229	3.223	0.006	83	254621	50.0	48.2	
14 Acetone	43	3.261	3.256	0.005	97	41651	50.0	52.3	
15 Iodomethane	142	3.330	3.336	-0.006	97	424117	50.0	45.8	
16 Carbon disulfide	76	3.395	3.400	-0.005	100	698429	50.0	42.7	
19 3-Chloro-1-propene	76	3.561	3.560	0.001	89	132976	50.0	44.6	
20 Methyl acetate	43	3.593	3.593	0.000	96	176661	100.0	84.0	
21 Methylene Chloride	84	3.684	3.684	0.000	92	229250	50.0	47.5	
* 22 TBA-d9 (IS)	65	3.748	3.742	0.006	0	161443	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.828	3.823	0.005	89	90475	500.0	461.1	
24 Acrylonitrile	53	3.935	3.935	0.000	97	484679	500.0	439.5	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	91	241129	50.0	44.5	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	376854	50.0	39.9	
27 Hexane	57	4.251	4.251	0.000	95	461300	50.0	47.0	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	436357	50.0	42.3	
29 Vinyl acetate	43	4.449	4.449	0.001	100	232461	50.0	36.5	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	86	241479	50.0	42.7	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	63	277486	50.0	46.1	
35 2-Butanone (MEK)	43	4.989	4.989	0.000	37	47557	50.0	41.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	5.214	5.214	0.000	92	97551	50.0	42.3	
40 Tetrahydrofuran	42	5.262	5.262	0.000	95	65717	100.0	85.8	
41 Chloroform	83	5.294	5.294	0.000	83	346395	50.0	40.9	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	61	209744	50.0	45.5	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	90	329703	50.0	43.1	
44 Cyclohexane	56	5.540	5.545	-0.005	93	581174	50.0	47.3	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	87	304165	50.0	46.0	
46 Carbon tetrachloride	117	5.652	5.652	0.000	75	303822	50.0	44.6	
47 Isobutyl alcohol	43	5.765	5.765	0.000	97	119503	1250.0	1327.1	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.791	5.797	-0.006	0	185911	50.0	41.2	
49 Benzene	78	5.856	5.855	0.001	95	847714	50.0	44.7	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	55	221898	50.0	38.4	
53 n-Heptane	43	6.134	6.134	0.000	77	486929	50.0	50.1	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	94	871415	50.0	50.0	
56 Trichloroethene	130	6.514	6.519	-0.005	88	244739	50.0	44.8	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	467184	50.0	45.6	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	92	208489	50.0	41.5	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	21513	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	87	84752	50.0	41.6	
64 1,4-Dioxane	88	6.883	6.883	0.000	51	21069	1000.0	887.9	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	206183	50.0	40.7	
67 2-Chloroethyl vinyl ether	63	7.348	7.348	0.000	89	58147	50.0	32.7	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	87	243344	50.0	37.2	
69 4-Methyl-2-pentanone (MIBK	43	7.669	7.669	0.000	94	109199	50.0	40.1	
$ 70 Toluene-d8 (Surr)	98	7.797	7.797	0.000	94	826011	50.0	45.7	
71 Toluene	92	7.872	7.872	0.000	92	520169	50.0	43.0	
72 trans-1,3-Dichloropropene	75	8.102	8.102	0.000	93	189909	50.0	35.9	
73 Ethyl methacrylate	69	8.204	8.209	-0.005	85	136938	50.0	40.1	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	91	109130	50.0	37.7	
75 Tetrachloroethene	166	8.472	8.471	0.001	89	261093	50.0	44.2	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	97	191280	50.0	38.5	
77 2-Hexanone	43	8.584	8.584	0.000	98	72437	50.0	40.1	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	132938	50.0	36.6	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	106181	50.0	36.1	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	86	659709	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	91	611019	50.0	42.2	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	198181	50.0	38.9	
85 Ethylbenzene	106	9.584	9.584	0.000	99	342936	50.0	42.0	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	0	832266	50.0	42.8	
87 o-Xylene	91	10.296	10.296	0.000	93	870009	50.0	43.3	
88 Styrene	104	10.312	10.312	0.000	91	656784	50.0	42.2	
89 Bromoform	173	10.585	10.590	-0.005	96	72856	50.0	35.6	
90 Isopropylbenzene	105	10.890	10.895	-0.005	99	1171260	50.0	40.7	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	94	324675	50.0	42.6	
94 Bromobenzene	156	11.387	11.387	0.000	89	265133	50.0	39.0	
95 1,1,2,2-Tetrachloroethane	83	11.392	11.392	0.000	61	121569	50.0	37.7	
96 1,2,3-Trichloropropane	75	11.457	11.457	0.000	49	129059	50.0	35.0	
97 trans-1,4-Dichloro-2-buten	53	11.489	11.494	-0.005	50	42023	50.0	32.2	
98 N-Propylbenzene	91	11.580	11.580	0.000	97	1398161	50.0	41.1	
99 2-Chlorotoluene	91	11.697	11.697	0.000	97	770511	50.0	43.1	
100 1,3,5-Trimethylbenzene	105	11.858	11.858	0.000	87	989972	50.0	40.9	
101 4-Chlorotoluene	91	11.863	11.863	0.000	91	899057	50.0	40.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 tert-Butylbenzene	119	12.323	12.323	0.000	92	922941	50.0	40.4	
105 1,2,4-Trimethylbenzene	105	12.388	12.393	-0.005	68	991790	50.0	40.0	
106 sec-Butylbenzene	105	12.623	12.623	0.000	93	1349297	50.0	41.2	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	553878	50.0	39.8	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	96	1184720	50.0	41.4	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	92	386514	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	96	543514	50.0	40.3	
113 1,2-Dichlorobenzene	146	13.318	13.318	0.000	82	456846	50.0	38.8	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	1031676	50.0	41.3	
115 1,2-Dibromo-3-Chloropropan	75	14.206	14.206	0.000	47	15125	50.0	30.2	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	92	302559	50.0	37.8	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	222950	50.0	40.6	
119 Naphthalene	128	15.303	15.303	0.000	97	375803	50.0	33.4	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	223686	50.0	36.2	
S 123 Xylenes, Total	100				0		100.0	86.0	
S 127 1,2-Dichloroethene, Total	96				0		100.0	87.2	

Reagents:

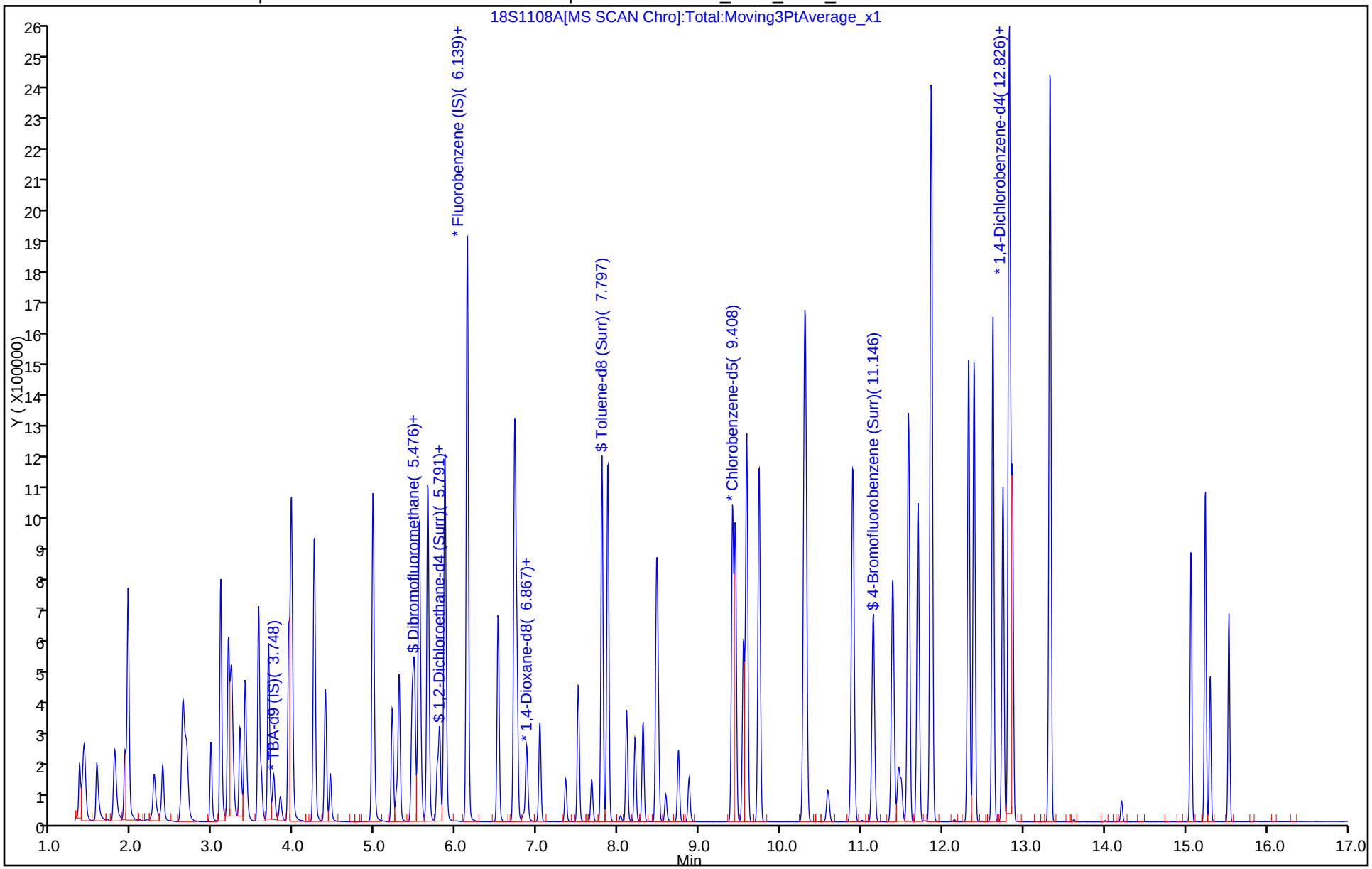
8260/624KETWK_00284	Amount Added:	2.50	Units: uL	
8260/624GASWK_00478	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00298	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00416	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00360	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00156	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Nov-2017 17:43:57 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18S1108A.d

Injection Date:	08-Nov-2017 17:24:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	LCS			Worklist Smp#:	36
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\18S1108A.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Nov-2017 17:24:30 ALS Bottle#: 21 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 500-0048906-036
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171108-48906.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 08-Nov-2017 17:43:57 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: alikpalae Date: 08-Nov-2017 17:43:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	45.5	90.96
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	41.2	82.48
$ 70 Toluene-d8 (Surr)	50.0	45.7	91.42
$ 92 4-Bromofluorobenzene (Surr)	50.0	42.6	85.13

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: CMS18 Start Date: 07/05/2017 12:47

Analysis Batch Number: 391894 End Date: 07/05/2017 18:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-391894/1		07/05/2017 12:47	1	18B0705C.d	DB624 0.2(mm)
STD01 500-391894/2 IC		07/05/2017 13:26	1	18I0705A.d	DB624 0.2(mm)
STD02 500-391894/3 IC		07/05/2017 13:52	1	18I0705B.d	DB624 0.2(mm)
STD03 500-391894/4 IC		07/05/2017 14:16	1	18I0705C.d	DB624 0.2(mm)
STD04 500-391894/5 IC		07/05/2017 14:41	1	18I0705D.d	DB624 0.2(mm)
STD05 500-391894/6 IC		07/05/2017 15:06	1	18I0705E.d	DB624 0.2(mm)
STD06 500-391894/7 IC		07/05/2017 15:31	1	18I0705F.d	DB624 0.2(mm)
STD07 500-391894/8 ICIS		07/05/2017 15:56	1	18I0705G.d	DB624 0.2(mm)
STD08 500-391894/9 IC		07/05/2017 16:21	1	18I0705H.d	DB624 0.2(mm)
STD09 500-391894/10 IC		07/05/2017 16:46	1	18I0705I.d	DB624 0.2(mm)
STD10 500-391894/11 IC		07/05/2017 17:12	1	18I0705J.d	DB624 0.2(mm)
ICV 500-391894/14		07/05/2017 18:26	1	18S0705ICV1.d	DB624 0.2(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: CMS18 Start Date: 11/08/2017 09:00

Analysis Batch Number: 408934 End Date: 11/08/2017 20:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-408934/1		11/08/2017 09:00	1	18B1108.d	DB624 0.2(mm)
CCVIS 500-408934/2		11/08/2017 09:26	1	18C1108.d	DB624 0.2(mm)
CCV 500-408934/3		11/08/2017 09:50	1	18D1108.d	DB624 0.2(mm)
ZZZZZ		11/08/2017 10:15	1		DB624 0.2(mm)
MB 500-408934/6		11/08/2017 11:06	1	18M1108.d	DB624 0.2(mm)
ZZZZZ		11/08/2017 11:31	1		DB624 0.2(mm)
ZZZZZ		11/08/2017 11:56	1		DB624 0.2(mm)
ZZZZZ		11/08/2017 12:21	1		DB624 0.2(mm)
ZZZZZ		11/08/2017 12:47	1		DB624 0.2(mm)
ZZZZZ		11/08/2017 13:12	1		DB624 0.2(mm)
ZZZZZ		11/08/2017 13:37	1		DB624 0.2(mm)
ZZZZZ		11/08/2017 14:02	1		DB624 0.2(mm)
ZZZZZ		11/08/2017 14:27	1		DB624 0.2(mm)
ZZZZZ		11/08/2017 14:53	20		DB624 0.2(mm)
ZZZZZ		11/08/2017 15:18	20		DB624 0.2(mm)
ZZZZZ		11/08/2017 15:43	20		DB624 0.2(mm)
ZZZZZ		11/08/2017 16:08	20		DB624 0.2(mm)
ZZZZZ		11/08/2017 16:34	20		DB624 0.2(mm)
ZZZZZ		11/08/2017 16:59	20		DB624 0.2(mm)
LCS 500-408934/36		11/08/2017 17:24	1	18S1108A.d	DB624 0.2(mm)
ZZZZZ		11/08/2017 17:49	20		DB624 0.2(mm)
500-136532-1		11/08/2017 18:14	1	500-136532-a-1.d	DB624 0.2(mm)
500-136532-2		11/08/2017 18:39	1	500-136532-a-2.d	DB624 0.2(mm)
500-136532-3		11/08/2017 19:04	1	500-136532-a-3.d	DB624 0.2(mm)
ZZZZZ		11/08/2017 19:29	1		DB624 0.2(mm)
ZZZZZ		11/08/2017 19:54	1		DB624 0.2(mm)
ZZZZZ		11/08/2017 20:19	1		DB624 0.2(mm)
ZZZZZ		11/08/2017 20:44	1		DB624 0.2(mm)

TestAmerica Chicago

GC/MS Volatiles: Sample Tracking Sheet

Screener: 27 all

ISTD

Job # 500-136532

Sample File Name	Dilution	pH	Action	Inst./Date	Chrom Batch	MeOH Lot #	Container Lot#	Analytical Batch	misc info
1	1	2	D	18 11/8/17	48906			408974	~~D~~ Ace-38 D
2	1	2	D	18 11/8/17	48906			408934	~~D~~ Ace-39 D
3	1	2		18 11/8/17	48906			408934	D
TB									

Reviewed by: _____ Date: 11-8-17

CHI-22-20-075/E-09/17

TestAmerica Chicago

GC/MS Volatiles: Internal Chain of Custody Form

ICOC Job Number: 500-136532

Date	Time Out	Time In	ICOC Initials	misc info
11-8-17	10:30	11:00	EA.	waters

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB5MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHL #
CRMS-SW-02-103117	500-136532-1	0 D	0 D	0 D	0 D	0 D	0 D
CRMS-SW-03-103117	500-136532-2	50	36	68	65	122	104
	MB 500-407898/1-A	64	41	94	85	134	119
	LCS 500-407898/2-A	64	44	84	80	143	108
	LCSD 500-407898/3-A	76	54	95	91	152 X	114

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	27-110
PHL = Phenol-d5 (Surr)	20-100
NBZ = Nitrobenzene-d5 (Surr)	36-120
FBP = 2-Fluorobiphenyl (Surr)	34-110
TBP = 2,4,6-Tribromophenol (Surr)	40-145
TPHL = Terphenyl-d14 (Surr)	40-145

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCS 500-407898.D

Lab ID: LCS 500-407898/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzaldehyde	32.0	26.6 J	83		^
Phenol	32.0	15.9	50	33-100	
Bis(2-chloroethyl)ether	32.0	18.5	58	49-110	
2-Chlorophenol	32.0	22.9	71	59-110	
2-Methylphenol	32.0	21.7	68	53-110	
2,2'-oxybis[1-chloropropane]	32.0	11.1	35	38-110	*
Acetophenone	32.0	22.5	70	60-110	
N-Nitrosodi-n-propylamine	32.0	24.4	76	58-110	
Hexachloroethane	32.0	11.8	37	20-100	
Nitrobenzene	32.0	28.5	89	53-110	
Isophorone	32.0	24.4	76	57-110	
2-Nitrophenol	32.0	25.2	79	58-110	
2,4-Dimethylphenol	32.0	25.1	78	51-110	
Bis(2-chloroethoxy)methane	32.0	24.6	77	60-110	
2,4-Dichlorophenol	32.0	28.8	90	62-110	
Naphthalene	32.0	20.3	63	36-110	
4-Chloroaniline	32.0	25.0	78	35-128	
Hexachlorobutadiene	32.0	10.6	33	20-100	
Caprolactam	32.0	14.9	47	32-100	
4-Chloro-3-methylphenol	32.0	29.3	91	64-120	
2-Methylnaphthalene	32.0	20.4	64	34-110	
Hexachlorocyclopentadiene	32.0	11.0 J	34	10-100	
2,4,6-Trichlorophenol	32.0	31.5	99	62-110	
2,4,5-Trichlorophenol	32.0	32.5	101	63-120	
1,1'-Biphenyl	32.0	23.6	74	40-110	
2-Chloronaphthalene	32.0	22.6	71	39-110	
2-Nitroaniline	32.0	31.6	99	59-122	
Dimethyl phthalate	32.0	30.4	95	63-120	
2,6-Dinitrotoluene	32.0	32.6	102	63-119	
Acenaphthylene	32.0	23.9	75	47-110	
3-Nitroaniline	32.0	29.2	91	47-123	
Acenaphthene	32.0	22.8	71	46-110	
2,4-Dinitrophenol	64.0	65.3	102	37-130	
4-Nitrophenol	64.0	55.6	87	20-110	
Dibenzofuran	32.0	26.6	83	51-110	
2,4-Dinitrotoluene	32.0	35.1	110	63-122	
Diethyl phthalate	32.0	35.1	110	62-120	
Fluorene	32.0	28.9	90	53-120	
4-Chlorophenyl phenyl ether	32.0	28.4	89	47-112	
4-Nitroaniline	32.0	28.5	89	52-147	
4,6-Dinitro-2-methylphenol	64.0	58.7	92	50-117	
N-Nitrosodiphenylamine	32.0	30.0	94	66-110	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCS 500-407898.D

Lab ID: LCS 500-407898/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
4-Bromophenyl phenyl ether	32.0	31.6	99	58-120	
Hexachlorobenzene	32.0	35.0	109	61-120	
Atrazine	32.0	30.2	95	58-118	
Pentachlorophenol	64.0	63.0	98	23-129	
Phenanthrene	32.0	30.8	96	65-120	
Anthracene	32.0	31.1	97	67-110	
Carbazole	32.0	31.3	98	61-145	
Di-n-butyl phthalate	32.0	32.0	100	70-120	
Fluoranthene	32.0	33.3	104	68-120	
Pyrene	32.0	30.6	96	70-110	
Butyl benzyl phthalate	32.0	30.7	96	68-120	
3,3'-Dichlorobenzidine	32.0	34.0	106	60-132	
Benzo[a]anthracene	32.0	31.9	100	70-120	
Chrysene	32.0	32.4	101	68-120	
Bis(2-ethylhexyl) phthalate	32.0	29.4	92	69-120	
Di-n-octyl phthalate	32.0	31.5	98	70-122	
Benzo[b]fluoranthene	32.0	34.6	108	69-123	
Benzo[k]fluoranthene	32.0	32.9	103	70-120	
Benzo[a]pyrene	32.0	35.4	111	70-120	
Indeno[1,2,3-cd]pyrene	32.0	37.6	118	65-133	
Dibenz(a,h)anthracene	32.0	39.0	122	70-127	
Benzo[g,h,i]perylene	32.0	38.3	120	70-120	
3 & 4 Methylphenol	32.0	20.8	65	53-110	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCSD 500-407898.D

Lab ID: LCSD 500-407898/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzaldehyde	32.0	33.7	105	23			^
Phenol	32.0	18.7	58	16	20	33-100	
Bis(2-chloroethyl)ether	32.0	21.1	66	13	20	49-110	
2-Chlorophenol	32.0	25.9	81	12	20	59-110	
2-Methylphenol	32.0	24.3	76	11	20	53-110	
2,2'-oxybis[1-chloropropane]	32.0	12.3	39	11	20	38-110	
Acetophenone	32.0	25.2	79	11	20	60-110	
N-Nitrosodi-n-propylamine	32.0	27.1	85	11	20	58-110	
Hexachloroethane	32.0	13.6	43	15	20	20-100	
Nitrobenzene	32.0	31.0	97	8	20	53-110	
Isophorone	32.0	26.1	82	7	20	57-110	
2-Nitrophenol	32.0	27.5	86	9	20	58-110	
2,4-Dimethylphenol	32.0	27.3	85	8	20	51-110	
Bis(2-chloroethoxy)methane	32.0	27.1	85	10	20	60-110	
2,4-Dichlorophenol	32.0	31.4	98	9	20	62-110	
Naphthalene	32.0	21.5	67	6	20	36-110	
4-Chloroaniline	32.0	27.4	86	9	20	35-128	
Hexachlorobutadiene	32.0	11.5	36	8	20	20-100	
Caprolactam	32.0	15.3	48	3	20	32-100	
4-Chloro-3-methylphenol	32.0	31.6	99	8	20	64-120	
2-Methylnaphthalene	32.0	21.1	66	4	20	34-110	
Hexachlorocyclopentadiene	32.0	11.7 J	37	7	20	10-100	
2,4,6-Trichlorophenol	32.0	32.7	102	4	20	62-110	
2,4,5-Trichlorophenol	32.0	34.2	107	5	20	63-120	
1,1'-Biphenyl	32.0	24.0	75	2	20	40-110	
2-Chloronaphthalene	32.0	23.3	73	3	20	39-110	
2-Nitroaniline	32.0	32.4	101	3	20	59-122	
Dimethyl phthalate	32.0	31.2	97	2	20	63-120	
2,6-Dinitrotoluene	32.0	33.0	103	1	20	63-119	
Acenaphthylene	32.0	24.5	76	2	20	47-110	
3-Nitroaniline	32.0	30.1	94	3	20	47-123	
Acenaphthene	32.0	23.4	73	3	20	46-110	
2,4-Dinitrophenol	64.0	65.4	102	0	20	37-130	
4-Nitrophenol	64.0	56.5	88	2	20	20-110	
Dibenzofuran	32.0	27.1	85	2	20	51-110	
2,4-Dinitrotoluene	32.0	34.7	108	1	20	63-122	
Diethyl phthalate	32.0	35.3	110	0	20	62-120	
Fluorene	32.0	28.9	90	0	20	53-120	
4-Chlorophenyl phenyl ether	32.0	27.9	87	2	20	47-112	
4-Nitroaniline	32.0	28.1	88	1	20	52-147	
4,6-Dinitro-2-methylphenol	64.0	59.1	92	1	20	50-117	
N-Nitrosodiphenylamine	32.0	29.3	92	3	20	66-110	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCSD 500-407898.D

Lab ID: LCSD 500-407898/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4-Bromophenyl phenyl ether	32.0	31.1	97	1	20	58-120	
Hexachlorobenzene	32.0	34.1	107	3	20	61-120	
Atrazine	32.0	29.7	93	2	20	58-118	
Pentachlorophenol	64.0	62.6	98	1	20	23-129	
Phenanthrene	32.0	30.8	96	0	20	65-120	
Anthracene	32.0	30.5	95	2	20	67-110	
Carbazole	32.0	31.0	97	1	20	61-145	
Di-n-butyl phthalate	32.0	31.6	99	1	20	70-120	
Fluoranthene	32.0	33.1	103	1	20	68-120	
Pyrene	32.0	30.9	97	1	20	70-110	
Butyl benzyl phthalate	32.0	31.0	97	1	20	68-120	
3,3'-Dichlorobenzidine	32.0	33.6	105	1	20	60-132	
Benzo[a]anthracene	32.0	32.1	100	1	20	70-120	
Chrysene	32.0	32.5	102	0	20	68-120	
Bis(2-ethylhexyl) phthalate	32.0	30.1	94	2	20	69-120	
Di-n-octyl phthalate	32.0	31.7	99	1	20	70-122	
Benzo[b]fluoranthene	32.0	34.7	108	0	20	69-123	
Benzo[k]fluoranthene	32.0	32.6	102	1	20	70-120	
Benzo[a]pyrene	32.0	34.7	108	2	20	70-120	
Indeno[1,2,3-cd]pyrene	32.0	37.9	118	1	20	65-133	
Dibenz(a,h)anthracene	32.0	39.0	122	0	20	70-127	
Benzo[g,h,i]perylene	32.0	38.4	120	0	20	70-120	
3 & 4 Methylphenol	32.0	23.6	74	13	20	53-110	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab File ID: MB 500-407898.D Lab Sample ID: MB 500-407898/1-A

Matrix: Water Date Extracted: 11/01/2017 08:17

Instrument ID: CMS12 Date Analyzed: 11/01/2017 14:18

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-407898/2-A	LCS 500-407898.D	11/01/2017 12:57
	LCSD 500-407898/3-A	LCSD 500-407898.D	11/01/2017 13:24
CRMS-SW-03-103117	500-136532-2	500-136532-E-2-A.D	11/01/2017 14:45
CRMS-SW-02-103117	500-136532-1	500-136532-E-1-A.D	11/01/2017 15:11

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab File ID: 12D0927B.D DFTPP Injection Date: 09/27/2017

Instrument ID: CMS12 DFTPP Injection Time: 12:29

Analysis Batch No.: 402944

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	48.1	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	36.2	
70	Less than 2% of mass 69	0.2	(0.6) 1
127	10-80% of Base Peak	46.7	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	29.4	
365	Greater than 1% of mass 198	4.8	
441	present but less than 24% of mass 442	22.1	(15.7) 2
442	Greater than 50% of mass 198	141.2	
443	15-24% of mass 442	26.4	(18.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 500-402944/2	L1STD2.D	09/27/2017	13:02
	IC 500-402944/3	L1STD02.D	09/27/2017	13:31
	IC 500-402944/4	L1STD05.D	09/27/2017	14:01
	IC 500-402944/5	L1STD1.D	09/27/2017	14:30
	IC 500-402944/6	L1STD5.D	09/27/2017	14:59
	IC 500-402944/7	L1STD10.D	09/27/2017	15:29
	IC 500-402944/8	L1STD20.D	09/27/2017	15:58
	ICIS 500-402944/9	L1STD40.D	09/27/2017	16:28
	IC 500-402944/10	L1STD50.D	09/27/2017	16:57
	IC 500-402944/11	L1STD60.D	09/27/2017	17:27
	IC 500-402944/12	L1STD70.D	09/27/2017	17:56
	ICV 500-402944/13	L1ICV.D	09/27/2017	18:26

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab File ID: 12D1101.D DFTPP Injection Date: 11/01/2017

Instrument ID: CMS12 DFTPP Injection Time: 10:43

Analysis Batch No.: 407918

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	47.8	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	44.3	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	52.9	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.1	
275	10-60% of Base Peak	31.6	
365	Greater than 1% of mass 198	5.3	
441	present but less than 24% of mass 442	25.0	(15.6) 2
442	Greater than 50% of mass 198	159.7	
443	15-24% of mass 442	30.8	(19.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 500-407918/2	12C1101.D	11/01/2017	11:10
	CCVL 500-407918/4	12C1101b.D	11/01/2017	12:04
	LCS 500-407898/2-A	LCS 500-407898.D	11/01/2017	12:57
	LCSD 500-407898/3-A	LCSD 500-407898.D	11/01/2017	13:24
	MB 500-407898/1-A	MB 500-407898.D	11/01/2017	14:18
CRMS-SW-03-103117	500-136532-2	500-136532-E -2-A.D	11/01/2017	14:45
CRMS-SW-02-103117	500-136532-1	500-136532-E -1-A.D	11/01/2017	15:11

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Sample No.: ICIS 500-402944/9 Date Analyzed: 09/27/2017 16:28

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): L1STD40.D Heated Purge: (Y/N) N

Calibration ID: 25507

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		316570	6.42	1242167	7.48	622490	8.96
UPPER LIMIT		633140	6.92	2484334	7.98	1244980	9.46
LOWER LIMIT		158285	5.92	621084	6.98	311245	8.46
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-402944/13		299883	6.42	1176792	7.48	584917	8.96

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Sample No.: ICIS 500-402944/9 Date Analyzed: 09/27/2017 16:28

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): L1STD40.D Heated Purge: (Y/N) N

Calibration ID: 25507

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1226646	10.21	1254384	13.55	1319215	17.27
UPPER LIMIT		2453292	10.71	2508768	14.05	2638430	17.77
LOWER LIMIT		613323	9.71	627192	13.05	659608	16.77
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-402944/13		1155594	10.21	1188691	13.55	1262084	17.27

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Sample No.: CCVIS 500-407918/2 Date Analyzed: 11/01/2017 11:10

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): 12C1101.D Heated Purge: (Y/N) N

Calibration ID: 25610

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		258790	5.57	880521	6.63	453755	8.08
UPPER LIMIT		517580	6.07	1761042	7.13	907510	8.58
LOWER LIMIT		129395	5.07	440261	6.13	226878	7.58
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVL 500-407918/4		235036	5.57	823496	6.62	421320	8.08
LCS 500-407898/2-A		223499	5.57	779291	6.62	393383	8.08
LCSD 500-407898/3-A		213371	5.57	762665	6.62	388928	8.08
MB 500-407898/1-A		196402	5.57	749829	6.62	391408	8.07
500-136532-2	CRMS-SW-03-103117	202313	5.57	759533	6.62	388702	8.07
500-136532-1	CRMS-SW-02-103117	207193	5.56	763976	6.62	389686	8.08

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Sample No.: CCVIS 500-407918/2 Date Analyzed: 11/01/2017 11:10

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): 12C1101.D Heated Purge: (Y/N) N

Calibration ID: 25610

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		897973	9.30	1017902	11.89	1147279	14.39
UPPER LIMIT		1795946	9.80	2035804	12.39	2294558	14.89
LOWER LIMIT		448987	8.80	508951	11.39	573640	13.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVL 500-407918/4		861523	9.30	919839	11.88	1036219	14.37
LCS 500-407898/2-A		780182	9.30	882896	11.88	996355	14.38
LCSD 500-407898/3-A		772686	9.30	850496	11.88	975151	14.38
MB 500-407898/1-A		776632	9.30	836638	11.87	930035	14.37
500-136532-2	CRMS-SW-03-103117	761419	9.30	774682	11.87	918634	14.37
500-136532-1	CRMS-SW-02-103117	756207	9.30	919950	11.89	1034783	14.41

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-02-103117 | Lab Sample ID: 500-136532-1

Matrix: Water | Lab File ID: 500-136532-E-1-A.D

Analysis Method: 8270D | Date Collected: 10/31/2017 08:05

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 15:11

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 50

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	<3200	^	3200	1200
108-95-2	Phenol	<400		400	54
111-44-4	Bis(2-chloroethyl)ether	<160		160	23
95-57-8	2-Chlorophenol	<400		400	45
95-48-7	2-Methylphenol	<160		160	24
108-60-1	2,2'-oxybis[1-chloropropane]	<160	*	160	30
98-86-2	Acetophenone	<400		400	53
621-64-7	N-Nitrosodi-n-propylamine	<40		40	12
67-72-1	Hexachloroethane	<400		400	48
98-95-3	Nitrobenzene	<80		80	36
78-59-1	Isophorone	<160		160	30
88-75-5	2-Nitrophenol	<800		800	200
105-67-9	2,4-Dimethylphenol	<800		800	140
111-91-1	Bis(2-chloroethoxy)methane	<160		160	23
120-83-2	2,4-Dichlorophenol	<800		800	210
91-20-3	Naphthalene	<80		80	25
106-47-8	4-Chloroaniline	<800		800	160
87-68-3	Hexachlorobutadiene	<400		400	41
105-60-2	Caprolactam	<800		800	120
59-50-7	4-Chloro-3-methylphenol	<800		800	180
91-57-6	2-Methylnaphthalene	7.2	J	160	5.2
77-47-4	Hexachlorocyclopentadiene	<1600		1600	510
88-06-2	2,4,6-Trichlorophenol	<400		400	57
95-95-4	2,4,5-Trichlorophenol	<800		800	210
92-52-4	1,1'-Biphenyl	<400		400	29
91-58-7	2-Chloronaphthalene	<160		160	19
88-74-4	2-Nitroaniline	<400		400	100
131-11-3	Dimethyl phthalate	<400		400	25
606-20-2	2,6-Dinitrotoluene	<80		80	5.9
208-96-8	Acenaphthylene	<80		80	21
99-09-2	3-Nitroaniline	<800		800	140
83-32-9	Acenaphthene	<80		80	25
51-28-5	2,4-Dinitrophenol	<1600		1600	690
100-02-7	4-Nitrophenol	<1600		1600	590

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-02-103117 | Lab Sample ID: 500-136532-1

Matrix: Water | Lab File ID: 500-136532-E-1-A.D

Analysis Method: 8270D | Date Collected: 10/31/2017 08:05

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 15:11

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 50

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
132-64-9	Dibenzofuran	<160		160	21
121-14-2	2,4-Dinitrotoluene	<80		80	20
84-66-2	Diethyl phthalate	<400		400	29
86-73-7	Fluorene	<80		80	20
7005-72-3	4-Chlorophenyl phenyl ether	<400		400	51
100-01-6	4-Nitroaniline	<800		800	130
534-52-1	4,6-Dinitro-2-methylphenol	<1600		1600	470
86-30-6	N-Nitrosodiphenylamine	<160		160	30
101-55-3	4-Bromophenyl phenyl ether	<400		400	43
118-74-1	Hexachlorobenzene	<40		40	6.4
1912-24-9	Atrazine	<400		400	50
87-86-5	Pentachlorophenol	<1600		1600	320
85-01-8	Phenanthrene	<80		80	24
120-12-7	Anthracene	<80		80	27
86-74-8	Carbazole	<400		400	28
84-74-2	Di-n-butyl phthalate	<400		400	58
206-44-0	Fluoranthene	<80		80	36
129-00-0	Pyrene	<80		80	34
85-68-7	Butyl benzyl phthalate	<160		160	38
91-94-1	3,3'-Dichlorobenzidine	<400		400	140
56-55-3	Benzo[a]anthracene	<16		16	4.5
218-01-9	Chrysene	<16		16	5.5
117-81-7	Bis(2-ethylhexyl) phthalate	<800		800	140
117-84-0	Di-n-octyl phthalate	<800		800	84
205-99-2	Benzo[b]fluoranthene	<16		16	6.5
207-08-9	Benzo[k]fluoranthene	<16		16	5.1
50-32-8	Benzo[a]pyrene	<16		16	7.9
193-39-5	Indeno[1,2,3-cd]pyrene	<16		16	6.0
53-70-3	Dibenz(a,h)anthracene	<24		24	4.1
191-24-2	Benzo[g,h,i]perylene	<80		80	30
15831-10-4	3 & 4 Methylphenol	<160		160	36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-02-103117 | Lab Sample ID: 500-136532-1

Matrix: Water | Lab File ID: 500-136532-E-1-A.D

Analysis Method: 8270D | Date Collected: 10/31/2017 08:05

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 15:11

Con. Extract Vol.: 2.0(mL) | Dilution Factor: 50

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	0	D	27-110
4165-62-2	Phenol-d5 (Surr)	0	D	20-100
4165-60-0	Nitrobenzene-d5 (Surr)	0	D	36-120
321-60-8	2-Fluorobiphenyl (Surr)	0	D	34-110
118-79-6	2,4,6-Tribromophenol (Surr)	0	D	40-145
1718-51-0	Terphenyl-d14 (Surr)	0	D	40-145

Report Date: 07-Nov-2017 12:14:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\500-136532-E-1-A.D
Lims ID: 500-136532-E-1-A
Client ID: CRMS-SW-02-103117
Sample Type: Client
Inject. Date: 01-Nov-2017 15:11:30 ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 50.0000
Sample Info: 500-136532-E-1-A
Misc. Info.: 500-0048759-011
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 02-Nov-2017 08:08:22 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: rynkarg Date: 01-Nov-2017 15:39:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.564	5.568	-0.004	96	207193	3.20	
* 2 Naphthalene-d8	136	6.619	6.629	-0.010	99	763976	3.20	
* 3 Acenaphthene-d10	164	8.075	8.075	0.000	98	389686	3.20	
* 4 Phenanthrene-d10	188	9.302	9.302	0.000	97	756207	3.20	
* 5 Chrysene-d12	240	11.889	11.889	0.000	99	919950	3.20	
* 6 Perylene-d12	264	14.414	14.385	0.029	99	1034783	3.20	
67 2-Methylnaphthalene	142	7.214	7.219	-0.005	44	2851	0.0180	
126 Phenanthrene	178	9.316	9.325	-0.009	93	9788	0.0404	
137 Pyrene	202	10.509	10.509	0.000	93	25720	0.0778	

Reagents:

SM_HIVOLISTD_00160 Amount Added: 10.00 Units: uL Run Reagent

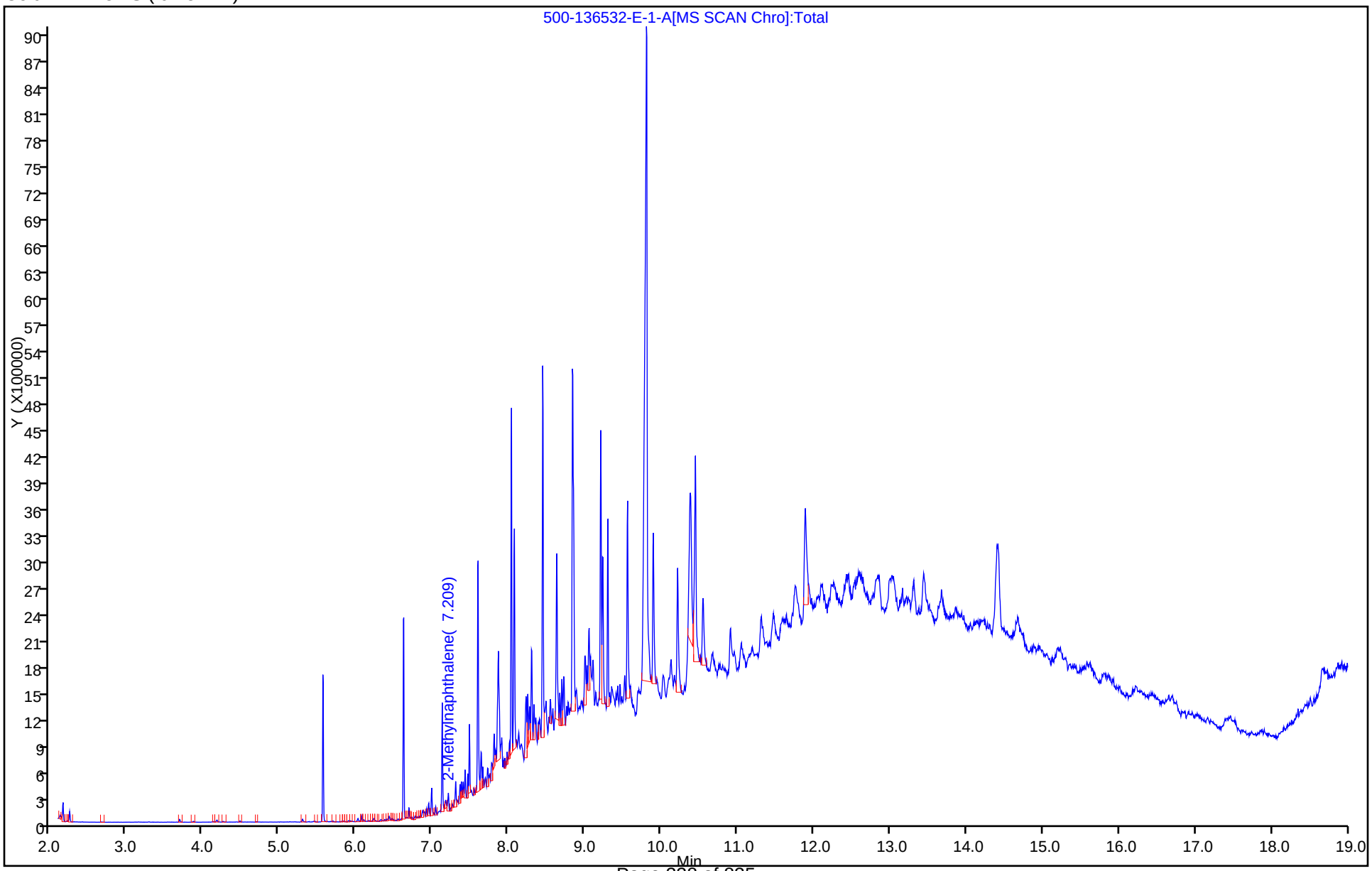
Report Date: 07-Nov-2017 12:14:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\500-136532-E-1-A.D

Injection Date:	01-Nov-2017 15:11:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	500-136532-E-1-A	Lab Sample ID:	500-136532-1	Worklist Smp#:	11
Client ID:	CRMS-SW-02-103117				
Injection Vol:	5.0 ul	Dil. Factor:	50.0000	ALS Bottle#:	8
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



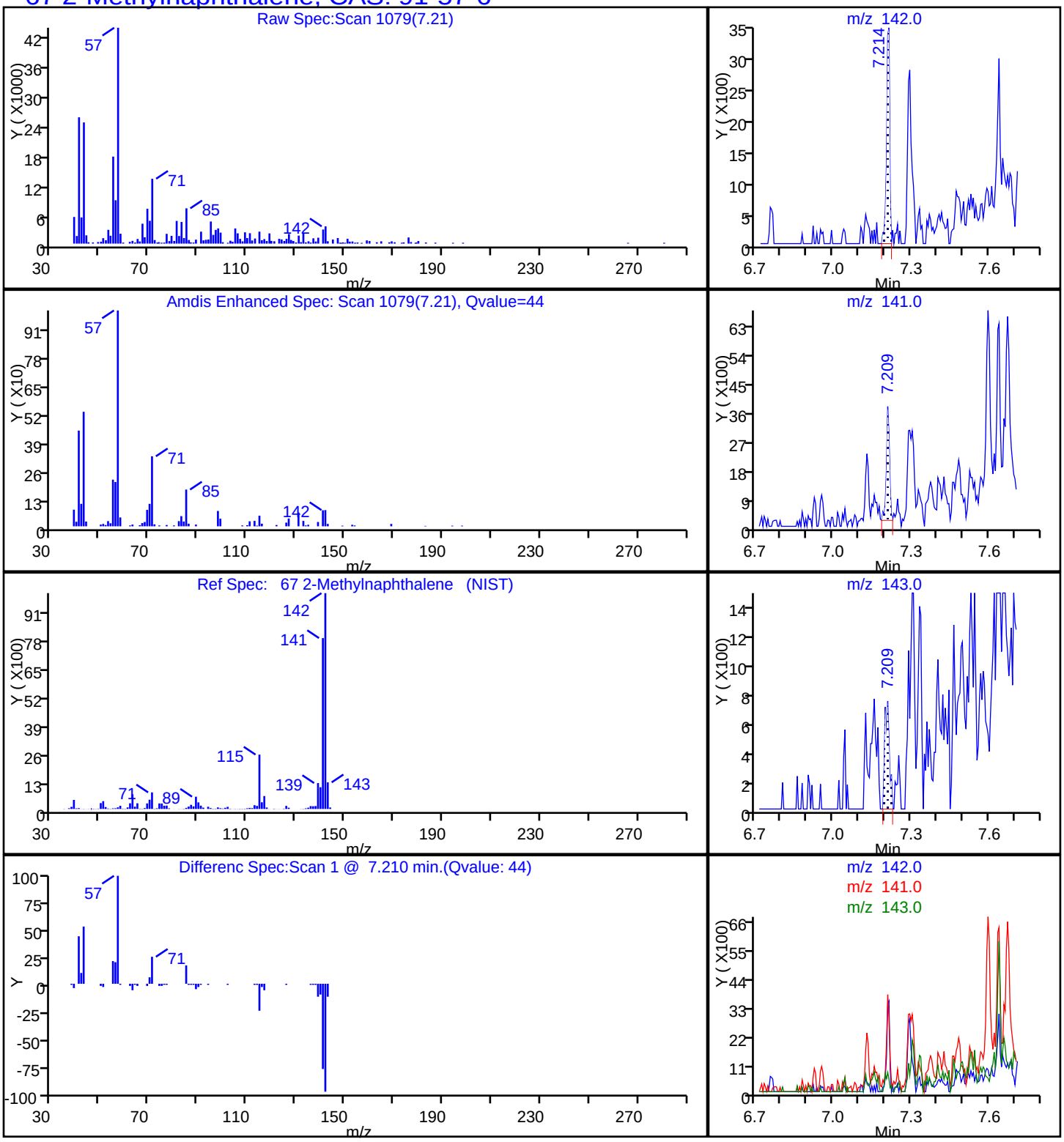
Report Date: 07-Nov-2017 12:14:21 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\500-136532-E-1-A.D

Injection Date:	01-Nov-2017 15:11:30	Instrument ID:	CMS12		
Lims ID:	500-136532-E-1-A	Lab Sample ID:	500-136532-1		
Client ID:	CRMS-SW-02-103117				
Operator ID:	AD	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	5.0 ul	Dil. Factor:	50.0000		
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		
Column:	ZB5MS (0.25 mm)	Detector	MS SCAN		

67 2-Methylnaphthalene, CAS: 91-57-6



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-03-103117 | Lab Sample ID: 500-136532-2

Matrix: Water | Lab File ID: 500-136532-E-2-A.D

Analysis Method: 8270D | Date Collected: 10/31/2017 08:25

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 14:45

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	<32	^	32	12
108-95-2	Phenol	<4.0		4.0	0.54
111-44-4	Bis(2-chloroethyl)ether	<1.6		1.6	0.23
95-57-8	2-Chlorophenol	<4.0		4.0	0.45
95-48-7	2-Methylphenol	<1.6		1.6	0.24
108-60-1	2,2'-oxybis[1-chloropropane]	<1.6	*	1.6	0.30
98-86-2	Acetophenone	<4.0		4.0	0.53
621-64-7	N-Nitrosodi-n-propylamine	<0.40		0.40	0.12
67-72-1	Hexachloroethane	<4.0		4.0	0.48
98-95-3	Nitrobenzene	<0.80		0.80	0.36
78-59-1	Isophorone	<1.6		1.6	0.30
88-75-5	2-Nitrophenol	<8.0		8.0	2.0
105-67-9	2,4-Dimethylphenol	<8.0		8.0	1.4
111-91-1	Bis(2-chloroethoxy)methane	<1.6		1.6	0.23
120-83-2	2,4-Dichlorophenol	<8.0		8.0	2.1
91-20-3	Naphthalene	<0.80		0.80	0.25
106-47-8	4-Chloroaniline	<8.0		8.0	1.6
87-68-3	Hexachlorobutadiene	<4.0		4.0	0.41
105-60-2	Caprolactam	<8.0		8.0	1.2
59-50-7	4-Chloro-3-methylphenol	<8.0		8.0	1.8
91-57-6	2-Methylnaphthalene	0.14	J	1.6	0.052
77-47-4	Hexachlorocyclopentadiene	<16		16	5.1
88-06-2	2,4,6-Trichlorophenol	<4.0		4.0	0.57
95-95-4	2,4,5-Trichlorophenol	<8.0		8.0	2.1
92-52-4	1,1'-Biphenyl	<4.0		4.0	0.29
91-58-7	2-Chloronaphthalene	<1.6		1.6	0.19
88-74-4	2-Nitroaniline	<4.0		4.0	1.0
131-11-3	Dimethyl phthalate	<4.0		4.0	0.25
606-20-2	2,6-Dinitrotoluene	<0.80		0.80	0.059
208-96-8	Acenaphthylene	<0.80		0.80	0.21
99-09-2	3-Nitroaniline	<8.0		8.0	1.4
83-32-9	Acenaphthene	<0.80		0.80	0.25
51-28-5	2,4-Dinitrophenol	<16		16	6.9
100-02-7	4-Nitrophenol	<16		16	5.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-03-103117 | Lab Sample ID: 500-136532-2

Matrix: Water | Lab File ID: 500-136532-E-2-A.D

Analysis Method: 8270D | Date Collected: 10/31/2017 08:25

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 14:45

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
132-64-9	Dibenzofuran	<1.6		1.6	0.21
121-14-2	2,4-Dinitrotoluene	<0.80		0.80	0.20
84-66-2	Diethyl phthalate	0.41	J	4.0	0.29
86-73-7	Fluorene	<0.80		0.80	0.20
7005-72-3	4-Chlorophenyl phenyl ether	<4.0		4.0	0.51
100-01-6	4-Nitroaniline	<8.0		8.0	1.3
534-52-1	4,6-Dinitro-2-methylphenol	<16		16	4.7
86-30-6	N-Nitrosodiphenylamine	<1.6		1.6	0.30
101-55-3	4-Bromophenyl phenyl ether	<4.0		4.0	0.43
118-74-1	Hexachlorobenzene	<0.40		0.40	0.064
1912-24-9	Atrazine	<4.0		4.0	0.50
87-86-5	Pentachlorophenol	<16		16	3.2
85-01-8	Phenanthrene	<0.80		0.80	0.24
120-12-7	Anthracene	<0.80		0.80	0.27
86-74-8	Carbazole	<4.0		4.0	0.28
84-74-2	Di-n-butyl phthalate	<4.0		4.0	0.58
206-44-0	Fluoranthene	<0.80		0.80	0.36
129-00-0	Pyrene	<0.80		0.80	0.34
85-68-7	Butyl benzyl phthalate	<1.6		1.6	0.38
91-94-1	3,3'-Dichlorobenzidine	<4.0		4.0	1.4
56-55-3	Benzo[a]anthracene	<0.16		0.16	0.045
218-01-9	Chrysene	<0.16		0.16	0.055
117-81-7	Bis(2-ethylhexyl) phthalate	<8.0		8.0	1.4
117-84-0	Di-n-octyl phthalate	<8.0		8.0	0.84
205-99-2	Benzo[b]fluoranthene	<0.16		0.16	0.065
207-08-9	Benzo[k]fluoranthene	<0.16		0.16	0.051
50-32-8	Benzo[a]pyrene	<0.16		0.16	0.079
193-39-5	Indeno[1,2,3-cd]pyrene	<0.16		0.16	0.060
53-70-3	Dibenz(a,h)anthracene	<0.24		0.24	0.041
191-24-2	Benzo[g,h,i]perylene	<0.80		0.80	0.30
15831-10-4	3 & 4 Methylphenol	<1.6		1.6	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-03-103117 | Lab Sample ID: 500-136532-2

Matrix: Water | Lab File ID: 500-136532-E-2-A.D

Analysis Method: 8270D | Date Collected: 10/31/2017 08:25

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 14:45

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	50		27-110
4165-62-2	Phenol-d5 (Surr)	36		20-100
4165-60-0	Nitrobenzene-d5 (Surr)	68		36-120
321-60-8	2-Fluorobiphenyl (Surr)	65		34-110
118-79-6	2,4,6-Tribromophenol (Surr)	122		40-145
1718-51-0	Terphenyl-d14 (Surr)	104		40-145

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\500-136532-E-2-A.D
Lims ID: 500-136532-E-2-A
Client ID: CRMS-SW-03-103117
Sample Type: Client
Inject. Date: 01-Nov-2017 14:45:30 ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 500-136532-E-2-A
Misc. Info.: 500-0048759-012
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 01-Nov-2017 15:15:52 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: rynkarg Date: 01-Nov-2017 15:15:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.568	5.568	0.000	96	202313	3.20	
* 2 Naphthalene-d8	136	6.619	6.629	-0.010	100	759533	3.20	
* 3 Acenaphthene-d10	164	8.070	8.075	-0.005	98	388702	3.20	
* 4 Phenanthrene-d10	188	9.297	9.302	-0.005	97	761419	3.20	
* 5 Chrysene-d12	240	11.869	11.889	-0.020	99	774682	3.20	
* 6 Perylene-d12	264	14.371	14.385	-0.014	99	918634	3.20	
$ 7 2-Fluorophenol	112	4.475	4.475	0.000	92	255280	4.98	
$ 8 Phenol-d5	99	5.297	5.307	-0.010	91	291873	3.57	
$ 9 Nitrobenzene-d5	82	6.025	6.034	-0.009	97	504759	6.78	
$ 10 2-Fluorobiphenyl	172	7.513	7.518	-0.005	99	1060839	6.49	
$ 11 2,4,6-Tribromophenol	330	8.726	8.736	-0.010	65	462398	12.2	
$ 12 Terphenyl-d14	244	10.647	10.647	0.000	99	1961675	10.4	
67 2-Methylnaphthalene	142	7.209	7.219	-0.010	94	5416	0.0343	
97 Diethyl phthalate	149	8.422	8.436	-0.014	97	16386	0.1021	
126 Phenanthrene	178	9.316	9.325	-0.009	87	8024	0.0329	
150 Bis(2-ethylhexyl) phthalat	149	11.917	11.927	-0.010	94	46484	0.2480	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

SM_HIVOLISTD_00160 Amount Added: 10.00 Units: uL Run Reagent

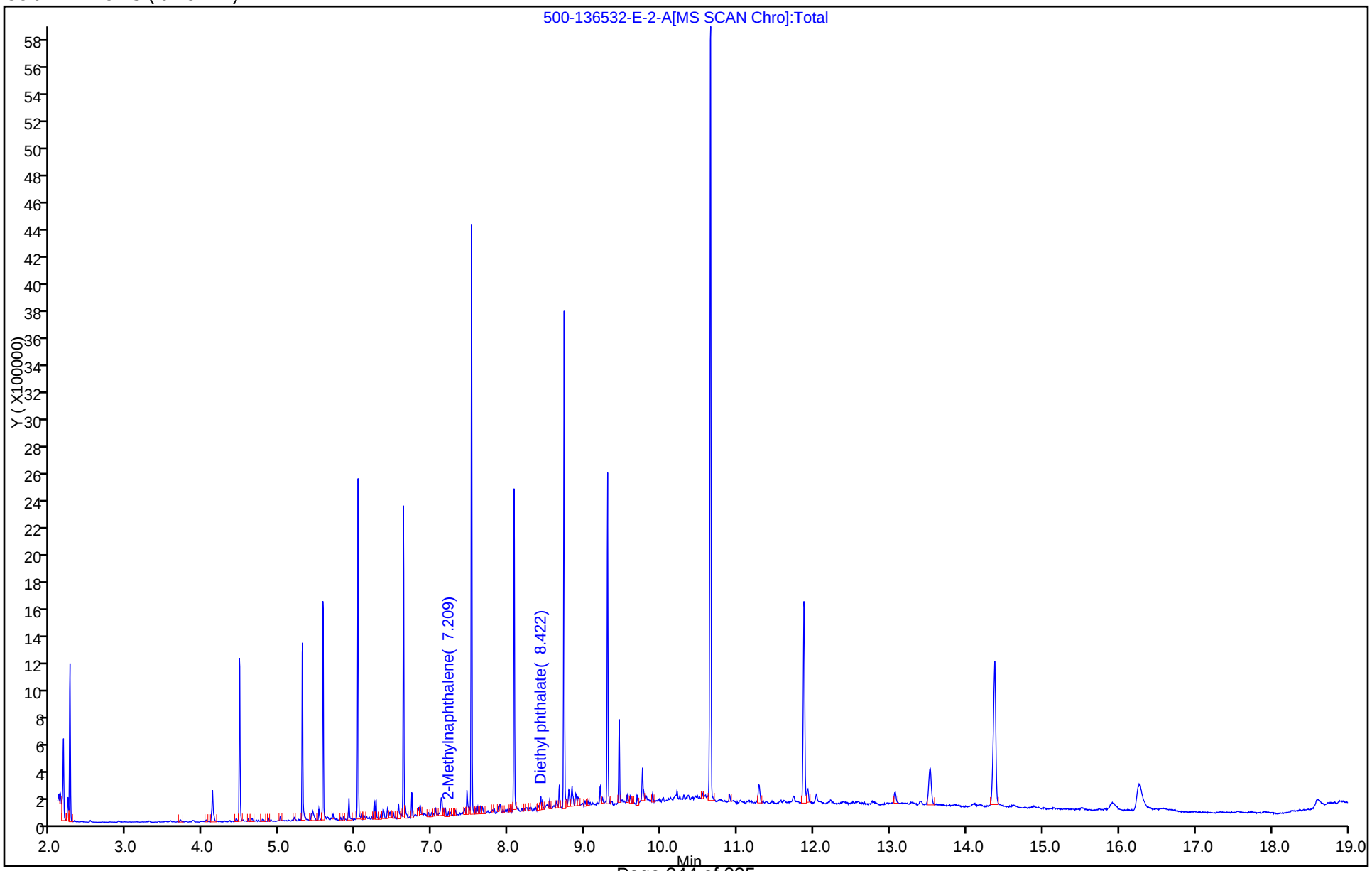
Report Date: 01-Nov-2017 15:15:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\500-136532-E-2-A.D

Injection Date:	01-Nov-2017 14:45:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	500-136532-E-2-A	Lab Sample ID:	500-136532-2	Worklist Smp#:	12
Client ID:	CRMS-SW-03-103117				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



Report Date: 01-Nov-2017 15:15:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\500-136532-E-2-A.D
Lims ID: 500-136532-E-2-A
Client ID: CRMS-SW-03-103117
Sample Type: Client
Inject. Date: 01-Nov-2017 14:45:30 ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 500-136532-E-2-A
Misc. Info.: 500-0048759-012
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 01-Nov-2017 15:15:52 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: rynkarg Date: 01-Nov-2017 15:15:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	10.0	4.98	49.82
$ 8 Phenol-d5	10.0	3.57	35.71
$ 9 Nitrobenzene-d5	10.0	6.78	67.79
$ 10 2-Fluorobiphenyl	10.0	6.49	64.90
$ 11 2,4,6-Tribromophenol	10.0	12.2	122.47
$ 12 Terphenyl-d14	10.0	10.4	103.65

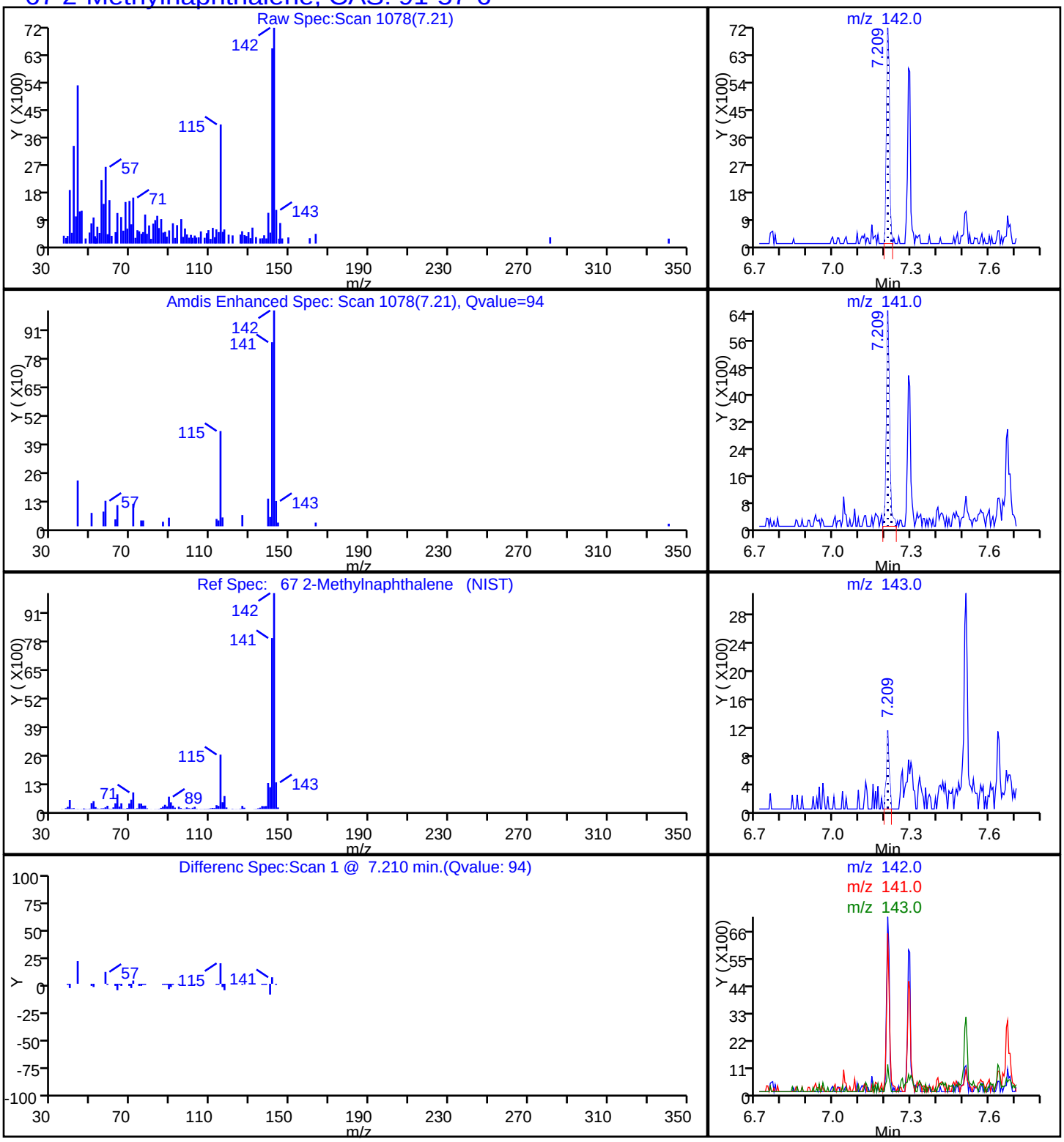
Report Date: 01-Nov-2017 15:15:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\500-136532-E-2-A.D

Injection Date:	01-Nov-2017 14:45:30	Instrument ID:	CMS12		
Lims ID:	500-136532-E-2-A	Lab Sample ID:	500-136532-2		
Client ID:	CRMS-SW-03-103117				
Operator ID:	AD	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		
Column:	ZB5MS (0.25 mm)	Detector	MS SCAN		

67 2-Methylnaphthalene, CAS: 91-57-6

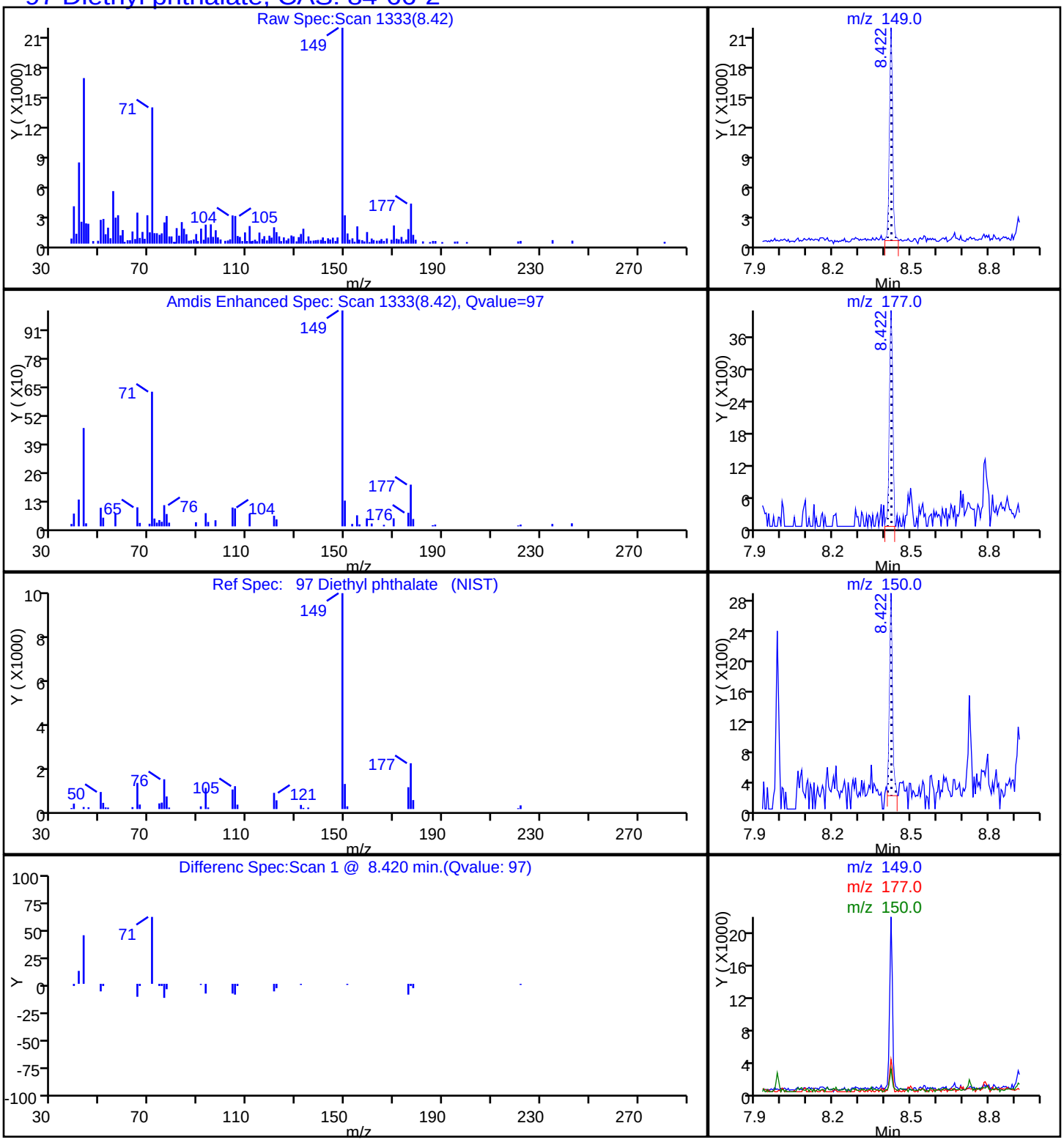


Report Date: 01-Nov-2017 15:15:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\500-136532-E-2-A.D				
Injection Date:	01-Nov-2017 14:45:30	Instrument ID:	CMS12		
Lims ID:	500-136532-E-2-A	Lab Sample ID:	500-136532-2		
Client ID:	CRMS-SW-03-103117				
Operator ID:	AD	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		
Column:	ZB5MS (0.25 mm)	Detector	MS SCAN		

97 Diethyl phthalate, CAS: 84-66-2



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-402944/3	L1STD02.D
Level 2	IC 500-402944/4	L1STD05.D
Level 3	IC 500-402944/5	L1STD1.D
Level 4	IC 500-402944/2	L1STD2.D
Level 5	IC 500-402944/6	L1STD5.D
Level 6	IC 500-402944/7	L1STD10.D
Level 7	IC 500-402944/8	L1STD20.D
Level 8	ICIS 500-402944/9	L1STD40.D
Level 9	IC 500-402944/10	L1STD50.D
Level 10	IC 500-402944/11	L1STD60.D
Level 11	IC 500-402944/12	L1STD70.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,4-Dioxane	0.2667 0.4162	0.3054	0.2983	0.3782	+++++ 0.3852	Ave		0.3417			0.0100	17.4		20.0			
N-Nitrosodimethylamine	1.0602 1.1392	1.0523	1.0602	1.0729	1.0846 1.1051	Ave		1.0821			0.0100	2.9		20.0			
Pyridine	0.8357 1.2149	1.0056	1.1162	1.1694	+++++ 1.1844	Ave		1.0877			0.0100	13.2		20.0			
Benzaldehyde	0.5832 0.2737	0.4387	0.3100	0.2905	+++++ 0.2718	Lin1	0.7808	0.2143			0.0100				0.9940		0.9900
Phenol	1.2135 1.3835	+++++ 1.4304	1.3725	1.3950	1.1362 1.3695	Ave		1.3286			0.8000	8.2		20.0			
Aniline	2.0115 1.8586	2.0359	1.8214	1.8032	1.9737 1.8548	Ave		1.9084			0.0100	5.0		20.0			
Bis(2-chloroethyl)ether	1.2600 1.3035	1.2281	1.1187	1.0443 1.1428	1.2633 1.2120	Ave		1.1966			0.7000	7.3		20.0			
2-Chlorophenol	1.1168 1.2857	1.2412	1.2371	1.2432	1.1301 1.2595	Ave		1.2162			0.8000	5.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
n-Decane	2.7597 1.8167	2.4118	+++++ 2.0378	+++++ 1.9395	3.0499 1.8646	Lin1	1.6407	1.7694			0.0100				0.9940		0.9900
1,3-Dichlorobenzene	1.4341 1.3829	1.3959	1.3514	1.4875 1.3497	1.5153 1.3823	Ave		1.4124			0.0100	4.3		20.0			
1,4-Dichlorobenzene	1.4642 1.3841	1.4344	1.3642	1.4775 1.3573	1.5809 1.3758	Ave		1.4298			0.0100	5.3		20.0			
Benzyl alcohol	0.9156 0.8164	0.8822	0.7810	0.7982	0.8585 0.7946	Ave		0.8352			0.0100	6.1		20.0			
1,2-Dichlorobenzene	1.4471 1.3534	1.4549	1.3494	1.4217 1.3391	1.5555 1.3516	Ave		1.4091			0.0100	5.4		20.0			
2-Methylphenol	0.9964 0.9429	1.0207	0.9165	0.6932 0.9314	0.9148 0.9165	Ave		0.9165			0.7000	10.8		20.0			
2,2'-oxybis[1-chloropropane]	4.7040 3.0619	4.2040	3.3916	4.5362 3.2949	5.0236 3.1392	Ave		3.9194			0.0100	20.0		20.0			
Indene	2.5233 1.7584	2.3591	1.8962	1.8550	2.6778 1.7859	Ave		2.1222			0.0100	18.2		20.0			
3 & 4 Methylphenol	1.2810 1.1040	1.2860	1.1111	0.7741 1.1222	1.1783 1.0870	Ave		1.1179			0.6000	14.3		20.0			
N-Nitrosodi-n-propylamine	0.9584 0.7221	0.6490 0.8533	0.7856 0.7242	0.8914 0.7214	1.0376 0.7112	Ave		0.8054			0.5000	15.6		20.0			
Acetophenone	1.9748 1.4627	1.8168	1.4357 1.5041	1.6566 1.4891	2.0040 1.4641	Ave		1.6453			0.0100	13.9		20.0			
Hexachloroethane	0.6199 0.6007	0.6034	0.5785	0.5809	0.6671 0.5913	Ave		0.6060			0.3000	5.0		20.0			
Nitrobenzene	0.2947 0.3157	0.2927	0.2312 0.2933	0.2508 0.3025	0.2872 0.3057	Ave		0.2860			0.2000	9.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Isophorone	0.5634 0.5817	0.5292	0.5305	0.5969 0.5433	0.6437 0.5566	Ave		0.5682			0.4000	6.8		20.0			
2-Nitrophenol	0.1718 0.1840	0.1715	0.1708	0.1740	0.1704 0.1773	Ave		0.1743			0.1000	2.8		20.0			
2,4-Dimethylphenol	0.2797 0.2792	0.2735	0.2652	0.2682	0.2952 0.2721	Ave		0.2761			0.2000	3.6		20.0			
Bis(2-chloroethoxy)methane	0.3768 0.3555	0.3513	0.3388	0.3632 0.3439	0.4124 0.3468	Ave		0.3611			0.3000	6.6		20.0			
Benzoic acid	0.1605 0.2449	0.1866	0.2095	0.2191	+++++ 0.2322	Ave		0.2088			0.0100	14.8		20.0			
2,4-Dichlorophenol	0.2684 0.2833	0.2658	0.2652	0.2694	0.2525 0.2738	Ave		0.2684			0.2000	3.5		20.0			
1,2,4-Trichlorobenzene	0.3144 0.3290	0.3125	0.3120	0.2925 0.3146	0.3108 0.3188	Ave		0.3131			0.0100	3.2		20.0			
Naphthalene	0.9991 0.8706	0.9342	0.9487 0.8705	0.9773 0.8681	1.0561 0.8573	Ave		0.9313			0.7000	7.5		20.0			
4-Chloroaniline	0.4185 0.4070	0.3907	0.3744	0.3909	0.4733 0.4036	Ave		0.4084			0.0100	7.8		20.0			
2,6-Dichlorophenol	0.2770 0.2762	0.2688	0.2632	0.2657	0.2924 0.2672	Ave		0.2729			0.0100	3.7		20.0			
Hexachlorobutadiene	0.1986 0.2115	0.1952	0.1954	0.2012 0.1992	0.2074 0.2046	Ave		0.2016			0.0100	2.9		20.0			
Caprolactam	0.0883 0.1089	0.0946	0.0963	0.0999	0.0970 0.1036	Ave		0.0984			0.0100	6.7		20.0			
4-Chloro-3-methylphenol	0.2395 0.2648	0.2370	0.2415	0.2475	0.2422 0.2555	Ave		0.2468			0.2000	4.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Methylnaphthalene	0.6921 0.6140	0.6527 0.6375	0.7631 0.5981	0.7111 0.6000	0.7753 0.5989	Ave		0.6643			0.4000	10.2		20.0			
1-Methylnaphthalene	0.6323 0.5714	0.5914	0.7352 0.5544	0.6776 0.5615	0.7226 0.5610	Ave		0.6231			0.0100	11.6		20.0			
Hexachlorocyclopentadiene	0.4473 0.4966	0.4575	0.4632	0.4758	+++++ 0.4768	Ave		0.4696			0.0500	3.7		20.0			
1,2,4,5-Tetrachlorobenzene	0.6372 0.6625	0.6136	0.6135	0.6272	0.6696 0.6414	Ave		0.6379			0.0100	3.5		20.0			
2,4,6-Trichlorophenol	0.3921 0.4489	0.4012	0.4133	0.4223	0.3938 0.4310	Ave		0.4147			0.2000	5.0		20.0			
2,4,5-Trichlorophenol	0.4153 0.4765	0.4117	0.4092	0.4337	0.3997 0.4482	Ave		0.4278			0.2000	6.3		20.0			
1,1'-Biphenyl	1.5002 1.4261	1.4502	1.4031	1.3891	1.6168 1.4013	Ave		1.4552			0.0100	5.5		20.0			
2-Chloronaphthalene	1.2092 1.2223	1.1835	1.1607	1.1866 1.1725	1.2960 1.1798	Ave		1.2013			0.8000	3.6		20.0			
2-Nitroaniline	0.3397 0.4002	0.3389	0.3544	0.3696	0.3491 0.3834	Ave		0.3622			0.0100	6.4		20.0			
Dimethyl phthalate	1.3389 1.4660	1.3091	1.3277	+++++ 1.3634	1.4429 1.4119	Ave		1.3800			0.0100	4.4		20.0			
m-Dinitrobenzene	0.1912 0.2428	0.1992	0.2108	0.2221	0.1860 0.2324	Ave		0.2121			0.0100	10.1		20.0			
2,6-Dinitrotoluene	0.2954 0.3362	0.2127 0.2919	0.2280 0.3061	0.2688 0.3148	0.3044 0.3231	Ave		0.2882			0.2000	14.0		20.0			
Acenaphthylene	1.9996 1.8697	1.9162	1.8992 1.8364	1.9779 1.8410	2.1144 1.8308	Ave		1.9206			0.9000	4.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
3-Nitroaniline	0.2779 0.2745	0.2600	0.2567	0.2785	0.2820 0.2962	Ave		0.2751			0.0100	4.9		20.0			
Acenaphthene	1.3165 1.2230	1.2700	1.1618 1.1779	1.2465 1.1758	1.3668 1.1814	Ave		1.2355			0.9000	5.8		20.0			
2,4-Dinitrophenol	0.1603 0.2351	0.1868	0.2026	0.2125	+++++ 0.2235	Ave		0.2035			0.0100	13.2		20.0			
4-Nitrophenol	0.1536 0.1914	0.1402	0.1664	0.1756	0.1323 0.1846	Ave		0.1635			0.0100	13.7		20.0			
2,4-Dinitrotoluene	0.3789 0.4571	0.3870	0.2820 0.4047	0.3269 0.4202	0.3809 0.4373	Ave		0.3861			0.2000	14.1		20.0			
Dibenzofuran	1.7853 1.7077	1.7026	1.6311	1.8171 1.6521	1.9139 1.6631	Ave		1.7341			0.8000	5.6		20.0			
2,3,4,6-Tetrachlorophenol	0.3599 0.4311	0.3671	0.3864	0.3985	0.3699 0.4141	Ave		0.3896			0.0100	6.8		20.0			
Diethyl phthalate	1.3872 1.2784	1.2968	1.2265	1.4224 1.2335	1.4892 1.2409	Ave		1.3219			0.0100	7.5		20.0			
Hexadecane	1.1070 0.7046	1.0026	0.8212	0.7742	1.1974 0.7239	Qua2	0.1825	1.0524	-0.027937		0.0100				0.9990		0.9900
4-Chlorophenyl phenyl ether	0.6807 0.7129	0.6613	0.6580	0.6672	0.7168 0.6842	Ave		0.6830			0.4000	3.5		20.0			
Fluorene	1.4132 1.3413	1.3354	1.4181 1.2725	1.4140 1.3009	1.5340 1.3176	Ave		1.3719			0.9000	5.9		20.0			
4-Nitroaniline	0.3011 0.2401	0.2749	0.2424	0.2391	+++++ 0.2426	Ave		0.2567			0.0100	10.0		20.0			
4,6-Dinitro-2-methylphenol	0.1228 0.1534	0.1288	0.1341	0.1417	+++++ 0.1453	Ave		0.1377			0.0100	8.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
N-Nitrosodiphenylamine	0.5077 0.5087	0.4922	0.4697 0.4732	0.5030 0.4891	0.5401 0.4883	Ave		0.4969			0.0100	4.3		20.0			
Diphenylamine	0.5973 0.5984	0.5791	0.5568	0.5755	0.6354 0.5745	Ave		0.5881			0.0100	4.3		20.0			
1,2-Diphenylhydrazine	1.2743 1.2556	1.2394	1.2327	1.2335	1.3818 1.2418	Ave		1.2656			0.0100	4.2		20.0			
4-Bromophenyl phenyl ether	0.2295 0.2496	0.2215	0.2237	0.2315	0.2452 0.2363	Ave		0.2339			0.1000	4.5		20.0			
Hexachlorobenzene	0.2668 0.3082	0.2931 0.2654	0.2744 0.2697	0.2731 0.2829	0.2860 0.2874	Ave		0.2807			0.1000	4.8		20.0			
Atrazine	0.1868 0.1728	0.1724	0.1659	0.1688	0.2004 0.1671	Ave		0.1763			0.0100	7.2		20.0			
n-Octadecane	0.6125 0.3237	0.4879	0.3748	+++++ 0.3524	+++++ 0.3287	Lin1	0.7297	0.2759			0.0100				0.9950		0.9900
Pentachlorophenol	0.1647 0.1914	0.1704	0.1715	0.1796	0.1541 0.1831	Ave		0.1735			0.0500	7.1		20.0			
Phenanthrene	1.0634 1.0152	1.0088	1.0271 0.9633	1.0752 0.9760	1.1290 0.9803	Ave		1.0265			0.7000	5.3		20.0			
Anthracene	1.0880 1.0413	1.0551	1.0421 1.0005	1.1082 1.0144	1.1652 1.0017	Ave		1.0574			0.7000	5.2		20.0			
Carbazole	0.9711 0.8845	0.9063	0.8515	0.9280 0.8541	0.9703 0.8612	Ave		0.9034			0.0100	5.4		20.0			
Di-n-butyl phthalate	1.2105 1.1874	1.1776	1.1450	1.2072 1.1616	1.3137 1.1667	Ave		1.1962			0.0100	4.4		20.0			
Fluoranthene	1.1989 1.2136	1.1578	1.0060 1.1169	1.1718 1.1545	1.2676 1.1622	Ave		1.1610			0.6000	6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Benzidine	+++++ 0.4799	0.2991	0.3938	0.4197	+++++ 0.4473	Ave		0.4079			0.0100	16.9		20.0			
Pyrene	1.2052 1.2204	1.1529	0.9638 1.1271	1.1002 1.1424	1.2616 1.1762	Ave		1.1500			0.6000	7.5		20.0			
Butyl benzyl phthalate	0.5318 0.6005	0.5276	0.5333	0.4877 0.5517	0.5422 0.5675	Ave		0.5428			0.0100	6.0		20.0			
3,3'-Dichlorobenzidine	0.3632 0.4738	0.3685	0.3953	0.4112	0.3438 0.4382	Ave		0.3991			0.0100	11.5		20.0			
Bis(2-ethylhexyl) phthalate	0.7613 0.8413	0.7544	0.7670	0.6910 0.7832	0.7895 0.8054	Ave		0.7741			0.0100	5.6		20.0			
Benzo[a]anthracene	1.2608 1.1195 1.2237	1.1195 1.0935	1.0238 1.0913	1.0914 1.1202	1.1933 1.1652	Ave		1.1366			0.8000	6.0		20.0			
Chrysene	1.1612 1.0405 1.1799	1.1212 1.0384	0.9727 1.0429	1.0488 1.0624	1.1372 1.0993	Ave		1.0822			0.7000	5.8		20.0			
Di-n-octyl phthalate	1.2307 1.5410	1.2842	1.3502	1.4185	1.2111 1.4580	Ave		1.3563			0.0100	9.1		20.0			
Benzo[b]fluoranthene	0.8358 1.0044 1.2621	0.8266 1.0204	0.8061 1.0433	0.8991 1.1152	1.0260 1.1828	Ave		1.0020			0.7000	14.9		20.0			
Benzo[k]fluoranthene	0.6892 1.0563 1.1212	0.8850 1.0590	0.8406 1.0939	0.9881 1.1199	1.0995 1.0882	Ave		1.0037			0.7000	14.0		20.0			
Benzo[a]pyrene	0.7155 0.9800 1.1743	0.7358 1.0034	0.7347 1.0356	0.8611 1.0689	1.0020 1.1157	Ave		0.9479			0.7000	17.0		20.0			
Indeno[1,2,3-cd]pyrene	0.9557 1.2449 1.3737	0.9728 1.2501	0.9584 1.2677	1.0977 1.2866	1.2761 1.3184	Ave		1.1820			0.5000	13.2		20.0			
Dibenz(a,h)anthracene	0.6900 0.9927 1.1256	0.7171 1.0224	0.7185 1.0506	0.8579 1.0365	0.9704 1.1134	Ave		0.9359			0.4000	17.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Benzo[g,h,i]perylene	1.0102 1.0542	1.0276	0.7891 1.0061	0.8686 1.0175	1.0033 1.0255	Ave		0.9780			0.5000	9.0		20.0			
2-Fluorophenol (Surr)	0.6808 1.0713	0.7137	0.5304 0.9040	0.6610 0.9091	0.7749 1.0177	Qua2	-0.027	0.6850	0.0262603		0.0100				0.9960		0.9900
Phenol-d5 (Surr)	1.1227 1.3891	1.2776	0.6170 1.3036	0.7438 1.3464	1.0255 1.3098	Lin1	-0.211	1.3519			0.0100				0.9980		0.9900
Nitrobenzene-d5 (Surr)	0.3185 0.3559	0.3092	0.2560 0.3263	0.2738 0.3334	0.3174 0.3330	Ave		0.3137			0.0100	9.9		20.0			
2-Fluorobiphenyl (Surr)	1.3856 1.3345	1.2885	1.3534 1.3051	1.3821 1.3127	1.4713 1.2777	Ave		1.3457			0.0100	4.5		20.0			
2,4,6-Tribromophenol (Surr)	0.2967 0.3837	0.2914	0.2323 0.3313	0.2631 0.3509	0.2943 0.3538	Ave		0.3108			0.0100	15.5		20.0			
Terphenyl-d14 (Surr)	0.7844 0.8675	0.7374	0.6799 0.7917	0.7243 0.8113	0.8274 0.8122	Ave		0.7818			0.0100	7.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-402944/3	L1STD02.D
Level 2	IC 500-402944/4	L1STD05.D
Level 3	IC 500-402944/5	L1STD1.D
Level 4	IC 500-402944/2	L1STD2.D
Level 5	IC 500-402944/6	L1STD5.D
Level 6	IC 500-402944/7	L1STD10.D
Level 7	IC 500-402944/8	L1STD20.D
Level 8	ICIS 500-402944/9	L1STD40.D
Level 9	IC 500-402944/10	L1STD50.D
Level 10	IC 500-402944/11	L1STD60.D
Level 11	IC 500-402944/12	L1STD70.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dioxane	DCBd 4	Ave	42000 541263	106064	236045	364100	+++++ 448319	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
N-Nitrosodimethylamine	DCBd 4	Ave	166983 1481494	365400	839053	1032933	74340 1286318	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Pyridine	DCBd 4	Ave	263232 3160040	698414	1766808	2251728	+++++ 2757091	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
Benzaldehyde	DCBd 4	Lin1	91853 355922	152338	245360	279663	+++++ 316406	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
Phenol	DCBd 4	Ave	191132 1799200	+++++ 496702	1086202	1343044	77873 1593970	2.00 14.0	+++++ 4.00	8.00	10.0	1.00 12.0
Aniline	DCBd 4	Ave	316807 2417114	706970	1441492	1735978	135280 2158930	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	198448 1695211	426474	885374	31887 1100228	86588 1410688	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Chlorophenol	DCBd 4	Ave	175892 1672055	431014	979070	1196849	77460 1466002	2.00 14.0	4.00	8.00	10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
n-Decane	DCBd 4	Lin1	434649 2362672	837514	+++++ 1612764	+++++ 1867236	209042 2170317	2.00 14.0	4.00	+++++ 8.00	+++++ 10.0	1.00 12.0
1,3-Dichlorobenzene	DCBd 4	Ave	225874 1798492	484718	1069542	45421 1299428	103858 1608924	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
1,4-Dichlorobenzene	DCBd 4	Ave	230613 1799973	498104	1079634	45116 1306714	108355 1601375	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzyl alcohol	DCBd 4	Ave	144202 1061706	306353	618141	768423	58841 924836	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2-Dichlorobenzene	DCBd 4	Ave	227926 1760067	505229	1067939	43412 1289187	106613 1573173	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Methylphenol	DCBd 4	Ave	156934 1226294	354447	725321	21166 896674	62699 1066708	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	740884 3981961	1459848	2684187	138513 3172152	344323 3653861	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Indene	DCBd 4	Ave	794836 4573608	1638429	3001333	3571739	367075 4157319	4.00 28.0	8.00	16.0	20.0	2.00 24.0
3 & 4 Methylphenol	DCBd 4	Ave	201751 1435706	446551	879331	23637 1080399	80761 1265248	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
N-Nitrosodi-n-propylamine	DCBd 4	Ave	150941 939047	4235 296314	10370 573172	27220 694532	71116 827825	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acetophenone	DCBd 4	Ave	311033 1902264	630881	18952 1190403	50584 1433605	137357 1704074	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Hexachloroethane	DCBd 4	Ave	97632 781229	209547	457863	559287	45726 688267	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Nitrobenzene	NPT	Ave	214907 1541713	454081	12369 910849	32223 1138258	89154 1359903	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isophorone	NPT	Ave	410785 2840393	821134	1647333	76702 2044611	199796 2476045	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitrophenol	NPT	Ave	125271 898496	266115	530415	654877	52900 788737	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4-Dimethylphenol	NPT	Ave	203947 1363401	424301	823445	1009139	91610 1210467	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethoxy)methane	NPT	Ave	274752 1736040	545038	1052174	46662 1294335	128001 1542920	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzoic acid	NPT	Ave	234110 2391822	578909	1301362	1648864	+++++ 2066283	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
2,4-Dichlorophenol	NPT	Ave	195712 1383570	412357	823532	1013869	78385 1217985	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2,4-Trichlorobenzene	NPT	Ave	229214 1606545	484792	968852	37589 1183856	96464 1418097	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Naphthalene	NPT	Ave	728474 4251074	1449362	50756 2703250	125575 3266781	327802 3814217	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Chloroaniline	NPT	Ave	305185 1987342	606199	1162713	1471174	146914 1795676	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dichlorophenol	NPT	Ave	201962 1348589	417077	817480	999763	90755 1188772	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobutadiene	NPT	Ave	144840 1032574	302850	606727	25850 749705	64364 910034	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Caprolactam	NPT	Ave	64356 531589	146773	299162	376069	30095 461072	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Chloro-3-methylphenol	NPT	Ave	174645 1293122	367640	749949	931296	75159 1136626	2.00 14.0	4.00	8.00	10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Methylnaphthalene	NPT	Ave	504675 2998007	15897 989099	40824 1857502	91374 2257900	240644 2664529	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
1-Methylnaphthalene	NPT	Ave	461072 2790095	917600	39335 1721489	87065 2113208	224289 2495845	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Hexachlorocyclopentadiene	ANT	Ave	173287 1209163	363598	720914	890353	+++++ 1055562	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	246865 1612984	487665	954809	1173558	118125 1419834	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,6-Trichlorophenol	ANT	Ave	151912 1092943	318833	643184	790181	69464 954173	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,5-Trichlorophenol	ANT	Ave	160881 1160063	327207	636883	811474	70503 992239	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,1'-Biphenyl	ANT	Ave	581182 3472203	1152466	2183524	2599221	285196 3102155	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2-Chloronaphthalene	ANT	Ave	468440 2976037	940577	1806293	91060 2194101	228610 2611652	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitroaniline	ANT	Ave	131595 974324	269356	551582	691654	61574 848840	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Dimethyl phthalate	ANT	Ave	518689 3569459	1040352	2066234	+++++ 2551247	254518 3125462	2.00 14.0	4.00	8.00	+++++ 10.0	1.00 12.0
m-Dinitrobenzene	ANT	Ave	74072 591120	158283	328117	415670	32814 514356	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dinitrotoluene	ANT	Ave	114422 818578	3921 231973	8507 476398	20629 589142	53697 715287	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acenaphthylene	ANT	Ave	774663 4552253	1522877	70852 2857824	151784 3445001	372970 4052861	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
3-Nitroaniline	ANT	Ave	107661 668399	206663	399475	521103	49737 655677	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Acenaphthene	ANT	Ave	510026 2977668	1009319	43343 1833080	95659 2200161	241097 2615293	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2,4-Dinitrophenol	ANT	Ave	124232 1144811	296971	630437	795251	+++++ 989680	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
4-Nitrophenol	ANT	Ave	119021 932116	222877	518047	657247	46661 817318	4.00 28.0	8.00	16.0	20.0	2.00 24.0
2,4-Dinitrotoluene	ANT	Ave	146775 1112909	307538	10521 629741	25083 786210	67196 968030	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenzofuran	ANT	Ave	691617 4157819	1353123	2538382	139441 3091386	337616 3681605	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	139434 1049705	291771	601347	745667	65248 916724	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Diethyl phthalate	ANT	Ave	537418 3112702	1030583	1908721	109155 2308241	262687 2746886	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Hexadecane	ANT	Qua2	428840 1715495	796798	1278026	1448682	211218 1602433	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Chlorophenyl phenyl ether	ANT	Ave	263719 1735791	525513	1023934	1248423	126437 1514670	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Fluorene	ANT	Ave	547468 3265781	1061296	52903 1980240	108513 2434287	270600 2916823	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Nitroaniline	ANT	Ave	116665 584612	218507	377274	447320	+++++ 537059	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
4,6-Dinitro-2-methylphenol	PHN	Ave	181159 1463774	392924	822411	1040194	+++++ 1277811	4.00 28.0	8.00	16.0	20.0	+++++ 24.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
N-Nitrosodiphenylamine	PHN	Ave	374344 2426785	750915	33551 1451261	72375 1795219	180295 2147459	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Diphenylamine	PHN	Ave	374344 2426785	750915	1451261	1795219	180295 2147459	1.70 11.9	3.40	6.80	8.50	0.850 10.2
1,2-Diphenylhydrazine	ANT	Ave	493683 3057048	984966	1918394	2308145	243744 2748973	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Bromophenyl phenyl ether	PHN	Ave	169264 1190727	337976	686056	849610	81835 1038999	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobenzene	PHN	Ave	196729 1470623	9848 404865	19602 826958	39288 1038113	95463 1263765	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Atrazine	PHN	Ave	137727 824545	262927	508693	619655	66897 734739	2.00 14.0	4.00	8.00	10.0	1.00 12.0
n-Octadecane	PHN	Lin1	451635 1544132	744301	1149347	+++++ 1293334	+++++ 1445462	2.00 14.0	4.00	8.00	+++++ 10.0	+++++ 12.0
Pentachlorophenol	PHN	Ave	242854 1826010	519812	1051613	1318128	102879 1610761	4.00 28.0	8.00	16.0	20.0	2.00 24.0
Phenanthrene	PHN	Ave	784108 4843379	1538910	73368 2954029	154709 3581978	376869 4310713	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Anthracene	PHN	Ave	802250 4968042	1609551	74446 3068042	159456 3722870	388934 4404914	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Carbazole	PHN	Ave	716032 4219933	1382599	2611156	133529 3134739	323897 3786913	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Di-n-butyl phthalate	PHN	Ave	892587 5665067	1796418	3511193	173692 4263049	438519 5130387	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Fluoranthene	PHN	Ave	884016 5789737	1766309	71862 3425059	168601 4237164	423129 5110788	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Benzidine	CRY	Ave	+++++ 2343981	467323	1234918	1601762	+++++ 2009187	+++++ 14.0	4.00	8.00	10.0	+++++ 12.0
Pyrene	CRY	Ave	908090 5961391	1801653	74222 3534691	166127 4360056	435190 5283292	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Butyl benzyl phthalate	CRY	Ave	400676 2933360	824388	1672315	73640 2105542	187022 2548958	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
3,3'-Dichlorobenzidine	CRY	Ave	273645 2314343	575781	1239679	1569158	118585 1968447	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	573620 4109532	1178806	2405246	104342 2989033	272328 3617706	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzo[a]anthracene	CRY	Ave	18049 843459 5977398	41379 1708685	78842 3422223	164788 4275383	411639 5233750	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Chrysene	CRY	Ave	16623 783960 5763664	41444 1622663	74909 3270381	158366 4054479	392273 4937976	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Di-n-octyl phthalate	PHN	Ave	907474 7352159	1959123	4140555	5206122	404281 6411418	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Benzo[b]fluoranthene	PRY	Ave	12256 780374 6595464	31085 1664020	63289 3440854	139147 4499216	359608 5640975	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[k]fluoranthene	PRY	Ave	10106 820688 5859042	33281 1726912	65997 3607621	152911 4518041	385381 5189397	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[a]pyrene	PRY	Ave	10492 761386 6136771	27668 1636238	57681 3415585	133265 4312119	351207 5320960	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	14014 967240 7178885	36582 2038629	75242 4180942	169885 5190413	447289 6287639	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenz(a,h)anthracene	PRY	Ave	10118 771283 5881967	26967 1667231	56406 3464922	132761 4181621	340138 5309726	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Benzo[g,h,i]perylene	PRY	Ave	784843 5509241	1675743	61953 3318001	134415 4105032	351674 4890500	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorophenol (Surr)	DCBd 4	Qua2	107233 1393275	247833	7001 715485	20185 875215	53111 1184496	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Phenol-d5 (Surr)	DCBd 4	Lin1	176826 1806523	443630	8144 1031726	22712 1296223	70288 1524516	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Nitrobenzene-d5 (Surr)	NPT	Ave	232247 1737758	479657	13697 1013378	35178 1254530	98508 1481411	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorobiphenyl (Surr)	ANT	Ave	536796 3249205	1023996	50488 2031100	106063 2456352	259535 2828420	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	114949 934332	231579	8666 515624	20189 656618	51909 783115	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Terphenyl-d14 (Surr)	CRY	Ave	591039 4237705	1152254	52358 2482591	109366 3096376	285412 3648315	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua2 = Quadratic 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-402944/3	L1STD02.D
Level 2	IC 500-402944/4	L1STD05.D
Level 3	IC 500-402944/5	L1STD1.D
Level 4	IC 500-402944/2	L1STD2.D
Level 5	IC 500-402944/6	L1STD5.D
Level 6	IC 500-402944/7	L1STD10.D
Level 7	IC 500-402944/8	L1STD20.D
Level 8	ICIS 500-402944/9	L1STD40.D
Level 9	IC 500-402944/10	L1STD50.D
Level 10	IC 500-402944/11	L1STD60.D
Level 11	IC 500-402944/12	L1STD70.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
1,4-Dioxane	-10.6	-12.7	10.7	12.7	+++++ 21.8	-21.9	30	30	30	30	30	50
N-Nitrosodimethylamine	-2.8	-2.0	-0.8	2.1	0.2 5.3	-2.0	30	30	30	30	50 30	30
Pyridine	-7.5	2.6	7.5	8.9	+++++ 11.7	-23.2	30	30	30	30	30	50
Benzaldehyde	13.6	-0.9	-0.9	-3.5	+++++ 1.7	-10.0	30	30	30	30	30	50
Phenol	7.7	+++++ 3.3	5.0	3.1	-14.5 4.1	-8.7	30	30	30	30	50 30	30
Aniline	6.7	-4.6	-5.5	-2.8	3.4 -2.6	5.4	30	30	30	30	50 30	30
Bis(2-chloroethyl)ether	2.6	-6.5	-4.5	-12.7 1.3	5.6 8.9	5.3	30	30	30	50 30	30 30	30
2-Chlorophenol	2.1	1.7	2.2	3.6	-7.1 5.7	-8.2	30	30	30	30	50 30	30
n-Decane	13.1	3.6	+++++ 0.3	+++++ -2.3	-20.4 -3.9	9.6	30	30	30	30	50 30	30
1,3-Dichlorobenzene	-1.2	-4.3	-4.4	5.3 -2.1	7.3 -2.1	1.5	30	30	30	50 30	30 30	30
1,4-Dichlorobenzene	0.3	-4.6	-5.1	3.3 -3.8	10.6 -3.2	2.4	30	30	30	50 30	30 30	30
Benzyl alcohol	5.6	-6.5	-4.4	-4.9	2.8 -2.3	9.6	30	30	30	30	50 30	30
1,2-Dichlorobenzene	3.3	-4.2	-5.0	0.9 -4.1	10.4 -4.0	2.7	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
2-Methylphenol	11.4	0.0	1.6	-24.4 0.0	-0.2 2.9	8.7	30	30	30	50 30	30 30	30
2,2'-oxybis[1-chloropropane]	7.3	-13.5	-15.9	15.7 -19.9	28.2 -21.9	20.0	30	30	30	50 30	30 30	30
Indene	11.2	-10.7	-12.6	-15.8	26.2 -17.1	18.9	30	30	30	30	50 30	30
3 & 4 Methylphenol	15.0	-0.6	0.4	-30.8 -2.8	5.4 -1.3	14.6	30	30	30	50 30	30 30	30
N-Nitrosodi-n-propylamine	5.9	-19.4 -10.1	-2.5 -10.4	10.7 -11.7	28.8 -10.3	19.0	30	50 30	30 30	30 30	30 30	30
Acetophenone	10.4	-8.6	-12.7 -9.5	0.7 -11.0	21.8 -11.1	20.0	30	30	50 30	30 30	30 30	30
Hexachloroethane	-0.4	-4.5	-4.1	-2.4	10.1 -0.9	2.3	30	30	30	30	50 30	30
Nitrobenzene	2.3	2.6	-19.2 5.8	-12.3 6.9	0.4 10.4	3.1	30	30	50 30	30 30	30 30	30
Isophorone	-6.9	-6.6	-4.4	5.1 -2.0	13.3 2.4	-0.8	30	30	30	50 30	30 30	30
2-Nitrophenol	-1.6	-2.0	-0.1	1.7	-2.2 5.6	-1.4	30	30	30	30	50 30	30
2,4-Dimethylphenol	-1.0	-4.0	-2.9	-1.5	6.9 1.1	1.3	30	30	30	30	50 30	30
Bis(2-chloroethoxy)methane	-2.7	-6.2	-4.7	0.6 -4.0	14.2 -1.5	4.4	30	30	30	50 30	30 30	30
Benzoic acid	-10.7	0.3	4.9	11.2	+++++ 17.3	-23.1	30	30	30	30	30	50
2,4-Dichlorophenol	-1.0	-1.2	0.4	2.0	-5.9 5.6	0.0	30	30	30	30	50 30	30
1,2,4-Trichlorobenzene	-0.2	-0.3	0.5	-6.6 1.8	-0.7 5.1	0.4	30	30	30	50 30	30 30	30
Naphthalene	0.3	-6.5	1.9 -6.8	4.9 -7.9	13.4 -6.5	7.3	30	30	50 30	30 30	30 30	30
4-Chloroaniline	-4.3	-8.3	-4.3	-1.2	15.9 -0.3	2.5	30	30	30	30	50 30	30
2,6-Dichlorophenol	-1.5	-3.5	-2.7	-2.1	7.1 1.2	1.5	30	30	30	30	50 30	30
Hexachlorobutadiene	-3.2	-3.1	-1.2	-0.2 1.5	2.8 4.9	-1.5	30	30	30	50 30	30 30	30
Caprolactam	-3.8	-2.1	1.6	5.4	-1.4 10.7	-10.3	30	30	30	30	50 30	30
4-Chloro-3-methylphenol	-4.0	-2.2	0.3	3.5	-1.9 7.3	-3.0	30	30	30	30	50 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
2-Methylnaphthalene	-4.0	-1.7 -10.0	14.9 -9.7	7.1 -9.8	16.7 -7.6	4.2	30	50 30	30 30	30 30	30 30	30
1-Methylnaphthalene	-5.1	-11.0	18.0 -9.9	8.8 -10.0	16.0 -8.3	1.5	30	30	50 30	30 30	30 30	30
Hexachlorocyclopentadiene	-2.6	-1.3	1.3	1.5	+++++ 5.8	-4.7	30	30	30	30	30	50
1,2,4,5-Tetrachlorobenzene	-3.8	-3.8	-1.7	0.6	5.0 3.9	-0.1	30	30	30	30	50 30	30
2,4,6-Trichlorophenol	-3.2	-0.3	1.8	3.9	-5.0 8.3	-5.4	30	30	30	30	50 30	30
2,4,5-Trichlorophenol	-3.7	-4.3	1.4	4.8	-6.6 11.4	-2.9	30	30	30	30	50 30	30
1,1'-Biphenyl	-0.3	-3.6	-4.5	-3.7	11.1 -2.0	3.1	30	30	30	30	50 30	30
2-Chloronaphthalene	-1.5	-3.4	-2.4	-1.2 -1.8	7.9 1.7	0.7	30	30	30	50 30	30 30	30
2-Nitroaniline	-6.4	-2.1	2.1	5.9	-3.6 10.5	-6.2	30	30	30	30	50 30	30
Dimethyl phthalate	-5.1	-3.8	-1.2	+++++ 2.3	4.6 6.2	-3.0	30	30	30	30	50 30	30
m-Dinitrobenzene	-6.1	-0.6	4.7	9.6	-12.3 14.5	-9.8	30	30	30	30	50 30	30
2,6-Dinitrotoluene	1.3	-26.2 6.2	-20.9 9.3	-6.7 12.1	5.6 16.7	2.5	30	50 30	30 30	30 30	30 30	30
Acenaphthylene	-0.2	-4.4	-1.1 -4.1	3.0 -4.7	10.1 -2.7	4.1	30	30	50 30	30 30	30 30	30
3-Nitroaniline	-5.5	-6.7	1.2	7.7	2.5 -0.2	1.0	30	30	30	30	50 30	30
Acenaphthene	2.8	-4.7	-6.0 -4.8	0.9 -4.4	10.6 -1.0	6.6	30	30	50 30	30 30	30 30	30
2,4-Dinitrophenol	-8.2	-0.5	4.4	9.9	+++++ 15.5	-21.2	30	30	30	30	30	50
4-Nitrophenol	-14.2	1.8	7.4	12.9	-19.1 17.1	-6.0	30	30	30	30	50 30	30
2,4-Dinitrotoluene	0.2	4.8	-27.0 8.8	-15.3 13.3	-1.3 18.4	-1.9	30	30	50 30	30 30	30 30	30
Dibenzofuran	-1.8	-5.9	-4.7	4.8 -4.1	10.4 -1.5	3.0	30	30	30	50 30	30 30	30
2,3,4,6-Tetrachlorophenol	-5.8	-0.8	2.3	6.3	-5.1 10.7	-7.6	30	30	30	30	50 30	30
Diethyl phthalate	-1.9	-7.2	-6.7	7.6 -6.1	12.7 -3.3	4.9	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
Hexadecane	2.0	-4.9	-3.4	-2.2	-1.0 14.0	2.0	30	30	30	30	50 30	30
4-Chlorophenyl phenyl ether	-3.2	-3.7	-2.3	0.2	4.9 4.4	-0.3	30	30	30	30	50 30	30
Fluorene	-2.7	-7.2	3.4 -5.2	3.1 -4.0	11.8 -2.2	3.0	30	30	50 30	30 30	30 30	30
4-Nitroaniline	7.1	-5.6	-6.9	-5.5	+++++ -6.5	17.3	30	30	30	30	30	50
4,6-Dinitro-2-methylphenol	-6.5	-2.6	2.9	5.5	+++++ 11.4	-10.8	30	30	30	30	30	50
N-Nitrosodiphenylamine	-0.9	-4.8	-5.5 -1.6	1.2 -1.7	8.7 2.4	2.2	30	30	50 30	30 30	30 30	30
Diphenylamine	-1.5	-5.3	-2.2	-2.3	8.0 1.7	1.6	30	30	30	30	50 30	30
1,2-Diphenylhydrazine	-2.1	-2.6	-2.5	-1.9	9.2 -0.8	0.7	30	30	30	30	50 30	30
4-Bromophenyl phenyl ether	-5.3	-4.4	-1.0	1.0	4.8 6.7	-1.9	30	30	30	30	50 30	30
Hexachlorobenzene	-5.4	4.4 -3.9	-2.2 0.8	-2.7 2.4	1.9 9.8	-4.9	30	50 30	30 30	30 30	30 30	30
Atrazine	-2.2	-5.9	-4.2	-5.2	13.7 -2.0	5.9	30	30	30	30	50 30	30
n-Octadecane	10.7	2.8	1.3	+++++ -2.9	+++++ -1.6	-10.2	30	30	30	30	30	50
Pentachlorophenol	-1.8	-1.2	3.5	5.5	-11.2 10.3	-5.1	30	30	30	30	50 30	30
Phenanthrene	-1.7	-6.2	0.1 -4.9	4.8 -4.5	10.0 -1.1	3.6	30	30	50 30	30 30	30 30	30
Anthracene	-0.2	-5.4	-1.4 -4.1	4.8 -5.3	10.2 -1.5	2.9	30	30	50 30	30 30	30 30	30
Carbazole	0.3	-5.7	-5.5	2.7 -4.7	7.4 -2.1	7.5	30	30	30	50 30	30 30	30
Di-n-butyl phthalate	-1.6	-4.3	-2.9	0.9 -2.5	9.8 -0.7	1.2	30	30	30	50 30	30 30	30
Fluoranthene	-0.3	-3.8	-13.4 -0.6	0.9 0.1	9.2 4.5	3.3	30	30	50 30	30 30	30 30	30
Benzidine	-26.7	-3.5	2.9	9.6	+++++ 17.6	+++++	50	30	30	30	30	
Pyrene	0.3	-2.0	-16.2 -0.7	-4.3 2.3	9.7 6.1	4.8	30	30	50 30	30 30	30 30	30
Butyl benzyl phthalate	-2.8	-1.8	1.6	-10.1 4.5	-0.1 10.6	-2.0	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 402944

SDG No.:

Instrument ID: CMS12 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/27/2017 13:02 Calibration End Date: 09/27/2017 17:56 Calibration ID: 25507

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
3,3'-Dichlorobenzidine	-7.7	-1.0	3.0	9.8	-13.9 18.7	-9.0	30	30	30	30	50 30	30
Bis(2-ethylhexyl) phthalate	-2.6	-0.9	1.2	-10.7 4.0	2.0 8.7	-1.7	30	30	30	50 30	30 30	30
Benzo[a]anthracene	10.9 -3.8	-1.5 -4.0	-9.9 -1.4	-4.0 2.5	5.0 7.7	-1.5	50 30	30 30	30 30	30 30	30 30	30
Chrysene	7.3 -4.1	3.6 -3.6	-10.1 -1.8	-3.1 1.6	5.1 9.0	-3.9	50 30	30 30	30 30	30 30	30 30	30
Di-n-octyl phthalate	-5.3	-0.4	4.6	7.5	-10.7 13.6	-9.3	30	30	30	30	50 30	30
Benzo[b]fluoranthene	-16.6 1.8	-17.5 4.1	-19.5 11.3	-10.3 18.0	2.4 26.0	0.2	50 30	30 30	30 30	30 30	30 30	30
Benzo[k]fluoranthene	-31.3 5.5	-11.8 9.0	-16.2 11.6	-1.6 8.4	9.5 11.7	5.2	50 30	30 30	30 30	30 30	30 30	30
Benzo[a]pyrene	-24.5 5.8	-22.4 9.3	-22.5 12.8	-9.2 17.7	5.7 23.9	3.4	50 30	30 30	30 30	30 30	30 30	30
Indeno[1,2,3-cd]pyrene	-19.1 5.8	-17.7 7.2	-18.9 8.8	-7.1 11.5	8.0 16.2	5.3	50 30	30 30	30 30	30 30	30 30	30
Dibenz(a,h)anthracene	-26.3 9.2	-23.4 12.3	-23.2 10.7	-8.3 19.0	3.7 20.3	6.1	50 30	30 30	30 30	30 30	30 30	30
Benzo[g,h,i]perylene	5.1	2.9	-19.3 4.0	-11.2 4.9	2.6 7.8	3.3	30	30	50 30	30 30	30 30	30
2-Fluorophenol (Surr)	-7.9	1.1	-3.8 -3.0	4.6 1.5	12.2 1.4	-5.5	30	30	50 30	30 30	30 30	30
Phenol-d5 (Surr)	-1.6	-1.6	23.7 1.2	-6.0 -1.8	-8.5 3.9	-9.2	30	30	50 30	30 30	30 30	30
Nitrobenzene-d5 (Surr)	-1.5	4.0	-18.4 6.3	-12.7 6.1	1.2 13.4	1.5	30	30	50 30	30 30	30 30	30
2-Fluorobiphenyl (Surr)	-4.2	-3.0	0.6 -2.4	2.7 -5.1	9.3 -0.8	3.0	30	30	50 30	30 30	30 30	30
2,4,6-Tribromophenol (Surr)	-6.3	6.6	-25.3 12.9	-15.4 13.8	-5.3 23.5	-4.5	30	30	50 30	30 30	30 30	30
Terphenyl-d14 (Surr)	-5.7	1.3	-13.0 3.8	-7.4 3.9	5.8 11.0	0.3	30	30	50 30	30 30	30 30	30

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD2.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Sep-2017 13:02:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-002
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:28 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 15:54:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	96	244279	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	1027932	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	613916	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1151067	3.20	3.20	
* 5 Chrysene-d12	240	13.536	13.550	-0.014	99	1207929	3.20	3.20	
* 6 Perylene-d12	264	17.264	17.269	-0.005	97	1238062	3.20	3.20	
$ 7 2-Fluorophenol	112	5.333	5.337	-0.004	93	20185	0.4000	0.4182	
$ 8 Phenol-d5	99	6.074	6.089	-0.015	93	22712	0.4000	0.3761	
$ 9 Nitrobenzene-d5	82	6.859	6.869	-0.010	94	35178	0.4000	0.3491	
$ 10 2-Fluorobiphenyl	172	8.362	8.367	-0.005	99	106063	0.4000	0.4108	
$ 11 2,4,6-Tribromophenol	330	9.613	9.617	-0.004	70	20189	0.4000	0.3386	
$ 12 Terphenyl-d14	244	11.819	11.824	-0.005	100	109366	0.4000	0.3706	
27 Bis(2-chloroethyl)ether	93	6.170	6.179	-0.009	93	31887	0.4000	0.3491	
30 n-Decane	43	6.265	6.269	-0.004	88	90240	0.4000	-0.2592	
31 1,3-Dichlorobenzene	146	6.374	6.379	-0.005	98	45421	0.4000	0.4213	
32 1,4-Dichlorobenzene	146	6.431	6.436	-0.005	95	45116	0.4000	0.4134	
34 1,2-Dichlorobenzene	146	6.564	6.569	-0.005	98	43412	0.4000	0.4036	
36 2-Methylphenol	107	6.583	6.593	-0.010	93	21166	0.4000	0.3025	
35 2,2'-oxybis[1-chloropropan	45	6.612	6.621	-0.009	90	138513	0.4000	0.4629	
42 3 & 4 Methylphenol	108	6.707	6.716	-0.009	94	23637	0.4000	0.2770	
41 N-Nitrosodi-n-propylamine	70	6.716	6.735	-0.019	83	27220	0.4000	0.4427	
40 Acetophenone	105	6.731	6.740	-0.009	93	50584	0.4000	0.4027	
45 Nitrobenzene	77	6.878	6.888	-0.010	96	32223	0.4000	0.3508	
47 Isophorone	82	7.068	7.083	-0.015	97	76702	0.4000	0.4203	
51 Bis(2-chloroethoxy)methane	93	7.225	7.235	-0.010	94	46662	0.4000	0.4023	
55 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	94	37589	0.4000	0.3738	
56 Naphthalene	128	7.496	7.501	-0.005	98	125575	0.4000	0.4197	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	25850	0.4000	0.3991	
67 2-Methylnaphthalene	142	8.067	8.072	-0.005	96	91374	0.4000	0.4282	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
68 1-Methylnaphthalene	142	8.153	8.157	-0.004	96	87065	0.4000	0.4350	
76 2-Chloronaphthalene	162	8.481	8.485	-0.004	95	91060	0.4000	0.3951	
82 Dimethyl phthalate	163	8.676	8.690	-0.014	98	104113	0.4000	0.3933	
84 2,6-Dinitrotoluene	165	8.733	8.742	-0.009	91	20629	0.4000	0.3732	
85 Acenaphthylene	152	8.833	8.842	-0.009	98	151784	0.4000	0.4119	
87 Acenaphthene	154	8.980	8.985	-0.005	93	95659	0.4000	0.4036	
91 2,4-Dinitrotoluene	165	9.075	9.089	-0.014	92	25083	0.4000	0.3386	
92 Dibenzofuran	168	9.123	9.127	-0.004	98	139441	0.4000	0.4191	
97 Diethyl phthalate	149	9.261	9.270	-0.009	97	109155	0.4000	0.4304	
102 Fluorene	166	9.408	9.418	-0.010	94	108513	0.4000	0.4123	
106 N-Nitrosodiphenylamine	169	9.479	9.489	-0.010	66	72375	0.4000	0.4049	
117 Hexachlorobenzene	284	9.888	9.893	-0.005	97	39288	0.4000	0.3891	
123 n-Octadecane	43	10.036	10.036	0.000	88	99320	0.4000	-1.64	
126 Phenanthrene	178	10.226	10.236	-0.010	97	154709	0.4000	0.4190	
127 Anthracene	178	10.269	10.278	-0.009	99	159456	0.4000	0.4192	
128 Carbazole	167	10.388	10.392	-0.004	97	133529	0.4000	0.4109	
130 Di-n-butyl phthalate	149	10.649	10.654	-0.005	99	173692	0.4000	0.4037	
135 Fluoranthene	202	11.391	11.401	-0.010	98	168601	0.4000	0.4037	
137 Pyrene	202	11.672	11.681	-0.009	96	166127	0.4000	0.3827	
145 Butyl benzyl phthalate	149	12.475	12.480	-0.005	95	73640	0.4000	0.3594	
150 Bis(2-ethylhexyl) phthalat	149	13.503	13.512	-0.009	94	104342	0.4000	0.3571	
149 Benzo[a]anthracene	228	13.512	13.531	-0.019	99	164788	0.4000	0.3841	
151 Chrysene	228	13.584	13.607	-0.023	97	158366	0.4000	0.3877	
156 Benzo[b]fluoranthene	252	16.033	16.080	-0.047	98	139147	0.4000	0.3589	
157 Benzo[k]fluoranthene	252	16.114	16.161	-0.048	99	152911	0.4000	0.3938	
158 Benzo[a]pyrene	252	17.050	17.098	-0.048	97	133265	0.4000	0.3634	
162 Indeno[1,2,3-cd]pyrene	276	20.156	20.208	-0.052	98	169885	0.4000	0.3715	
163 Dibenz(a,h)anthracene	278	20.227	20.275	-0.048	94	132761	0.4000	0.3666	
164 Benzo[g,h,i]perylene	276	20.812	20.874	-0.062	79	134415	0.4000	0.3552	
S 173 Methyl Phenols,Total	1				0			0.5795	

Reagents:

SMlst1_5uLL4_00034 Amount Added: 1.00 Units: mL

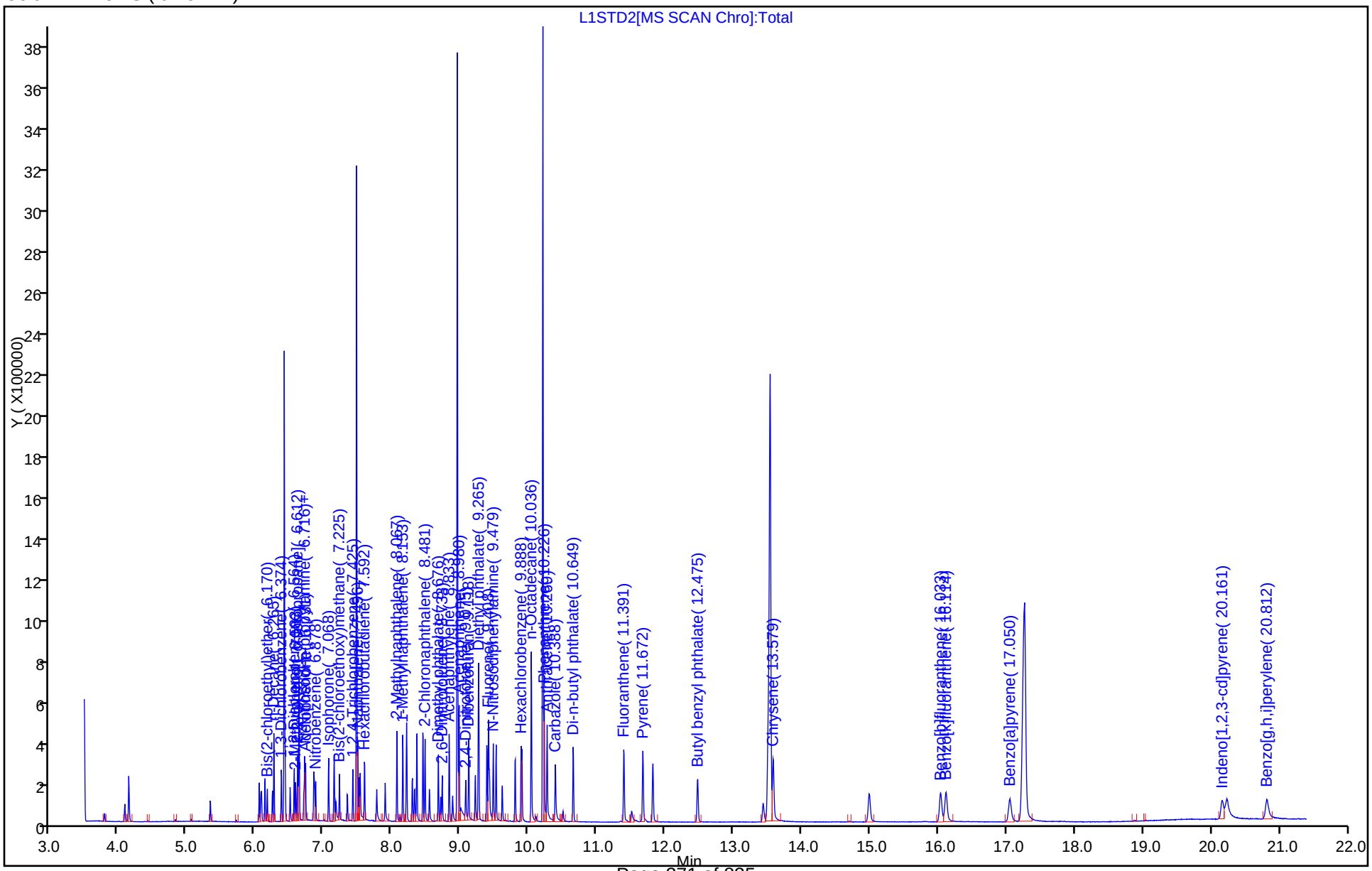
Report Date: 28-Sep-2017 10:34:29 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD2.D

Injection Date:	27-Sep-2017 13:02:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD02.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Sep-2017 13:31:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-003
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:32 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: akcakald Date: 27-Sep-2017 15:14:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	96	212022	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	737732	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	565748	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1011355	3.20	3.20	
* 5 Chrysene-d12	240	13.531	13.550	-0.019	99	1145217	3.20	3.20	
* 6 Perylene-d12	264	17.255	17.269	-0.014	97	1173086	3.20	3.20	
149 Benzo[a]anthracene	228	13.507	13.531	-0.024	96	18049	0.0400	0.0444	
151 Chrysene	228	13.579	13.607	-0.028	97	16623	0.0400	0.0429	
156 Benzo[b]fluoranthene	252	16.033	16.080	-0.047	65	12256	0.0400	0.0334	
157 Benzo[k]fluoranthene	252	16.109	16.161	-0.052	98	10106	0.0400	0.0275	
158 Benzo[a]pyrene	252	17.036	17.098	-0.062	1	10492	0.0400	0.0302	
162 Indeno[1,2,3-cd]pyrene	276	20.170	20.208	-0.038	26	14014	0.0400	0.0323	
163 Dibenz(a,h)anthracene	278	20.275	20.275	0.000	1	10118	0.0400	0.0295	

Reagents:

SMlst1_5uLL1_00034 Amount Added: 1.00 Units: mL

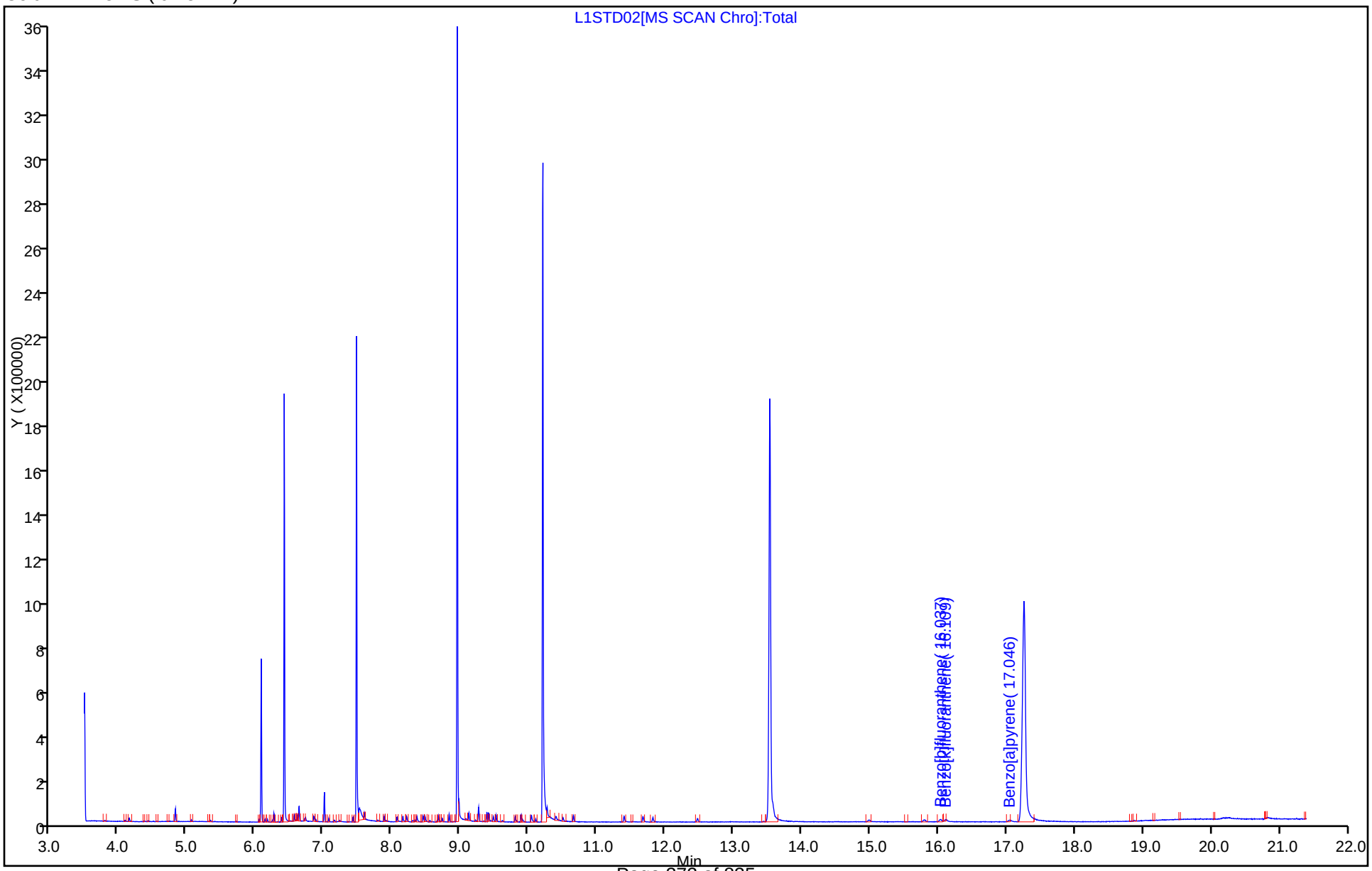
Report Date: 28-Sep-2017 10:34:33 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD02.D

Injection Date:	27-Sep-2017 13:31:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD05.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Sep-2017 14:01:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-004
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:35 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 16:01:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	96	208813	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	779376	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	589893	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1075336	3.20	3.20	
* 5 Chrysene-d12	240	13.531	13.550	-0.019	99	1182824	3.20	3.20	
* 6 Perylene-d12	264	17.255	17.269	-0.014	98	1203324	3.20	3.20	
41 N-Nitrosodi-n-propylamine	70	6.716	6.735	-0.019	82	4235	0.1000	0.0806	
67 2-Methylnaphthalene	142	8.067	8.072	-0.005	96	15897	0.1000	0.0983	
84 2,6-Dinitrotoluene	165	8.733	8.742	-0.009	91	3921	0.1000	0.0738	
117 Hexachlorobenzene	284	9.888	9.893	-0.005	97	9848	0.1000	0.1044	
149 Benzo[a]anthracene	228	13.507	13.531	-0.024	98	41379	0.1000	0.0985	
151 Chrysene	228	13.579	13.607	-0.028	98	41444	0.1000	0.1036	
156 Benzo[b]fluoranthene	252	16.033	16.080	-0.047	98	31085	0.1000	0.0825	
157 Benzo[k]fluoranthene	252	16.113	16.161	-0.048	99	33281	0.1000	0.0882	
158 Benzo[a]pyrene	252	17.041	17.098	-0.057	96	27668	0.1000	0.0776	
162 Indeno[1,2,3-cd]pyrene	276	20.170	20.208	-0.038	96	36582	0.1000	0.0823	
163 Dibenz(a,h)anthracene	278	20.246	20.275	-0.029	40	26967	0.1000	0.0766	

Reagents:

SMlst1_5uLL2_00033 Amount Added: 1.00 Units: mL

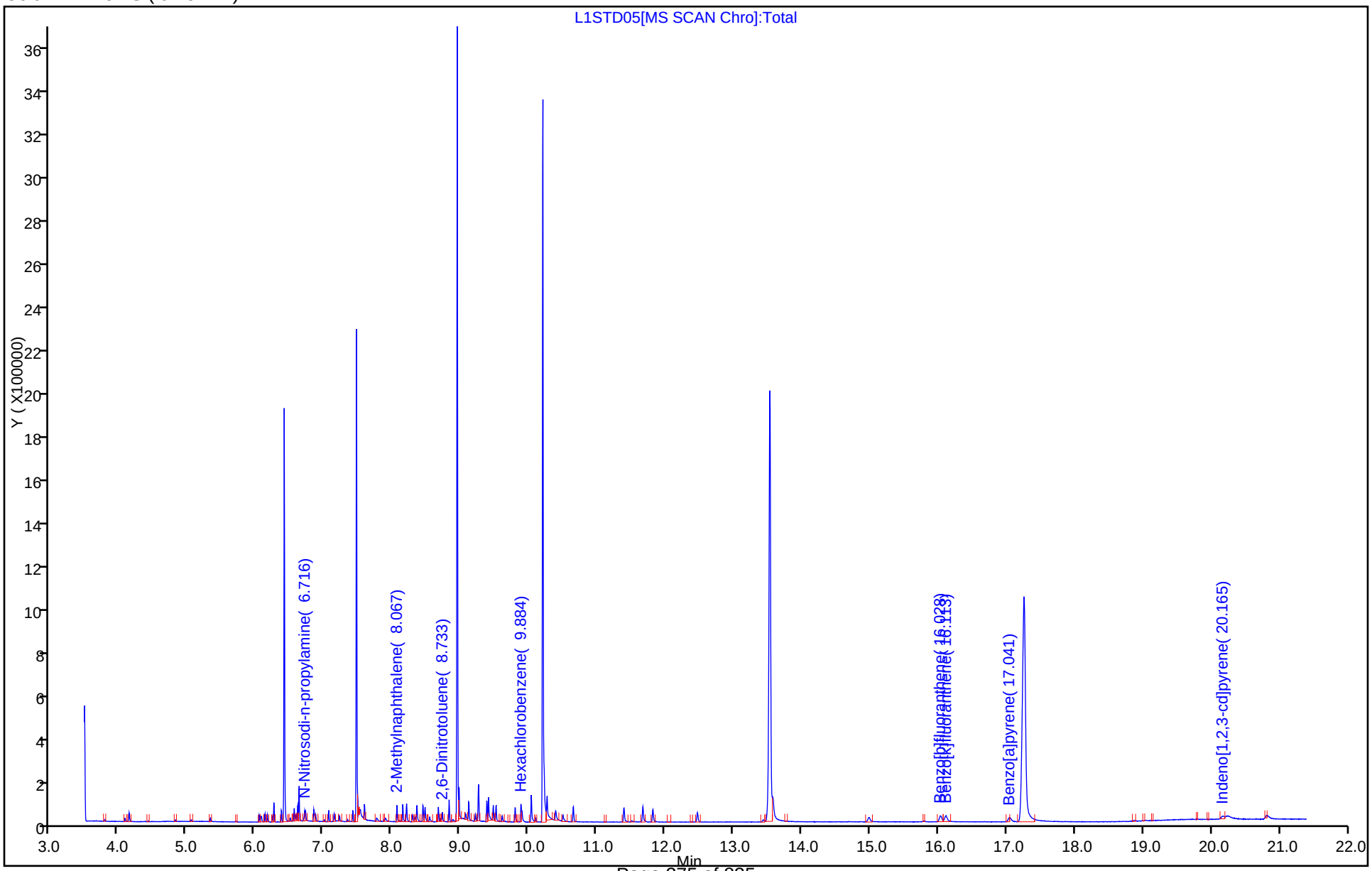
Report Date: 28-Sep-2017 10:34:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD05.D

Injection Date:	27-Sep-2017 14:01:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD1.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Sep-2017 14:30:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-005
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:39 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 16:00:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	95	211202	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	856006	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	596889	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1142962	3.20	3.20	
* 5 Chrysene-d12	240	13.531	13.550	-0.019	99	1232150	3.20	3.20	
* 6 Perylene-d12	264	17.260	17.269	-0.009	97	1256140	3.20	3.20	
$ 7 2-Fluorophenol	112	5.337	5.337	0.000	93	7001	0.2000	0.1924	
$ 8 Phenol-d5	99	6.074	6.089	-0.015	93	8144	0.2000	0.2473	
$ 9 Nitrobenzene-d5	82	6.864	6.869	-0.005	95	13697	0.2000	0.1632	
$ 10 2-Fluorobiphenyl	172	8.362	8.367	-0.005	99	50488	0.2000	0.2011	
$ 11 2,4,6-Tribromophenol	330	9.613	9.617	-0.004	69	8666	0.2000	0.1495	
$ 12 Terphenyl-d14	244	11.814	11.824	-0.010	100	52358	0.2000	0.1739	
30 n-Decane	43	6.265	6.269	-0.004	88	39687	0.2000	-0.5874	
41 N-Nitrosodi-n-propylamine	70	6.716	6.735	-0.019	83	10370	0.2000	0.1951	
40 Acetophenone	105	6.731	6.740	-0.009	91	18952	0.2000	0.1745	
45 Nitrobenzene	77	6.878	6.888	-0.010	95	12369	0.2000	0.1617	
56 Naphthalene	128	7.492	7.501	-0.009	99	50756	0.2000	0.2037	
67 2-Methylnaphthalene	142	8.067	8.072	-0.005	96	40824	0.2000	0.2297	
68 1-Methylnaphthalene	142	8.153	8.157	-0.004	96	39335	0.2000	0.2360	
84 2,6-Dinitrotoluene	165	8.733	8.742	-0.009	89	8507	0.2000	0.1583	
85 Acenaphthylene	152	8.833	8.842	-0.009	98	70852	0.2000	0.1978	
87 Acenaphthene	154	8.980	8.985	-0.005	92	43343	0.2000	0.1881	
91 2,4-Dinitrotoluene	165	9.075	9.089	-0.014	90	10521	0.2000	0.1461	
102 Fluorene	166	9.408	9.418	-0.010	94	52903	0.2000	0.2067	
106 N-Nitrosodiphenylamine	169	9.479	9.489	-0.010	64	33551	0.2000	0.1890	
117 Hexachlorobenzene	284	9.888	9.893	-0.005	97	19602	0.2000	0.1955	
126 Phenanthrene	178	10.226	10.236	-0.010	96	73368	0.2000	0.2001	
127 Anthracene	178	10.269	10.278	-0.009	99	74446	0.2000	0.1971	
135 Fluoranthene	202	11.391	11.401	-0.010	98	71862	0.2000	0.1733	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
137 Pyrene	202	11.672	11.681	-0.009	96	74222	0.2000	0.1676	
149 Benzo[a]anthracene	228	13.507	13.531	-0.024	99	78842	0.2000	0.1802	
151 Chrysene	228	13.579	13.607	-0.028	97	74909	0.2000	0.1798	
156 Benzo[b]fluoranthene	252	16.033	16.080	-0.047	98	63289	0.2000	0.1609	
157 Benzo[k]fluoranthene	252	16.113	16.161	-0.048	99	65997	0.2000	0.1675	
158 Benzo[a]pyrene	252	17.050	17.098	-0.048	96	57681	0.2000	0.1550	
162 Indeno[1,2,3-cd]pyrene	276	20.160	20.208	-0.048	98	75242	0.2000	0.1622	
163 Dibenz(a,h)anthracene	278	20.232	20.275	-0.043	90	56406	0.2000	0.1535	
164 Benzo[g,h,i]perylene	276	20.812	20.874	-0.062	79	61953	0.2000	0.1614	

Reagents:

SMlst1_5uLL3_00033 Amount Added: 1.00 Units: mL

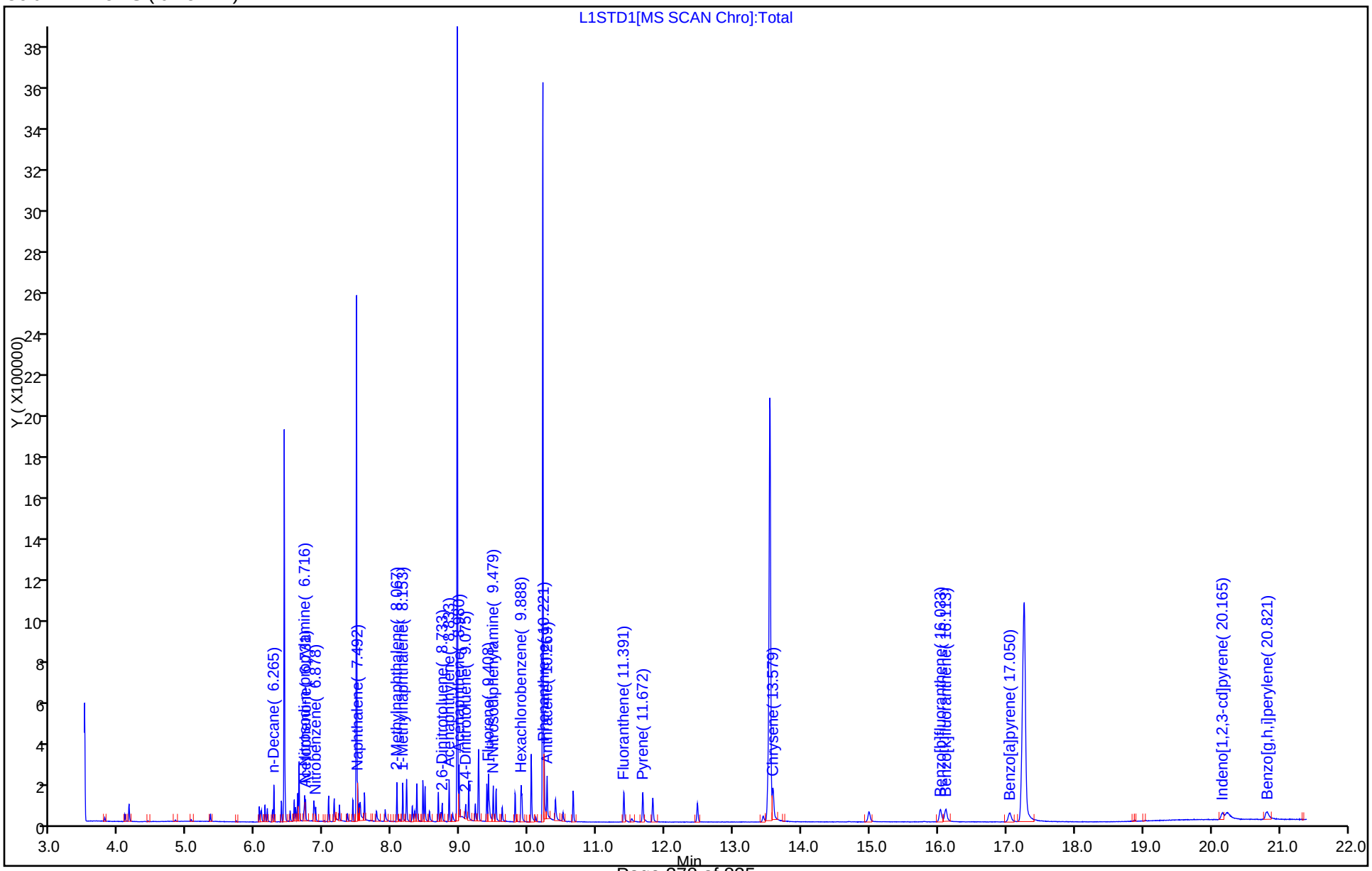
Report Date: 28-Sep-2017 10:34:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD1.D

Injection Date:	27-Sep-2017 14:30:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD5.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Sep-2017 14:59:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-006
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:43 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 15:57:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	95	219331	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	993221	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	564474	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1068166	3.20	3.20	
* 5 Chrysene-d12	240	13.536	13.550	-0.014	99	1103823	3.20	3.20	
* 6 Perylene-d12	264	17.255	17.269	-0.014	97	1121624	3.20	3.20	
$ 7 2-Fluorophenol	112	5.337	5.337	0.000	94	53111	1.00	1.12	
$ 8 Phenol-d5	99	6.074	6.089	-0.015	93	70288	1.00	0.9146	
$ 9 Nitrobenzene-d5	82	6.864	6.869	-0.005	96	98508	1.00	1.01	
$ 10 2-Fluorobiphenyl	172	8.357	8.367	-0.010	100	259535	1.00	1.09	
$ 11 2,4,6-Tribromophenol	330	9.613	9.617	-0.004	69	51909	1.00	0.9467	
$ 12 Terphenyl-d14	244	11.814	11.824	-0.010	100	285412	1.00	1.06	
13 1,4-Dioxane	88	3.787	3.792	-0.005	86	24890	1.00	1.06	
14 N-Nitrosodimethylamine	42	4.082	4.101	-0.019	69	74340	1.00	1.00	
15 Pyridine	79	4.144	4.153	-0.009	76	124988	2.00	1.68	
23 Benzaldehyde	77	6.051	6.055	-0.004	89	51389	1.00	-0.1449	
25 Phenol	94	6.084	6.103	-0.019	94	77873	1.00	0.8551	
26 Aniline	93	6.136	6.146	-0.010	95	135280	1.00	1.03	
27 Bis(2-chloroethyl)ether	93	6.170	6.179	-0.009	93	86588	1.00	1.06	
29 2-Chlorophenol	128	6.246	6.250	-0.004	98	77460	1.00	0.9292	
30 n-Decane	43	6.265	6.269	-0.004	87	209042	1.00	0.7964	
31 1,3-Dichlorobenzene	146	6.374	6.379	-0.005	99	103858	1.00	1.07	
32 1,4-Dichlorobenzene	146	6.431	6.436	-0.005	96	108355	1.00	1.11	
33 Benzyl alcohol	108	6.502	6.517	-0.015	91	58841	1.00	1.03	
34 1,2-Dichlorobenzene	146	6.564	6.569	-0.005	98	106613	1.00	1.10	
36 2-Methylphenol	107	6.583	6.593	-0.010	94	62699	1.00	1.00	
35 2,2'-oxybis[1-chloropropan	45	6.617	6.621	-0.004	91	344323	1.00	1.28	
37 Indene	116	6.636	6.640	-0.004	91	367075	2.00	2.52	
42 3 & 4 Methylphenol	108	6.707	6.716	-0.009	94	80761	1.00	1.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.716	6.735	-0.019	83	71116	1.00	1.29	
40 Acetophenone	105	6.731	6.740	-0.009	93	137357	1.00	1.22	
44 Hexachloroethane	117	6.850	6.854	-0.004	96	45726	1.00	1.10	
45 Nitrobenzene	77	6.878	6.888	-0.010	97	89154	1.00	1.00	
47 Isophorone	82	7.068	7.083	-0.015	97	199796	1.00	1.13	
48 2-Nitrophenol	139	7.144	7.149	-0.005	90	52900	1.00	0.9780	
49 2,4-Dimethylphenol	122	7.149	7.159	-0.010	90	91610	1.00	1.07	
51 Bis(2-chloroethoxy)methane	93	7.225	7.235	-0.010	94	128001	1.00	1.14	
52 Benzoic acid	122	7.192	7.287	-0.095	87	67012	2.00	1.03	
54 2,4-Dichlorophenol	162	7.339	7.349	-0.010	95	78385	1.00	0.9411	
55 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	95	96464	1.00	0.99	
56 Naphthalene	128	7.496	7.501	-0.005	99	327802	1.00	1.13	
57 4-Chloroaniline	127	7.515	7.520	-0.005	95	146914	1.00	1.16	
58 2,6-Dichlorophenol	162	7.530	7.534	-0.004	97	90755	1.00	1.07	
60 Hexachlorobutadiene	225	7.591	7.596	-0.005	96	64364	1.00	1.03	
64 Caprolactam	113	7.782	7.839	-0.057	82	30095	1.00	0.9857	
65 4-Chloro-3-methylphenol	107	7.896	7.910	-0.014	90	75159	1.00	0.9810	
67 2-Methylnaphthalene	142	8.067	8.072	-0.005	96	240644	1.00	1.17	
68 1-Methylnaphthalene	142	8.153	8.157	-0.004	96	224289	1.00	1.16	
69 Hexachlorocyclopentadiene	237	8.205	8.210	-0.005	97	79900	1.00	0.9646	
70 1,2,4,5-Tetrachlorobenzene	216	8.214	8.219	-0.005	97	118125	1.00	1.05	
72 2,4,6-Trichlorophenol	196	8.291	8.300	-0.009	94	69464	1.00	0.9497	
73 2,4,5-Trichlorophenol	196	8.324	8.333	-0.009	96	70503	1.00	0.9344	
75 1,1'-Biphenyl	154	8.447	8.457	-0.010	97	285196	1.00	1.11	
76 2-Chloronaphthalene	162	8.481	8.485	-0.004	96	228610	1.00	1.08	
78 2-Nitroaniline	65	8.543	8.552	-0.009	85	61574	1.00	0.9637	
82 Dimethyl phthalate	163	8.676	8.690	-0.014	97	254518	1.00	1.05	
83 1,3-Dinitrobenzene	168	8.709	8.723	-0.014	80	32814	1.00	0.8772	
84 2,6-Dinitrotoluene	165	8.733	8.742	-0.009	91	53697	1.00	1.06	
85 Acenaphthylene	152	8.833	8.842	-0.009	98	372970	1.00	1.10	
86 3-Nitroaniline	138	8.885	8.904	-0.019	96	49737	1.00	1.02	
87 Acenaphthene	154	8.980	8.985	-0.005	92	241097	1.00	1.11	
88 2,4-Dinitrophenol	184	8.971	8.985	-0.014	89	48529	2.00	1.35	
89 4-Nitrophenol	109	8.994	9.018	-0.024	94	46661	2.00	1.62	
91 2,4-Dinitrotoluene	165	9.075	9.089	-0.014	92	67196	1.00	0.9866	
92 Dibenzofuran	168	9.118	9.127	-0.009	98	337616	1.00	1.10	
95 2,3,4,6-Tetrachlorophenol	232	9.218	9.223	-0.005	72	65248	1.00	0.9494	
98 Hexadecane	57	9.265	9.270	-0.005	80	211218	1.00	0.99	
97 Diethyl phthalate	149	9.261	9.270	-0.009	97	262687	1.00	1.13	
100 4-Chlorophenyl phenyl ethe	204	9.384	9.394	-0.010	94	126437	1.00	1.05	
102 Fluorene	166	9.408	9.418	-0.010	95	270600	1.00	1.12	
103 4-Nitroaniline	138	9.399	9.418	-0.019	80	56545	1.00	1.25	
104 4,6-Dinitro-2-methylphenol	198	9.422	9.441	-0.019	92	75949	2.00	1.65	
105 Diphenylamine	169	9.479	9.489	-0.010	93	180295	0.8500	0.9184	
106 N-Nitrosodiphenylamine	169	9.479	9.489	-0.010	65	180295	1.00	1.09	
107 1,2-Diphenylhydrazine	77	9.522	9.527	-0.005	94	243744	1.00	1.09	
114 4-Bromophenyl phenyl ether	248	9.803	9.808	-0.005	68	81835	1.00	1.05	
117 Hexachlorobenzene	284	9.888	9.893	-0.005	97	95463	1.00	1.02	
118 Atrazine	200	9.898	9.912	-0.014	76	66897	1.00	1.14	
123 n-Octadecane	43	10.036	10.036	0.000	89	233212	1.00	-0.1125	
120 Pentachlorophenol	266	10.036	10.041	-0.005	66	102879	2.00	1.78	
126 Phenanthrene	178	10.226	10.236	-0.010	97	376869	1.00	1.10	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.269	10.278	-0.009	99	388934	1.00	1.10	
128 Carbazole	167	10.388	10.392	-0.004	96	323897	1.00	1.07	
130 Di-n-butyl phthalate	149	10.649	10.654	-0.005	99	438519	1.00	1.10	
135 Fluoranthene	202	11.391	11.401	-0.010	98	423129	1.00	1.09	
136 Benzidine	184	11.505	11.510	-0.005	97	77797	1.00	0.5529	
137 Pyrene	202	11.672	11.681	-0.009	96	435190	1.00	1.10	
145 Butyl benzyl phthalate	149	12.471	12.480	-0.009	95	187022	1.00	1.00	
147 3,3'-Dichlorobenzidine	252	13.431	13.450	-0.019	100	118585	1.00	0.8613	
150 Bis(2-ethylhexyl) phthalat	149	13.503	13.512	-0.009	94	272328	1.00	1.02	
149 Benzo[a]anthracene	228	13.512	13.531	-0.019	99	411639	1.00	1.05	
151 Chrysene	228	13.579	13.607	-0.028	97	392273	1.00	1.05	
154 Di-n-octyl phthalate	149	14.986	15.001	-0.015	97	404281	1.00	0.8930	
156 Benzo[b]fluoranthene	252	16.037	16.080	-0.043	98	359608	1.00	1.02	
157 Benzo[k]fluoranthene	252	16.113	16.161	-0.048	99	385381	1.00	1.10	
158 Benzo[a]pyrene	252	17.046	17.098	-0.052	96	351207	1.00	1.06	
162 Indeno[1,2,3-cd]pyrene	276	20.160	20.208	-0.048	98	447289	1.00	1.08	
163 Dibenz(a,h)anthracene	278	20.222	20.275	-0.053	93	340138	1.00	1.04	
164 Benzo[g,h,i]perylene	276	20.812	20.874	-0.062	78	351674	1.00	1.03	
S 173 Methyl Phenols,Total	1				0			2.05	

Reagents:

SMlst1_5uLL5_00034 Amount Added: 1.00 Units: mL

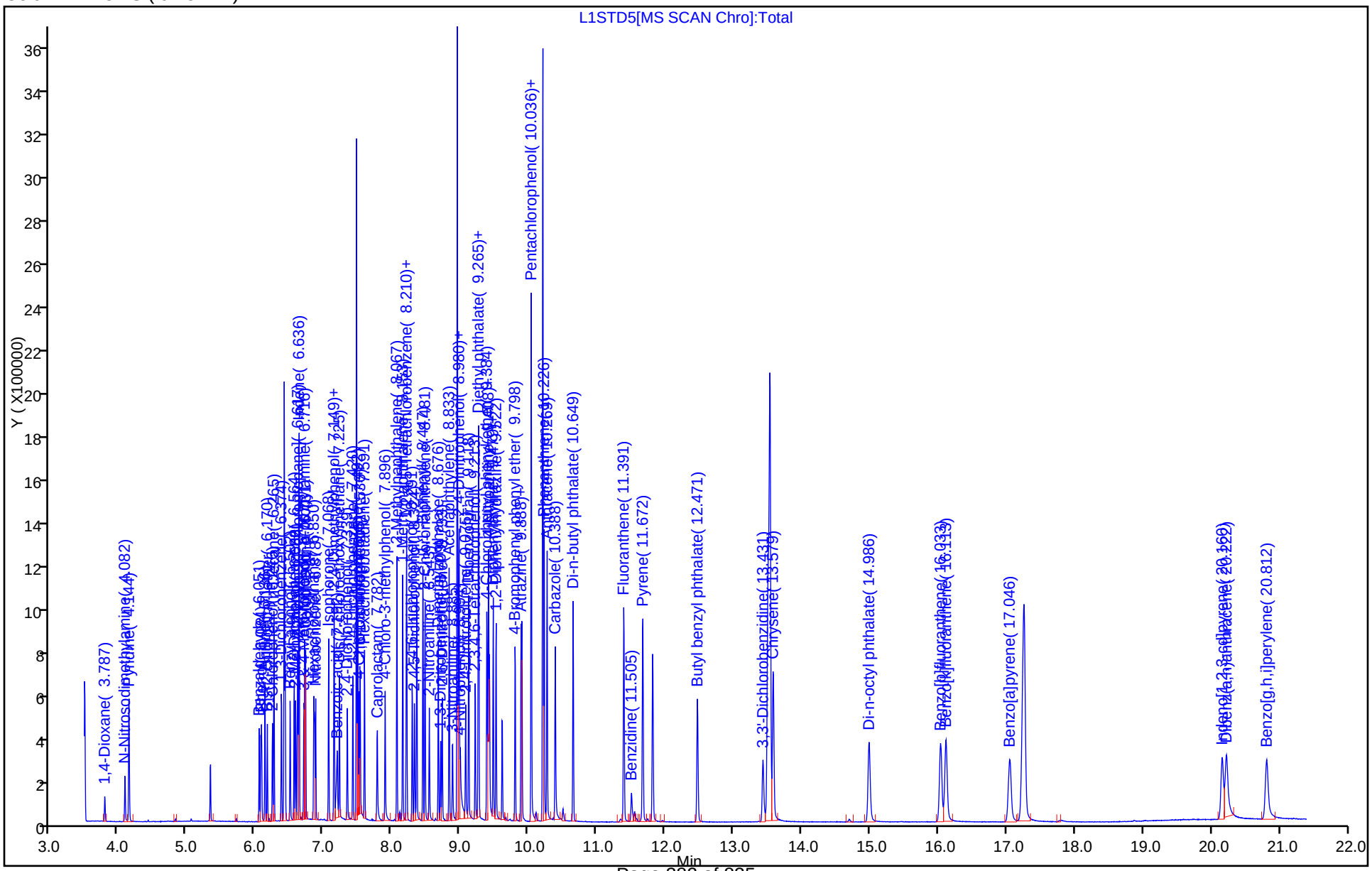
Report Date: 28-Sep-2017 10:34:44 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD5.D

Injection Date:	27-Sep-2017 14:59:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD10.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 27-Sep-2017 15:29:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-007
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:47 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 15:58:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	96	252000	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	1166647	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	619844	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1179803	3.20	3.20	
* 5 Chrysene-d12	240	13.536	13.550	-0.014	99	1205526	3.20	3.20	
* 6 Perylene-d12	264	17.260	17.269	-0.009	97	1243097	3.20	3.20	
$ 7 2-Fluorophenol	112	5.337	5.337	0.000	94	107233	2.00	1.89	
$ 8 Phenol-d5	99	6.075	6.089	-0.014	94	176826	2.00	1.82	
$ 9 Nitrobenzene-d5	82	6.864	6.869	-0.005	95	232247	2.00	2.03	
$ 10 2-Fluorobiphenyl	172	8.362	8.367	-0.005	100	536796	2.00	2.06	
$ 11 2,4,6-Tribromophenol	330	9.613	9.617	-0.004	68	114949	2.00	1.91	
$ 12 Terphenyl-d14	244	11.815	11.824	-0.009	100	591039	2.00	2.01	
13 1,4-Dioxane	88	3.792	3.792	0.000	87	42000	2.00	1.56	
14 N-Nitrosodimethylamine	42	4.087	4.101	-0.014	68	166983	2.00	1.96	
15 Pyridine	79	4.144	4.153	-0.009	75	263232	4.00	3.07	
23 Benzaldehyde	77	6.051	6.055	-0.004	88	91853	2.00	1.80	
25 Phenol	94	6.089	6.103	-0.014	93	191132	2.00	1.83	
26 Aniline	93	6.136	6.146	-0.010	95	316807	2.00	2.11	
27 Bis(2-chloroethyl)ether	93	6.170	6.179	-0.009	92	198448	2.00	2.11	
29 2-Chlorophenol	128	6.246	6.250	-0.004	98	175892	2.00	1.84	
30 n-Decane	43	6.265	6.269	-0.004	88	434649	2.00	2.19	
31 1,3-Dichlorobenzene	146	6.379	6.379	0.000	99	225874	2.00	2.03	
32 1,4-Dichlorobenzene	146	6.431	6.436	-0.005	95	230613	2.00	2.05	
33 Benzyl alcohol	108	6.507	6.517	-0.010	91	144202	2.00	2.19	
34 1,2-Dichlorobenzene	146	6.564	6.569	-0.005	98	227926	2.00	2.05	
36 2-Methylphenol	107	6.588	6.593	-0.005	94	156934	2.00	2.17	
35 2,2'-oxybis[1-chloropropan	45	6.617	6.621	-0.004	90	740884	2.00	2.40	
37 Indene	116	6.636	6.640	-0.004	91	794836	4.00	4.76	
42 3 & 4 Methylphenol	108	6.707	6.716	-0.009	93	201751	2.00	2.29	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.721	6.735	-0.014	87	150941	2.00	2.38	
40 Acetophenone	105	6.731	6.740	-0.009	93	311033	2.00	2.40	
44 Hexachloroethane	117	6.850	6.854	-0.004	97	97632	2.00	2.05	
45 Nitrobenzene	77	6.878	6.888	-0.010	96	214907	2.00	2.06	
47 Isophorone	82	7.068	7.083	-0.015	97	410785	2.00	1.98	
48 2-Nitrophenol	139	7.145	7.149	-0.004	90	125271	2.00	1.97	
49 2,4-Dimethylphenol	122	7.149	7.159	-0.010	90	203947	2.00	2.03	
51 Bis(2-chloroethoxy)methane	93	7.225	7.235	-0.010	94	274752	2.00	2.09	
52 Benzoic acid	122	7.221	7.287	-0.066	87	234110	4.00	3.08	
54 2,4-Dichlorophenol	162	7.344	7.349	-0.005	96	195712	2.00	2.00	
55 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	95	229214	2.00	2.01	
56 Naphthalene	128	7.496	7.501	-0.005	98	728474	2.00	2.15	
57 4-Chloroaniline	127	7.515	7.520	-0.005	96	305185	2.00	2.05	
58 2,6-Dichlorophenol	162	7.530	7.534	-0.004	97	201962	2.00	2.03	
60 Hexachlorobutadiene	225	7.592	7.596	-0.004	96	144840	2.00	1.97	
64 Caprolactam	113	7.791	7.839	-0.048	82	64356	2.00	1.79	
65 4-Chloro-3-methylphenol	107	7.896	7.910	-0.014	90	174645	2.00	1.94	
67 2-Methylnaphthalene	142	8.067	8.072	-0.005	95	504675	2.00	2.08	
68 1-Methylnaphthalene	142	8.153	8.157	-0.004	95	461072	2.00	2.03	
69 Hexachlorocyclopentadiene	237	8.205	8.210	-0.005	98	173287	2.00	1.91	
70 1,2,4,5-Tetrachlorobenzene	216	8.215	8.219	-0.004	96	246865	2.00	2.00	
72 2,4,6-Trichlorophenol	196	8.295	8.300	-0.005	92	151912	2.00	1.89	
73 2,4,5-Trichlorophenol	196	8.329	8.333	-0.004	95	160881	2.00	1.94	
75 1,1'-Biphenyl	154	8.452	8.457	-0.005	96	581182	2.00	2.06	
76 2-Chloronaphthalene	162	8.481	8.485	-0.004	96	468440	2.00	2.01	
78 2-Nitroaniline	65	8.543	8.552	-0.009	88	131595	2.00	1.88	
82 Dimethyl phthalate	163	8.676	8.690	-0.014	97	518689	2.00	1.94	
83 1,3-Dinitrobenzene	168	8.709	8.723	-0.014	81	74072	2.00	1.80	
84 2,6-Dinitrotoluene	165	8.733	8.742	-0.009	91	114422	2.00	2.05	
85 Acenaphthylene	152	8.833	8.842	-0.009	98	774663	2.00	2.08	
86 3-Nitroaniline	138	8.885	8.904	-0.019	96	107661	2.00	2.02	
88 2,4-Dinitrophenol	184	8.971	8.985	-0.014	92	124232	4.00	3.15	
87 Acenaphthene	154	8.980	8.985	-0.005	94	510026	2.00	2.13	
89 4-Nitrophenol	109	8.999	9.018	-0.019	98	119021	4.00	3.76	
91 2,4-Dinitrotoluene	165	9.075	9.089	-0.014	93	146775	2.00	1.96	
92 Dibenzofuran	168	9.123	9.127	-0.004	97	691617	2.00	2.06	
95 2,3,4,6-Tetrachlorophenol	232	9.218	9.223	-0.005	72	139434	2.00	1.85	
97 Diethyl phthalate	149	9.261	9.270	-0.009	97	537418	2.00	2.10	
98 Hexadecane	57	9.266	9.270	-0.004	81	428840	2.00	2.04	
100 4-Chlorophenyl phenyl ethe	204	9.389	9.394	-0.005	91	263719	2.00	1.99	
103 4-Nitroaniline	138	9.399	9.418	-0.019	73	116665	2.00	2.35	
102 Fluorene	166	9.413	9.418	-0.005	95	547468	2.00	2.06	
104 4,6-Dinitro-2-methylphenol	198	9.427	9.441	-0.014	92	181159	4.00	3.57	
106 N-Nitrosodiphenylamine	169	9.480	9.489	-0.009	65	374344	2.00	2.04	
105 Diphenylamine	169	9.480	9.489	-0.009	93	374344	1.70	1.73	
107 1,2-Diphenylhydrazine	77	9.522	9.527	-0.005	94	493683	2.00	2.01	
114 4-Bromophenyl phenyl ether	248	9.803	9.808	-0.005	67	169264	2.00	1.96	
117 Hexachlorobenzene	284	9.889	9.893	-0.004	97	196729	2.00	1.90	
118 Atrazine	200	9.903	9.912	-0.009	76	137727	2.00	2.12	
123 n-Octadecane	43	10.036	10.036	0.000	91	451635	2.00	1.80	
120 Pentachlorophenol	266	10.041	10.041	0.000	74	242854	4.00	3.80	
126 Phenanthrene	178	10.226	10.236	-0.010	98	784108	2.00	2.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.269	10.278	-0.009	99	802250	2.00	2.06	
128 Carbazole	167	10.388	10.392	-0.004	96	716032	2.00	2.15	
130 Di-n-butyl phthalate	149	10.649	10.654	-0.005	99	892587	2.00	2.02	
135 Fluoranthene	202	11.391	11.401	-0.010	98	884016	2.00	2.07	
136 Benzidine	184	11.505	11.510	-0.005	97	199402	2.00	1.30	
137 Pyrene	202	11.672	11.681	-0.009	96	908090	2.00	2.10	
145 Butyl benzyl phthalate	149	12.476	12.480	-0.004	95	400676	2.00	1.96	
147 3,3'-Dichlorobenzidine	252	13.431	13.450	-0.019	99	273645	2.00	1.82	
150 Bis(2-ethylhexyl) phthalat	149	13.503	13.512	-0.009	94	573620	2.00	1.97	
149 Benzo[a]anthracene	228	13.512	13.531	-0.019	99	843459	2.00	1.97	
151 Chrysene	228	13.584	13.607	-0.023	97	783960	2.00	1.92	
154 Di-n-octyl phthalate	149	14.987	15.001	-0.015	97	907474	2.00	1.81	
156 Benzo[b]fluoranthene	252	16.047	16.080	-0.033	98	780374	2.00	2.00	
157 Benzo[k]fluoranthene	252	16.123	16.161	-0.038	99	820688	2.00	2.10	
158 Benzo[a]pyrene	252	17.055	17.098	-0.043	96	761386	2.00	2.07	
162 Indeno[1,2,3-cd]pyrene	276	20.165	20.208	-0.043	98	967240	2.00	2.11	
163 Dibenz(a,h)anthracene	278	20.227	20.275	-0.048	92	771283	2.00	2.12	
164 Benzo[g,h,i]perylene	276	20.826	20.874	-0.048	79	784843	2.00	2.07	
S 173 Methyl Phenols,Total	1				0			4.47	

Reagents:

SMlst1_5uLL6_00034 Amount Added: 1.00 Units: mL

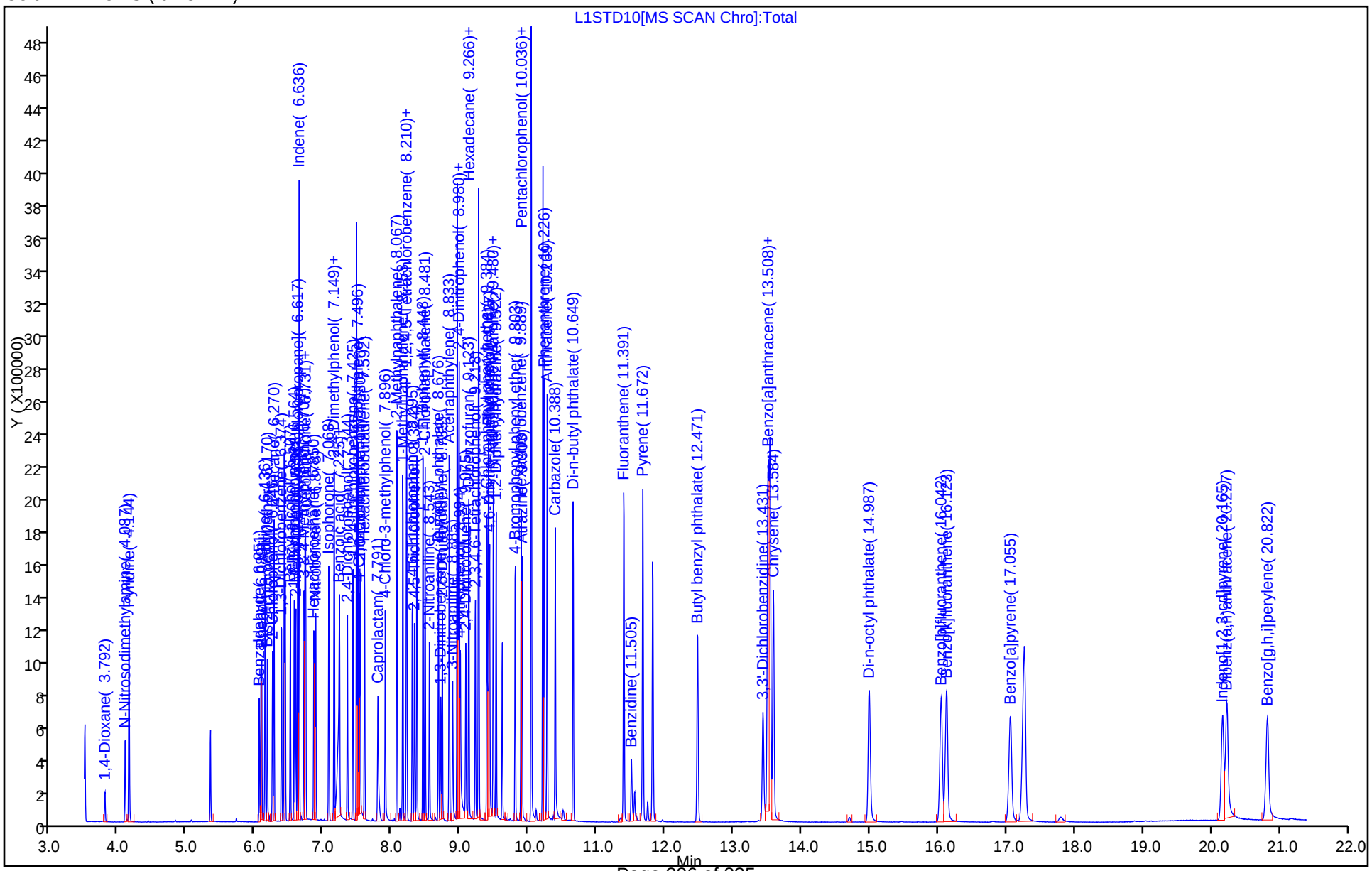
Report Date: 28-Sep-2017 10:34:48 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD10.D

Injection Date:	27-Sep-2017 15:29:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD20.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Sep-2017 15:58:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-008
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:50 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 16:45:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.417	6.422	-0.005	96	277800	3.20	3.20	
* 2 Naphthalene-d8	136	7.477	7.482	-0.005	99	1241221	3.20	3.20	
* 3 Acenaphthene-d10	164	8.952	8.956	-0.004	98	635776	3.20	3.20	
* 4 Phenanthrene-d10	188	10.207	10.212	-0.005	97	1220415	3.20	3.20	
* 5 Chrysene-d12	240	13.541	13.550	-0.009	99	1250121	3.20	3.20	
* 6 Perylene-d12	264	17.260	17.269	-0.009	97	1304613	3.20	3.20	
$ 7 2-Fluorophenol	112	5.337	5.337	0.000	94	247833	4.00	3.69	
$ 8 Phenol-d5	99	6.079	6.089	-0.010	94	443630	4.00	3.94	
$ 9 Nitrobenzene-d5	82	6.864	6.869	-0.005	95	479657	4.00	3.94	
$ 10 2-Fluorobiphenyl	172	8.362	8.367	-0.005	100	1023996	4.00	3.83	
$ 11 2,4,6-Tribromophenol	330	9.613	9.617	-0.004	70	231579	4.00	3.75	
$ 12 Terphenyl-d14	244	11.819	11.824	-0.005	100	1152254	4.00	3.77	
13 1,4-Dioxane	88	3.792	3.792	0.000	86	106064	4.00	3.58	
14 N-Nitrosodimethylamine	42	4.087	4.101	-0.014	69	365400	4.00	3.89	
15 Pyridine	79	4.144	4.153	-0.009	76	698414	8.00	7.40	
23 Benzaldehyde	77	6.051	6.055	-0.004	89	152338	4.00	4.54	
25 Phenol	94	6.094	6.103	-0.009	93	496702	4.00	4.31	
26 Aniline	93	6.141	6.146	-0.005	95	706970	4.00	4.27	
27 Bis(2-chloroethyl)ether	93	6.174	6.179	-0.005	93	426474	4.00	4.11	
29 2-Chlorophenol	128	6.246	6.250	-0.004	98	431014	4.00	4.08	
30 n-Decane	43	6.269	6.269	0.000	89	837514	4.00	4.53	
31 1,3-Dichlorobenzene	146	6.379	6.379	0.000	99	484718	4.00	3.95	
32 1,4-Dichlorobenzene	146	6.431	6.436	-0.005	95	498104	4.00	4.01	
33 Benzyl alcohol	108	6.512	6.517	-0.005	92	306353	4.00	4.23	
34 1,2-Dichlorobenzene	146	6.564	6.569	-0.005	98	505229	4.00	4.13	
36 2-Methylphenol	107	6.588	6.593	-0.005	94	354447	4.00	4.45	
35 2,2'-oxybis[1-chloropropan	45	6.617	6.621	-0.004	91	1459848	4.00	4.29	
37 Indene	116	6.636	6.640	-0.004	91	1638429	8.00	8.89	
42 3 & 4 Methylphenol	108	6.712	6.716	-0.004	94	446551	4.00	4.60	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.726	6.735	-0.009	90	296314	4.00	4.24	
40 Acetophenone	105	6.736	6.740	-0.004	93	630881	4.00	4.42	
44 Hexachloroethane	117	6.850	6.854	-0.004	98	209547	4.00	3.98	
45 Nitrobenzene	77	6.883	6.888	-0.005	95	454081	4.00	4.09	
47 Isophorone	82	7.073	7.083	-0.010	97	821134	4.00	3.73	
48 2-Nitrophenol	139	7.149	7.149	0.000	90	266115	4.00	3.94	
49 2,4-Dimethylphenol	122	7.154	7.159	-0.005	93	424301	4.00	3.96	
51 Bis(2-chloroethoxy)methane	93	7.230	7.235	-0.005	93	545038	4.00	3.89	
52 Benzoic acid	122	7.249	7.287	-0.038	87	578909	8.00	7.15	
54 2,4-Dichlorophenol	162	7.344	7.349	-0.005	96	412357	4.00	3.96	
55 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	95	484792	4.00	3.99	
56 Naphthalene	128	7.496	7.501	-0.005	98	1449362	4.00	4.01	
57 4-Chloroaniline	127	7.515	7.520	-0.005	96	606199	4.00	3.83	
58 2,6-Dichlorophenol	162	7.534	7.534	0.000	98	417077	4.00	3.94	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	302850	4.00	3.87	
64 Caprolactam	113	7.806	7.839	-0.033	82	146773	4.00	3.85	
65 4-Chloro-3-methylphenol	107	7.901	7.910	-0.009	90	367640	4.00	3.84	
67 2-Methylnaphthalene	142	8.072	8.072	0.000	95	989099	4.00	3.84	
68 1-Methylnaphthalene	142	8.157	8.157	0.000	95	917600	4.00	3.80	
69 Hexachlorocyclopentadiene	237	8.210	8.210	0.000	98	363598	4.00	3.90	
70 1,2,4,5-Tetrachlorobenzene	216	8.215	8.219	-0.005	97	487665	4.00	3.85	
72 2,4,6-Trichlorophenol	196	8.295	8.300	-0.005	93	318833	4.00	3.87	
73 2,4,5-Trichlorophenol	196	8.329	8.333	-0.004	96	327207	4.00	3.85	
75 1,1'-Biphenyl	154	8.452	8.457	-0.005	96	1152466	4.00	3.99	
76 2-Chloronaphthalene	162	8.481	8.485	-0.004	97	940577	4.00	3.94	
78 2-Nitroaniline	65	8.547	8.552	-0.005	87	269356	4.00	3.74	
82 Dimethyl phthalate	163	8.681	8.690	-0.009	97	1040352	4.00	3.79	
83 1,3-Dinitrobenzene	168	8.714	8.723	-0.009	81	158283	4.00	3.76	
84 2,6-Dinitrotoluene	165	8.738	8.742	-0.004	91	231973	4.00	4.05	
85 Acenaphthylene	152	8.837	8.842	-0.005	98	1522877	4.00	3.99	
86 3-Nitroaniline	138	8.890	8.904	-0.014	96	206663	4.00	3.78	
87 Acenaphthene	154	8.980	8.985	-0.005	94	1009319	4.00	4.11	
88 2,4-Dinitrophenol	184	8.975	8.985	-0.010	89	296971	8.00	7.35	
89 4-Nitrophenol	109	9.004	9.018	-0.014	98	222877	8.00	6.86	
91 2,4-Dinitrotoluene	165	9.080	9.089	-0.009	93	307538	4.00	4.01	
92 Dibenzofuran	168	9.123	9.127	-0.004	97	1353123	4.00	3.93	
95 2,3,4,6-Tetrachlorophenol	232	9.218	9.223	-0.005	73	291771	4.00	3.77	
98 Hexadecane	57	9.270	9.270	0.000	83	796798	4.00	4.08	
97 Diethyl phthalate	149	9.265	9.270	-0.005	98	1030583	4.00	3.92	
100 4-Chlorophenyl phenyl ethe	204	9.389	9.394	-0.005	91	525513	4.00	3.87	
102 Fluorene	166	9.413	9.418	-0.005	94	1061296	4.00	3.89	
103 4-Nitroaniline	138	9.403	9.418	-0.015	90	218507	4.00	4.28	
104 4,6-Dinitro-2-methylphenol	198	9.432	9.441	-0.009	92	392924	8.00	7.48	
105 Diphenylamine	169	9.484	9.489	-0.005	93	750915	3.40	3.35	
106 N-Nitrosodiphenylamine	169	9.484	9.489	-0.005	65	750915	4.00	3.96	
107 1,2-Diphenylhydrazine	77	9.522	9.527	-0.005	94	984966	4.00	3.92	
114 4-Bromophenyl phenyl ether	248	9.803	9.808	-0.005	66	337976	4.00	3.79	
117 Hexachlorobenzene	284	9.888	9.893	-0.005	97	404865	4.00	3.78	
118 Atrazine	200	9.907	9.912	-0.005	76	262927	4.00	3.91	
123 n-Octadecane	43	10.036	10.036	0.000	94	744301	4.00	4.43	
120 Pentachlorophenol	266	10.041	10.041	0.000	89	519812	8.00	7.85	
126 Phenanthrene	178	10.231	10.236	-0.005	98	1538910	4.00	3.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.274	10.278	-0.004	99	1609551	4.00	3.99	
128 Carbazole	167	10.388	10.392	-0.004	96	1382599	4.00	4.01	
130 Di-n-butyl phthalate	149	10.649	10.654	-0.005	99	1796418	4.00	3.94	
135 Fluoranthene	202	11.396	11.401	-0.005	98	1766309	4.00	3.99	
136 Benzidine	184	11.505	11.510	-0.005	97	467323	4.00	2.93	
137 Pyrene	202	11.677	11.681	-0.004	96	1801653	4.00	4.01	
145 Butyl benzyl phthalate	149	12.475	12.480	-0.005	95	824388	4.00	3.89	
147 3,3'-Dichlorobenzidine	252	13.436	13.450	-0.014	99	575781	4.00	3.69	
150 Bis(2-ethylhexyl) phthalat	149	13.503	13.512	-0.009	95	1178806	4.00	3.90	
149 Benzo[a]anthracene	228	13.517	13.531	-0.014	99	1708685	4.00	3.85	
151 Chrysene	228	13.593	13.607	-0.014	97	1622663	4.00	3.84	
154 Di-n-octyl phthalate	149	14.991	15.001	-0.010	97	1959123	4.00	3.79	
156 Benzo[b]fluoranthene	252	16.056	16.080	-0.024	98	1664020	4.00	4.07	
157 Benzo[k]fluoranthene	252	16.133	16.161	-0.028	99	1726912	4.00	4.22	
158 Benzo[a]pyrene	252	17.069	17.098	-0.029	96	1636238	4.00	4.23	
162 Indeno[1,2,3-cd]pyrene	276	20.180	20.208	-0.028	99	2038629	4.00	4.23	
163 Dibenz(a,h)anthracene	278	20.246	20.275	-0.029	93	1667231	4.00	4.37	
164 Benzo[g,h,i]perylene	276	20.841	20.874	-0.033	79	1675743	4.00	4.20	
S 173 Methyl Phenols,Total	1				0			9.06	

Reagents:

SMlst1_5uLL7_00034 Amount Added: 1.00 Units: mL

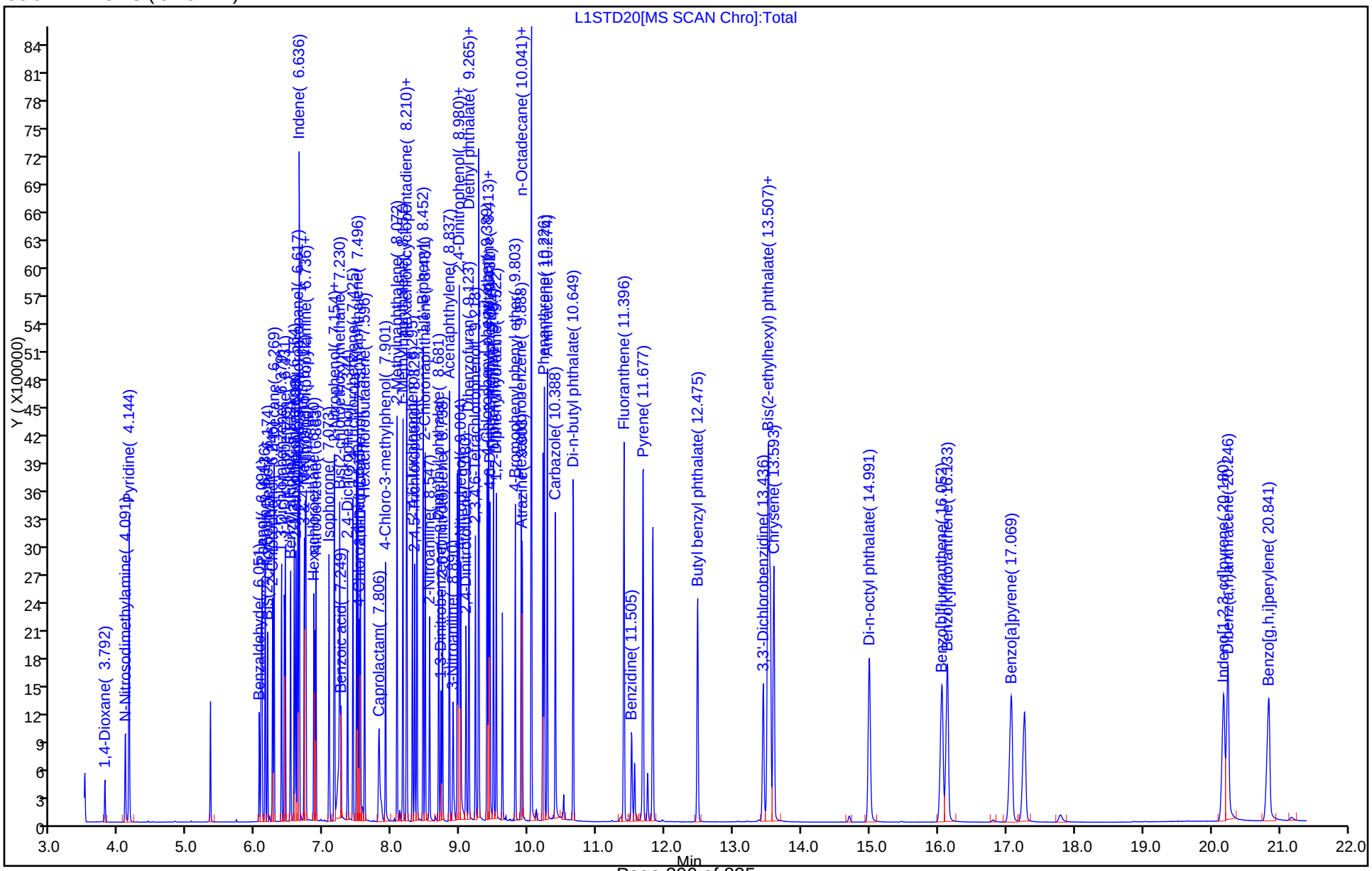
Report Date: 28-Sep-2017 10:34:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD20.D

Injection Date:	27-Sep-2017 15:58:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD40.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 8
Inject. Date: 27-Sep-2017 16:28:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: icis
Misc. Info.: 500-0048054-009
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:54 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 16:55:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.422	6.422	0.000	96	316570	3.20	3.20	
* 2 Naphthalene-d8	136	7.482	7.482	0.000	99	1242167	3.20	3.20	
* 3 Acenaphthene-d10	164	8.956	8.956	0.000	97	622490	3.20	3.20	
* 4 Phenanthrene-d10	188	10.212	10.212	0.000	97	1226646	3.20	3.20	
* 5 Chrysene-d12	240	13.550	13.550	0.000	99	1254384	3.20	3.20	
* 6 Perylene-d12	264	17.269	17.269	0.000	97	1319215	3.20	3.20	
$ 7 2-Fluorophenol	112	5.337	5.337	0.000	94	715485	8.00	8.09	
$ 8 Phenol-d5	99	6.089	6.089	0.000	94	1031726	8.00	7.87	
$ 9 Nitrobenzene-d5	82	6.869	6.869	0.000	95	1013378	8.00	8.32	
$ 10 2-Fluorobiphenyl	172	8.367	8.367	0.000	99	2031100	8.00	7.76	
$ 11 2,4,6-Tribromophenol	330	9.617	9.617	0.000	67	515624	8.00	8.53	
$ 12 Terphenyl-d14	244	11.824	11.824	0.000	100	2482591	8.00	8.10	
13 1,4-Dioxane	88	3.792	3.792	0.000	86	236045	8.00	6.98	
14 N-Nitrosodimethylamine	42	4.101	4.101	0.000	69	839053	8.00	7.84	
15 Pyridine	79	4.153	4.153	0.000	77	1766808	16.0	16.4	
23 Benzaldehyde	77	6.055	6.055	0.000	89	245360	8.00	7.93	
25 Phenol	94	6.103	6.103	0.000	93	1086202	8.00	8.26	
26 Aniline	93	6.146	6.146	0.000	95	1441492	8.00	7.64	
27 Bis(2-chloroethyl)ether	93	6.179	6.179	0.000	93	885374	8.00	7.48	
29 2-Chlorophenol	128	6.250	6.250	0.000	98	979070	8.00	8.14	
30 n-Decane	43	6.269	6.269	0.000	91	1612764	8.00	8.29	
31 1,3-Dichlorobenzene	146	6.379	6.379	0.000	99	1069542	8.00	7.65	
32 1,4-Dichlorobenzene	146	6.436	6.436	0.000	94	1079634	8.00	7.63	
33 Benzyl alcohol	108	6.517	6.517	0.000	92	618141	8.00	7.48	
34 1,2-Dichlorobenzene	146	6.569	6.569	0.000	98	1067939	8.00	7.66	
36 2-Methylphenol	107	6.593	6.593	0.000	95	725321	8.00	8.00	
35 2,2'-oxybis[1-chloropropan	45	6.621	6.621	0.000	90	2684187	8.00	6.92	
37 Indene	116	6.640	6.640	0.000	90	3001333	16.0	14.3	
42 3 & 4 Methylphenol	108	6.716	6.716	0.000	93	879331	8.00	7.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.735	6.735	0.000	89	573172	8.00	7.19	
40 Acetophenone	105	6.740	6.740	0.000	93	1190403	8.00	7.31	
44 Hexachloroethane	117	6.854	6.854	0.000	94	457863	8.00	7.64	
45 Nitrobenzene	77	6.888	6.888	0.000	96	910849	8.00	8.21	
47 Isophorone	82	7.083	7.083	0.000	98	1647333	8.00	7.47	
48 2-Nitrophenol	139	7.149	7.149	0.000	91	530415	8.00	7.84	
49 2,4-Dimethylphenol	122	7.159	7.159	0.000	94	823445	8.00	7.68	
51 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	94	1052174	8.00	7.51	
52 Benzoic acid	122	7.287	7.287	0.000	87	1301362	16.0	16.1	
54 2,4-Dichlorophenol	162	7.349	7.349	0.000	96	823532	8.00	7.91	
55 1,2,4-Trichlorobenzene	180	7.425	7.425	0.000	94	968852	8.00	7.97	
56 Naphthalene	128	7.501	7.501	0.000	99	2703250	8.00	7.48	
57 4-Chloroaniline	127	7.520	7.520	0.000	96	1162713	8.00	7.33	
58 2,6-Dichlorophenol	162	7.534	7.534	0.000	97	817480	8.00	7.72	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	606727	8.00	7.75	
64 Caprolactam	113	7.839	7.839	0.000	83	299162	8.00	7.83	
65 4-Chloro-3-methylphenol	107	7.910	7.910	0.000	91	749949	8.00	7.83	
67 2-Methylnaphthalene	142	8.072	8.072	0.000	95	1857502	8.00	7.20	
68 1-Methylnaphthalene	142	8.157	8.157	0.000	94	1721489	8.00	7.12	
69 Hexachlorocyclopentadiene	237	8.210	8.210	0.000	97	720914	8.00	7.89	
70 1,2,4,5-Tetrachlorobenzene	216	8.219	8.219	0.000	96	954809	8.00	7.69	
72 2,4,6-Trichlorophenol	196	8.300	8.300	0.000	92	643184	8.00	7.97	
73 2,4,5-Trichlorophenol	196	8.333	8.333	0.000	96	636883	8.00	7.65	
75 1,1'-Biphenyl	154	8.457	8.457	0.000	96	2183524	8.00	7.71	
76 2-Chloronaphthalene	162	8.485	8.485	0.000	96	1806293	8.00	7.73	
78 2-Nitroaniline	65	8.552	8.552	0.000	87	551582	8.00	7.83	
82 Dimethyl phthalate	163	8.690	8.690	0.000	97	2066234	8.00	7.70	
83 1,3-Dinitrobenzene	168	8.723	8.723	0.000	82	328117	8.00	7.95	
84 2,6-Dinitrotoluene	165	8.742	8.742	0.000	92	476398	8.00	8.50	
85 Acenaphthylene	152	8.842	8.842	0.000	98	2857824	8.00	7.65	
86 3-Nitroaniline	138	8.904	8.904	0.000	96	399475	8.00	7.46	
88 2,4-Dinitrophenol	184	8.985	8.985	0.000	75	630437	16.0	15.9	
87 Acenaphthene	154	8.985	8.985	0.000	94	1833080	8.00	7.63	
89 4-Nitrophenol	109	9.018	9.018	0.000	99	518047	16.0	16.3	
91 2,4-Dinitrotoluene	165	9.089	9.089	0.000	93	629741	8.00	8.38	
92 Dibenzofuran	168	9.127	9.127	0.000	97	2538382	8.00	7.52	
95 2,3,4,6-Tetrachlorophenol	232	9.223	9.223	0.000	72	601347	8.00	7.93	
97 Diethyl phthalate	149	9.270	9.270	0.000	98	1908721	8.00	7.42	
98 Hexadecane	57	9.270	9.270	0.000	85	1278026	8.00	7.60	
100 4-Chlorophenyl phenyl ethe	204	9.394	9.394	0.000	91	1023934	8.00	7.71	
103 4-Nitroaniline	138	9.418	9.418	0.000	65	377274	8.00	7.55	
102 Fluorene	166	9.418	9.418	0.000	94	1980240	8.00	7.42	
104 4,6-Dinitro-2-methylphenol	198	9.441	9.441	0.000	92	822411	16.0	15.6	
106 N-Nitrosodiphenylamine	169	9.489	9.489	0.000	65	1451261	8.00	7.62	
105 Diphenylamine	169	9.489	9.489	0.000	93	1451261	6.80	6.44	
107 1,2-Diphenylhydrazine	77	9.527	9.527	0.000	95	1918394	8.00	7.79	
114 4-Bromophenyl phenyl ether	248	9.808	9.808	0.000	70	686056	8.00	7.65	
117 Hexachlorobenzene	284	9.893	9.893	0.000	96	826958	8.00	7.69	
118 Atrazine	200	9.912	9.912	0.000	77	508693	8.00	7.53	
123 n-Octadecane	43	10.036	10.036	0.000	95	1149347	8.00	8.22	
120 Pentachlorophenol	266	10.045	10.045	0.000	86	1051613	16.0	15.8	
126 Phenanthrene	178	10.236	10.236	0.000	98	2954029	8.00	7.51	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.278	10.278	0.000	99	3068042	8.00	7.57	
128 Carbazole	167	10.392	10.392	0.000	96	2611156	8.00	7.54	
130 Di-n-butyl phthalate	149	10.654	10.654	0.000	99	3511193	8.00	7.66	
135 Fluoranthene	202	11.401	11.401	0.000	99	3425059	8.00	7.70	
136 Benzidine	184	11.515	11.515	0.000	97	1234918	8.00	7.72	
137 Pyrene	202	11.681	11.681	0.000	96	3534691	8.00	7.84	
145 Butyl benzyl phthalate	149	12.480	12.480	0.000	95	1672315	8.00	7.86	
147 3,3'-Dichlorobenzidine	252	13.450	13.450	0.000	99	1239679	8.00	7.92	
150 Bis(2-ethylhexyl) phthalat	149	13.512	13.512	0.000	95	2405246	8.00	7.93	
149 Benzo[a]anthracene	228	13.531	13.531	0.000	99	3422223	8.00	7.68	
151 Chrysene	228	13.607	13.607	0.000	98	3270381	8.00	7.71	
154 Di-n-octyl phthalate	149	15.001	15.001	0.000	97	4140555	8.00	7.96	
156 Benzo[b]fluoranthene	252	16.080	16.080	0.000	98	3440854	8.00	8.33	
157 Benzo[k]fluoranthene	252	16.161	16.161	0.000	99	3607621	8.00	8.72	
158 Benzo[a]pyrene	252	17.098	17.098	0.000	97	3415585	8.00	8.74	
162 Indeno[1,2,3-cd]pyrene	276	20.208	20.208	0.000	99	4180942	8.00	8.58	
163 Dibenz(a,h)anthracene	278	20.275	20.275	0.000	94	3464922	8.00	8.98	
164 Benzo[g,h,i]perylene	276	20.874	20.874	0.000	79	3318001	8.00	8.23	

Reagents:

SMlst1_5uLL8_00034 Amount Added: 1.00 Units: mL

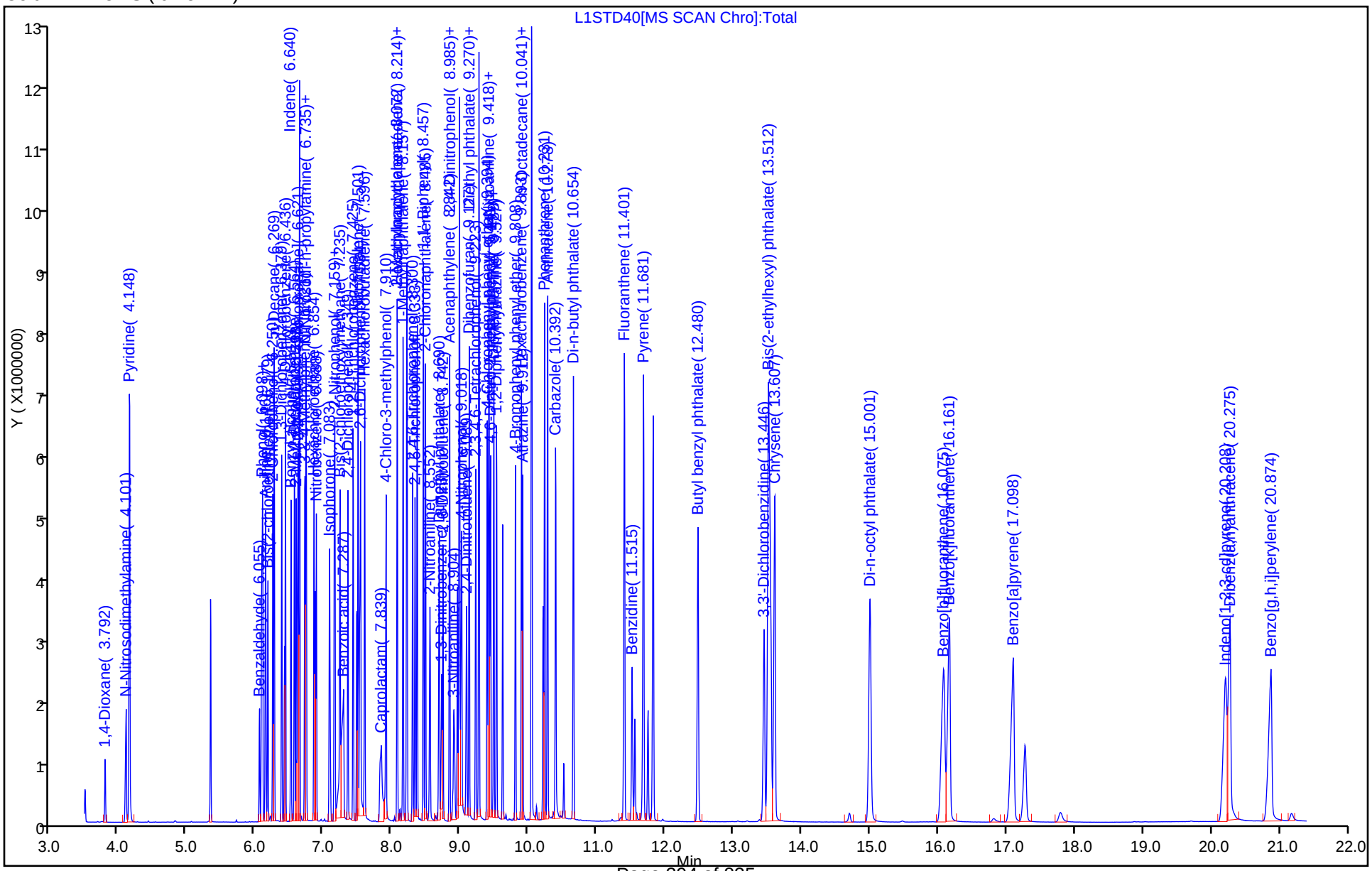
Report Date: 28-Sep-2017 10:34:55 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD40.D

Injection Date:	27-Sep-2017 16:28:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	icis			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD50.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 27-Sep-2017 16:57:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-010
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:34:58 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 27-Sep-2017 17:28:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.422	6.422	0.000	96	308077	3.20	3.20	
* 2 Naphthalene-d8	136	7.482	7.482	0.000	99	1204226	3.20	3.20	
* 3 Acenaphthene-d10	164	8.956	8.956	0.000	97	598791	3.20	3.20	
* 4 Phenanthrene-d10	188	10.212	10.212	0.000	97	1174443	3.20	3.20	
* 5 Chrysene-d12	240	13.555	13.550	0.005	99	1221269	3.20	3.20	
* 6 Perylene-d12	264	17.274	17.269	0.005	97	1290978	3.20	3.20	
$ 7 2-Fluorophenol	112	5.342	5.337	0.005	94	875215	10.0	9.70	
$ 8 Phenol-d5	99	6.093	6.089	0.004	94	1296223	10.0	10.1	
$ 9 Nitrobenzene-d5	82	6.873	6.869	0.004	96	1254530	10.0	10.6	
$ 10 2-Fluorobiphenyl	172	8.367	8.367	0.000	99	2456352	10.0	9.76	
$ 11 2,4,6-Tribromophenol	330	9.622	9.617	0.005	66	656618	10.0	11.3	
$ 12 Terphenyl-d14	244	11.824	11.824	0.000	100	3096376	10.0	10.4	
13 1,4-Dioxane	88	3.792	3.792	0.000	86	364100	10.0	11.1	
14 N-Nitrosodimethylamine	42	4.101	4.101	0.000	70	1032933	10.0	9.92	
15 Pyridine	79	4.153	4.153	0.000	79	2251728	20.0	21.5	
23 Benzaldehyde	77	6.055	6.055	0.000	89	279663	10.0	9.91	
25 Phenol	94	6.103	6.103	0.000	92	1343044	10.0	10.5	
26 Aniline	93	6.146	6.146	0.000	94	1735978	10.0	9.45	
27 Bis(2-chloroethyl)ether	93	6.179	6.179	0.000	92	1100228	10.0	9.55	
29 2-Chlorophenol	128	6.250	6.250	0.000	98	1196849	10.0	10.2	
30 n-Decane	43	6.269	6.269	0.000	91	1867236	10.0	10.0	
31 1,3-Dichlorobenzene	146	6.383	6.379	0.004	99	1299428	10.0	9.56	
32 1,4-Dichlorobenzene	146	6.436	6.436	0.000	94	1306714	10.0	9.49	
33 Benzyl alcohol	108	6.521	6.517	0.004	92	768423	10.0	9.56	
34 1,2-Dichlorobenzene	146	6.569	6.569	0.000	98	1289187	10.0	9.50	
36 2-Methylphenol	107	6.597	6.593	0.004	95	896674	10.0	10.2	
35 2,2'-oxybis[1-chloropropan	45	6.621	6.621	0.000	90	3172152	10.0	8.41	
37 Indene	116	6.645	6.640	0.005	90	3571739	20.0	17.5	
42 3 & 4 Methylphenol	108	6.721	6.716	0.005	94	1080399	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.735	6.735	0.000	87	694532	10.0	8.96	
40 Acetophenone	105	6.745	6.740	0.005	94	1433605	10.0	9.05	
44 Hexachloroethane	117	6.854	6.854	0.000	95	559287	10.0	9.59	
45 Nitrobenzene	77	6.888	6.888	0.000	96	1138258	10.0	10.6	
47 Isophorone	82	7.083	7.083	0.000	98	2044611	10.0	9.56	
48 2-Nitrophenol	139	7.154	7.149	0.005	91	654877	10.0	9.99	
49 2,4-Dimethylphenol	122	7.163	7.159	0.004	94	1009139	10.0	9.71	
51 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	94	1294335	10.0	9.53	
52 Benzoic acid	122	7.301	7.287	0.014	87	1648864	20.0	21.0	
54 2,4-Dichlorophenol	162	7.354	7.349	0.005	96	1013869	10.0	10.0	
55 1,2,4-Trichlorobenzene	180	7.430	7.425	0.005	95	1183856	10.0	10.0	
56 Naphthalene	128	7.501	7.501	0.000	98	3266781	10.0	9.32	
57 4-Chloroaniline	127	7.525	7.520	0.005	96	1471174	10.0	9.57	
58 2,6-Dichlorophenol	162	7.539	7.534	0.005	98	999763	10.0	9.73	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	749705	10.0	9.88	
64 Caprolactam	113	7.853	7.839	0.014	85	376069	10.0	10.2	
65 4-Chloro-3-methylphenol	107	7.915	7.910	0.005	91	931296	10.0	10.0	
67 2-Methylnaphthalene	142	8.076	8.072	0.004	95	2257900	10.0	9.03	
68 1-Methylnaphthalene	142	8.162	8.157	0.005	94	2113208	10.0	9.01	
69 Hexachlorocyclopentadiene	237	8.210	8.210	0.000	97	890353	10.0	10.1	
70 1,2,4,5-Tetrachlorobenzene	216	8.219	8.219	0.000	96	1173558	10.0	9.83	
72 2,4,6-Trichlorophenol	196	8.300	8.300	0.000	92	790181	10.0	10.2	
73 2,4,5-Trichlorophenol	196	8.338	8.333	0.005	96	811474	10.0	10.1	
75 1,1'-Biphenyl	154	8.457	8.457	0.000	95	2599221	10.0	9.55	
76 2-Chloronaphthalene	162	8.490	8.485	0.005	96	2194101	10.0	9.76	
78 2-Nitroaniline	65	8.557	8.552	0.005	86	691654	10.0	10.2	
82 Dimethyl phthalate	163	8.695	8.690	0.005	97	2551247	10.0	9.88	
83 1,3-Dinitrobenzene	168	8.728	8.723	0.005	83	415670	10.0	10.5	
84 2,6-Dinitrotoluene	165	8.747	8.742	0.005	92	589142	10.0	10.9	
85 Acenaphthylene	152	8.842	8.842	0.000	98	3445001	10.0	9.59	
86 3-Nitroaniline	138	8.909	8.904	0.005	96	521103	10.0	10.1	
87 Acenaphthene	154	8.990	8.985	0.005	93	2200161	10.0	9.52	
88 2,4-Dinitrophenol	184	8.990	8.985	0.005	73	795251	20.0	20.9	
89 4-Nitrophenol	109	9.023	9.018	0.005	99	657247	20.0	21.5	
91 2,4-Dinitrotoluene	165	9.094	9.089	0.005	93	786210	10.0	10.9	
92 Dibenzofuran	168	9.132	9.127	0.005	97	3091386	10.0	9.53	
95 2,3,4,6-Tetrachlorophenol	232	9.227	9.223	0.004	72	745667	10.0	10.2	
98 Hexadecane	57	9.270	9.270	0.000	80	1448682	10.0	9.66	
97 Diethyl phthalate	149	9.275	9.270	0.005	97	2308241	10.0	9.33	
100 4-Chlorophenyl phenyl ethe	204	9.394	9.394	0.000	91	1248423	10.0	9.77	
102 Fluorene	166	9.418	9.418	0.000	95	2434287	10.0	9.48	
103 4-Nitroaniline	138	9.422	9.418	0.004	66	447320	10.0	9.31	
104 4,6-Dinitro-2-methylphenol	198	9.446	9.441	0.005	91	1040194	20.0	20.6	
105 Diphenylamine	169	9.489	9.489	0.000	93	1795219	8.50	8.32	
106 N-Nitrosodiphenylamine	169	9.489	9.489	0.000	65	1795219	10.0	9.84	
107 1,2-Diphenylhydrazine	77	9.532	9.527	0.005	94	2308145	10.0	9.75	
114 4-Bromophenyl phenyl ether	248	9.807	9.808	-0.001	64	849610	10.0	9.90	
117 Hexachlorobenzene	284	9.898	9.893	0.005	97	1038113	10.0	10.1	
118 Atrazine	200	9.917	9.912	0.005	76	619655	10.0	9.58	
123 n-Octadecane	43	10.041	10.036	0.005	95	1293334	10.0	10.1	
120 Pentachlorophenol	266	10.050	10.045	0.005	86	1318128	20.0	20.7	
126 Phenanthrene	178	10.235	10.236	-0.001	98	3581978	10.0	9.51	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.278	10.278	0.000	99	3722870	10.0	9.59	
128 Carbazole	167	10.397	10.392	0.005	96	3134739	10.0	9.45	
130 Di-n-butyl phthalate	149	10.654	10.654	0.000	99	4263049	10.0	9.71	
135 Fluoranthene	202	11.405	11.401	0.004	99	4237164	10.0	9.94	
136 Benzidine	184	11.520	11.515	0.005	97	1601762	10.0	10.3	
137 Pyrene	202	11.686	11.681	0.005	96	4360056	10.0	9.93	
145 Butyl benzyl phthalate	149	12.480	12.480	0.000	95	2105542	10.0	10.2	
147 3,3'-Dichlorobenzidine	252	13.455	13.450	0.005	99	1569158	10.0	10.3	
150 Bis(2-ethylhexyl) phthalat	149	13.512	13.512	0.000	95	2989033	10.0	10.1	
149 Benzo[a]anthracene	228	13.536	13.531	0.005	99	4275383	10.0	9.86	
151 Chrysene	228	13.612	13.607	0.005	98	4054479	10.0	9.82	
154 Di-n-octyl phthalate	149	15.001	15.001	0.000	97	5206122	10.0	10.5	
156 Benzo[b]fluoranthene	252	16.090	16.080	0.010	98	4499216	10.0	11.1	
157 Benzo[k]fluoranthene	252	16.175	16.161	0.014	99	4518041	10.0	11.2	
158 Benzo[a]pyrene	252	17.112	17.098	0.014	97	4312119	10.0	11.3	
162 Indeno[1,2,3-cd]pyrene	276	20.222	20.208	0.014	99	5190413	10.0	10.9	
163 Dibenz(a,h)anthracene	278	20.284	20.275	0.009	93	4181621	10.0	11.1	
164 Benzo[g,h,i]perylene	276	20.888	20.874	0.014	79	4105032	10.0	10.4	
S 173 Methyl Phenols,Total	1				0			20.2	

Reagents:

SMlst1_5uLL9_00033 Amount Added: 1.00 Units: mL

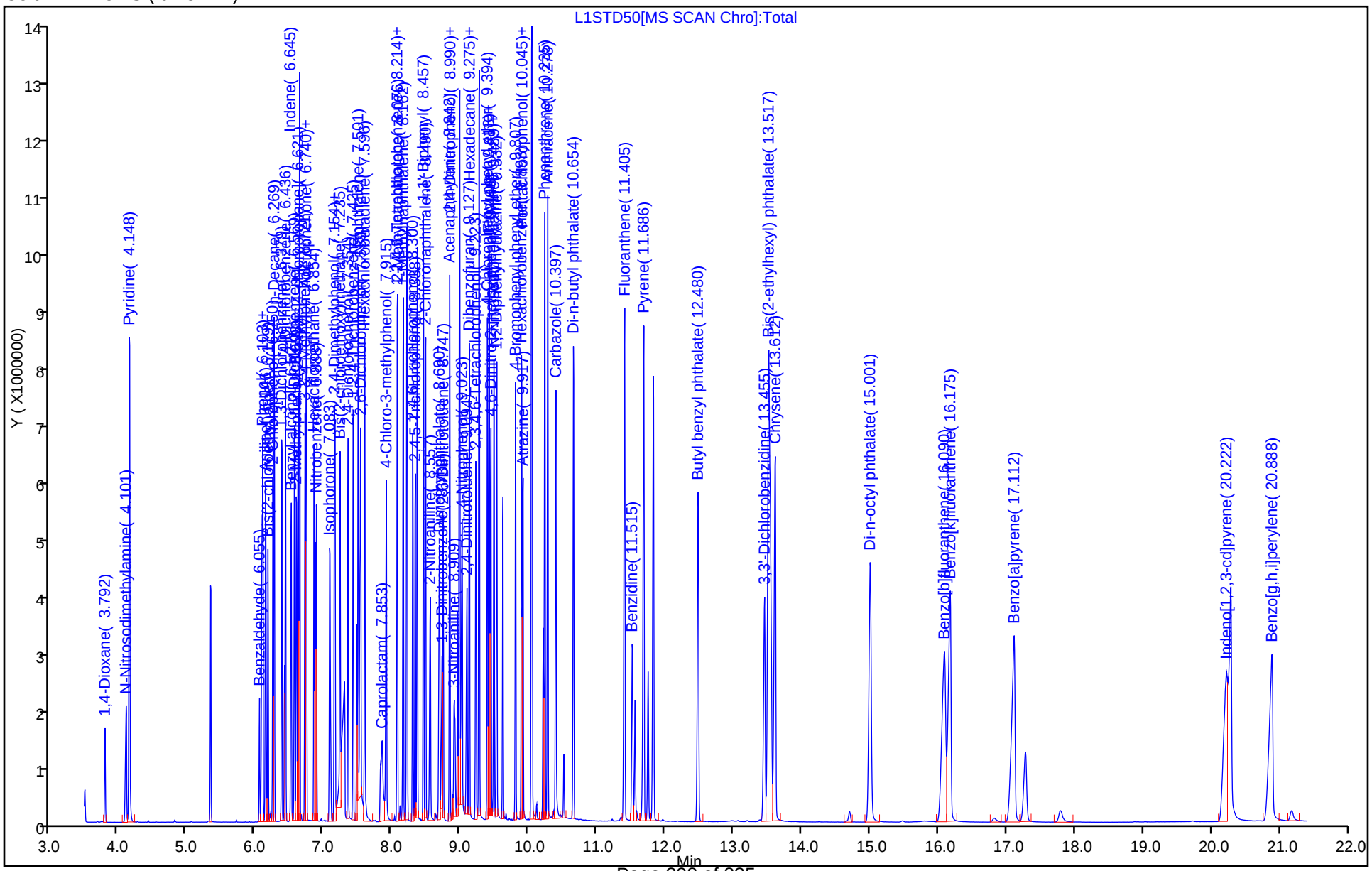
Report Date: 28-Sep-2017 10:34:59 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD50.D

Injection Date:	27-Sep-2017 16:57:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD60.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 27-Sep-2017 17:27:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-011
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:35:02 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 28-Sep-2017 10:14:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.422	6.422	0.000	96	310385	3.20	3.20	
* 2 Naphthalene-d8	136	7.482	7.482	0.000	99	1186371	3.20	3.20	
* 3 Acenaphthene-d10	164	8.956	8.956	0.000	97	590321	3.20	3.20	
* 4 Phenanthrene-d10	188	10.212	10.212	0.000	97	1172668	3.20	3.20	
* 5 Chrysene-d12	240	13.560	13.550	0.010	99	1197811	3.20	3.20	
* 6 Perylene-d12	264	17.279	17.269	0.010	97	1271726	3.20	3.20	
$ 7 2-Fluorophenol	112	5.342	5.337	0.005	94	1184496	12.0	12.2	
$ 8 Phenol-d5	99	6.094	6.089	0.005	94	1524516	12.0	11.8	
$ 9 Nitrobenzene-d5	82	6.873	6.869	0.004	96	1481411	12.0	12.7	
$ 10 2-Fluorobiphenyl	172	8.367	8.367	0.000	99	2828420	12.0	11.4	
$ 11 2,4,6-Tribromophenol	330	9.622	9.617	0.005	72	783115	12.0	13.7	
$ 12 Terphenyl-d14	244	11.829	11.824	0.005	100	3648315	12.0	12.5	
13 1,4-Dioxane	88	3.797	3.792	0.005	87	448319	12.0	13.5	
14 N-Nitrosodimethylamine	42	4.110	4.101	0.009	70	1286318	12.0	12.3	
15 Pyridine	79	4.153	4.153	0.000	78	2757091	24.0	26.1	
23 Benzaldehyde	77	6.056	6.055	0.001	88	316406	12.0	11.6	
25 Phenol	94	6.108	6.103	0.005	93	1593970	12.0	12.4	
26 Aniline	93	6.151	6.146	0.005	95	2158930	12.0	11.7	
27 Bis(2-chloroethyl)ether	93	6.184	6.179	0.005	93	1410688	12.0	12.2	
29 2-Chlorophenol	128	6.255	6.250	0.005	98	1466002	12.0	12.4	
30 n-Decane	43	6.274	6.269	0.005	93	2170317	12.0	11.7	
31 1,3-Dichlorobenzene	146	6.384	6.379	0.005	99	1608924	12.0	11.7	
32 1,4-Dichlorobenzene	146	6.436	6.436	0.000	94	1601375	12.0	11.5	
33 Benzyl alcohol	108	6.526	6.517	0.009	92	924836	12.0	11.4	
34 1,2-Dichlorobenzene	146	6.569	6.569	0.000	98	1573173	12.0	11.5	
36 2-Methylphenol	107	6.598	6.593	0.005	95	1066708	12.0	12.0	
35 2,2'-oxybis[1-chloropropan	45	6.621	6.621	0.000	90	3653861	12.0	9.61	
37 Indene	116	6.645	6.640	0.005	89	4157319	24.0	20.2	
42 3 & 4 Methylphenol	108	6.726	6.716	0.010	94	1265248	12.0	11.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.740	6.735	0.005	85	827825	12.0	10.6	
40 Acetophenone	105	6.745	6.740	0.005	92	1704074	12.0	10.7	
44 Hexachloroethane	117	6.854	6.854	0.000	95	688267	12.0	11.7	
45 Nitrobenzene	77	6.892	6.888	0.004	95	1359903	12.0	12.8	
47 Isophorone	82	7.087	7.083	0.004	98	2476045	12.0	11.8	
48 2-Nitrophenol	139	7.154	7.149	0.005	91	788737	12.0	12.2	
49 2,4-Dimethylphenol	122	7.164	7.159	0.005	94	1210467	12.0	11.8	
51 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	94	1542920	12.0	11.5	
52 Benzoic acid	122	7.316	7.287	0.029	88	2066283	24.0	26.7	
54 2,4-Dichlorophenol	162	7.354	7.349	0.005	96	1217985	12.0	12.2	
55 1,2,4-Trichlorobenzene	180	7.430	7.425	0.005	95	1418097	12.0	12.2	
56 Naphthalene	128	7.501	7.501	0.000	99	3814217	12.0	11.0	
57 4-Chloroaniline	127	7.525	7.520	0.005	96	1795676	12.0	11.9	
58 2,6-Dichlorophenol	162	7.539	7.534	0.005	98	1188772	12.0	11.7	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	910034	12.0	12.2	
64 Caprolactam	113	7.863	7.839	0.024	84	461072	12.0	12.6	
65 4-Chloro-3-methylphenol	107	7.915	7.910	0.005	91	1136626	12.0	12.4	
67 2-Methylnaphthalene	142	8.077	8.072	0.005	95	2664529	12.0	10.8	
68 1-Methylnaphthalene	142	8.162	8.157	0.005	94	2495845	12.0	10.8	
69 Hexachlorocyclopentadiene	237	8.215	8.210	0.005	97	1055562	12.0	12.2	
70 1,2,4,5-Tetrachlorobenzene	216	8.219	8.219	0.000	96	1419834	12.0	12.1	
72 2,4,6-Trichlorophenol	196	8.305	8.300	0.005	92	954173	12.0	12.5	
73 2,4,5-Trichlorophenol	196	8.338	8.333	0.005	96	992239	12.0	12.6	
75 1,1'-Biphenyl	154	8.462	8.457	0.005	95	3102155	12.0	11.6	
76 2-Chloronaphthalene	162	8.490	8.485	0.005	96	2611652	12.0	11.8	
78 2-Nitroaniline	65	8.562	8.552	0.010	87	848840	12.0	12.7	
82 Dimethyl phthalate	163	8.695	8.690	0.005	98	3125462	12.0	12.3	
83 1,3-Dinitrobenzene	168	8.738	8.723	0.015	85	514356	12.0	13.1	
84 2,6-Dinitrotoluene	165	8.752	8.742	0.010	92	715287	12.0	13.5	
85 Acenaphthylene	152	8.842	8.842	0.000	98	4052861	12.0	11.4	
86 3-Nitroaniline	138	8.914	8.904	0.010	96	655677	12.0	12.9	
88 2,4-Dinitrophenol	184	8.994	8.985	0.009	81	989680	24.0	26.4	
87 Acenaphthene	154	8.990	8.985	0.005	94	2615293	12.0	11.5	
89 4-Nitrophenol	109	9.032	9.018	0.014	99	817318	24.0	27.1	
91 2,4-Dinitrotoluene	165	9.099	9.089	0.010	93	968030	12.0	13.6	
92 Dibenzofuran	168	9.132	9.127	0.005	97	3681605	12.0	11.5	
95 2,3,4,6-Tetrachlorophenol	232	9.227	9.223	0.004	72	916724	12.0	12.8	
97 Diethyl phthalate	149	9.280	9.270	0.010	98	2746886	12.0	11.3	
98 Hexadecane	57	9.275	9.270	0.005	87	1602433	12.0	11.7	
100 4-Chlorophenyl phenyl ethe	204	9.399	9.394	0.005	90	1514670	12.0	12.0	
103 4-Nitroaniline	138	9.432	9.418	0.014	85	537059	12.0	11.3	
102 Fluorene	166	9.422	9.418	0.004	95	2916823	12.0	11.5	
104 4,6-Dinitro-2-methylphenol	198	9.451	9.441	0.010	92	1277811	24.0	25.3	
106 N-Nitrosodiphenylamine	169	9.494	9.489	0.005	65	2147459	12.0	11.8	
105 Diphenylamine	169	9.494	9.489	0.005	93	2147459	10.2	9.96	
107 1,2-Diphenylhydrazine	77	9.532	9.527	0.005	94	2748973	12.0	11.8	
114 4-Bromophenyl phenyl ether	248	9.808	9.808	0.000	64	1038999	12.0	12.1	
117 Hexachlorobenzene	284	9.898	9.893	0.005	97	1263765	12.0	12.3	
118 Atrazine	200	9.917	9.912	0.005	76	734739	12.0	11.4	
123 n-Octadecane	43	10.041	10.036	0.005	95	1445462	12.0	11.7	
120 Pentachlorophenol	266	10.050	10.045	0.005	85	1610761	24.0	25.3	
126 Phenanthrene	178	10.236	10.236	0.000	98	4310713	12.0	11.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.283	10.278	0.005	98	4404914	12.0	11.4	
128 Carbazole	167	10.397	10.392	0.005	96	3786913	12.0	11.4	
130 Di-n-butyl phthalate	149	10.659	10.654	0.005	99	5130387	12.0	11.7	
135 Fluoranthene	202	11.406	11.401	0.005	99	5110788	12.0	12.0	
136 Benzidine	184	11.520	11.515	0.005	97	2009187	12.0	13.2	
137 Pyrene	202	11.686	11.681	0.005	96	5283292	12.0	12.3	
145 Butyl benzyl phthalate	149	12.485	12.480	0.005	95	2548958	12.0	12.5	
147 3,3'-Dichlorobenzidine	252	13.460	13.450	0.010	99	1968447	12.0	13.2	
150 Bis(2-ethylhexyl) phthalat	149	13.517	13.512	0.005	96	3617706	12.0	12.5	
149 Benzo[a]anthracene	228	13.541	13.531	0.010	99	5233750	12.0	12.3	
151 Chrysene	228	13.617	13.607	0.010	97	4937976	12.0	12.2	
154 Di-n-octyl phthalate	149	15.006	15.001	0.005	97	6411418	12.0	12.9	
156 Benzo[b]fluoranthene	252	16.104	16.080	0.024	98	5640975	12.0	14.2	
157 Benzo[k]fluoranthene	252	16.190	16.161	0.029	99	5189397	12.0	13.0	
158 Benzo[a]pyrene	252	17.122	17.098	0.024	97	5320960	12.0	14.1	
162 Indeno[1,2,3-cd]pyrene	276	20.232	20.208	0.024	99	6287639	12.0	13.4	
163 Dibenz(a,h)anthracene	278	20.294	20.275	0.019	95	5309726	12.0	14.3	
164 Benzo[g,h,i]perylene	276	20.902	20.874	0.028	79	4890500	12.0	12.6	
S 173 Methyl Phenols,Total	1				0			23.7	

Reagents:

SMlst1_5uLL10_00033 Amount Added: 1.00 Units: mL

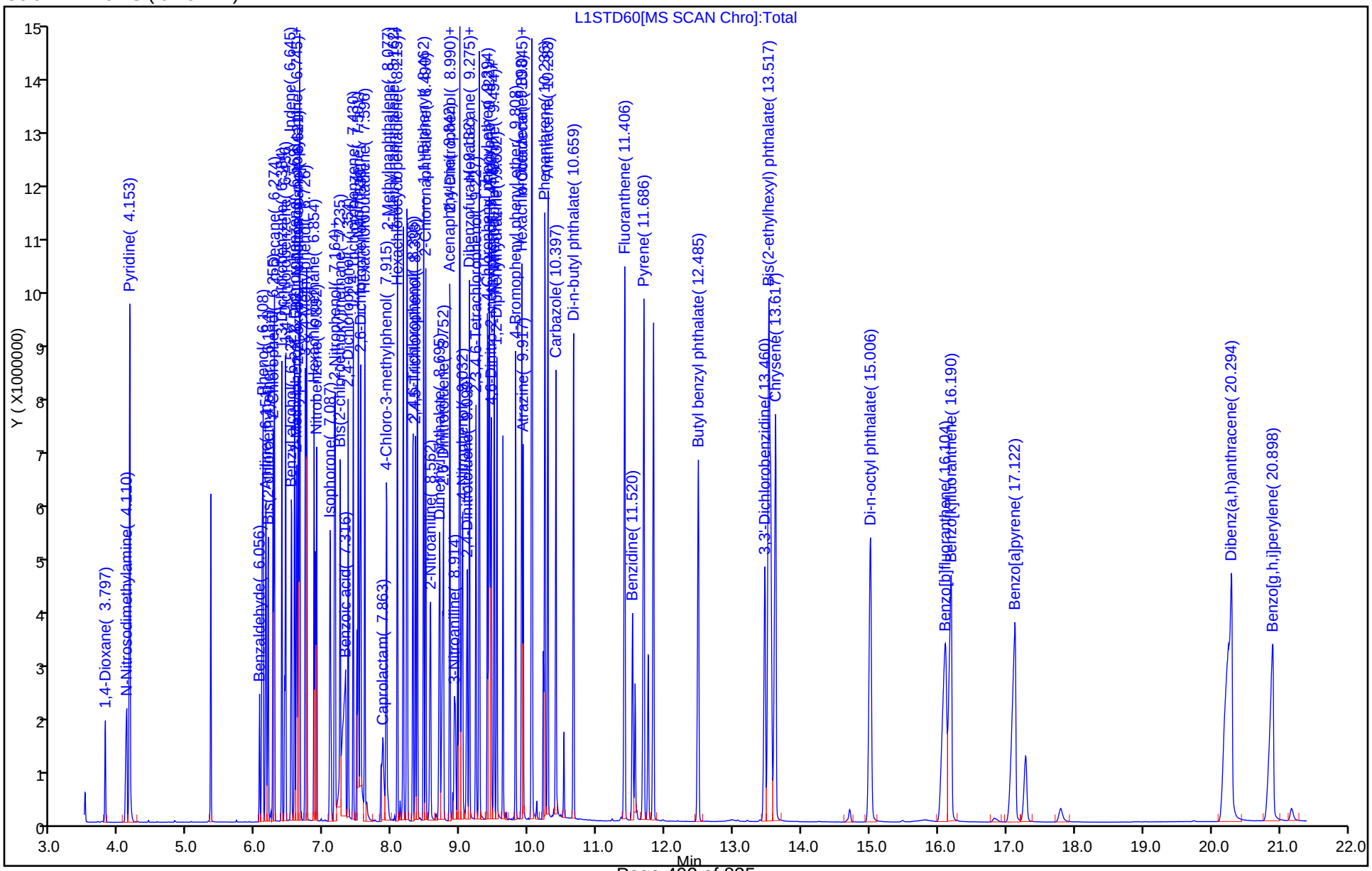
Report Date: 28-Sep-2017 10:35:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD60.D

Injection Date:	27-Sep-2017 17:27:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 27-Sep-2017 17:56:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048054-012
Operator ID: DA Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:35:07 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 28-Sep-2017 10:16:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.422	6.422	0.000	96	297259	3.20	3.20	
* 2 Naphthalene-d8	136	7.482	7.482	0.000	99	1116093	3.20	3.20	
* 3 Acenaphthene-d10	164	8.956	8.956	0.000	97	556524	3.20	3.20	
* 4 Phenanthrene-d10	188	10.217	10.212	0.005	97	1090493	3.20	3.20	
* 5 Chrysene-d12	240	13.560	13.550	0.010	99	1116501	3.20	3.20	
* 6 Perylene-d12	264	17.283	17.269	0.014	97	1194465	3.20	3.20	
$ 7 2-Fluorophenol	112	5.342	5.337	0.005	95	1393275	14.0	14.2	
$ 8 Phenol-d5	99	6.098	6.089	0.009	94	1806523	14.0	14.5	
$ 9 Nitrobenzene-d5	82	6.878	6.869	0.009	96	1737758	14.0	15.9	
$ 10 2-Fluorobiphenyl	172	8.372	8.367	0.005	99	3249205	14.0	13.9	
$ 11 2,4,6-Tribromophenol	330	9.627	9.617	0.010	65	934332	14.0	17.3	
$ 12 Terphenyl-d14	244	11.829	11.824	0.005	100	4237705	14.0	15.5	
13 1,4-Dioxane	88	3.792	3.792	0.000	88	541263	14.0	17.1	
14 N-Nitrosodimethylamine	42	4.115	4.101	0.014	70	1481494	14.0	14.7	
15 Pyridine	79	4.158	4.153	0.005	78	3160040	28.0	31.3	
23 Benzaldehyde	77	6.056	6.055	0.001	89	355922	14.0	14.2	
25 Phenol	94	6.113	6.103	0.010	93	1799200	14.0	14.6	
26 Aniline	93	6.151	6.146	0.005	94	2417114	14.0	13.6	
27 Bis(2-chloroethyl)ether	93	6.184	6.179	0.005	92	1695211	14.0	15.3	
29 2-Chlorophenol	128	6.255	6.250	0.005	98	1672055	14.0	14.8	
30 n-Decane	43	6.274	6.269	0.005	93	2362672	14.0	13.4	
31 1,3-Dichlorobenzene	146	6.384	6.379	0.005	99	1798492	14.0	13.7	
32 1,4-Dichlorobenzene	146	6.441	6.436	0.005	95	1799973	14.0	13.6	
33 Benzyl alcohol	108	6.526	6.517	0.009	92	1061706	14.0	13.7	
34 1,2-Dichlorobenzene	146	6.569	6.569	0.000	98	1760067	14.0	13.4	
36 2-Methylphenol	107	6.598	6.593	0.005	95	1226294	14.0	14.4	
35 2,2'-oxybis[1-chloropropan	45	6.621	6.621	0.000	90	3981961	14.0	10.9	
37 Indene	116	6.645	6.640	0.005	89	4573608	28.0	23.2	
42 3 & 4 Methylphenol	108	6.731	6.716	0.015	92	1435706	14.0	13.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	6.750	6.735	0.015	86	939047	14.0	12.6	
40 Acetophenone	105	6.750	6.740	0.010	95	1902264	14.0	12.4	
44 Hexachloroethane	117	6.854	6.854	0.000	96	781229	14.0	13.9	
45 Nitrobenzene	77	6.893	6.888	0.004	96	1541713	14.0	15.5	
47 Isophorone	82	7.092	7.083	0.009	98	2840393	14.0	14.3	
48 2-Nitrophenol	139	7.154	7.149	0.005	91	898496	14.0	14.8	
49 2,4-Dimethylphenol	122	7.168	7.159	0.009	94	1363401	14.0	14.2	
51 Bis(2-chloroethoxy)methane	93	7.240	7.235	0.005	94	1736040	14.0	13.8	
52 Benzoic acid	122	7.330	7.287	0.043	87	2391822	28.0	32.8	
54 2,4-Dichlorophenol	162	7.359	7.349	0.010	97	1383570	14.0	14.8	
55 1,2,4-Trichlorobenzene	180	7.430	7.425	0.005	95	1606545	14.0	14.7	
56 Naphthalene	128	7.506	7.501	0.005	99	4251074	14.0	13.1	
57 4-Chloroaniline	127	7.530	7.520	0.010	96	1987342	14.0	14.0	
58 2,6-Dichlorophenol	162	7.539	7.534	0.005	98	1348589	14.0	14.2	
60 Hexachlorobutadiene	225	7.601	7.596	0.005	94	1032574	14.0	14.7	
64 Caprolactam	113	7.872	7.839	0.033	84	531589	14.0	15.5	
65 4-Chloro-3-methylphenol	107	7.920	7.910	0.010	91	1293122	14.0	15.0	
67 2-Methylnaphthalene	142	8.077	8.072	0.005	95	2998007	14.0	12.9	
68 1-Methylnaphthalene	142	8.162	8.157	0.005	94	2790095	14.0	12.8	
69 Hexachlorocyclopentadiene	237	8.215	8.210	0.005	97	1209163	14.0	14.8	
70 1,2,4,5-Tetrachlorobenzene	216	8.224	8.219	0.005	96	1612984	14.0	14.5	
72 2,4,6-Trichlorophenol	196	8.305	8.300	0.005	92	1092943	14.0	15.2	
73 2,4,5-Trichlorophenol	196	8.343	8.333	0.010	96	1160063	14.0	15.6	
75 1,1'-Biphenyl	154	8.462	8.457	0.005	95	3472203	14.0	13.7	
76 2-Chloronaphthalene	162	8.490	8.485	0.005	97	2976037	14.0	14.2	
78 2-Nitroaniline	65	8.562	8.552	0.010	87	974324	14.0	15.5	
82 Dimethyl phthalate	163	8.700	8.690	0.010	97	3569459	14.0	14.9	
83 1,3-Dinitrobenzene	168	8.738	8.723	0.015	86	591120	14.0	16.0	
84 2,6-Dinitrotoluene	165	8.752	8.742	0.010	92	818578	14.0	16.3	
85 Acenaphthylene	152	8.847	8.842	0.005	98	4552253	14.0	13.6	
86 3-Nitroaniline	138	8.914	8.904	0.010	95	668399	14.0	14.0	
87 Acenaphthene	154	8.990	8.985	0.005	94	2977668	14.0	13.9	
88 2,4-Dinitrophenol	184	8.999	8.985	0.014	89	1144811	28.0	32.4	
89 4-Nitrophenol	109	9.037	9.018	0.019	99	932116	28.0	32.8	
91 2,4-Dinitrotoluene	165	9.104	9.089	0.015	93	1112909	14.0	16.6	
92 Dibenzofuran	168	9.132	9.127	0.005	97	4157819	14.0	13.8	
95 2,3,4,6-Tetrachlorophenol	232	9.228	9.223	0.005	72	1049705	14.0	15.5	
98 Hexadecane	57	9.275	9.270	0.005	86	1715495	14.0	16.0	
97 Diethyl phthalate	149	9.280	9.270	0.010	97	3112702	14.0	13.5	
100 4-Chlorophenyl phenyl ethe	204	9.399	9.394	0.005	89	1735791	14.0	14.6	
102 Fluorene	166	9.422	9.418	0.004	94	3265781	14.0	13.7	
103 4-Nitroaniline	138	9.437	9.418	0.019	69	584612	14.0	13.1	
104 4,6-Dinitro-2-methylphenol	198	9.456	9.441	0.015	91	1463774	28.0	31.2	
105 Diphenylamine	169	9.494	9.489	0.005	93	2426785	11.9	12.1	
106 N-Nitrosodiphenylamine	169	9.494	9.489	0.005	64	2426785	14.0	14.3	
107 1,2-Diphenylhydrazine	77	9.537	9.527	0.010	94	3057048	14.0	13.9	
114 4-Bromophenyl phenyl ether	248	9.812	9.808	0.004	63	1190727	14.0	14.9	
117 Hexachlorobenzene	284	9.898	9.893	0.005	97	1470623	14.0	15.4	
118 Atrazine	200	9.922	9.912	0.010	75	824545	14.0	13.7	
123 n-Octadecane	43	10.041	10.036	0.005	95	1544132	14.0	13.8	
120 Pentachlorophenol	266	10.055	10.045	0.010	85	1826010	28.0	30.9	
126 Phenanthrene	178	10.240	10.236	0.004	97	4843379	14.0	13.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	10.283	10.278	0.005	98	4968042	14.0	13.8	
128 Carbazole	167	10.402	10.392	0.010	96	4219933	14.0	13.7	
130 Di-n-butyl phthalate	149	10.659	10.654	0.005	99	5665067	14.0	13.9	
135 Fluoranthene	202	11.410	11.401	0.009	99	5789737	14.0	14.6	
136 Benzidine	184	11.524	11.515	0.009	97	2343981	14.0	16.5	
137 Pyrene	202	11.691	11.681	0.010	96	5961391	14.0	14.9	
145 Butyl benzyl phthalate	149	12.490	12.480	0.010	95	2933360	14.0	15.5	
147 3,3'-Dichlorobenzidine	252	13.465	13.450	0.015	99	2314343	14.0	16.6	
150 Bis(2-ethylhexyl) phthalat	149	13.517	13.512	0.005	95	4109532	14.0	15.2	
149 Benzo[a]anthracene	228	13.541	13.531	0.010	99	5977398	14.0	15.1	
151 Chrysene	228	13.622	13.607	0.015	97	5763664	14.0	15.3	
154 Di-n-octyl phthalate	149	15.010	15.001	0.009	97	7352159	14.0	15.9	
156 Benzo[b]fluoranthene	252	16.114	16.080	0.034	98	6595464	14.0	17.6	
157 Benzo[k]fluoranthene	252	16.199	16.161	0.038	99	5859042	14.0	15.6	
158 Benzo[a]pyrene	252	17.136	17.098	0.038	97	6136771	14.0	17.3	
162 Indeno[1,2,3-cd]pyrene	276	20.241	20.208	0.033	97	7178885	14.0	16.3	
163 Dibenz(a,h)anthracene	278	20.308	20.275	0.033	91	5881967	14.0	16.8	
164 Benzo[g,h,i]perylene	276	20.912	20.874	0.038	79	5509241	14.0	15.1	
S 173 Methyl Phenols,Total	1				0			28.2	

Reagents:

SMlst1_5uLL11_00033 Amount Added: 1.00 Units: mL

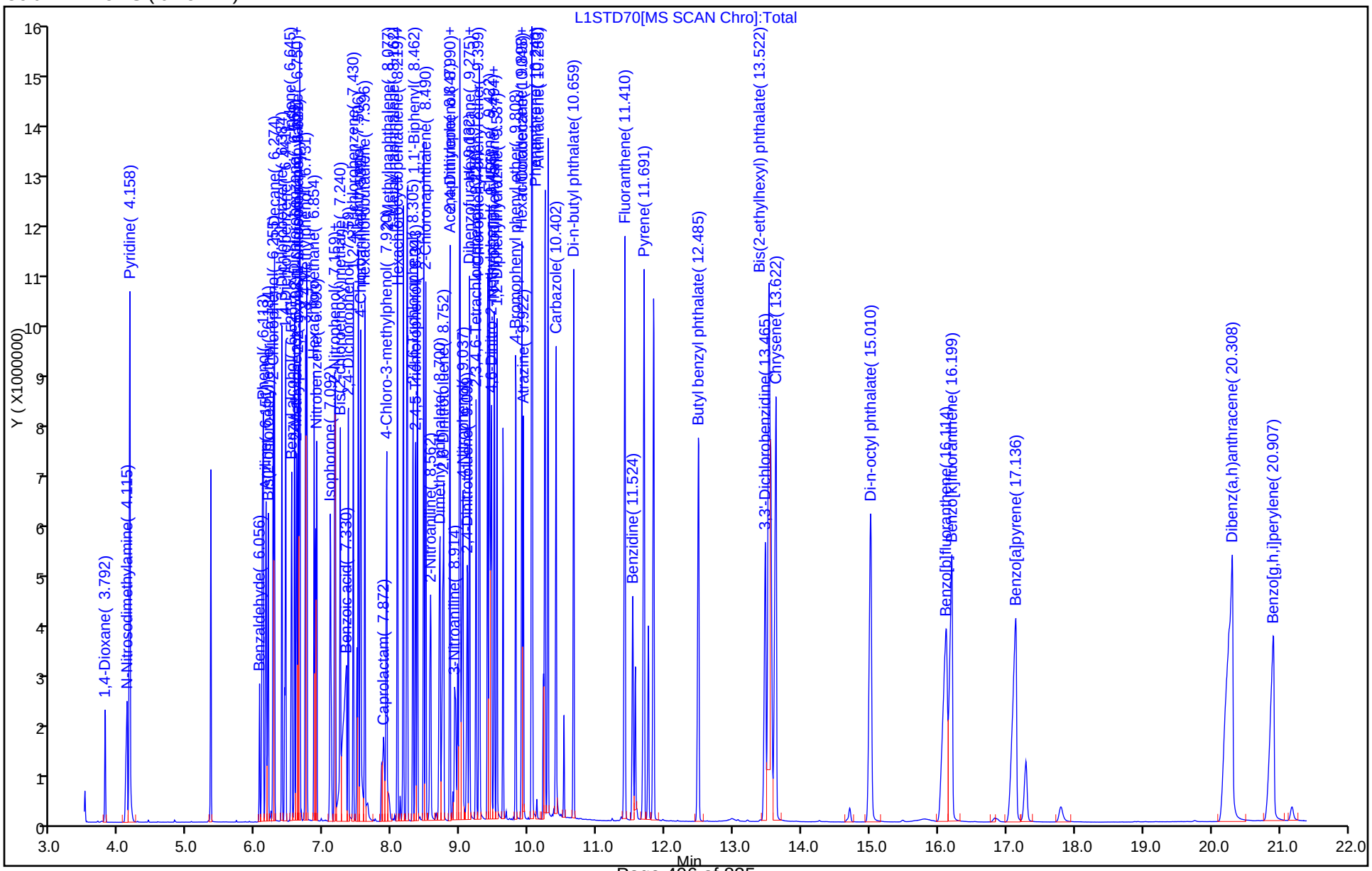
Report Date: 28-Sep-2017 10:35:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Injection Date:	27-Sep-2017 17:56:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	12
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID (1): CCVIS 500-407918/2 Instrument ID (1): CMS12

GC Column (1): ZB5MS ID: 0.25(mm) Date Analyzed (1): 11/01/2017 11:10

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol (Surr)	4.48	100.0
Benzaldehyde	5.20	100.0
Phenol-d5 (Surr)	5.31	100.0
Phenol	5.32	100.0
Bis(2-chloroethyl)ether	5.35	100.0
2-Chlorophenol	5.41	100.0
2,2'-oxybis[1-chloropropane]	5.80	100.0
2-Methylphenol	5.81	100.0
Acetophenone	5.91	100.0
N-Nitrosodi-n-propylamine	5.92	100.0
3 & 4 Methylphenol	5.94	100.0
Hexachloroethane	5.99	100.0
Nitrobenzene-d5 (Surr)	6.03	100.0
Nitrobenzene	6.05	100.0
Isophorone	6.25	100.0
2-Nitrophenol	6.32	100.0
2,4-Dimethylphenol	6.37	100.0
Bis(2-chloroethoxy)methane	6.42	100.0
2,4-Dichlorophenol	6.52	100.0
Naphthalene	6.65	100.0
4-Chloroaniline	6.70	100.0
Hexachlorobutadiene	6.75	100.0
Caprolactam	7.03	100.0
4-Chloro-3-methylphenol	7.11	100.0
2-Methylnaphthalene	7.22	100.0
Hexachlorocyclopentadiene	7.36	100.0
2,4,6-Trichlorophenol	7.46	100.0
2,4,5-Trichlorophenol	7.50	100.0
2-Fluorobiphenyl (Surr)	7.52	100.0
1,1'-Biphenyl	7.60	100.0
2-Chloronaphthalene	7.62	100.0
2-Nitroaniline	7.71	100.0
Dimethyl phthalate	7.86	100.0
2,6-Dinitrotoluene	7.91	100.0
Acenaphthylene	7.96	100.0
3-Nitroaniline	8.06	100.0
Acenaphthene	8.11	100.0
2,4-Dinitrophenol	8.14	100.0
4-Nitrophenol	8.23	100.0
2,4-Dinitrotoluene	8.24	100.0
Dibenzofuran	8.25	100.0
Diethyl phthalate	8.44	100.0
4-Chlorophenyl phenyl ether	8.53	100.0
Fluorene	8.53	100.0
4-Nitroaniline	8.56	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID (1): CCVIS 500-407918/2 Instrument ID (1): CMS12

GC Column (1): ZB5MS ID: 0.25(mm) Date Analyzed (1): 11/01/2017 11:10

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	8.59	100.0
N-Nitrosodiphenylamine	8.63	100.0
2,4,6-Tribromophenol (Surr)	8.74	100.0
4-Bromophenyl phenyl ether	8.93	100.0
Hexachlorobenzene	8.99	100.0
Atrazine	9.07	100.0
Pentachlorophenol	9.16	100.0
Phenanthrene	9.33	100.0
Anthracene	9.37	100.0
Carbazole	9.50	100.0
Di-n-butyl phthalate	9.77	100.0
Fluoranthene	10.31	100.0
Pyrene	10.51	100.0
Terphenyl-d14 (Surr)	10.65	100.0
Butyl benzyl phthalate	11.17	100.0
3,3'-Dichlorobenzidine	11.85	100.0
Benzo[a]anthracene	11.87	100.0
Bis(2-ethylhexyl) phthalate	11.93	100.0
Chrysene	11.93	100.0
Di-n-octyl phthalate	12.99	100.0
Benzo[b]fluoranthene	13.64	49.90
Benzo[k]fluoranthene	13.70	100.0
Benzo[a]pyrene	14.28	100.0
Indeno[1,2,3-cd]pyrene	17.13	100.0
Dibenz(a,h)anthracene	17.24	100.0

Resolution Report

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12C1101.D				
Injection Date:	01-Nov-2017 11:10:30	Instrument ID:	CMS12		
Lims ID:	ccvis				
Client ID:					
Operator ID:	AD	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

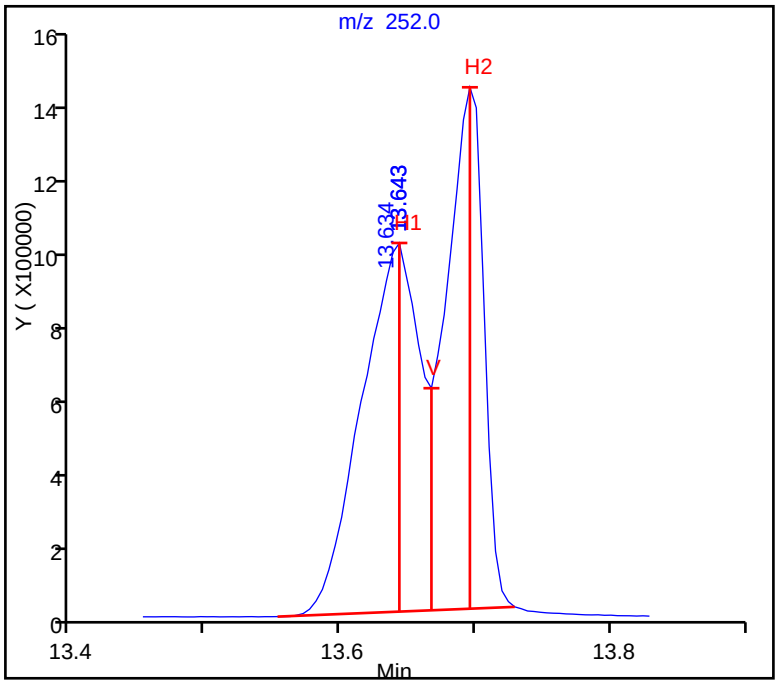
156 Benzo[b]fluoranthene - 157 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 604087
H1(156 Benzo[b]fluoranthen) = 1002677
H2(157 Benzo[k]fluoranthen) = 1418286

Version D: %R = 49.9 <= 50.0
Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: ICV 500-402944/13 Calibration Date: 09/27/2017 18:26

Instrument ID: CMS12 Calib Start Date: 09/27/2017 13:02

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 09/27/2017 17:56

Lab File ID: L1ICV.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Lin1		0.1561	0.0100	<32.0	10.0	-63.6*	30.0
Phenol	Ave	1.329	1.389	0.8000	10.5	10.0	4.6	30.0
Bis(2-chloroethyl)ether	Ave	1.197	1.100	0.7000	9.19	10.0	-8.1	30.0
2-Chlorophenol	Ave	1.216	1.226	0.8000	10.1	10.0	0.8	30.0
2-Methylphenol	Ave	0.9165	0.8945	0.7000	9.76	10.0	-2.4	30.0
2,2'-oxybis[1-chloropropane]	Ave	3.919	3.095	0.0100	7.90	10.0	-21.0	30.0
3 & 4 Methylphenol	Ave	1.118	1.085	0.6000	9.70	10.0	-3.0	30.0
N-Nitrosodi-n-propylamine	Ave	0.8054	0.7134	0.5000	8.86	10.0	-11.4	30.0
Acetophenone	Ave	1.645	1.453	0.0100	8.83	10.0	-11.7	30.0
Hexachloroethane	Ave	0.6060	0.5645	0.3000	9.32	10.0	-6.8	30.0
Nitrobenzene	Ave	0.2860	0.2948	0.2000	10.3	10.0	3.1	30.0
Isophorone	Ave	0.5682	0.5252	0.4000	9.24	10.0	-7.6	30.0
2-Nitrophenol	Ave	0.1743	0.1730	0.1000	9.93	10.0	-0.7	30.0
2,4-Dimethylphenol	Ave	0.2761	0.2131	0.2000	7.72	10.0	-22.8	30.0
Bis(2-chloroethoxy)methane	Ave	0.3611	0.3373	0.3000	9.34	10.0	-6.6	30.0
2,4-Dichlorophenol	Ave	0.2684	0.2624	0.2000	9.78	10.0	-2.2	30.0
Naphthalene	Ave	0.9313	0.8504	0.7000	9.13	10.0	-8.7	30.0
4-Chloroaniline	Ave	0.4084	0.3497	0.0100	8.56	10.0	-14.4	30.0
Hexachlorobutadiene	Ave	0.2016	0.1970	0.0100	9.77	10.0	-2.3	30.0
Caprolactam	Ave	0.0984	0.0975	0.0100	9.91	10.0	-0.9	30.0
4-Chloro-3-methylphenol	Ave	0.2468	0.2427	0.2000	9.83	10.0	-1.7	30.0
2-Methylnaphthalene	Ave	0.6643	0.5851	0.4000	8.81	10.0	-11.9	30.0
Hexachlorocyclopentadiene	Ave	0.4696	0.3606	0.0500	7.68	10.0	-23.2	30.0
2,4,6-Trichlorophenol	Ave	0.4147	0.4246	0.2000	10.2	10.0	2.4	30.0
2,4,5-Trichlorophenol	Ave	0.4278	0.4334	0.2000	10.1	10.0	1.3	30.0
1,1'-Biphenyl	Ave	1.455	1.388	0.0100	9.54	10.0	-4.6	30.0
2-Chloronaphthalene	Ave	1.201	1.165	0.8000	9.69	10.0	-3.1	30.0
2-Nitroaniline	Ave	0.3622	0.3639	0.0100	10.0	10.0	0.5	30.0
Dimethyl phthalate	Ave	1.380	1.336	0.0100	9.68	10.0	-3.2	30.0
2,6-Dinitrotoluene	Ave	0.2882	0.3115	0.2000	10.8	10.0	8.1	30.0
Acenaphthylene	Ave	1.921	1.806	0.9000	9.40	10.0	-6.0	30.0
3-Nitroaniline	Ave	0.2751	0.2607	0.0100	9.48	10.0	-5.2	30.0
2,4-Dinitrophenol	Ave	0.2035	0.2101	0.0100	20.6	20.0	3.2	30.0
Acenaphthene	Ave	1.236	1.158	0.9000	9.37	10.0	-6.3	30.0
4-Nitrophenol	Ave	0.1635	0.1729	0.0100	21.2	20.0	5.8	30.0
2,4-Dinitrotoluene	Ave	0.3861	0.4133	0.2000	10.7	10.0	7.0	30.0
Dibenzofuran	Ave	1.734	1.631	0.8000	9.41	10.0	-5.9	30.0
Diethyl phthalate	Ave	1.322	1.232	0.0100	9.32	10.0	-6.8	30.0
4-Chlorophenyl phenyl ether	Ave	0.6830	0.6571	0.4000	9.62	10.0	-3.8	30.0
Fluorene	Ave	1.372	1.281	0.9000	9.34	10.0	-6.6	30.0
4-Nitroaniline	Ave	0.2567	0.2275	0.0100	8.86	10.0	-11.4	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: ICV 500-402944/13 Calibration Date: 09/27/2017 18:26

Instrument ID: CMS12 Calib Start Date: 09/27/2017 13:02

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 09/27/2017 17:56

Lab File ID: L1ICV.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4,6-Dinitro-2-methylphenol	Ave	0.1377	0.1395	0.0100	20.3	20.0	1.3	30.0
N-Nitrosodiphenylamine	Ave	0.4969	0.4639	0.0100	9.34	10.0	-6.6	30.0
4-Bromophenyl phenyl ether	Ave	0.2339	0.2241	0.1000	9.58	10.0	-4.2	30.0
Hexachlorobenzene	Ave	0.2807	0.2777	0.1000	9.89	10.0	-1.1	30.0
Atrazine	Ave	0.1763	0.1582	0.0100	8.97	10.0	-10.3	30.0
Pentachlorophenol	Ave	0.1735	0.1861	0.0500	21.4	20.0	7.2	30.0
Phenanthrene	Ave	1.026	0.9557	0.7000	9.31	10.0	-6.9	30.0
Anthracene	Ave	1.057	0.9735	0.7000	9.21	10.0	-7.9	30.0
Carbazole	Ave	0.9034	0.8477	0.0100	9.38	10.0	-6.2	30.0
Di-n-butyl phthalate	Ave	1.196	1.139	0.0100	9.52	10.0	-4.8	30.0
Fluoranthene	Ave	1.161	1.120	0.6000	9.65	10.0	-3.5	30.0
Pyrene	Ave	1.150	1.129	0.6000	9.82	10.0	-1.8	30.0
Butyl benzyl phthalate	Ave	0.5428	0.5449	0.0100	10.0	10.0	0.4	30.0
3,3'-Dichlorobenzidine	Ave	0.3991	0.3802	0.0100	9.53	10.0	-4.7	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.7741	0.7733	0.0100	9.99	10.0	-0.1	30.0
Benzo[a]anthracene	Ave	1.137	1.090	0.8000	9.59	10.0	-4.1	30.0
Chrysene	Ave	1.082	1.062	0.7000	9.82	10.0	-1.8	30.0
Di-n-octyl phthalate	Ave	1.356	1.373	0.0100	10.1	10.0	1.2	30.0
Benzo[b]fluoranthene	Ave	1.002	1.105	0.7000	11.0	10.0	10.3	30.0
Benzo[k]fluoranthene	Ave	1.004	1.106	0.7000	11.0	10.0	10.2	30.0
Benzo[a]pyrene	Ave	0.9479	1.000	0.7000	10.5	10.0	5.5	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.182	1.224	0.5000	10.4	10.0	3.6	30.0
Dibenz(a,h)anthracene	Ave	0.9359	1.034	0.4000	11.0	10.0	10.5	30.0
Benzo[g,h,i]perylene	Ave	0.9780	0.9749	0.5000	9.97	10.0	-0.3	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1ICV.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 27-Sep-2017 18:26:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: icv
Misc. Info.: 500-0048054-013
Operator ID: DA Instrument ID: CMS12
Sublist:

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 11:16:42 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: rynkarg Date: 28-Sep-2017 11:16:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.421	6.422	-0.001	96	299883	3.20	3.20	
* 2 Naphthalene-d8	136	7.482	7.482	0.000	99	1176792	3.20	3.20	
* 3 Acenaphthene-d10	164	8.956	8.956	0.000	97	584917	3.20	3.20	
* 4 Phenanthrene-d10	188	10.212	10.212	0.000	97	1155594	3.20	3.20	
* 5 Chrysene-d12	240	13.550	13.550	0.000	99	1188691	3.20	3.20	
* 6 Perylene-d12	264	17.274	17.269	0.005	98	1262084	3.20	3.20	
13 1,4-Dioxane	88	3.796	3.792	0.004	87	329717	10.0	10.3	
14 N-Nitrosodimethylamine	42	4.110	4.101	0.009	70	985431	10.0	9.72	
15 Pyridine	79	4.153	4.153	0.000	77	2141146	20.0	21.0	
23 Benzaldehyde	77	6.055	6.055	0.000	88	146268	10.0	3.64	
25 Phenol	94	6.098	6.103	-0.005	92	1301807	10.0	10.5	
26 Aniline	93	6.146	6.146	0.000	95	1477251	10.0	8.26	
27 Bis(2-chloroethyl)ether	93	6.179	6.179	0.000	92	1030545	10.0	9.19	
29 2-Chlorophenol	128	6.250	6.250	0.000	98	1148975	10.0	10.1	
30 n-Decane	43	6.269	6.269	0.000	91	1839356	10.0	10.2	
31 1,3-Dichlorobenzene	146	6.383	6.379	0.004	99	1248711	10.0	9.43	
32 1,4-Dichlorobenzene	146	6.436	6.436	0.000	94	1267238	10.0	9.46	
33 Benzyl alcohol	108	6.521	6.517	0.004	92	736802	10.0	9.41	
34 1,2-Dichlorobenzene	146	6.569	6.569	0.000	98	1237312	10.0	9.37	
36 2-Methylphenol	107	6.597	6.593	0.004	95	838253	10.0	9.76	
35 2,2'-oxybis[1-chloropropan	45	6.621	6.621	0.000	90	2900327	10.0	7.90	
37 Indene	116	6.645	6.640	0.005	90	3183726	20.0	16.0	
42 3 & 4 Methylphenol	108	6.721	6.716	0.005	94	1016352	10.0	9.70	
41 N-Nitrosodi-n-propylamine	70	6.735	6.735	0.000	91	668519	10.0	8.86	
40 Acetophenone	105	6.745	6.740	0.005	93	1361470	10.0	8.83	
44 Hexachloroethane	117	6.854	6.854	0.000	95	529037	10.0	9.32	
45 Nitrobenzene	77	6.888	6.888	0.000	95	1083923	10.0	10.3	
47 Isophorone	82	7.083	7.083	-0.001	98	1931429	10.0	9.24	
48 2-Nitrophenol	139	7.154	7.149	0.005	91	636080	10.0	9.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
49 2,4-Dimethylphenol	122	7.163	7.159	0.004	94	783620	10.0	7.72	
51 Bis(2-chloroethoxy)methane	93	7.235	7.235	0.000	94	1240431	10.0	9.34	
52 Benzoic acid	122	7.301	7.287	0.014	87	1581304	20.0	20.6	
54 2,4-Dichlorophenol	162	7.354	7.349	0.005	97	964972	10.0	9.78	
55 1,2,4-Trichlorobenzene	180	7.430	7.425	0.005	95	1146027	10.0	9.95	
56 Naphthalene	128	7.501	7.501	0.000	98	3127279	10.0	9.13	
57 4-Chloroaniline	127	7.525	7.520	0.005	96	1286092	10.0	8.56	
58 2,6-Dichlorophenol	162	7.539	7.534	0.005	97	944246	10.0	9.41	
60 Hexachlorobutadiene	225	7.596	7.596	0.000	95	724325	10.0	9.77	
64 Caprolactam	113	7.843	7.839	0.004	84	358357	10.0	9.91	
65 4-Chloro-3-methylphenol	107	7.915	7.910	0.005	91	892401	10.0	9.83	
67 2-Methylnaphthalene	142	8.072	8.072	0.000	95	2151834	10.0	8.81	
68 1-Methylnaphthalene	142	8.162	8.157	0.005	94	2045263	10.0	8.93	
69 Hexachlorocyclopentadiene	237	8.210	8.210	0.000	98	659161	10.0	7.68	
70 1,2,4,5-Tetrachlorobenzene	216	8.219	8.219	0.000	96	1138994	10.0	9.77	
72 2,4,6-Trichlorophenol	196	8.300	8.300	0.000	92	776040	10.0	10.2	
73 2,4,5-Trichlorophenol	196	8.333	8.333	0.000	96	792228	10.0	10.1	
75 1,1'-Biphenyl	154	8.457	8.457	0.000	95	2537674	10.0	9.54	
76 2-Chloronaphthalene	162	8.485	8.485	0.000	97	2128544	10.0	9.69	
78 2-Nitroaniline	65	8.557	8.552	0.005	87	665115	10.0	10.0	
82 Dimethyl phthalate	163	8.690	8.690	0.000	97	2442219	10.0	9.68	
83 1,3-Dinitrobenzene	168	8.728	8.723	0.005	83	401764	10.0	10.4	
84 2,6-Dinitrotoluene	165	8.747	8.742	0.005	92	569283	10.0	10.8	
85 Acenaphthylene	152	8.842	8.842	0.000	98	3300494	10.0	9.40	
86 3-Nitroaniline	138	8.904	8.904	0.000	96	476603	10.0	9.48	
88 2,4-Dinitrophenol	184	8.985	8.985	0.000	74	767878	20.0	20.6	
87 Acenaphthene	154	8.985	8.985	0.000	94	2117234	10.0	9.37	
89 4-Nitrophenol	109	9.023	9.018	0.005	99	632066	20.0	21.2	
91 2,4-Dinitrotoluene	165	9.094	9.089	0.005	93	755363	10.0	10.7	
92 Dibenzofuran	168	9.127	9.127	0.000	97	2982006	10.0	9.41	
95 2,3,4,6-Tetrachlorophenol	232	9.227	9.223	0.004	72	709997	10.0	9.97	
98 Hexadecane	57	9.270	9.270	0.000	80	1371985	10.0	9.21	
97 Diethyl phthalate	149	9.275	9.270	0.005	97	2251959	10.0	9.32	
100 4-Chlorophenyl phenyl ethe	204	9.394	9.394	0.000	91	1201054	10.0	9.62	
102 Fluorene	166	9.417	9.418	-0.001	94	2342378	10.0	9.34	
103 4-Nitroaniline	138	9.422	9.418	0.004	65	415786	10.0	8.86	
104 4,6-Dinitro-2-methylphenol	198	9.446	9.441	0.005	89	1007197	20.0	20.3	
105 Diphenylamine	169	9.489	9.489	0.000	93	1675270	8.50	7.89	
106 N-Nitrosodiphenylamine	169	9.489	9.489	0.000	65	1675270	10.0	9.34	
107 1,2-Diphenylhydrazine	77	9.532	9.527	0.005	94	2238208	10.0	9.68	
114 4-Bromophenyl phenyl ether	248	9.807	9.808	-0.001	64	809150	10.0	9.58	
117 Hexachlorobenzene	284	9.898	9.893	0.005	96	1002705	10.0	9.89	
118 Atrazine	200	9.917	9.912	0.005	76	571325	10.0	8.97	
123 n-Octadecane	43	10.040	10.036	0.004	95	1233903	10.0	9.74	
120 Pentachlorophenol	266	10.050	10.041	0.009	86	1343922	20.0	21.4	
126 Phenanthrene	178	10.235	10.236	-0.001	98	3451063	10.0	9.31	
127 Anthracene	178	10.278	10.278	0.000	99	3515422	10.0	9.21	
128 Carbazole	167	10.397	10.392	0.005	96	3061181	10.0	9.38	
130 Di-n-butyl phthalate	149	10.654	10.654	0.000	99	4113516	10.0	9.52	
135 Fluoranthene	202	11.405	11.401	0.004	99	4044663	10.0	9.65	
136 Benzidine	184	11.515	11.510	0.005	97	794154	10.0	5.24	
137 Pyrene	202	11.686	11.681	0.005	96	4194683	10.0	9.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
145 Butyl benzyl phthalate	149	12.480	12.480	0.000	95	2024014	10.0	10.0	
147 3,3'-Dichlorobenzidine	252	13.450	13.450	0.000	99	1412359	10.0	9.53	
150 Bis(2-ethylhexyl) phthalat	149	13.512	13.512	0.000	96	2872345	10.0	9.99	
149 Benzo[a]anthracene	228	13.531	13.531	0.000	99	4048907	10.0	9.59	
151 Chrysene	228	13.612	13.607	0.005	97	3946067	10.0	9.82	
154 Di-n-octyl phthalate	149	15.005	15.001	0.004	97	4956852	10.0	10.1	
156 Benzo[b]fluoranthene	252	16.090	16.080	0.010	98	4359517	10.0	11.0	
157 Benzo[k]fluoranthene	252	16.175	16.161	0.014	99	4363608	10.0	11.0	
158 Benzo[a]pyrene	252	17.107	17.098	0.009	97	3943356	10.0	10.5	
162 Indeno[1,2,3-cd]pyrene	276	20.213	20.208	0.005	99	4828108	10.0	10.4	
163 Dibenz(a,h)anthracene	278	20.284	20.275	0.009	94	4077147	10.0	11.0	
164 Benzo[g,h,i]perylene	276	20.883	20.874	0.009	79	3845192	10.0	9.97	

Reagents:

SMlst1_5uLICV_00037 Amount Added: 1.00 Units: mL

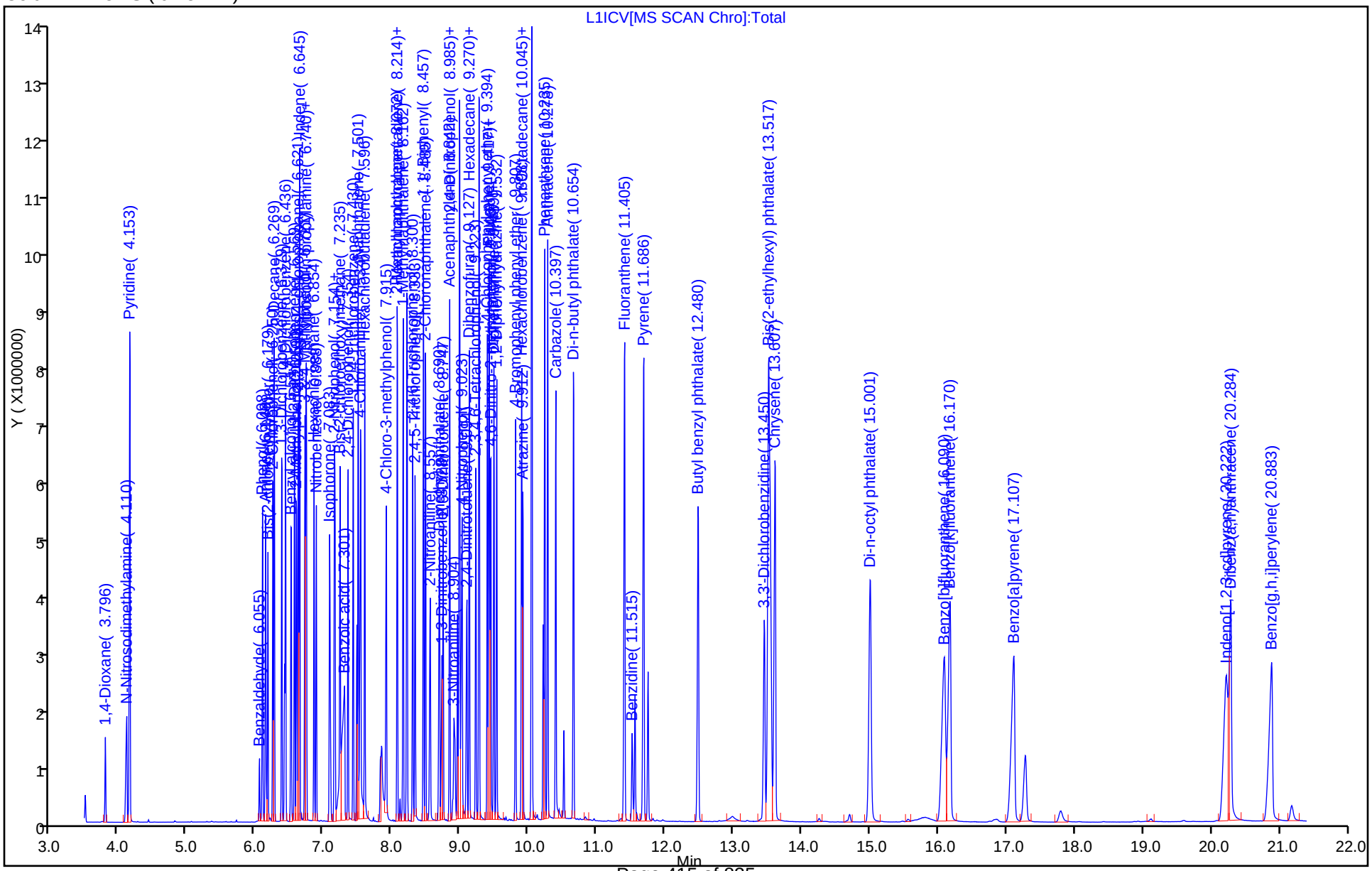
Report Date: 28-Sep-2017 11:16:46 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1ICV.D

Injection Date:	27-Sep-2017 18:26:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	icv			Worklist Smp#:	13
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: CCVIS 500-407918/2 Calibration Date: 11/01/2017 11:10

Instrument ID: CMS12 Calib Start Date: 09/27/2017 13:02

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 09/27/2017 17:56

Lab File ID: 12C1101.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Lin1		0.3472	0.0100	9.32	8.00	16.4	20.0
Phenol	Ave	1.329	1.348	0.8000	8.12	8.00	1.5	20.0
Bis(2-chloroethyl)ether	Ave	1.197	0.9146	0.7000	6.11	8.00	-23.6*	20.0
2-Chlorophenol	Ave	1.216	1.179	0.8000	7.75	8.00	-3.1	20.0
2,2'-oxybis[1-chloropropane]	Ave	3.919	1.741	0.0100	3.55	8.00	-55.6*	20.0
2-Methylphenol	Ave	0.9165	0.8399	0.7000	7.33	8.00	-8.4	20.0
Acetophenone	Ave	1.645	1.453	0.0100	7.07	8.00	-11.7	20.0
N-Nitrosodi-n-propylamine	Ave	0.8054	0.7446	0.5000	7.40	8.00	-7.6	20.0
3 & 4 Methylphenol	Ave	1.118	0.997	0.6000	7.13	8.00	-10.8	20.0
Hexachloroethane	Ave	0.6060	0.6308	0.3000	8.33	8.00	4.1	20.0
Nitrobenzene	Ave	0.2860	0.3343	0.2000	9.35	8.00	16.9	20.0
Isophorone	Ave	0.5682	0.5443	0.4000	7.66	8.00	-4.2	20.0
2-Nitrophenol	Ave	0.1743	0.1779	0.1000	8.17	8.00	2.1	20.0
2,4-Dimethylphenol	Ave	0.2761	0.2723	0.2000	7.89	8.00	-1.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.3611	0.3420	0.3000	7.58	8.00	-5.3	20.0
2,4-Dichlorophenol	Ave	0.2684	0.3106	0.2000	9.26	8.00	15.7	20.0
Naphthalene	Ave	0.9313	0.9635	0.7000	8.28	8.00	3.5	20.0
4-Chloroaniline	Ave	0.4084	0.4154	0.0100	8.14	8.00	1.7	20.0
Hexachlorobutadiene	Ave	0.2016	0.2566	0.0100	10.2	8.00	27.3*	20.0
Caprolactam	Ave	0.0984	0.0801	0.0100	6.51	8.00	-18.6	20.0
4-Chloro-3-methylphenol	Ave	0.2468	0.2673	0.2000	8.66	8.00	8.3	20.0
2-Methylnaphthalene	Ave	0.6643	0.6795	0.4000	8.18	8.00	2.3	20.0
Hexachlorocyclopentadiene	Ave	0.4696	0.5523	0.0500	9.41	8.00	17.6	20.0
2,4,6-Trichlorophenol	Ave	0.4147	0.4720	0.2000	9.11	8.00	13.8	20.0
2,4,5-Trichlorophenol	Ave	0.4278	0.4887	0.2000	9.14	8.00	14.3	20.0
1,1'-Biphenyl	Ave	1.455	1.565	0.0100	8.60	8.00	7.6	20.0
2-Chloronaphthalene	Ave	1.201	1.268	0.8000	8.44	8.00	5.5	20.0
2-Nitroaniline	Ave	0.3622	0.3870	0.0100	8.55	8.00	6.8	20.0
Dimethyl phthalate	Ave	1.380	1.405	0.0100	8.14	8.00	1.8	20.0
2,6-Dinitrotoluene	Ave	0.2882	0.3161	0.2000	8.78	8.00	9.7	20.0
Acenaphthylene	Ave	1.921	1.985	0.9000	8.27	8.00	3.3	20.0
3-Nitroaniline	Ave	0.2751	0.2789	0.0100	8.11	8.00	1.4	20.0
Acenaphthene	Ave	1.236	1.167	0.9000	7.55	8.00	-5.6	20.0
2,4-Dinitrophenol	Ave	0.2035	0.2189	0.0100	17.2	16.0	7.6	20.0
4-Nitrophenol	Ave	0.1635	0.2180	0.0100	21.3	16.0	33.4*	20.0
2,4-Dinitrotoluene	Ave	0.3861	0.4329	0.2000	8.97	8.00	12.1	20.0
Dibenzofuran	Ave	1.734	1.832	0.8000	8.45	8.00	5.7	20.0
Diethyl phthalate	Ave	1.322	1.475	0.0100	8.92	8.00	11.6	20.0
4-Chlorophenyl phenyl ether	Ave	0.6830	0.7526	0.4000	8.82	8.00	10.2	20.0
Fluorene	Ave	1.372	1.476	0.9000	8.61	8.00	7.6	20.0
4-Nitroaniline	Ave	0.2567	0.2237	0.0100	6.97	8.00	-12.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: CCVIS 500-407918/2 Calibration Date: 11/01/2017 11:10

Instrument ID: CMS12 Calib Start Date: 09/27/2017 13:02

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 09/27/2017 17:56

Lab File ID: 12C1101.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4,6-Dinitro-2-methylphenol	Ave	0.1377	0.1429	0.0100	16.6	16.0	3.8	20.0
N-Nitrosodiphenylamine	Ave	0.4969	0.5070	0.0100	8.16	8.00	2.0	20.0
4-Bromophenyl phenyl ether	Ave	0.2339	0.2715	0.1000	9.28	8.00	16.1	20.0
Hexachlorobenzene	Ave	0.2807	0.3555	0.1000	10.1	8.00	26.6*	20.0
Atrazine	Ave	0.1763	0.1811	0.0100	8.22	8.00	2.7	20.0
Pentachlorophenol	Ave	0.1735	0.1893	0.0500	17.5	16.0	9.1	20.0
Phenanthrene	Ave	1.026	1.067	0.7000	8.32	8.00	4.0	20.0
Anthracene	Ave	1.057	1.104	0.7000	8.35	8.00	4.4	20.0
Carbazole	Ave	0.9034	0.9172	0.0100	8.12	8.00	1.5	20.0
Di-n-butyl phthalate	Ave	1.196	1.204	0.0100	8.05	8.00	0.7	20.0
Fluoranthene	Ave	1.161	1.247	0.6000	8.59	8.00	7.4	20.0
Pyrene	Ave	1.150	1.113	0.6000	7.74	8.00	-3.2	20.0
Butyl benzyl phthalate	Ave	0.5428	0.5111	0.0100	7.53	8.00	-5.8	20.0
3,3'-Dichlorobenzidine	Ave	0.3991	0.4130	0.0100	8.28	8.00	3.5	20.0
Benzo[a]anthracene	Ave	1.137	1.120	0.8000	7.88	8.00	-1.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7741	0.7296	0.0100	7.54	8.00	-5.8	20.0
Chrysene	Ave	1.082	1.066	0.7000	7.88	8.00	-1.5	20.0
Di-n-octyl phthalate	Ave	1.356	1.387	0.0100	8.18	8.00	2.3	20.0
Benzo[b]fluoranthene	Ave	1.002	1.109	0.7000	8.86	8.00	10.7	20.0
Benzo[k]fluoranthene	Ave	1.004	1.045	0.7000	8.33	8.00	4.2	20.0
Benzo[a]pyrene	Ave	0.9479	1.040	0.7000	8.78	8.00	9.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.182	1.373	0.5000	9.29	8.00	16.2	20.0
Dibenz(a,h)anthracene	Ave	0.9359	1.114	0.4000	9.52	8.00	19.0	20.0
Benzo[g,h,i]perylene	Ave	0.9780	1.147	0.5000	9.38	8.00	17.3	20.0
2-Fluorophenol (Surr)	Qua2		0.9716	0.0100	8.57	8.00	7.1	20.0
Phenol-d5 (Surr)	Lin1		1.215	0.0100	7.35	8.00	-8.2	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3137	0.3369	0.0100	8.59	8.00	7.4	20.0
2-Fluorobiphenyl (Surr)	Ave	1.346	1.440	0.0100	8.56	8.00	7.0	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.3108	0.4512	0.0100	11.6	8.00	45.2*	20.0
Terphenyl-d14 (Surr)	Ave	0.7818	0.7831	0.0100	8.01	8.00	0.2	20.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12C1101.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Nov-2017 11:10:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ccvis
Misc. Info.: 500-0048759-002
Operator ID: AD Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 01-Nov-2017 15:17:35 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: diaza Date: 01-Nov-2017 11:41:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.568	5.568	0.000	96	258790	3.20	3.20	s
* 2 Naphthalene-d8	136	6.629	6.629	0.000	100	880521	3.20	3.20	s
* 3 Acenaphthene-d10	164	8.075	8.075	0.000	97	453755	3.20	3.20	s
* 4 Phenanthrene-d10	188	9.302	9.302	0.000	97	897973	3.20	3.20	s
* 5 Chrysene-d12	240	11.889	11.889	0.000	99	1017902	3.20	3.20	s
* 6 Perylene-d12	264	14.385	14.385	0.000	99	1147279	3.20	3.20	s
$ 7 2-Fluorophenol	112	4.475	4.475	0.000	93	628584	8.00	8.57	
$ 8 Phenol-d5	99	5.307	5.307	0.000	94	786262	8.00	7.35	
$ 9 Nitrobenzene-d5	82	6.034	6.034	0.000	96	741664	8.00	8.59	
$ 10 2-Fluorobiphenyl	172	7.518	7.518	0.000	99	1632981	8.00	8.56	
$ 11 2,4,6-Tribromophenol	330	8.736	8.736	0.000	65	511862	8.00	11.6	
$ 12 Terphenyl-d14	244	10.647	10.647	0.000	100	1992710	8.00	8.01	
13 1,4-Dioxane	88	2.511	2.511	0.000	92	223187	8.00	8.08	
14 N-Nitrosodimethylamine	42	2.891	2.891	0.000	73	510546	8.00	5.83	
15 Pyridine	79	2.920	2.920	0.000	76	1226216	16.0	13.9	
23 Benzaldehyde	77	5.197	5.197	0.000	88	224598	8.00	9.32	
26 Aniline	93	5.302	5.302	0.000	95	1043526	8.00	6.76	
25 Phenol	94	5.316	5.316	0.000	95	872139	8.00	8.12	
27 Bis(2-chloroethyl)ether	93	5.354	5.354	0.000	91	591706	8.00	6.11	
29 2-Chlorophenol	128	5.407	5.407	0.000	96	762526	8.00	7.75	
30 n-Decane	43	5.454	5.454	0.000	89	843244	8.00	4.97	
31 1,3-Dichlorobenzene	146	5.526	5.526	0.000	98	892757	8.00	7.82	
32 1,4-Dichlorobenzene	146	5.587	5.587	0.000	94	915878	8.00	7.92	
33 Benzyl alcohol	108	5.706	5.706	0.000	90	433588	8.00	6.42	
34 1,2-Dichlorobenzene	146	5.711	5.711	0.000	97	873172	8.00	7.66	
37 Indene	116	5.792	5.792	0.000	89	2676977	16.0	15.6	
35 2,2'-oxybis[1-chloropropan	45	5.801	5.801	0.000	89	1126435	8.00	3.55	
36 2-Methylphenol	107	5.806	5.806	0.000	94	543399	8.00	7.33	
40 Acetophenone	105	5.911	5.911	0.000	93	940191	8.00	7.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	5.920	5.920	0.000	93	481733	8.00	7.40	
42 3 & 4 Methylphenol	108	5.935	5.935	0.000	93	644903	8.00	7.13	
44 Hexachloroethane	117	5.992	5.992	0.000	93	408105	8.00	8.33	
45 Nitrobenzene	77	6.049	6.049	0.000	96	735936	8.00	9.35	
47 Isophorone	82	6.253	6.253	0.000	98	1198175	8.00	7.66	
48 2-Nitrophenol	139	6.315	6.315	0.000	97	391596	8.00	8.17	
49 2,4-Dimethylphenol	122	6.367	6.367	0.000	97	599348	8.00	7.89	
51 Bis(2-chloroethoxy)methane	93	6.424	6.424	0.000	92	752740	8.00	7.58	
54 2,4-Dichlorophenol	162	6.524	6.524	0.000	95	683739	8.00	9.26	
52 Benzoic acid	122	6.539	6.539	0.000	84	712401	16.0	12.4	
55 1,2,4-Trichlorobenzene	180	6.581	6.581	0.000	95	800023	8.00	9.29	
56 Naphthalene	128	6.648	6.648	0.000	99	2120989	8.00	8.28	
57 4-Chloroaniline	127	6.695	6.695	0.000	96	914442	8.00	8.14	
58 2,6-Dichlorophenol	162	6.705	6.705	0.000	96	676401	8.00	9.01	
60 Hexachlorobutadiene	225	6.753	6.753	0.000	95	564841	8.00	10.2	
64 Caprolactam	113	7.028	7.028	0.000	88	176282	8.00	6.51	
65 4-Chloro-3-methylphenol	107	7.114	7.114	0.000	94	588446	8.00	8.66	
67 2-Methylnaphthalene	142	7.219	7.219	0.000	94	1495797	8.00	8.18	
68 1-Methylnaphthalene	142	7.299	7.299	0.000	94	1394027	8.00	8.13	
69 Hexachlorocyclopentadiene	237	7.356	7.356	0.000	96	626515	8.00	9.41	
70 1,2,4,5-Tetrachlorobenzene	216	7.361	7.361	0.000	96	920343	8.00	10.2	
72 2,4,6-Trichlorophenol	196	7.456	7.456	0.000	93	535402	8.00	9.11	
73 2,4,5-Trichlorophenol	196	7.499	7.499	0.000	95	554386	8.00	9.14	
75 1,1'-Biphenyl	154	7.604	7.604	0.000	94	1775635	8.00	8.60	
76 2-Chloronaphthalene	162	7.618	7.618	0.000	97	1438200	8.00	8.44	
78 2-Nitroaniline	65	7.708	7.708	0.000	82	438965	8.00	8.55	
82 Dimethyl phthalate	163	7.861	7.861	0.000	98	1593497	8.00	8.14	
83 1,3-Dinitrobenzene	168	7.889	7.889	0.000	82	240759	8.00	8.01	
84 2,6-Dinitrotoluene	165	7.908	7.908	0.000	92	358603	8.00	8.78	
85 Acenaphthylene	152	7.960	7.960	0.000	98	2251487	8.00	8.27	
86 3-Nitroaniline	138	8.056	8.056	0.000	91	316405	8.00	8.11	
87 Acenaphthene	154	8.108	8.108	0.000	90	1323499	8.00	7.55	
88 2,4-Dinitrophenol	184	8.141	8.141	0.000	74	496720	16.0	17.2	
89 4-Nitrophenol	109	8.227	8.227	0.000	86	494691	16.0	21.3	
91 2,4-Dinitrotoluene	165	8.241	8.241	0.000	92	491053	8.00	8.97	
92 Dibenzofuran	168	8.251	8.251	0.000	96	2078651	8.00	8.45	
95 2,3,4,6-Tetrachlorophenol	232	8.360	8.360	0.000	71	521479	8.00	9.44	
97 Diethyl phthalate	149	8.436	8.436	0.000	98	1672847	8.00	8.92	
98 Hexadecane	57	8.450	8.450	0.000	86	1061274	8.00	9.17	
100 4-Chlorophenyl phenyl ethe	204	8.526	8.526	0.000	92	853754	8.00	8.82	
102 Fluorene	166	8.531	8.531	0.000	93	1674232	8.00	8.61	
103 4-Nitroaniline	138	8.564	8.564	0.000	65	253765	8.00	6.97	
104 4,6-Dinitro-2-methylphenol	198	8.588	8.588	0.000	92	641633	16.0	16.6	
106 N-Nitrosodiphenylamine	169	8.626	8.626	0.000	64	1138097	8.00	8.16	
105 Diphenylamine	169	8.626	8.626	0.000	93	1138097	6.80	6.90	
107 1,2-Diphenylhydrazine	77	8.660	8.660	0.000	94	1484480	8.00	8.27	
114 4-Bromophenyl phenyl ether	248	8.926	8.926	0.000	63	609376	8.00	9.28	
117 Hexachlorobenzene	284	8.992	8.992	0.000	97	797987	8.00	10.1	
118 Atrazine	200	9.068	9.068	0.000	71	406597	8.00	8.22	
120 Pentachlorophenol	266	9.164	9.164	0.000	87	849808	16.0	17.5	
123 n-Octadecane	43	9.206	9.206	0.000	94	840362	8.00	8.21	
126 Phenanthrene	178	9.325	9.325	0.000	97	2395422	8.00	8.32	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	9.368	9.368	0.000	98	2477399	8.00	8.35	
128 Carbazole	167	9.496	9.496	0.000	96	2058944	8.00	8.12	
130 Di-n-butyl phthalate	149	9.772	9.772	0.000	99	2703791	8.00	8.05	
135 Fluoranthene	202	10.310	10.310	0.000	97	2799368	8.00	8.59	
136 Benzidine	184	10.419	10.419	0.000	97	897235	8.00	6.91	
137 Pyrene	202	10.509	10.509	0.000	94	2832775	8.00	7.74	
145 Butyl benzyl phthalate	149	11.166	11.166	0.000	95	1300502	8.00	7.53	
147 3,3'-Dichlorobenzidine	252	11.846	11.846	0.000	98	1050952	8.00	8.28	
149 Benzo[a]anthracene	228	11.874	11.874	0.000	97	2849198	8.00	7.88	
150 Bis(2-ethylhexyl) phthalat	149	11.927	11.927	0.000	94	1856676	8.00	7.54	
151 Chrysene	228	11.927	11.927	0.000	96	2713422	8.00	7.88	
154 Di-n-octyl phthalate	149	12.992	12.992	0.000	99	3114535	8.00	8.18	
156 Benzo[b]fluoranthene	252	13.643	13.643	0.000	96	3181868	8.00	8.86	
157 Benzo[k]fluoranthene	252	13.696	13.696	0.000	98	2998611	8.00	8.33	
158 Benzo[a]pyrene	252	14.281	14.281	0.000	95	2984329	8.00	8.78	
162 Indeno[1,2,3-cd]pyrene	276	17.134	17.134	0.000	96	3938165	8.00	9.29	
163 Dibenz(a,h)anthracene	278	17.243	17.243	0.000	90	3195709	8.00	9.52	
164 Benzo[g,h,i]perylene	276	17.990	17.990	0.000	77	3290600	8.00	9.38	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

SMlst1_5uLL8X_00115 Amount Added: 1.00 Units: mL

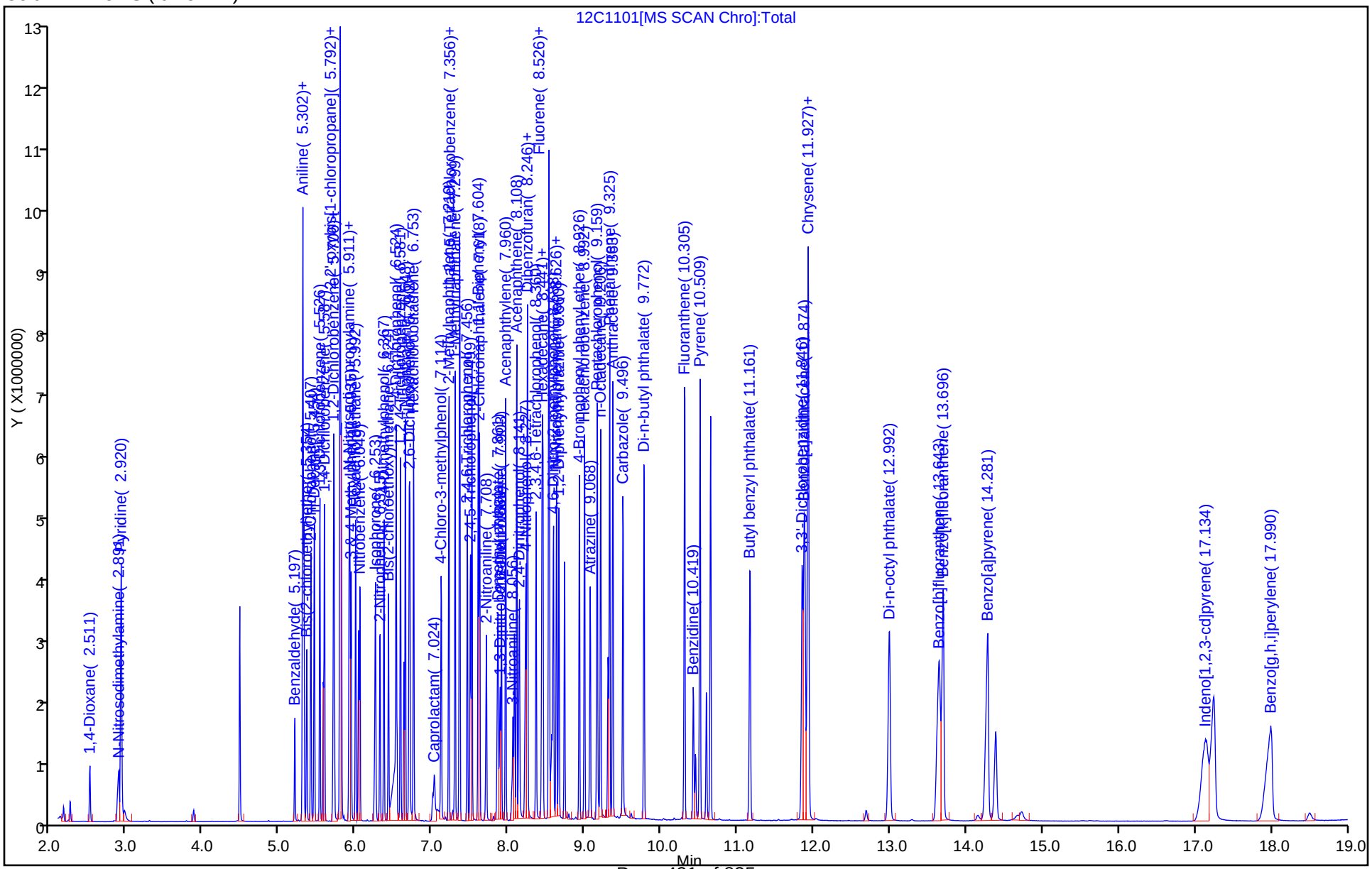
Report Date: 01-Nov-2017 15:17:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12C1101.D

Injection Date:	01-Nov-2017 11:10:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: CCVL 500-407918/4 Calibration Date: 11/01/2017 12:04

Instrument ID: CMS12 Calib Start Date: 09/27/2017 13:02

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 09/27/2017 17:56

Lab File ID: 12C1101b.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bis(2-chloroethyl)ether	Ave	1.197	0.9685	0.7000	1.62	2.00	-19.1	100.0
2,2'-oxybis[1-chloropropane]	Ave	3.919	2.157	0.0100	1.10	2.00	-45.0	100.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12C1101b.D
Lims ID: ccvl ppm10
Client ID:
Sample Type: CCVL
Inject. Date: 01-Nov-2017 12:04:30 ALS Bottle#: 2 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ccvl 10ppm
Misc. Info.: 500-0048759-004
Operator ID: AD Instrument ID: CMS12
Sublist: chrom-12-LVI8270*sub80

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 01-Nov-2017 15:19:02 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: diaza Date: 01-Nov-2017 13:01:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.568	5.568	0.000	95	235036	3.20	3.20	s
* 2 Naphthalene-d8	136	6.624	6.629	-0.005	99	823496	3.20	3.20	s
* 3 Acenaphthene-d10	164	8.075	8.075	0.000	98	421320	3.20	3.20	s
* 4 Phenanthrene-d10	188	9.297	9.302	-0.005	97	861523	3.20	3.20	s
* 5 Chrysene-d12	240	11.879	11.889	-0.010	99	919839	3.20	3.20	s
* 6 Perylene-d12	264	14.371	14.385	-0.014	99	1036219	3.20	3.20	s
$ 7 2-Fluorophenol	112	4.475	4.475	0.000	93	121962	2.00	2.27	
$ 8 Phenol-d5	99	5.297	5.307	-0.010	56	188247	2.00	2.05	
$ 9 Nitrobenzene-d5	82	6.025	6.034	-0.009	97	184927	2.00	2.29	
$ 10 2-Fluorobiphenyl	172	7.513	7.518	-0.005	99	407767	2.00	2.30	
$ 11 2,4,6-Tribromophenol	330	8.726	8.736	-0.010	65	123008	2.00	3.01	
$ 12 Terphenyl-d14	244	10.638	10.647	-0.009	99	482006	2.00	2.14	
13 1,4-Dioxane	88	2.506	2.511	-0.005	92	39818	2.00	1.59	
14 N-Nitrosodimethylamine	42	2.863	2.891	-0.028	72	122100	2.00	1.54	
15 Pyridine	79	2.910	2.920	-0.010	74	260163	4.00	3.26	
23 Benzaldehyde	77	5.193	5.197	-0.004	86	82361	2.00	1.59	
26 Aniline	93	5.293	5.302	-0.009	97	251906	2.00	1.80	
25 Phenol	94	5.307	5.316	-0.009	96	202208	2.00	2.07	
27 Bis(2-chloroethyl)ether	93	5.345	5.354	-0.009	89	142263	2.00	1.62	
29 2-Chlorophenol	128	5.402	5.407	-0.005	96	181068	2.00	2.03	
30 n-Decane	43	5.450	5.454	-0.004	90	209355	2.00	0.6836	
31 1,3-Dichlorobenzene	146	5.521	5.526	-0.005	97	214075	2.00	2.06	
32 1,4-Dichlorobenzene	146	5.583	5.587	-0.004	94	217485	2.00	2.07	
33 Benzyl alcohol	108	5.687	5.706	-0.019	90	96413	2.00	1.57	
34 1,2-Dichlorobenzene	146	5.711	5.711	0.000	96	207071	2.00	2.00	
37 Indene	116	5.782	5.792	-0.010	89	633910	4.00	4.07	
35 2,2'-oxybis[1-chloropropan	45	5.797	5.801	-0.004	82	316886	2.00	1.10	
36 2-Methylphenol	107	5.797	5.806	-0.009	83	128889	2.00	1.91	
40 Acetophenone	105	5.901	5.911	-0.010	92	230516	2.00	1.91	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
41 N-Nitrosodi-n-propylamine	70	5.906	5.920	-0.014	89	117770	2.00	1.99	
42 3 & 4 Methylphenol	108	5.925	5.935	-0.010	89	152535	2.00	1.86	
44 Hexachloroethane	117	5.992	5.992	0.000	93	99531	2.00	2.24	
45 Nitrobenzene	77	6.039	6.049	-0.010	97	179733	2.00	2.44	
47 Isophorone	82	6.239	6.253	-0.014	98	296290	2.00	2.03	
48 2-Nitrophenol	139	6.306	6.315	-0.009	96	93030	2.00	2.07	
49 2,4-Dimethylphenol	122	6.358	6.367	-0.009	97	140456	2.00	1.98	
51 Bis(2-chloroethoxy)methane	93	6.420	6.424	-0.004	91	184366	2.00	1.98	
54 2,4-Dichlorophenol	162	6.520	6.524	-0.004	95	156602	2.00	2.27	
52 Benzoic acid	122	6.462	6.539	-0.077	84	112416	4.00	2.09	
55 1,2,4-Trichlorobenzene	180	6.577	6.581	-0.004	95	189588	2.00	2.35	
56 Naphthalene	128	6.638	6.648	-0.010	99	515062	2.00	2.15	
57 4-Chloroaniline	127	6.686	6.695	-0.009	95	206384	2.00	1.96	
58 2,6-Dichlorophenol	162	6.696	6.705	-0.009	95	159234	2.00	2.27	
60 Hexachlorobutadiene	225	6.753	6.753	0.000	95	136492	2.00	2.63	
64 Caprolactam	113	6.971	7.028	-0.057	87	38363	2.00	1.52	
65 4-Chloro-3-methylphenol	107	7.105	7.114	-0.010	94	142862	2.00	2.25	
67 2-Methylnaphthalene	142	7.209	7.219	-0.010	93	355358	2.00	2.08	
68 1-Methylnaphthalene	142	7.295	7.299	-0.004	93	331925	2.00	2.07	
69 Hexachlorocyclopentadiene	237	7.352	7.356	-0.004	96	134549	2.00	2.18	
70 1,2,4,5-Tetrachlorobenzene	216	7.357	7.361	-0.004	96	216289	2.00	2.58	
72 2,4,6-Trichlorophenol	196	7.452	7.456	-0.004	93	124248	2.00	2.28	
73 2,4,5-Trichlorophenol	196	7.490	7.499	-0.009	95	130858	2.00	2.32	
75 1,1'-Biphenyl	154	7.594	7.604	-0.010	93	428859	2.00	2.24	
76 2-Chloronaphthalene	162	7.613	7.618	-0.005	96	353490	2.00	2.23	
78 2-Nitroaniline	65	7.699	7.708	-0.009	82	105133	2.00	2.20	
82 Dimethyl phthalate	163	7.846	7.861	-0.015	98	394319	2.00	2.17	
83 1,3-Dinitrobenzene	168	7.875	7.889	-0.014	82	57259	2.00	2.05	
84 2,6-Dinitrotoluene	165	7.894	7.908	-0.014	92	86517	2.00	2.28	
85 Acenaphthylene	152	7.956	7.960	-0.004	98	556481	2.00	2.20	
86 3-Nitroaniline	138	8.037	8.056	-0.019	90	67762	2.00	1.87	
87 Acenaphthene	154	8.098	8.108	-0.010	91	321712	2.00	1.98	
88 2,4-Dinitrophenol	184	8.127	8.141	-0.014	73	105281	4.00	3.93	
89 4-Nitrophenol	109	8.208	8.227	-0.019	86	125916	4.00	5.85	
91 2,4-Dinitrotoluene	165	8.232	8.241	-0.009	91	118200	2.00	2.33	
92 Dibenzofuran	168	8.241	8.251	-0.010	96	503637	2.00	2.21	
95 2,3,4,6-Tetrachlorophenol	232	8.355	8.360	-0.005	72	117200	2.00	2.28	
97 Diethyl phthalate	149	8.427	8.436	-0.009	98	419675	2.00	2.41	
98 Hexadecane	57	8.446	8.450	-0.004	86	270526	2.00	1.87	
100 4-Chlorophenyl phenyl ethe	204	8.522	8.526	-0.004	94	203103	2.00	2.26	
102 Fluorene	166	8.522	8.531	-0.009	94	399818	2.00	2.21	
103 4-Nitroaniline	138	8.545	8.564	-0.019	64	86269	2.00	2.55	
104 4,6-Dinitro-2-methylphenol	198	8.574	8.588	-0.014	94	142630	4.00	3.85	
106 N-Nitrosodiphenylamine	169	8.617	8.626	-0.009	65	276774	2.00	2.07	
105 Diphenylamine	169	8.617	8.626	-0.009	93	276774	1.70	1.75	
107 1,2-Diphenylhydrazine	77	8.650	8.660	-0.010	95	372092	2.00	2.23	
114 4-Bromophenyl phenyl ether	248	8.921	8.926	-0.005	64	149793	2.00	2.38	
117 Hexachlorobenzene	284	8.988	8.992	-0.004	97	193493	2.00	2.56	
118 Atrazine	200	9.059	9.068	-0.009	72	102692	2.00	2.16	
120 Pentachlorophenol	266	9.154	9.164	-0.010	88	159442	4.00	3.41	
123 n-Octadecane	43	9.202	9.206	-0.004	93	230674	2.00	0.4607	
126 Phenanthrene	178	9.316	9.325	-0.009	97	591483	2.00	2.14	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
127 Anthracene	178	9.359	9.368	-0.009	98	610159	2.00	2.14	
128 Carbazole	167	9.492	9.496	-0.004	96	514536	2.00	2.12	
130 Di-n-butyl phthalate	149	9.772	9.772	0.000	99	658207	2.00	2.04	
135 Fluoranthene	202	10.300	10.310	-0.010	97	671524	2.00	2.15	
136 Benzidine	184	10.414	10.419	-0.005	97	145943	2.00	1.24	7
137 Pyrene	202	10.500	10.509	-0.009	94	694372	2.00	2.10	
145 Butyl benzyl phthalate	149	11.156	11.166	-0.010	94	312065	2.00	2.00	
147 3,3'-Dichlorobenzidine	252	11.836	11.846	-0.010	98	253801	2.00	2.21	
149 Benzo[a]anthracene	228	11.860	11.874	-0.014	97	672236	2.00	2.06	
150 Bis(2-ethylhexyl) phthalat	149	11.922	11.927	-0.005	94	420282	2.00	1.89	
151 Chrysene	228	11.908	11.927	-0.019	96	642315	2.00	2.06	
154 Di-n-octyl phthalate	149	12.978	12.992	-0.014	99	705600	2.00	1.93	
156 Benzo[b]fluoranthene	252	13.662	13.643	0.019	97	739776	2.00	2.28	
158 Benzo[a]pyrene	252	14.247	14.281	-0.034	95	685062	2.00	2.23	
162 Indeno[1,2,3-cd]pyrene	276	17.077	17.134	-0.057	96	892416	2.00	2.33	
163 Dibenz(a,h)anthracene	278	17.182	17.243	-0.061	92	733006	2.00	2.42	
164 Benzo[g,h,i]perylene	276	17.900	17.990	-0.090	76	768048	2.00	2.43	
S 173 Methyl Phenols,Total	1				0			3.77	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

s - Failed ISTD Recovery Test

Reagents:

SMlst1_5uLL6X_00018 Amount Added: 1.00 Units: mL

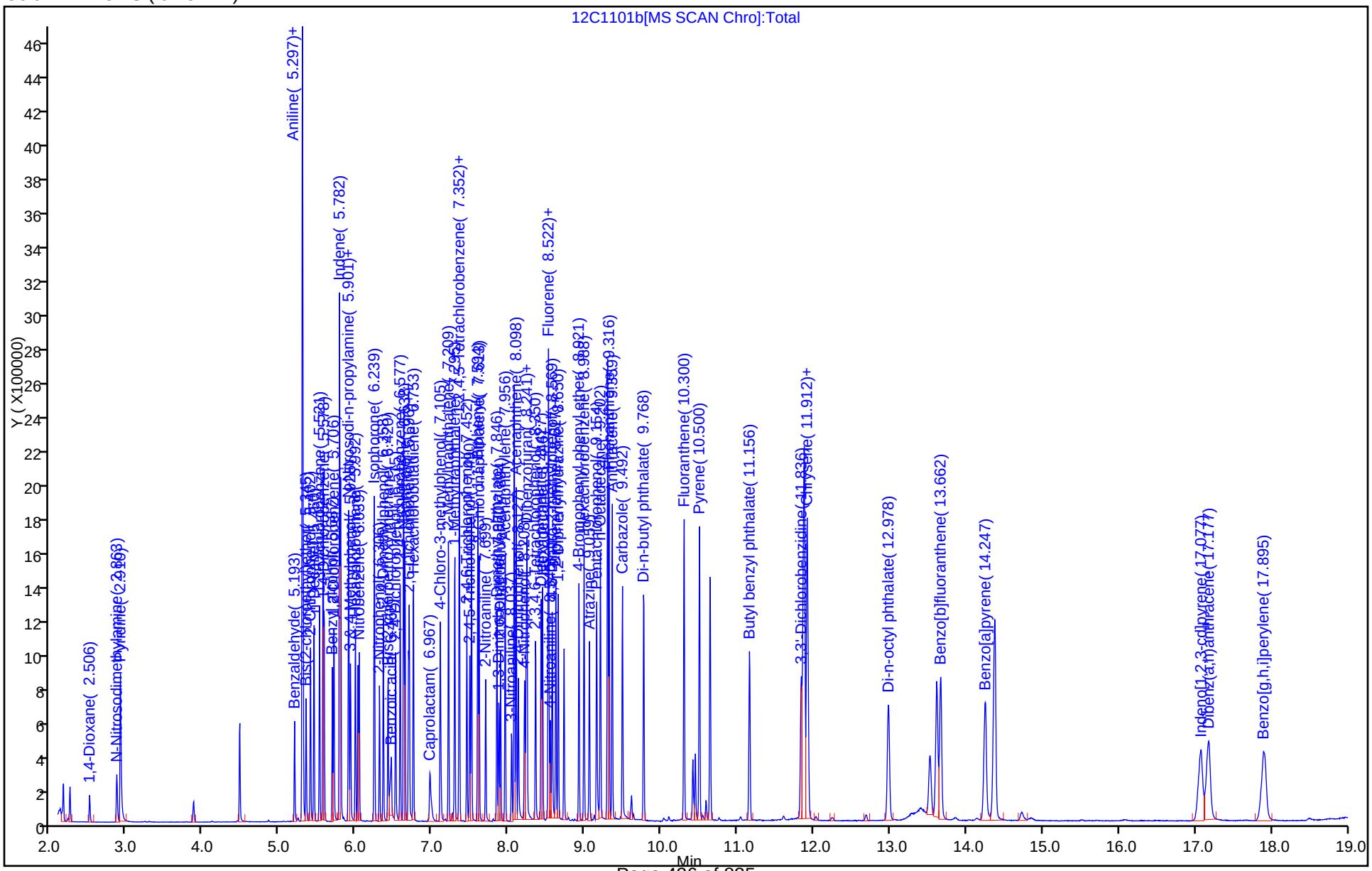
Report Date: 01-Nov-2017 15:19:03 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12C1101b.D

Injection Date:	01-Nov-2017 12:04:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	ccvl ppm10			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Sep-2017 12:29:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 500-0048047-005
Operator ID: DA Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 28-Sep-2017 10:22:50 Calib Date: 27-Sep-2017 17:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: akcakald Date: 27-Sep-2017 12:56:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
120 Pentachlorophenol	266	10.041	10.041	0.000	88	600888	NR	NR	
136 Benzidine	184	11.510	11.510	0.000	98	2334409	NR	NR	
165 DFTPP									
166 4,4'-DDE	246	11.748	11.748	0.000	91	1693		NR	
167 4,4'-DDD	235	12.195	12.195	0.000	95	9345		NR	
168 4,4'-DDT	235	12.670	12.670	0.000	98	1399207	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

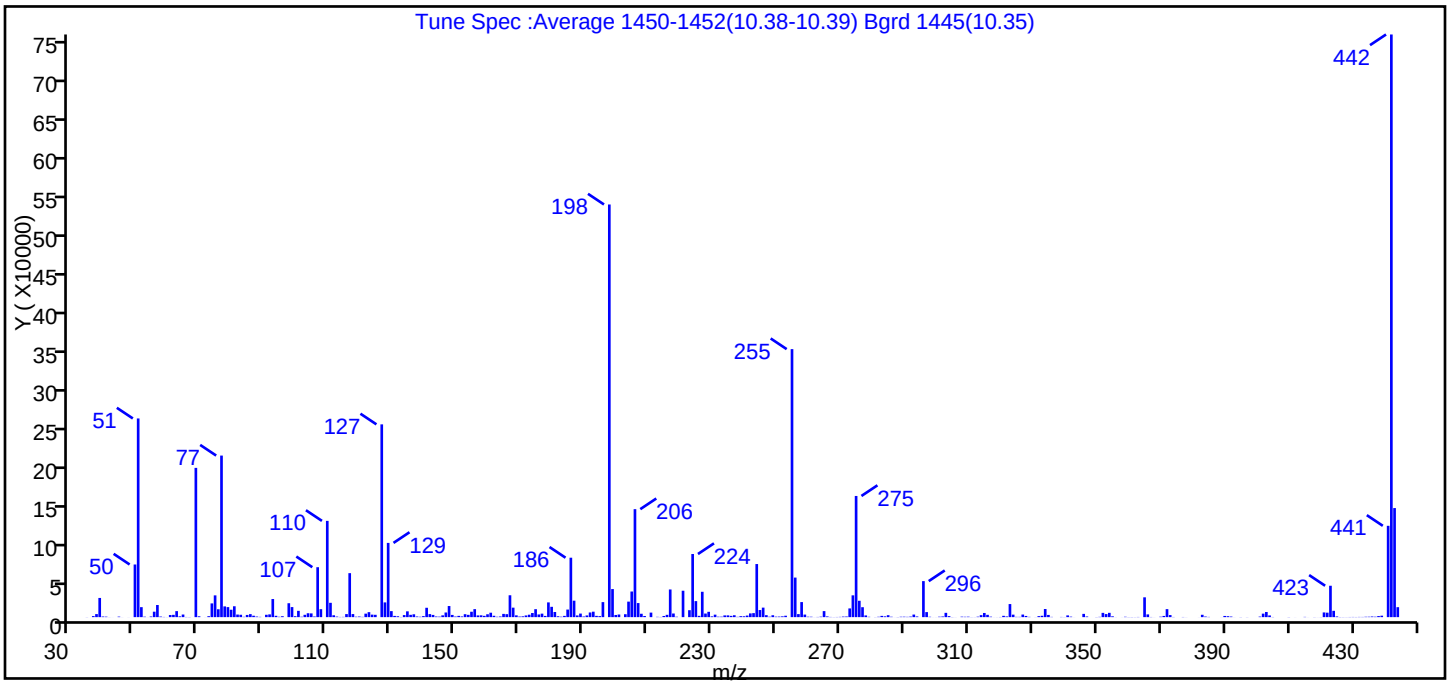
HIVOL_DFTPPWK_00083 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D
Injection Date: 27-Sep-2017 12:29:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Tune Method: DFTPP Method 8270D, BP 198

165 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (70.8)
51	10-80% of the base peak	48.1
68	<2% of mass 69	0.0 (0.0)
69	Present	36.2
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	46.7
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	29.4
365	>1% of mass 198	4.8
441	present but <24% of mass 442	22.1 (15.7)
442	base peak, or >50% of 198	141.2
443	15-24% of mass 442	26.4 (18.7)

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D\12-LVI8270.rslt\spectra.d
Injection Date: 27-Sep-2017 12:29:30
Spectrum: Tune Spec :Average 1450-1452(10.38-10.39) Bgrd 1445(10.35)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	114	135.00	7492	231.00	3199	325.00	366
37.00	1359	136.00	2995	232.00	599	326.00	345
38.00	3940	137.00	3668	233.00	625	327.00	3343
39.00	24752	138.00	824	234.00	2234	328.00	1543
40.00	816	139.00	471	235.00	2264	329.00	357
41.00	640	140.00	1327	236.00	1656	331.00	88
42.00	88	141.00	12082	237.00	2454	332.00	1306
43.00	27	142.00	3916	238.00	385	333.00	1767
45.00	672	143.00	2874	239.00	1252	334.00	10485
46.00	55	144.00	807	240.00	1105	335.00	2847
48.00	59	145.00	639	241.00	2034	336.00	329
50.00	67904	146.00	2316	242.00	4819	339.00	258
51.00	256256	147.00	6000	243.00	5179	340.00	134
52.00	12881	148.00	14332	244.00	68480	341.00	2247
53.00	595	149.00	2863	245.00	9167	342.00	634
54.00	54	150.00	743	246.00	12277	343.00	50
55.00	840	151.00	1650	247.00	2546	346.00	4215
56.00	7034	152.00	903	248.00	553	347.00	826
57.00	15648	153.00	3794	249.00	2447	350.00	174
58.00	747	154.00	2966	250.00	627	351.00	370
59.00	257	155.00	6972	251.00	720	352.00	5525
60.00	88	156.00	10309	252.00	1022	353.00	3956
61.00	2740	157.00	2223	253.00	1823	354.00	5564
62.00	2961	158.00	2353	255.00	345664	355.00	1061
63.00	7760	159.00	1683	256.00	51016	356.00	66
64.00	1002	160.00	3697	257.00	3913	358.00	50
65.00	3376	161.00	5710	258.00	19424	359.00	474
66.00	235	162.00	1765	259.00	3310	360.00	159
67.00	193	163.00	497	260.00	570	361.00	188
69.00	192512	164.00	840	261.00	508	362.00	130
70.00	1064	165.00	4196	262.00	74	363.00	244
72.00	55	166.00	3837	263.00	256	365.00	25560
73.00	1217	167.00	28216	264.00	602	366.00	3535

Report Date: 28-Sep-2017 10:22:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D\12-LVI8270.rslt\spectra.d
Injection Date: 27-Sep-2017 12:29:30
Spectrum: Tune Spec :Average 1450-1452(10.38-10.39) Bgrd 1445(10.35)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	17720	168.00	12240	265.00	7780	367.00	225
75.00	28080	169.00	2324	266.00	927	368.00	52
76.00	10170	170.00	769	267.00	262	370.00	570
77.00	208384	171.00	1057	268.00	140	371.00	1552
78.00	13853	172.00	2179	269.00	228	372.00	10328
79.00	12945	173.00	3140	270.00	338	373.00	2669
80.00	9562	174.00	5310	271.00	724	374.00	226
81.00	14030	175.00	10264	272.00	806	377.00	214
82.00	3340	176.00	3455	273.00	11254	378.00	68
83.00	3066	177.00	4517	274.00	28128	382.00	52
84.00	424	178.00	1585	275.00	156288	383.00	3048
85.00	2845	179.00	19024	276.00	21120	384.00	766
86.00	3876	180.00	13308	277.00	12813	385.00	300
87.00	1837	181.00	6641	278.00	2216	389.00	60
88.00	765	182.00	1156	279.00	447	390.00	1543
89.00	346	183.00	556	281.00	130	391.00	1209
91.00	3053	184.00	1632	282.00	472	392.00	759
92.00	3553	185.00	9774	283.00	1627	393.00	53
93.00	23360	186.00	76664	284.00	1017	395.00	150
94.00	1736	187.00	21232	285.00	2500	397.00	114
95.00	465	188.00	2207	286.00	514	401.00	706
96.00	1181	189.00	4594	287.00	50	402.00	4520
98.00	17952	190.00	791	288.00	172	403.00	6645
99.00	12962	191.00	2194	289.00	512	404.00	2208
100.00	1214	192.00	6020	290.00	568	405.00	210
101.00	8132	193.00	7040	291.00	393	410.00	171
102.00	513	194.00	1672	292.00	735	412.00	50
103.00	3013	195.00	1320	293.00	3327	415.00	322
104.00	5025	196.00	19376	294.00	879	416.00	50
105.00	4824	198.00	532224	296.00	46472	418.00	128
106.00	793	199.00	36224	297.00	6496	419.00	53
107.00	64408	200.00	2807	298.00	482	420.00	136
108.00	10273	201.00	3403	299.00	50	421.00	6071
110.00	124152	203.00	3771	300.00	60	422.00	5756

Report Date: 28-Sep-2017 10:22:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D\12-LVI8270.rslt\spectra.d
Injection Date: 27-Sep-2017 12:29:30
Spectrum: Tune Spec :Average 1450-1452(10.38-10.39) Bgrd 1445(10.35)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	18480	204.00	20016	301.00	576	423.00	40496
112.00	2411	205.00	33056	302.00	854	424.00	8140
113.00	726	206.00	139264	303.00	5545	425.00	874
114.00	255	207.00	18152	304.00	1301	426.00	182
115.00	326	208.00	4367	305.00	166	427.00	141
116.00	3932	209.00	1463	306.00	65	428.00	126
117.00	56728	211.00	5848	308.00	615	429.00	212
118.00	3971	213.00	398	309.00	477	430.00	257
119.00	559	214.00	235	310.00	597	431.00	210
120.00	793	215.00	1505	311.00	136	432.00	283
121.00	350	216.00	2976	312.00	103	433.00	264
122.00	4491	217.00	35688	313.00	588	434.00	481
123.00	6412	218.00	4695	314.00	2578	435.00	541
124.00	3237	219.00	526	315.00	5380	436.00	830
125.00	3030	221.00	34072	316.00	2981	437.00	561
127.00	248640	223.00	8953	317.00	614	438.00	1387
128.00	19008	224.00	81424	318.00	58	439.00	1873
129.00	95752	225.00	20664	319.00	80	441.00	117792
130.00	7750	226.00	1682	320.00	220	442.00	751488
131.00	1597	227.00	32712	321.00	1696	443.00	140672
132.00	1133	228.00	4635	322.00	898	444.00	12852
133.00	220	229.00	6884	323.00	16864		
134.00	2659	230.00	974	324.00	3215		

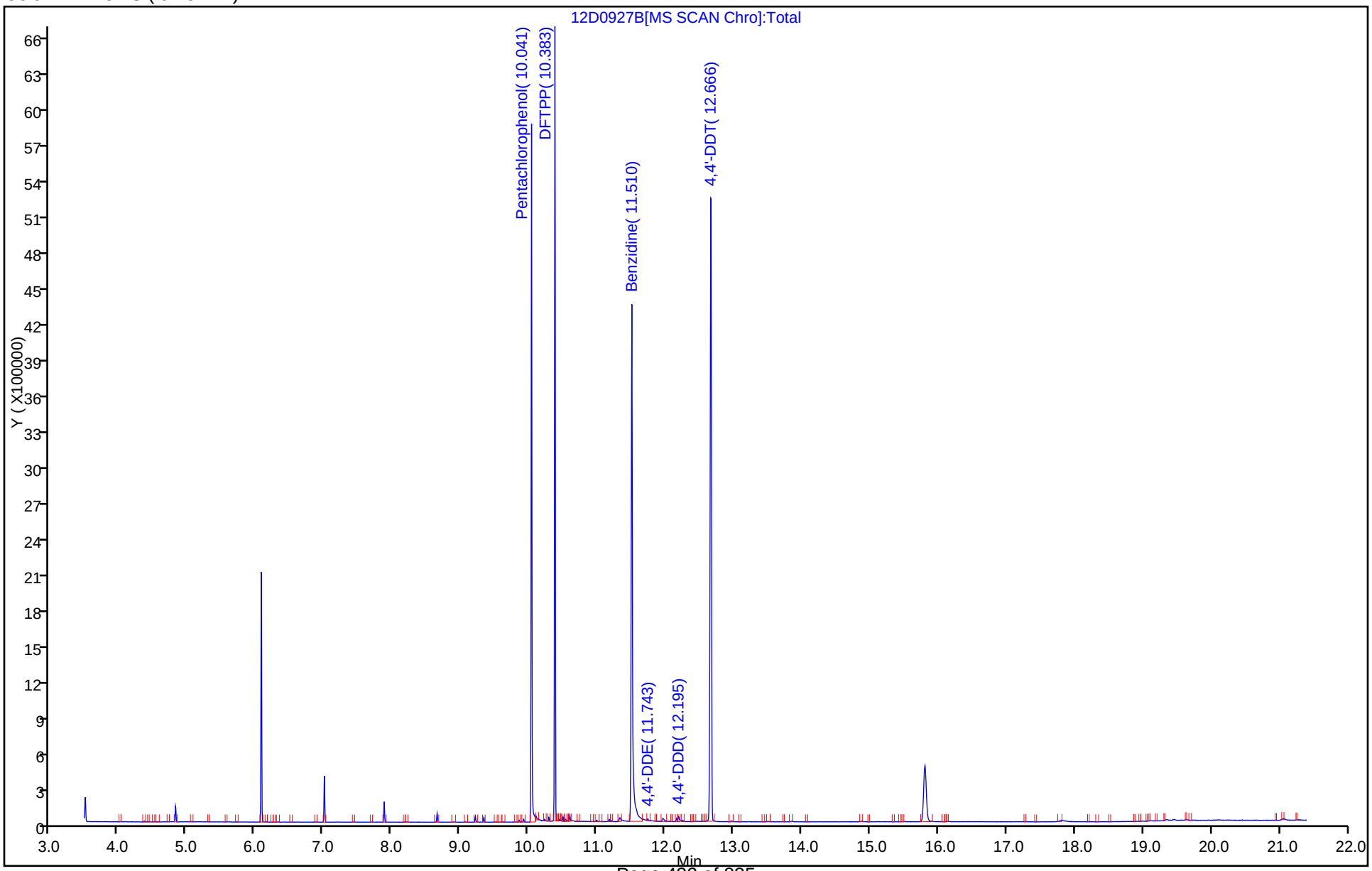
Report Date: 28-Sep-2017 10:22:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D

Injection Date:	27-Sep-2017 12:29:30	Instrument ID:	CMS12	Operator ID:	DA
Lims ID:	dftpp			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)

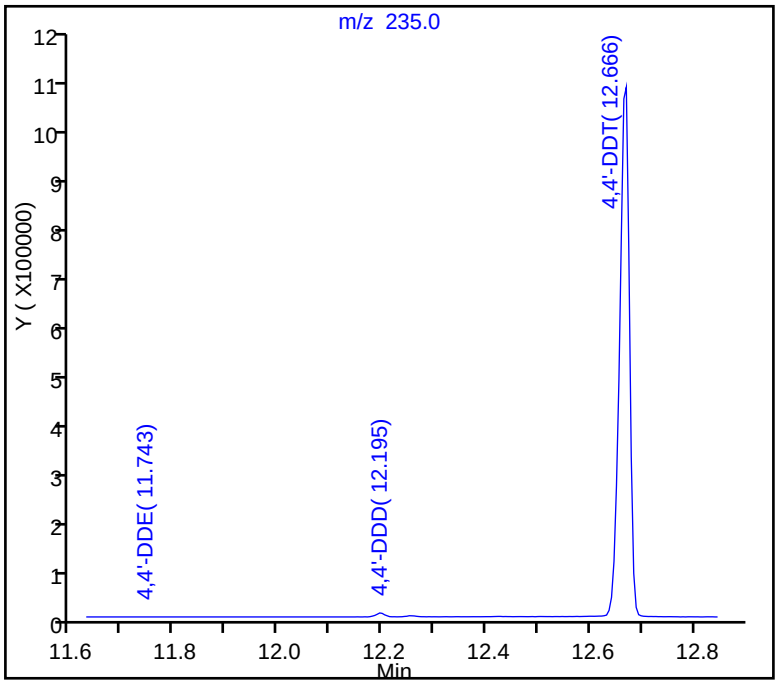


Breakdown Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D
Injection Date: 27-Sep-2017 12:29:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

168 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

168 4,4'-DDT, Area = 1399207
167 4,4'-DDD, Area = 9345
166 4,4'-DDE, Area = 1693

%Breakdown: 0.78%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Chicago

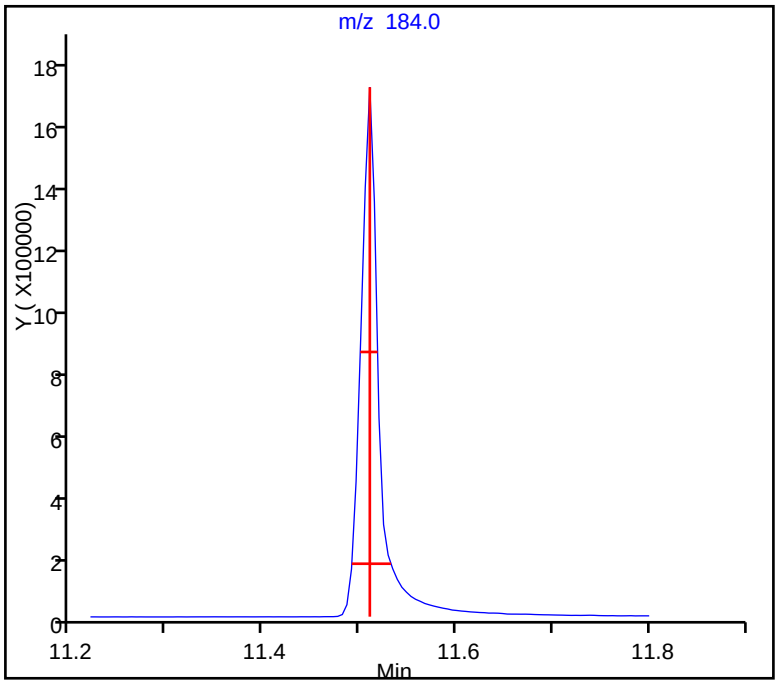
Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D
Injection Date: 27-Sep-2017 12:29:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

136 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Chicago

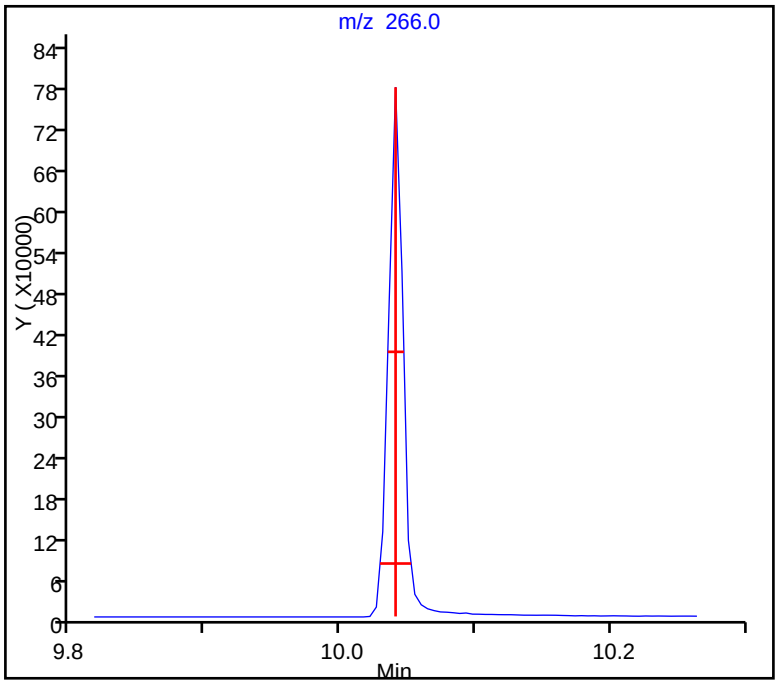
Data File: \\ChromNA\Chicago\ChromData\CMS12\20170927-48054.b\12D0927B.D
Injection Date: 27-Sep-2017 12:29:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

120 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12D1101.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 01-Nov-2017 10:43:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 500-0048759-001
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 01-Nov-2017 15:17:29 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: diaza Date: 01-Nov-2017 11:33:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
120 Pentachlorophenol	266	9.154	9.154	0.000	88	436536	NR	NR	
136 Benzidine	184	10.419	10.419	0.000	97	1671121	NR	NR	
165 DFTPP									
166 4,4'-DDE	246	10.595	10.595	0.000	90	2204		NR	
167 4,4'-DDD	235	10.961	10.961	0.000	86	2911		NR	
168 4,4'-DDT	235	11.275	11.275	0.000	98	1167202	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

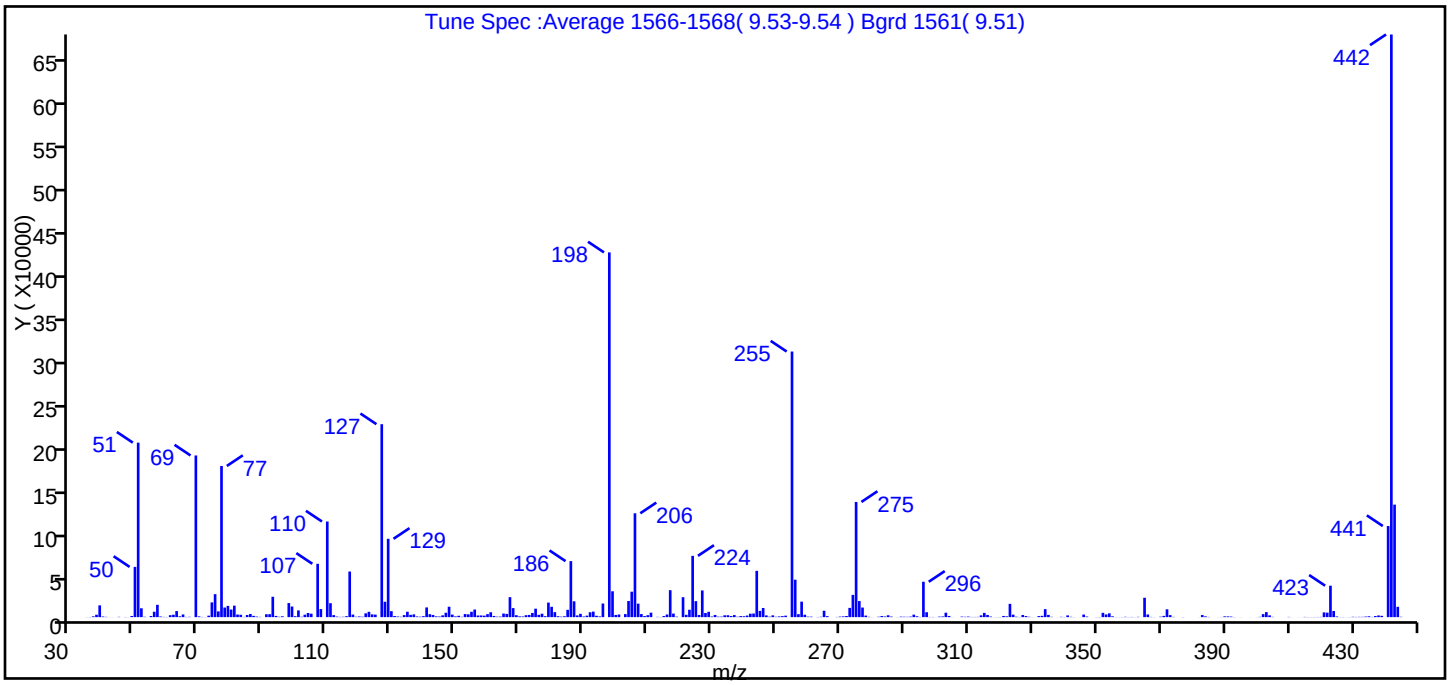
HIVOL_DFTPPWK_00083 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12D1101.D
Injection Date: 01-Nov-2017 10:43:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL
Tune Method: DFTPP Method 8270D, BP 198

165 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (62.6)
51	10-80% of the base peak	47.8
68	<2% of mass 69	0.0 (0.0)
69	Present	44.3
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	52.9
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.1
275	10-60% of the base peak	31.6
365	>1% of mass 198	5.3
441	present but <24% of mass 442	25.0 (15.6)
442	base peak, or >50% of 198	159.7
443	15-24% of mass 442	30.8 (19.3)

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12D1101.D\12-LVI8270.rslt\spectra.d
Injection Date: 01-Nov-2017 10:43:30
Spectrum: Tune Spec :Average 1566-1568(9.53-9.54) Bgrd 1561(9.51)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	118	136.00	2644	232.00	565	330.00	103
36.00	187	137.00	3176	233.00	606	332.00	1218
37.00	922	138.00	771	234.00	2117	333.00	1504
38.00	2779	139.00	514	235.00	2202	334.00	9231
39.00	13563	140.00	1127	236.00	1306	335.00	2582
40.00	744	141.00	11186	237.00	2379	336.00	381
41.00	312	142.00	3398	238.00	466	338.00	51
42.00	50	143.00	2537	239.00	1231	339.00	374
43.00	65	144.00	885	240.00	1026	340.00	153
45.00	340	145.00	716	241.00	1832	341.00	2005
47.00	191	146.00	2071	242.00	3974	342.00	384
48.00	82	147.00	5051	243.00	4184	343.00	141
49.00	1359	148.00	11985	244.00	53320	345.00	73
50.00	57856	149.00	2918	245.00	7188	346.00	2981
51.00	200960	150.00	861	246.00	10546	347.00	688
52.00	10204	151.00	1593	247.00	1982	350.00	141
53.00	416	152.00	382	248.00	530	351.00	198
55.00	1299	153.00	3575	249.00	2046	352.00	4983
56.00	6234	154.00	3241	250.00	425	353.00	3121
57.00	14195	155.00	6199	251.00	826	354.00	4347
58.00	719	156.00	8763	252.00	1170	355.00	941
59.00	283	157.00	1901	253.00	1719	356.00	114
60.00	192	158.00	1944	255.00	305856	357.00	110
61.00	2260	159.00	1733	256.00	43128	358.00	160
62.00	2757	160.00	3479	257.00	3413	359.00	386
63.00	6987	161.00	5661	258.00	17840	360.00	161
64.00	953	162.00	1375	259.00	2778	361.00	244
65.00	3089	163.00	555	260.00	588	362.00	122
66.00	266	164.00	619	261.00	543	363.00	354
67.00	381	165.00	4145	263.00	210	365.00	22328
69.00	186176	166.00	3741	264.00	414	366.00	3071
70.00	869	167.00	23024	265.00	7368	367.00	263
71.00	242	168.00	10425	266.00	1137	368.00	125

Report Date: 01-Nov-2017 15:17:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12D1101.D\12-LVI8270.rslt\spectra.d
Injection Date: 01-Nov-2017 10:43:30
Spectrum: Tune Spec :Average 1566-1568(9.53-9.54) Bgrd 1561(9.51)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	126	169.00	2247	267.00	39	370.00	524
73.00	1702	170.00	925	269.00	229	371.00	1447
74.00	17000	171.00	759	270.00	634	372.00	9016
75.00	26472	172.00	2233	271.00	863	373.00	2313
76.00	6630	173.00	2543	272.00	1319	374.00	303
77.00	174080	174.00	4805	273.00	10655	377.00	168
78.00	11059	175.00	9749	274.00	25632	382.00	62
79.00	12966	176.00	2649	275.00	132672	383.00	2402
80.00	8777	177.00	3961	276.00	18520	384.00	894
81.00	13237	178.00	1103	277.00	11047	385.00	264
82.00	3015	179.00	16760	278.00	1794	388.00	57
83.00	2730	180.00	11894	279.00	368	389.00	102
84.00	259	181.00	5757	280.00	77	390.00	884
85.00	2465	182.00	1088	281.00	8	391.00	861
86.00	3620	183.00	555	282.00	451	392.00	660
87.00	1497	184.00	1015	283.00	1269	393.00	150
88.00	639	185.00	8453	284.00	750	395.00	92
89.00	292	186.00	64520	285.00	2170	398.00	59
91.00	3324	187.00	18248	286.00	642	400.00	68
92.00	3408	188.00	1994	288.00	125	401.00	358
93.00	23472	189.00	3831	289.00	571	402.00	3499
94.00	1425	190.00	716	290.00	474	403.00	5811
95.00	433	191.00	1740	291.00	357	404.00	2076
96.00	980	192.00	5634	292.00	632	405.00	324
98.00	16220	193.00	6378	293.00	2859	410.00	260
99.00	12244	194.00	1596	294.00	994	411.00	55
100.00	1066	195.00	826	295.00	218	413.00	72
101.00	7764	196.00	15682	296.00	40744	414.00	51
102.00	440	198.00	420032	297.00	5661	415.00	272
103.00	2826	199.00	29800	298.00	236	416.00	175
104.00	4767	200.00	2512	299.00	225	417.00	137
105.00	3956	201.00	3047	300.00	60	418.00	182
107.00	61440	203.00	3495	301.00	609	419.00	214
108.00	9291	204.00	18616	302.00	774	420.00	286

Report Date: 01-Nov-2017 15:17:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12D1101.D\12-LVI8270.rslt\spectra.d
Injection Date: 01-Nov-2017 10:43:30
Spectrum: Tune Spec :Average 1566-1568(9.53-9.54) Bgrd 1561(9.51)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	110144	205.00	29312	303.00	5115	421.00	5485
111.00	16066	206.00	119608	304.00	1354	422.00	5166
112.00	2336	207.00	15524	305.00	101	423.00	36216
113.00	654	208.00	3517	308.00	625	424.00	7084
114.00	297	209.00	1224	309.00	425	425.00	766
115.00	407	210.00	2275	310.00	650	426.00	105
116.00	1116	211.00	5158	311.00	240	427.00	173
117.00	52520	213.00	301	312.00	239	428.00	72
118.00	2962	214.00	133	313.00	315	429.00	140
119.00	461	215.00	1250	314.00	2064	430.00	395
120.00	791	216.00	3035	315.00	4897	431.00	259
121.00	475	217.00	31064	316.00	2569	432.00	349
122.00	4399	218.00	4113	317.00	669	433.00	348
123.00	6137	219.00	557	318.00	82	434.00	650
124.00	3181	221.00	22976	319.00	165	435.00	986
125.00	2918	222.00	2704	320.00	180	436.00	254
127.00	222208	223.00	8534	321.00	1370	437.00	1282
128.00	17712	224.00	70584	322.00	920	438.00	1927
129.00	90208	225.00	18416	323.00	15299	439.00	1512
130.00	6878	226.00	2496	324.00	2893	441.00	104912
131.00	1278	227.00	30744	325.00	503	442.00	670976
132.00	739	228.00	4804	326.00	198	443.00	129576
133.00	414	229.00	6182	327.00	2463	444.00	11896
134.00	2356	230.00	706	328.00	1222	445.00	408
135.00	6230	231.00	2530	329.00	419		

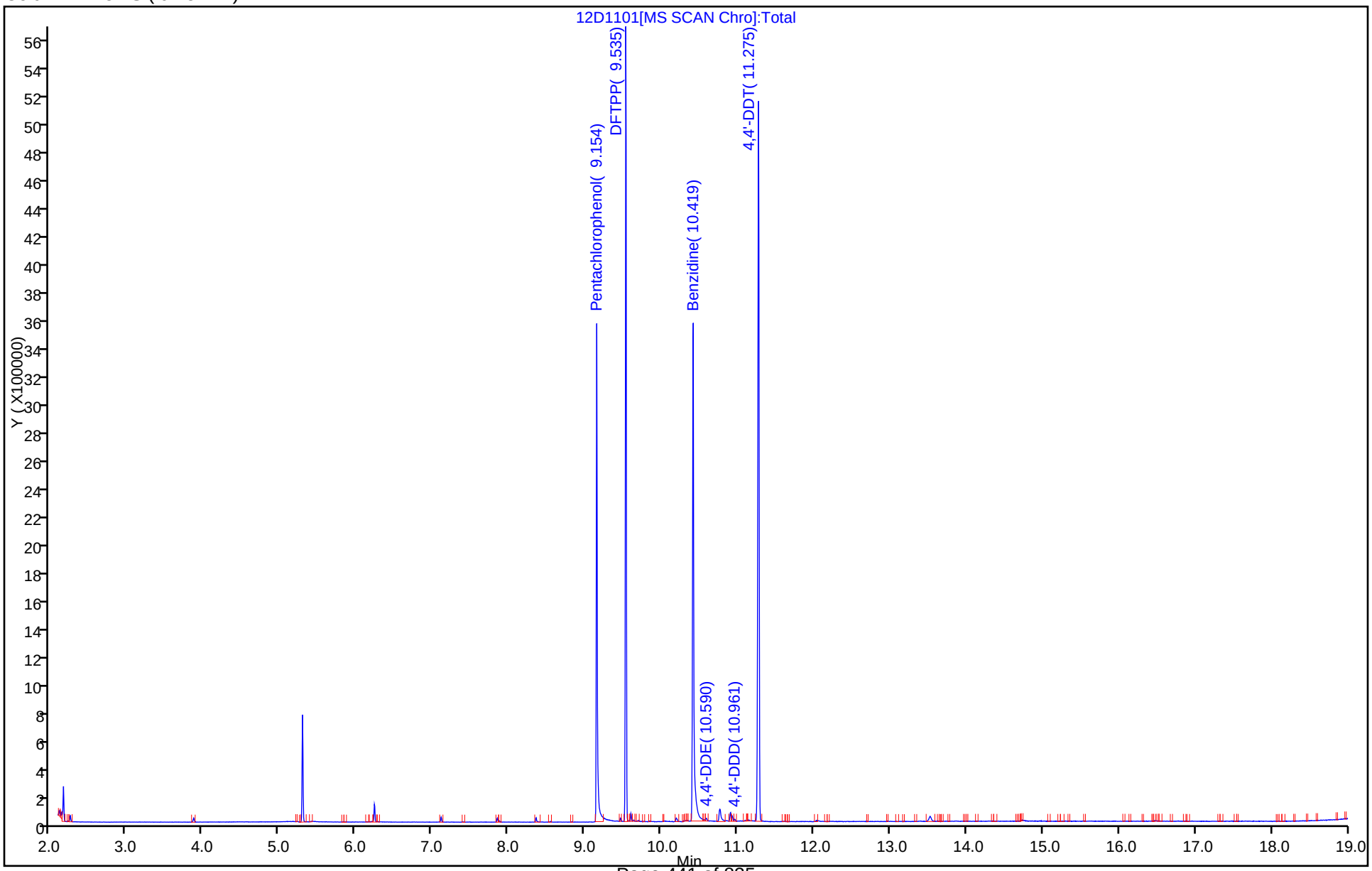
Report Date: 01-Nov-2017 15:17:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12D1101.D

Injection Date:	01-Nov-2017 10:43:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	dftpp			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)

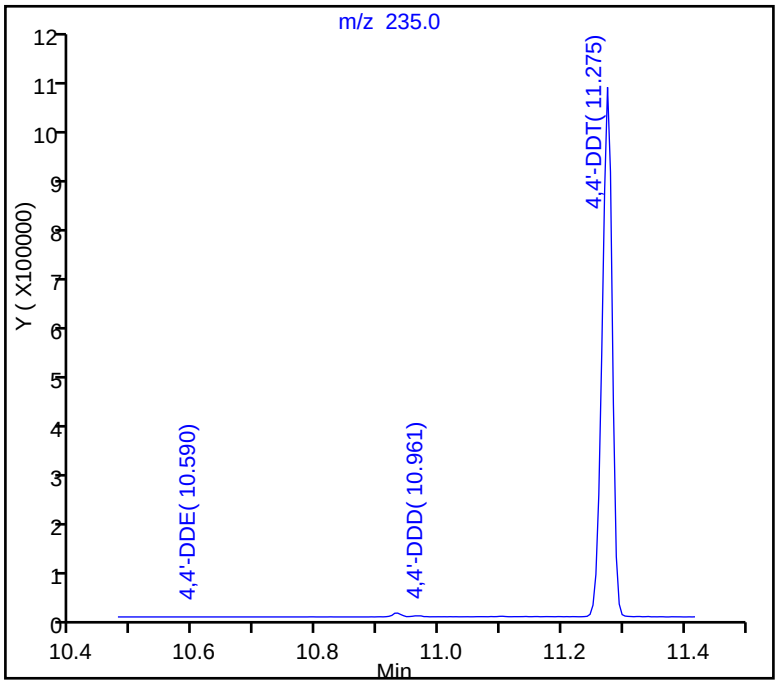


Breakdown Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12D1101.D
Injection Date: 01-Nov-2017 10:43:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

168 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

168 4,4'-DDT, Area = 1167202
167 4,4'-DDD, Area = 2911
166 4,4'-DDE, Area = 2204

%Breakdown: 0.44%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Chicago

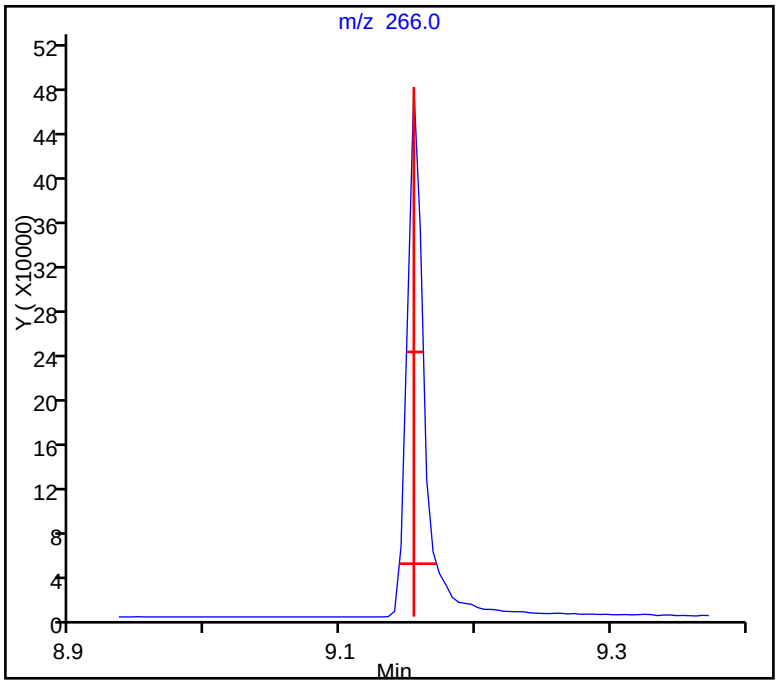
Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12D1101.D
Injection Date: 01-Nov-2017 10:43:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

120 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.6, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Chicago

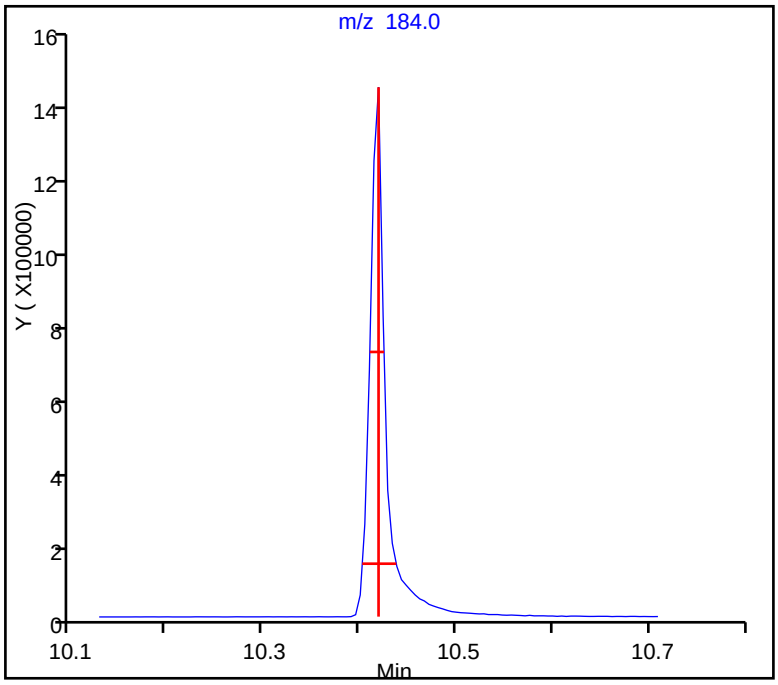
Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12D1101.D
Injection Date: 01-Nov-2017 10:43:30 Instrument ID: CMS12
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 12-LVI8270 Limit Group: MSBNA_8270D_ICAL

136 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-407898/1-A

Matrix: Water | Lab File ID: MB 500-407898.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 14:18

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	<32		32	12
108-95-2	Phenol	<4.0		4.0	0.54
111-44-4	Bis(2-chloroethyl)ether	<1.6		1.6	0.23
95-57-8	2-Chlorophenol	<4.0		4.0	0.45
95-48-7	2-Methylphenol	<1.6		1.6	0.24
108-60-1	2,2'-oxybis[1-chloropropane]	<1.6		1.6	0.30
98-86-2	Acetophenone	<4.0		4.0	0.53
621-64-7	N-Nitrosodi-n-propylamine	<0.40		0.40	0.12
67-72-1	Hexachloroethane	<4.0		4.0	0.48
98-95-3	Nitrobenzene	<0.80		0.80	0.36
78-59-1	Isophorone	<1.6		1.6	0.30
88-75-5	2-Nitrophenol	<8.0		8.0	2.0
105-67-9	2,4-Dimethylphenol	<8.0		8.0	1.4
111-91-1	Bis(2-chloroethoxy)methane	<1.6		1.6	0.23
120-83-2	2,4-Dichlorophenol	<8.0		8.0	2.1
91-20-3	Naphthalene	<0.80		0.80	0.25
106-47-8	4-Chloroaniline	<8.0		8.0	1.6
87-68-3	Hexachlorobutadiene	<4.0		4.0	0.41
105-60-2	Caprolactam	<8.0		8.0	1.2
59-50-7	4-Chloro-3-methylphenol	<8.0		8.0	1.8
91-57-6	2-Methylnaphthalene	<1.6		1.6	0.052
77-47-4	Hexachlorocyclopentadiene	<16		16	5.1
88-06-2	2,4,6-Trichlorophenol	<4.0		4.0	0.57
95-95-4	2,4,5-Trichlorophenol	<8.0		8.0	2.1
92-52-4	1,1'-Biphenyl	<4.0		4.0	0.29
91-58-7	2-Chloronaphthalene	<1.6		1.6	0.19
88-74-4	2-Nitroaniline	<4.0		4.0	1.0
131-11-3	Dimethyl phthalate	<4.0		4.0	0.25
606-20-2	2,6-Dinitrotoluene	<0.80		0.80	0.059
208-96-8	Acenaphthylene	<0.80		0.80	0.21
99-09-2	3-Nitroaniline	<8.0		8.0	1.4
83-32-9	Acenaphthene	<0.80		0.80	0.25
51-28-5	2,4-Dinitrophenol	<16		16	6.9
100-02-7	4-Nitrophenol	<16		16	5.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-407898/1-A

Matrix: Water | Lab File ID: MB 500-407898.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 14:18

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
132-64-9	Dibenzofuran	<1.6		1.6	0.21
121-14-2	2,4-Dinitrotoluene	<0.80		0.80	0.20
84-66-2	Diethyl phthalate	<4.0		4.0	0.29
86-73-7	Fluorene	<0.80		0.80	0.20
7005-72-3	4-Chlorophenyl phenyl ether	<4.0		4.0	0.51
100-01-6	4-Nitroaniline	<8.0		8.0	1.3
534-52-1	4,6-Dinitro-2-methylphenol	<16		16	4.7
86-30-6	N-Nitrosodiphenylamine	<1.6		1.6	0.30
101-55-3	4-Bromophenyl phenyl ether	<4.0		4.0	0.43
118-74-1	Hexachlorobenzene	<0.40		0.40	0.064
1912-24-9	Atrazine	<4.0		4.0	0.50
87-86-5	Pentachlorophenol	<16		16	3.2
85-01-8	Phenanthrene	<0.80		0.80	0.24
120-12-7	Anthracene	<0.80		0.80	0.27
86-74-8	Carbazole	<4.0		4.0	0.28
84-74-2	Di-n-butyl phthalate	<4.0		4.0	0.58
206-44-0	Fluoranthene	<0.80		0.80	0.36
129-00-0	Pyrene	<0.80		0.80	0.34
85-68-7	Butyl benzyl phthalate	<1.6		1.6	0.38
91-94-1	3,3'-Dichlorobenzidine	<4.0		4.0	1.4
56-55-3	Benzo[a]anthracene	<0.16		0.16	0.045
218-01-9	Chrysene	<0.16		0.16	0.055
117-81-7	Bis(2-ethylhexyl) phthalate	<8.0		8.0	1.4
117-84-0	Di-n-octyl phthalate	<8.0		8.0	0.84
205-99-2	Benzo[b]fluoranthene	<0.16		0.16	0.065
207-08-9	Benzo[k]fluoranthene	<0.16		0.16	0.051
50-32-8	Benzo[a]pyrene	<0.16		0.16	0.079
193-39-5	Indeno[1,2,3-cd]pyrene	<0.16		0.16	0.060
53-70-3	Dibenz(a,h)anthracene	<0.24		0.24	0.041
191-24-2	Benzo[g,h,i]perylene	<0.80		0.80	0.30
15831-10-4	3 & 4 Methylphenol	<1.6		1.6	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-407898/1-A

Matrix: Water | Lab File ID: MB 500-407898.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 14:18

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	64		27-110
4165-62-2	Phenol-d5 (Surr)	41		20-100
4165-60-0	Nitrobenzene-d5 (Surr)	94		36-120
321-60-8	2-Fluorobiphenyl (Surr)	85		34-110
118-79-6	2,4,6-Tribromophenol (Surr)	134		40-145
1718-51-0	Terphenyl-d14 (Surr)	119		40-145

Report Date: 01-Nov-2017 15:22:52 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\MB 500-407898.D
Lims ID: MB 500-407898/1-A
Client ID:
Sample Type: MB
Inject. Date: 01-Nov-2017 14:18:30 ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: MB 500-407898/1-A
Misc. Info.: 500-0048759-009
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 01-Nov-2017 15:22:46 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: rynkarg Date: 01-Nov-2017 15:22:46

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.569	5.568	0.000	96	196402	3.20	3.20	
*	2 Naphthalene-d8	136	6.619	6.629	-0.010	100	749829	3.20	3.20	
*	3 Acenaphthene-d10	164	8.070	8.075	-0.005	98	391408	3.20	3.20	
*	4 Phenanthrene-d10	188	9.297	9.302	-0.005	97	776632	3.20	3.20	
*	5 Chrysene-d12	240	11.870	11.889	-0.019	99	836638	3.20	3.20	
*	6 Perylene-d12	264	14.371	14.385	-0.014	99	930035	3.20	3.20	
$	7 2-Fluorophenol	112	4.470	4.475	-0.005	92	335460	10.0	6.43	
$	8 Phenol-d5	99	5.293	5.307	-0.014	91	325992	10.0	4.08	
$	9 Nitrobenzene-d5	82	6.025	6.034	-0.009	97	689284	10.0	9.38	
$	10 2-Fluorobiphenyl	172	7.514	7.518	-0.004	99	1393951	10.0	8.47	
$	11 2,4,6-Tribromophenol	330	8.726	8.736	-0.010	65	507824	10.0	13.4	
$	12 Terphenyl-d14	244	10.647	10.647	0.000	99	2439219	10.0	11.9	
	150 Bis(2-ethylhexyl) phthalat	149	11.922	11.927	-0.005	95	20400		0.1008	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

SM_HIVOLISTD_00160 Amount Added: 10.00 Units: uL Run Reagent

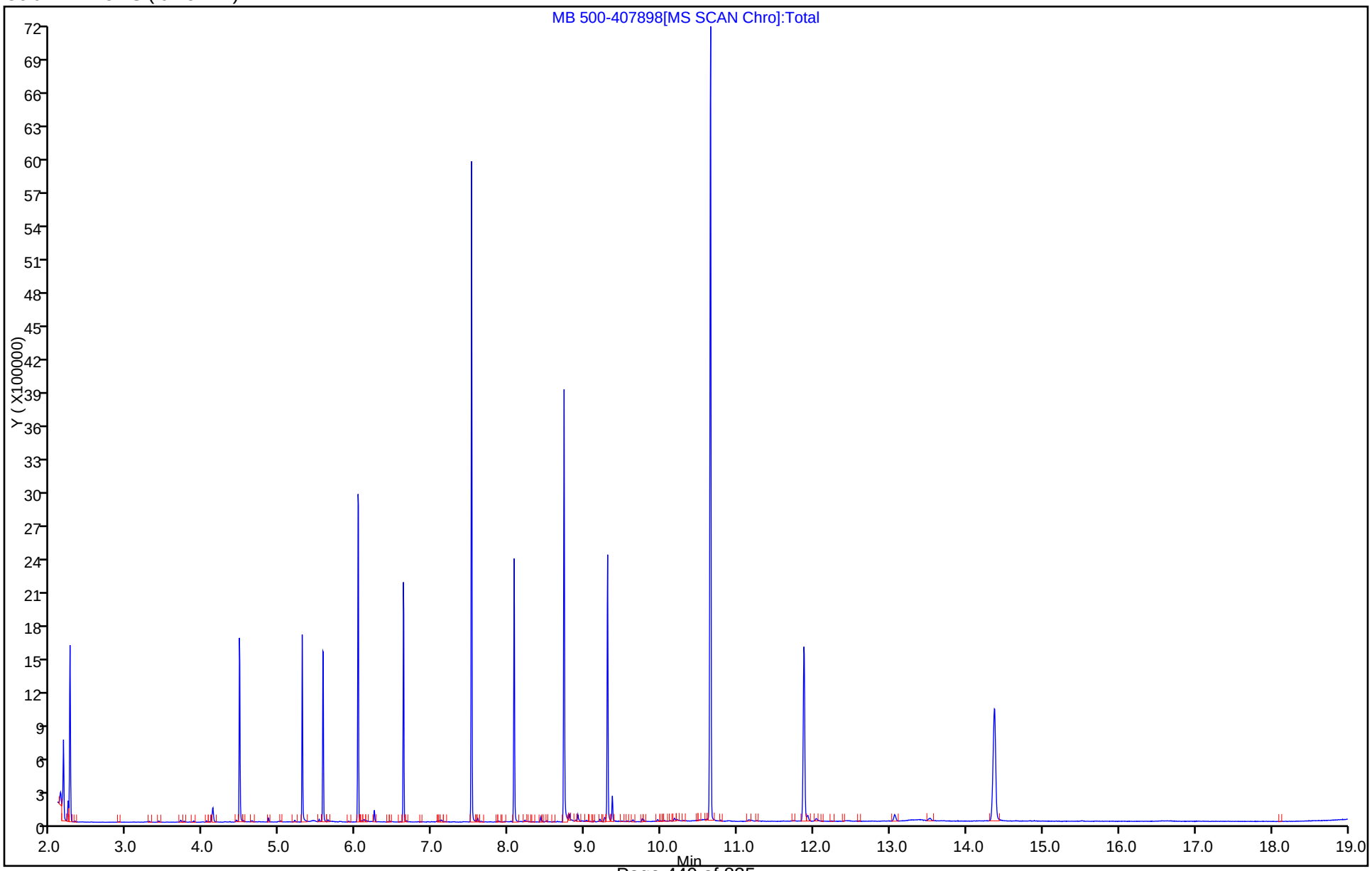
Report Date: 01-Nov-2017 15:22:52 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\MB 500-407898.D

Injection Date:	01-Nov-2017 14:18:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	MB 500-407898/1-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\MB 500-407898.D
Lims ID: MB 500-407898/1-A
Client ID:
Sample Type: MB
Inject. Date: 01-Nov-2017 14:18:30 ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: MB 500-407898/1-A
Misc. Info.: 500-0048759-009
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 01-Nov-2017 15:22:46 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: rynkarg Date: 01-Nov-2017 15:22:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	10.0	6.43	64.32
$ 8 Phenol-d5	10.0	4.08	40.85
$ 9 Nitrobenzene-d5	10.0	9.38	93.77
$ 10 2-Fluorobiphenyl	10.0	8.47	84.69
$ 11 2,4,6-Tribromophenol	10.0	13.4	133.57
$ 12 Terphenyl-d14	10.0	11.9	119.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-407898/2-A

Matrix: Water | Lab File ID: LCS 500-407898.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 12:57

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	26.6	J	32	12
108-95-2	Phenol	15.9		4.0	0.54
111-44-4	Bis(2-chloroethyl)ether	18.5		1.6	0.23
95-57-8	2-Chlorophenol	22.9		4.0	0.45
95-48-7	2-Methylphenol	21.7		1.6	0.24
108-60-1	2,2'-oxybis[1-chloropropane]	11.1		1.6	0.30
98-86-2	Acetophenone	22.5		4.0	0.53
621-64-7	N-Nitrosodi-n-propylamine	24.4		0.40	0.12
67-72-1	Hexachloroethane	11.8		4.0	0.48
98-95-3	Nitrobenzene	28.5		0.80	0.36
78-59-1	Isophorone	24.4		1.6	0.30
88-75-5	2-Nitrophenol	25.2		8.0	2.0
105-67-9	2,4-Dimethylphenol	25.1		8.0	1.4
111-91-1	Bis(2-chloroethoxy)methane	24.6		1.6	0.23
120-83-2	2,4-Dichlorophenol	28.8		8.0	2.1
91-20-3	Naphthalene	20.3		0.80	0.25
106-47-8	4-Chloroaniline	25.0		8.0	1.6
87-68-3	Hexachlorobutadiene	10.6		4.0	0.41
105-60-2	Caprolactam	14.9		8.0	1.2
59-50-7	4-Chloro-3-methylphenol	29.3		8.0	1.8
91-57-6	2-Methylnaphthalene	20.4		1.6	0.052
77-47-4	Hexachlorocyclopentadiene	11.0	J	16	5.1
88-06-2	2,4,6-Trichlorophenol	31.5		4.0	0.57
95-95-4	2,4,5-Trichlorophenol	32.5		8.0	2.1
92-52-4	1,1'-Biphenyl	23.6		4.0	0.29
91-58-7	2-Chloronaphthalene	22.6		1.6	0.19
88-74-4	2-Nitroaniline	31.6		4.0	1.0
131-11-3	Dimethyl phthalate	30.4		4.0	0.25
606-20-2	2,6-Dinitrotoluene	32.6		0.80	0.059
208-96-8	Acenaphthylene	23.9		0.80	0.21
99-09-2	3-Nitroaniline	29.2		8.0	1.4
83-32-9	Acenaphthene	22.8		0.80	0.25
51-28-5	2,4-Dinitrophenol	65.3		16	6.9
100-02-7	4-Nitrophenol	55.6		16	5.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-407898/2-A

Matrix: Water | Lab File ID: LCS 500-407898.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 12:57

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
132-64-9	Dibenzofuran	26.6		1.6	0.21
121-14-2	2,4-Dinitrotoluene	35.1		0.80	0.20
84-66-2	Diethyl phthalate	35.1		4.0	0.29
86-73-7	Fluorene	28.9		0.80	0.20
7005-72-3	4-Chlorophenyl phenyl ether	28.4		4.0	0.51
100-01-6	4-Nitroaniline	28.5		8.0	1.3
534-52-1	4,6-Dinitro-2-methylphenol	58.7		16	4.7
86-30-6	N-Nitrosodiphenylamine	30.0		1.6	0.30
101-55-3	4-Bromophenyl phenyl ether	31.6		4.0	0.43
118-74-1	Hexachlorobenzene	35.0		0.40	0.064
1912-24-9	Atrazine	30.2		4.0	0.50
87-86-5	Pentachlorophenol	63.0		16	3.2
85-01-8	Phenanthrene	30.8		0.80	0.24
120-12-7	Anthracene	31.1		0.80	0.27
86-74-8	Carbazole	31.3		4.0	0.28
84-74-2	Di-n-butyl phthalate	32.0		4.0	0.58
206-44-0	Fluoranthene	33.3		0.80	0.36
129-00-0	Pyrene	30.6		0.80	0.34
85-68-7	Butyl benzyl phthalate	30.7		1.6	0.38
91-94-1	3,3'-Dichlorobenzidine	34.0		4.0	1.4
56-55-3	Benzo[a]anthracene	31.9		0.16	0.045
218-01-9	Chrysene	32.4		0.16	0.055
117-81-7	Bis(2-ethylhexyl) phthalate	29.4		8.0	1.4
117-84-0	Di-n-octyl phthalate	31.5		8.0	0.84
205-99-2	Benzo[b]fluoranthene	34.6		0.16	0.065
207-08-9	Benzo[k]fluoranthene	32.9		0.16	0.051
50-32-8	Benzo[a]pyrene	35.4		0.16	0.079
193-39-5	Indeno[1,2,3-cd]pyrene	37.6		0.16	0.060
53-70-3	Dibenz(a,h)anthracene	39.0		0.24	0.041
191-24-2	Benzo[g,h,i]perylene	38.3		0.80	0.30
15831-10-4	3 & 4 Methylphenol	20.8		1.6	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-407898/2-A

Matrix: Water | Lab File ID: LCS 500-407898.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 12:57

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	64		27-110
4165-62-2	Phenol-d5 (Surr)	44		20-100
4165-60-0	Nitrobenzene-d5 (Surr)	84		36-120
321-60-8	2-Fluorobiphenyl (Surr)	80		34-110
118-79-6	2,4,6-Tribromophenol (Surr)	143		40-145
1718-51-0	Terphenyl-d14 (Surr)	108		40-145

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\LCS 500-407898.D
Lims ID: LCS 500-407898/2-A
Client ID:
Sample Type: LCS
Inject. Date: 01-Nov-2017 12:57:30 ALS Bottle#: 4 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: LCS 500-407898/2-A
Misc. Info.: 500-0048759-006
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 01-Nov-2017 15:20:36 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: rynkarg Date: 01-Nov-2017 15:20:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.569	5.568	0.001	95	223499	3.20	3.20	
* 2 Naphthalene-d8	136	6.624	6.629	-0.005	99	779291	3.20	3.20	
* 3 Acenaphthene-d10	164	8.075	8.075	0.000	97	393383	3.20	3.20	
* 4 Phenanthrene-d10	188	9.302	9.302	0.000	97	780182	3.20	3.20	
* 5 Chrysene-d12	240	11.884	11.889	-0.005	99	882896	3.20	3.20	
* 6 Perylene-d12	264	14.376	14.385	-0.009	99	996355	3.20	3.20	
$ 7 2-Fluorophenol	112	4.475	4.475	0.000	93	379340	10.0	6.40	
$ 8 Phenol-d5	99	5.297	5.307	-0.010	92	403556	10.0	4.43	
$ 9 Nitrobenzene-d5	82	6.030	6.034	-0.004	97	643838	10.0	8.43	
$ 10 2-Fluorobiphenyl	172	7.518	7.518	0.000	99	1329862	10.0	8.04	
$ 11 2,4,6-Tribromophenol	330	8.731	8.736	-0.005	66	547263	10.0	14.3	
$ 12 Terphenyl-d14	244	10.647	10.647	0.000	100	2319146	10.0	10.8	
13 1,4-Dioxane	88	2.506	2.511	-0.005	92	105936	8.00	4.44	
14 N-Nitrosodimethylamine	42	2.872	2.891	-0.019	72	296016	8.00	3.92	
15 Pyridine	79	2.915	2.920	-0.005	75	578511	16.0	7.62	
23 Benzaldehyde	77	5.193	5.197	-0.004	87	154202	8.00	6.66	
26 Aniline	93	5.297	5.302	-0.005	98	627852	8.00	4.71	
25 Phenol	94	5.312	5.316	-0.004	97	369529	8.00	3.98	
27 Bis(2-chloroethyl)ether	93	5.350	5.354	-0.004	90	386764	8.00	4.63	
29 2-Chlorophenol	128	5.402	5.407	-0.005	96	485785	8.00	5.72	
30 n-Decane	43	5.450	5.454	-0.004	91	180082	8.00	0.5299	
31 1,3-Dichlorobenzene	146	5.521	5.526	-0.005	97	358165	8.00	3.63	
32 1,4-Dichlorobenzene	146	5.583	5.587	-0.004	92	373882	8.00	3.74	
33 Benzyl alcohol	108	5.697	5.706	-0.009	90	297445	8.00	5.10	
34 1,2-Dichlorobenzene	146	5.711	5.711	0.000	97	382758	8.00	3.89	
37 Indene	116	5.787	5.792	-0.005	89	1275199	16.0	8.60	
35 2,2'-oxybis[1-chloropropan	45	5.797	5.801	-0.004	89	756766	8.00	2.76	
36 2-Methylphenol	107	5.806	5.806	0.000	97	346769	8.00	5.42	
40 Acetophenone	105	5.906	5.911	-0.005	93	646396	8.00	5.62	
41 N-Nitrosodi-n-propylamine	70	5.916	5.920	-0.004	93	342805	8.00	6.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
42 3 & 4 Methylphenol	108	5.930	5.935	-0.005	92	406622	8.00	5.21	
44 Hexachloroethane	117	5.992	5.992	0.000	93	124731	8.00	2.95	
45 Nitrobenzene	77	6.049	6.049	0.000	96	496417	8.00	7.13	
47 Isophorone	82	6.249	6.253	-0.004	98	844950	8.00	6.11	
48 2-Nitrophenol	139	6.310	6.315	-0.005	97	266929	8.00	6.29	
49 2,4-Dimethylphenol	122	6.363	6.367	-0.004	97	422174	8.00	6.28	
51 Bis(2-chloroethoxy)methane	93	6.420	6.424	-0.004	92	541324	8.00	6.16	
54 2,4-Dichlorophenol	162	6.520	6.524	-0.004	95	469859	8.00	7.19	
52 Benzoic acid	122	6.491	6.539	-0.048	85	330628	16.0	6.50	
55 1,2,4-Trichlorobenzene	180	6.581	6.581	0.000	95	361039	8.00	4.74	
56 Naphthalene	128	6.643	6.648	-0.005	99	1150552	8.00	5.07	
57 4-Chloroaniline	127	6.691	6.695	-0.004	96	620742	8.00	6.24	
58 2,6-Dichlorophenol	162	6.700	6.705	-0.005	96	468662	8.00	7.05	
60 Hexachlorobutadiene	225	6.753	6.753	0.000	95	129797	8.00	2.64	
64 Caprolactam	113	7.014	7.028	-0.014	87	89269	8.00	3.73	
65 4-Chloro-3-methylphenol	107	7.109	7.114	-0.005	94	439754	8.00	7.32	
67 2-Methylnaphthalene	142	7.214	7.219	-0.005	94	824147	8.00	5.09	
68 1-Methylnaphthalene	142	7.295	7.299	-0.004	94	813814	8.00	5.36	
69 Hexachlorocyclopentadiene	237	7.352	7.356	-0.004	96	158486	8.00	2.75	
70 1,2,4,5-Tetrachlorobenzene	216	7.357	7.361	-0.004	96	425315	8.00	5.42	
72 2,4,6-Trichlorophenol	196	7.456	7.456	0.000	93	401905	8.00	7.88	
73 2,4,5-Trichlorophenol	196	7.495	7.499	-0.004	95	426782	8.00	8.12	
75 1,1'-Biphenyl	154	7.599	7.604	-0.005	95	1056693	8.00	5.91	
76 2-Chloronaphthalene	162	7.618	7.618	0.000	96	835371	8.00	5.66	
78 2-Nitroaniline	65	7.704	7.708	-0.004	82	351307	8.00	7.89	
82 Dimethyl phthalate	163	7.856	7.861	-0.005	98	1289753	8.00	7.60	
83 1,3-Dinitrobenzene	168	7.884	7.889	-0.005	82	199428	8.00	7.65	
84 2,6-Dinitrotoluene	165	7.904	7.908	-0.004	92	288327	8.00	8.14	
85 Acenaphthylene	152	7.961	7.960	0.001	98	1410561	8.00	5.97	
86 3-Nitroaniline	138	8.051	8.056	-0.005	90	247193	8.00	7.31	
87 Acenaphthene	154	8.103	8.108	-0.005	90	866532	8.00	5.71	
88 2,4-Dinitrophenol	184	8.137	8.141	-0.004	74	408198	16.0	16.3	
89 4-Nitrophenol	109	8.217	8.227	-0.010	86	279153	16.0	13.9	
91 2,4-Dinitrotoluene	165	8.241	8.241	0.000	92	416724	8.00	8.78	
92 Dibenzofuran	168	8.246	8.251	-0.005	96	1415491	8.00	6.64	
95 2,3,4,6-Tetrachlorophenol	232	8.355	8.360	-0.005	72	413925	8.00	8.64	
97 Diethyl phthalate	149	8.431	8.436	-0.005	98	1427284	8.00	8.78	
98 Hexadecane	57	8.446	8.450	-0.004	86	618030	8.00	5.37	
100 4-Chlorophenyl phenyl ethe	204	8.522	8.526	-0.004	94	595544	8.00	7.09	
102 Fluorene	166	8.526	8.531	-0.005	94	1217943	8.00	7.22	
103 4-Nitroaniline	138	8.555	8.564	-0.009	65	224609	8.00	7.12	
104 4,6-Dinitro-2-methylphenol	198	8.584	8.588	-0.004	94	492812	16.0	14.7	
106 N-Nitrosodiphenylamine	169	8.626	8.626	0.000	65	909840	8.00	7.51	
107 1,2-Diphenylhydrazine	77	8.655	8.660	-0.005	94	1133685	8.00	7.29	
114 4-Bromophenyl phenyl ether	248	8.926	8.926	0.000	63	449992	8.00	7.89	
117 Hexachlorobenzene	284	8.993	8.992	0.001	97	598682	8.00	8.75	
118 Atrazine	200	9.069	9.068	0.001	71	325048	8.00	7.56	
120 Pentachlorophenol	266	9.159	9.164	-0.005	88	666542	16.0	15.8	
123 n-Octadecane	43	9.202	9.206	-0.004	93	630891	8.00	6.73	
126 Phenanthrene	178	9.321	9.325	-0.004	97	1925304	8.00	7.69	
127 Anthracene	178	9.363	9.368	-0.005	98	2001828	8.00	7.77	
128 Carbazole	167	9.497	9.496	0.001	96	1723344	8.00	7.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
130 Di-n-butyl phthalate	149	9.772	9.772	0.000	99	2334484	8.00	8.00	
135 Fluoranthene	202	10.305	10.310	-0.005	97	2354915	8.00	8.32	
136 Benzidine	184	10.419	10.419	0.000	97	138818	8.00	1.23	7
137 Pyrene	202	10.510	10.509	0.001	94	2427865	8.00	7.65	
145 Butyl benzyl phthalate	149	11.161	11.166	-0.005	95	1150112	8.00	7.68	
147 3,3'-Dichlorobenzidine	252	11.846	11.846	0.000	98	936098	8.00	8.50	
149 Benzo[a]anthracene	228	11.870	11.874	-0.004	97	2498501	8.00	7.97	
151 Chrysene	228	11.922	11.927	-0.005	96	2419515	8.00	8.10	
150 Bis(2-ethylhexyl) phthalat	149	11.927	11.927	0.000	94	1572483	8.00	7.36	
154 Di-n-octyl phthalate	149	12.987	12.992	-0.005	99	2601275	8.00	7.87	
156 Benzo[b]fluoranthene	252	13.634	13.643	-0.009	96	2698110	8.00	8.65	
157 Benzo[k]fluoranthene	252	13.691	13.696	-0.005	98	2569294	8.00	8.22	
158 Benzo[a]pyrene	252	14.276	14.281	-0.005	95	2611672	8.00	8.85	
162 Indeno[1,2,3-cd]pyrene	276	17.120	17.134	-0.014	96	3459828	8.00	9.40	
163 Dibenz(a,h)anthracene	278	17.234	17.243	-0.009	91	2838529	8.00	9.74	
164 Benzo[g,h,i]perylene	276	17.981	17.990	-0.009	77	2912084	8.00	9.56	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SM_HIVOLISTD_00160 Amount Added: 10.00 Units: uL Run Reagent

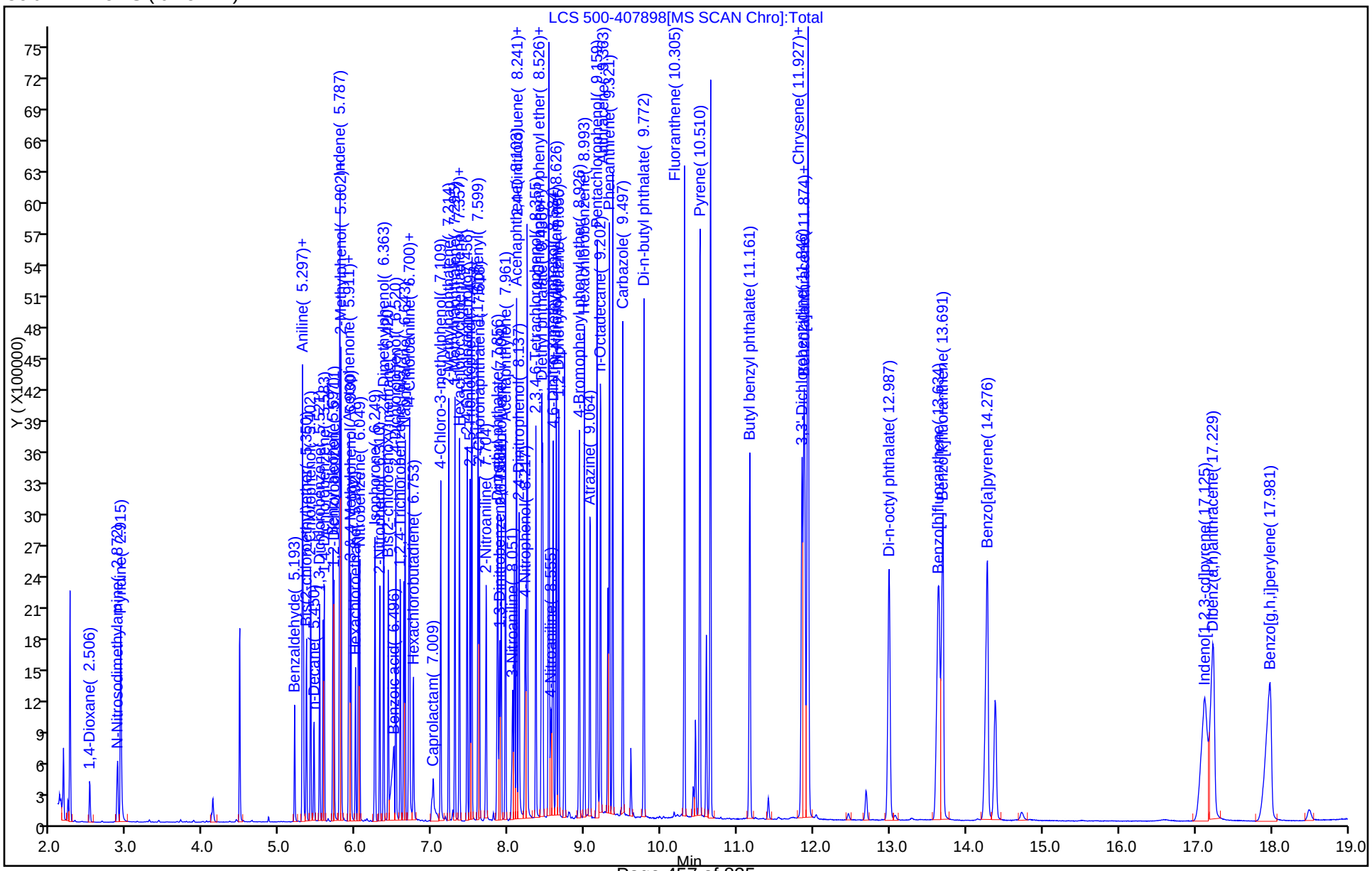
Report Date: 01-Nov-2017 15:21:32 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\LCS 500-407898.D

Injection Date:	01-Nov-2017 12:57:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	LCS 500-407898/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\LCS 500-407898.D
Lims ID: LCS 500-407898/2-A
Client ID:
Sample Type: LCS
Inject. Date: 01-Nov-2017 12:57:30 ALS Bottle#: 4 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: LCS 500-407898/2-A
Misc. Info.: 500-0048759-006
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 01-Nov-2017 15:20:36 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: rynkarg Date: 01-Nov-2017 15:20:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	10.0	6.40	63.99
$ 8 Phenol-d5	10.0	4.43	44.30
$ 9 Nitrobenzene-d5	10.0	8.43	84.27
$ 10 2-Fluorobiphenyl	10.0	8.04	80.39
$ 11 2,4,6-Tribromophenol	10.0	14.3	143.22
$ 12 Terphenyl-d14	10.0	10.8	107.52

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 500-407898/3-A

Matrix: Water | Lab File ID: LCSD 500-407898.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 13:24

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	33.7		32	12
108-95-2	Phenol	18.7		4.0	0.54
111-44-4	Bis(2-chloroethyl)ether	21.1		1.6	0.23
95-57-8	2-Chlorophenol	25.9		4.0	0.45
95-48-7	2-Methylphenol	24.3		1.6	0.24
108-60-1	2,2'-oxybis[1-chloropropane]	12.3		1.6	0.30
98-86-2	Acetophenone	25.2		4.0	0.53
621-64-7	N-Nitrosodi-n-propylamine	27.1		0.40	0.12
67-72-1	Hexachloroethane	13.6		4.0	0.48
98-95-3	Nitrobenzene	31.0		0.80	0.36
78-59-1	Isophorone	26.1		1.6	0.30
88-75-5	2-Nitrophenol	27.5		8.0	2.0
105-67-9	2,4-Dimethylphenol	27.3		8.0	1.4
111-91-1	Bis(2-chloroethoxy)methane	27.1		1.6	0.23
120-83-2	2,4-Dichlorophenol	31.4		8.0	2.1
91-20-3	Naphthalene	21.5		0.80	0.25
106-47-8	4-Chloroaniline	27.4		8.0	1.6
87-68-3	Hexachlorobutadiene	11.5		4.0	0.41
105-60-2	Caprolactam	15.3		8.0	1.2
59-50-7	4-Chloro-3-methylphenol	31.6		8.0	1.8
91-57-6	2-Methylnaphthalene	21.1		1.6	0.052
77-47-4	Hexachlorocyclopentadiene	11.7	J	16	5.1
88-06-2	2,4,6-Trichlorophenol	32.7		4.0	0.57
95-95-4	2,4,5-Trichlorophenol	34.2		8.0	2.1
92-52-4	1,1'-Biphenyl	24.0		4.0	0.29
91-58-7	2-Chloronaphthalene	23.3		1.6	0.19
88-74-4	2-Nitroaniline	32.4		4.0	1.0
131-11-3	Dimethyl phthalate	31.2		4.0	0.25
606-20-2	2,6-Dinitrotoluene	33.0		0.80	0.059
208-96-8	Acenaphthylene	24.5		0.80	0.21
99-09-2	3-Nitroaniline	30.1		8.0	1.4
83-32-9	Acenaphthene	23.4		0.80	0.25
51-28-5	2,4-Dinitrophenol	65.4		16	6.9
100-02-7	4-Nitrophenol	56.5		16	5.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 500-407898/3-A

Matrix: Water | Lab File ID: LCSD 500-407898.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 13:24

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
132-64-9	Dibenzofuran	27.1		1.6	0.21
121-14-2	2,4-Dinitrotoluene	34.7		0.80	0.20
84-66-2	Diethyl phthalate	35.3		4.0	0.29
86-73-7	Fluorene	28.9		0.80	0.20
7005-72-3	4-Chlorophenyl phenyl ether	27.9		4.0	0.51
100-01-6	4-Nitroaniline	28.1		8.0	1.3
534-52-1	4,6-Dinitro-2-methylphenol	59.1		16	4.7
86-30-6	N-Nitrosodiphenylamine	29.3		1.6	0.30
101-55-3	4-Bromophenyl phenyl ether	31.1		4.0	0.43
118-74-1	Hexachlorobenzene	34.1		0.40	0.064
1912-24-9	Atrazine	29.7		4.0	0.50
87-86-5	Pentachlorophenol	62.6		16	3.2
85-01-8	Phenanthrene	30.8		0.80	0.24
120-12-7	Anthracene	30.5		0.80	0.27
86-74-8	Carbazole	31.0		4.0	0.28
84-74-2	Di-n-butyl phthalate	31.6		4.0	0.58
206-44-0	Fluoranthene	33.1		0.80	0.36
129-00-0	Pyrene	30.9		0.80	0.34
85-68-7	Butyl benzyl phthalate	31.0		1.6	0.38
91-94-1	3,3'-Dichlorobenzidine	33.6		4.0	1.4
56-55-3	Benzo[a]anthracene	32.1		0.16	0.045
218-01-9	Chrysene	32.5		0.16	0.055
117-81-7	Bis(2-ethylhexyl) phthalate	30.1		8.0	1.4
117-84-0	Di-n-octyl phthalate	31.7		8.0	0.84
205-99-2	Benzo[b]fluoranthene	34.7		0.16	0.065
207-08-9	Benzo[k]fluoranthene	32.6		0.16	0.051
50-32-8	Benzo[a]pyrene	34.7		0.16	0.079
193-39-5	Indeno[1,2,3-cd]pyrene	37.9		0.16	0.060
53-70-3	Dibenz(a,h)anthracene	39.0		0.24	0.041
191-24-2	Benzo[g,h,i]perylene	38.4		0.80	0.30
15831-10-4	3 & 4 Methylphenol	23.6		1.6	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 500-407898/3-A

Matrix: Water | Lab File ID: LCSD 500-407898.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/01/2017 08:17

Sample wt/vol: 250(mL) | Date Analyzed: 11/01/2017 13:24

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 407918 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	76		27-110
4165-62-2	Phenol-d5 (Surr)	54		20-100
4165-60-0	Nitrobenzene-d5 (Surr)	95		36-120
321-60-8	2-Fluorobiphenyl (Surr)	91		34-110
118-79-6	2,4,6-Tribromophenol (Surr)	152	X	40-145
1718-51-0	Terphenyl-d14 (Surr)	114		40-145

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\LCSD 500-407898.D
Lims ID: LCSD 500-407898/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 01-Nov-2017 13:24:30 ALS Bottle#: 5 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: LCS 500-407898/2-A
Misc. Info.: 500-0048759-007
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 01-Nov-2017 21:36:06 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: rynkarg Date: 01-Nov-2017 15:21:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.569	5.568	0.001	96	213371	3.20	3.20	
* 2 Naphthalene-d8	136	6.624	6.629	-0.005	100	762665	3.20	3.20	
* 3 Acenaphthene-d10	164	8.075	8.075	0.000	97	388928	3.20	3.20	
* 4 Phenanthrene-d10	188	9.302	9.302	0.000	97	772686	3.20	3.20	
* 5 Chrysene-d12	240	11.884	11.889	-0.005	99	850496	3.20	3.20	
* 6 Perylene-d12	264	14.381	14.385	-0.004	99	975151	3.20	3.20	
$ 7 2-Fluorophenol	112	4.475	4.475	0.000	93	448829	10.0	7.63	
$ 8 Phenol-d5	99	5.297	5.307	-0.010	92	468491	10.0	5.35	
$ 9 Nitrobenzene-d5	82	6.030	6.034	-0.004	97	710062	10.0	9.50	
$ 10 2-Fluorobiphenyl	172	7.518	7.518	0.000	99	1487149	10.0	9.09	
$ 11 2,4,6-Tribromophenol	330	8.731	8.736	-0.005	65	574334	10.0	15.2	
$ 12 Terphenyl-d14	244	10.648	10.647	0.001	100	2376663	10.0	11.4	
13 1,4-Dioxane	88	2.506	2.511	-0.005	91	107227	8.00	4.71	
14 N-Nitrosodimethylamine	42	2.872	2.891	-0.019	72	323225	8.00	4.48	
15 Pyridine	79	2.910	2.920	-0.010	75	551062	16.0	7.60	
23 Benzaldehyde	77	5.193	5.197	-0.004	87	172545	8.00	8.43	
26 Aniline	93	5.297	5.302	-0.005	95	651218	8.00	5.12	
25 Phenol	94	5.312	5.316	-0.004	96	414274	8.00	4.68	
27 Bis(2-chloroethyl)ether	93	5.350	5.354	-0.004	89	421357	8.00	5.28	
29 2-Chlorophenol	128	5.407	5.407	0.000	96	524966	8.00	6.47	
30 n-Decane	43	5.450	5.454	-0.004	92	197925	8.00	0.7503	
31 1,3-Dichlorobenzene	146	5.521	5.526	-0.005	97	390026	8.00	4.14	
32 1,4-Dichlorobenzene	146	5.583	5.587	-0.004	93	409890	8.00	4.30	
33 Benzyl alcohol	108	5.697	5.706	-0.009	90	310604	8.00	5.58	
34 1,2-Dichlorobenzene	146	5.711	5.711	0.000	97	421096	8.00	4.48	
37 Indene	116	5.787	5.792	-0.005	90	1371173	16.0	9.69	
35 2,2'-oxybis[1-chloropropan	45	5.797	5.801	-0.004	89	806054	8.00	3.08	
36 2-Methylphenol	107	5.806	5.806	0.000	97	371411	8.00	6.08	
40 Acetophenone	105	5.906	5.911	-0.005	93	689789	8.00	6.29	
41 N-Nitrosodi-n-propylamine	70	5.916	5.920	-0.004	93	364230	8.00	6.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
42 3 & 4 Methylphenol	108	5.930	5.935	-0.005	91	440208	8.00	5.91	
44 Hexachloroethane	117	5.992	5.992	0.000	93	137782	8.00	3.41	
45 Nitrobenzene	77	6.049	6.049	0.000	96	528942	8.00	7.76	
47 Isophorone	82	6.249	6.253	-0.004	98	883812	8.00	6.53	
48 2-Nitrophenol	139	6.310	6.315	-0.005	97	285769	8.00	6.88	
49 2,4-Dimethylphenol	122	6.363	6.367	-0.004	97	448671	8.00	6.82	
51 Bis(2-chloroethoxy)methane	93	6.420	6.424	-0.004	93	582972	8.00	6.77	
54 2,4-Dichlorophenol	162	6.520	6.524	-0.004	95	502546	8.00	7.86	
52 Benzoic acid	122	6.496	6.539	-0.043	85	298747	16.0	6.00	
55 1,2,4-Trichlorobenzene	180	6.581	6.581	0.000	94	381293	8.00	5.11	
56 Naphthalene	128	6.643	6.648	-0.005	99	1193234	8.00	5.38	
57 4-Chloroaniline	127	6.691	6.695	-0.004	96	665757	8.00	6.84	
58 2,6-Dichlorophenol	162	6.700	6.705	-0.005	95	494375	8.00	7.60	
60 Hexachlorobutadiene	225	6.753	6.753	0.000	95	137573	8.00	2.86	
64 Caprolactam	113	7.010	7.028	-0.018	87	89677	8.00	3.82	
65 4-Chloro-3-methylphenol	107	7.109	7.114	-0.005	94	465245	8.00	7.91	
67 2-Methylnaphthalene	142	7.214	7.219	-0.005	94	836051	8.00	5.28	
68 1-Methylnaphthalene	142	7.295	7.299	-0.004	93	809585	8.00	5.45	
69 Hexachlorocyclopentadiene	237	7.352	7.356	-0.004	94	167626	8.00	2.94	
70 1,2,4,5-Tetrachlorobenzene	216	7.357	7.361	-0.004	96	436989	8.00	5.64	
72 2,4,6-Trichlorophenol	196	7.457	7.456	0.001	93	412589	8.00	8.19	
73 2,4,5-Trichlorophenol	196	7.495	7.499	-0.004	94	444443	8.00	8.55	
75 1,1'-Biphenyl	154	7.599	7.604	-0.005	93	1063192	8.00	6.01	
76 2-Chloronaphthalene	162	7.618	7.618	0.000	96	851448	8.00	5.83	
78 2-Nitroaniline	65	7.704	7.708	-0.004	82	356511	8.00	8.10	
82 Dimethyl phthalate	163	7.856	7.861	-0.005	98	1306770	8.00	7.79	
83 1,3-Dinitrobenzene	168	7.885	7.889	-0.004	81	196233	8.00	7.61	
84 2,6-Dinitrotoluene	165	7.904	7.908	-0.004	92	289321	8.00	8.26	
85 Acenaphthylene	152	7.956	7.960	-0.004	98	1427416	8.00	6.12	
86 3-Nitroaniline	138	8.051	8.056	-0.005	91	251459	8.00	7.52	
87 Acenaphthene	154	8.103	8.108	-0.005	91	878525	8.00	5.85	
88 2,4-Dinitrophenol	184	8.137	8.141	-0.004	74	404301	16.0	16.3	
89 4-Nitrophenol	109	8.217	8.227	-0.010	87	280482	16.0	14.1	
91 2,4-Dinitrotoluene	165	8.241	8.241	0.000	92	406873	8.00	8.67	
92 Dibenzofuran	168	8.246	8.251	-0.005	96	1427409	8.00	6.77	
95 2,3,4,6-Tetrachlorophenol	232	8.355	8.360	-0.005	72	407598	8.00	8.61	
97 Diethyl phthalate	149	8.431	8.436	-0.005	98	1417698	8.00	8.82	
98 Hexadecane	57	8.446	8.450	-0.004	86	625099	8.00	5.52	
100 4-Chlorophenyl phenyl ethe	204	8.522	8.526	-0.004	93	578830	8.00	6.97	
102 Fluorene	166	8.527	8.531	-0.004	94	1204678	8.00	7.22	
103 4-Nitroaniline	138	8.560	8.564	-0.004	64	218874	8.00	7.01	
104 4,6-Dinitro-2-methylphenol	198	8.584	8.588	-0.004	91	491461	16.0	14.8	
106 N-Nitrosodiphenylamine	169	8.626	8.626	0.000	65	878720	8.00	7.32	
107 1,2-Diphenylhydrazine	77	8.655	8.660	-0.005	94	1127734	8.00	7.33	
114 4-Bromophenyl phenyl ether	248	8.926	8.926	0.000	64	439266	8.00	7.78	
117 Hexachlorobenzene	284	8.993	8.992	0.001	97	577470	8.00	8.52	
118 Atrazine	200	9.064	9.068	-0.004	71	316570	8.00	7.44	
120 Pentachlorophenol	266	9.159	9.164	-0.005	88	655944	16.0	15.7	
123 n-Octadecane	43	9.202	9.206	-0.004	93	637165	8.00	6.92	
126 Phenanthrene	178	9.321	9.325	-0.004	97	1907409	8.00	7.70	
127 Anthracene	178	9.364	9.368	-0.004	98	1949139	8.00	7.63	
128 Carbazole	167	9.497	9.496	0.001	96	1689587	8.00	7.75	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
130 Di-n-butyl phthalate	149	9.772	9.772	0.000	99	2284358	8.00	7.91	
135 Fluoranthene	202	10.305	10.310	-0.005	97	2318085	8.00	8.27	
136 Benzidine	184	10.419	10.419	0.000	97	98450	8.00	0.9080	7
137 Pyrene	202	10.505	10.509	-0.004	94	2362411	8.00	7.73	
145 Butyl benzyl phthalate	149	11.161	11.166	-0.005	95	1118185	8.00	7.75	
147 3,3'-Dichlorobenzidine	252	11.841	11.846	-0.005	98	890926	8.00	8.40	
149 Benzo[a]anthracene	228	11.870	11.874	-0.004	97	2420829	8.00	8.01	
151 Chrysene	228	11.922	11.927	-0.005	96	2337368	8.00	8.13	
150 Bis(2-ethylhexyl) phthalat	149	11.927	11.927	0.000	94	1546679	8.00	7.52	
154 Di-n-octyl phthalate	149	12.983	12.992	-0.010	99	2595516	8.00	7.93	
156 Benzo[b]fluoranthene	252	13.634	13.643	-0.009	96	2650154	8.00	8.68	
157 Benzo[k]fluoranthene	252	13.691	13.696	-0.005	98	2489258	8.00	8.14	
158 Benzo[a]pyrene	252	14.271	14.281	-0.010	95	2507169	8.00	8.68	
162 Indeno[1,2,3-cd]pyrene	276	17.120	17.134	-0.014	95	3411533	8.00	9.47	
163 Dibenz(a,h)anthracene	278	17.229	17.243	-0.014	91	2783293	8.00	9.76	
164 Benzo[g,h,i]perylene	276	17.976	17.990	-0.014	76	2864089	8.00	9.61	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SM_HIVOLISTD_00160 Amount Added: 10.00 Units: uL Run Reagent

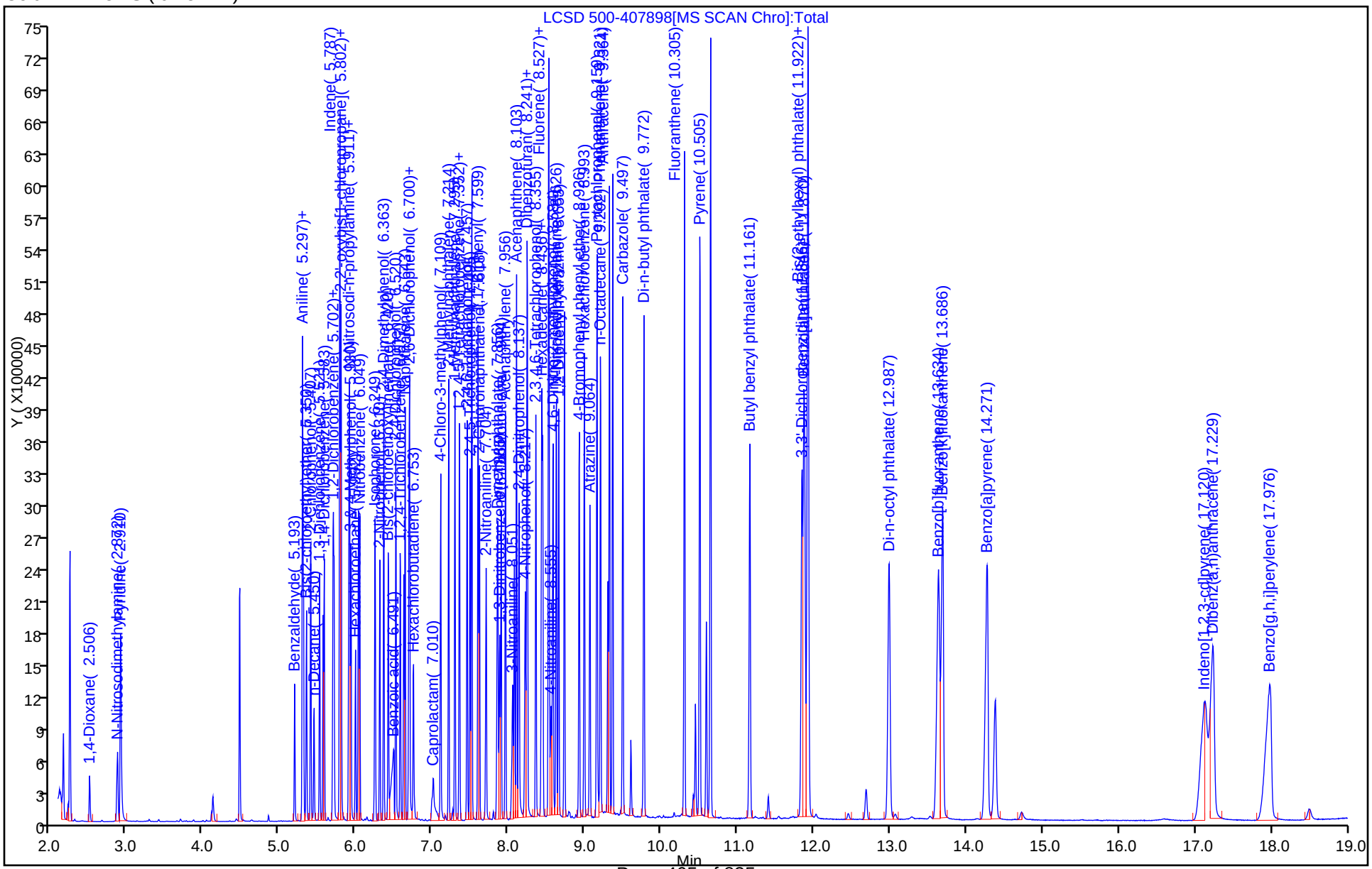
Report Date: 01-Nov-2017 21:36:07 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\LCSD 500-407898.D

Injection Date:	01-Nov-2017 13:24:30	Instrument ID:	CMS12	Operator ID:	AD
Lims ID:	LCSD 500-407898/3-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	12-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\LCSD 500-407898.D
Lims ID: LCSD 500-407898/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 01-Nov-2017 13:24:30 ALS Bottle#: 5 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: LCS 500-407898/2-A
Misc. Info.: 500-0048759-007
Operator ID: AD Instrument ID: CMS12

Method: \\ChromNA\Chicago\ChromData\CMS12\20171101-48759.b\12-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 01-Nov-2017 21:36:06 Calib Date: 25-Oct-2017 12:10:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS12\20171025-48593.b\12C1025e.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: rynkarg Date: 01-Nov-2017 15:21:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	10.0	7.63	76.33
$ 8 Phenol-d5	10.0	5.35	53.53
$ 9 Nitrobenzene-d5	10.0	9.50	94.97
$ 10 2-Fluorobiphenyl	10.0	9.09	90.93
$ 11 2,4,6-Tribromophenol	10.0	15.2	152.03
$ 12 Terphenyl-d14	10.0	11.4	114.38

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: CMS12 Start Date: 09/27/2017 12:29

Analysis Batch Number: 402944 End Date: 09/27/2017 18:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-402944/1		09/27/2017 12:29	1	12D0927B.D	ZB5MS 0.25(mm)
IC 500-402944/2		09/27/2017 13:02	1	L1STD2.D	ZB5MS 0.25(mm)
IC 500-402944/3		09/27/2017 13:31	1	L1STD02.D	ZB5MS 0.25(mm)
IC 500-402944/4		09/27/2017 14:01	1	L1STD05.D	ZB5MS 0.25(mm)
IC 500-402944/5		09/27/2017 14:30	1	L1STD1.D	ZB5MS 0.25(mm)
IC 500-402944/6		09/27/2017 14:59	1	L1STD5.D	ZB5MS 0.25(mm)
IC 500-402944/7		09/27/2017 15:29	1	L1STD10.D	ZB5MS 0.25(mm)
IC 500-402944/8		09/27/2017 15:58	1	L1STD20.D	ZB5MS 0.25(mm)
ICIS 500-402944/9		09/27/2017 16:28	1	L1STD40.D	ZB5MS 0.25(mm)
IC 500-402944/10		09/27/2017 16:57	1	L1STD50.D	ZB5MS 0.25(mm)
IC 500-402944/11		09/27/2017 17:27	1	L1STD60.D	ZB5MS 0.25(mm)
IC 500-402944/12		09/27/2017 17:56	1	L1STD70.D	ZB5MS 0.25(mm)
ICV 500-402944/13		09/27/2017 18:26	1	L1ICV.D	ZB5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: CMS12 Start Date: 11/01/2017 10:43

Analysis Batch Number: 407918 End Date: 11/01/2017 20:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-407918/1		11/01/2017 10:43	1	12D1101.D	ZB5MS 0.25(mm)
CCVIS 500-407918/2		11/01/2017 11:10	1	12C1101.D	ZB5MS 0.25(mm)
CCVL 500-407918/4		11/01/2017 12:04	1	12C1101b.D	ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 12:30	1		ZB5MS 0.25(mm)
LCS 500-407898/2-A		11/01/2017 12:57	1	LCS 500-407898.D	ZB5MS 0.25(mm)
LCSD 500-407898/3-A		11/01/2017 13:24	1	LCSD 500-407898.D	ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 13:51	1		ZB5MS 0.25(mm)
MB 500-407898/1-A		11/01/2017 14:18	1	MB 500-407898.D	ZB5MS 0.25(mm)
500-136532-2		11/01/2017 14:45	1	500-136532-E-2-A.D	ZB5MS 0.25(mm)
500-136532-1		11/01/2017 15:11	50	500-136532-E-1-A.D	ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 16:06	1		ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 16:33	5		ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 17:00	1		ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 17:27	1		ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 17:54	1		ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 18:20	1		ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 19:14	1		ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 19:41	1		ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 20:07	1		ZB5MS 0.25(mm)
ZZZZZ		11/01/2017 20:34	1		ZB5MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Batch Number: 407898 Batch Start Date: 11/01/17 08:17 Batch Analyst: Corona, Dayamara X

Batch Method: 3510C Batch End Date: 11/01/17 10:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	EXBNAL1SPW 00190
MB 500-407898/1		3510C, 8270D		6 SU	250 mL	1.0 mL	2 SU	12 SU	
LCS 500-407898/2		3510C, 8270D		6 SU	250 mL	1.0 mL	2 SU	12 SU	200 uL
LCSD 500-407898/3		3510C, 8270D		6 SU	250 mL	1.0 mL	2 SU	12 SU	200 uL
500-136532-E-1	CRMS-SW-02-103117	3510C, 8270D	T	7 SU	250 mL	2.0 mL	2 SU	12 SU	
500-136532-E-2	CRMS-SW-03-103117	3510C, 8270D	T	7 SU	250 mL	1.0 mL	2 SU	12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXBNASURTS 00042					
MB 500-407898/1		3510C, 8270D		100 uL					
LCS 500-407898/2		3510C, 8270D		100 uL					
LCSD 500-407898/3		3510C, 8270D		100 uL					
500-136532-E-1	CRMS-SW-02-103117	3510C, 8270D	T	100 uL					
500-136532-E-2	CRMS-SW-03-103117	3510C, 8270D	T	100 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Batch Number: 407898 Batch Start Date: 11/01/17 08:17 Batch Analyst: Corona, Dayamara X

Batch Method: 3510C Batch End Date: 11/01/17 10:00

Batch Notes	
Acid used for pH adjustment	H2SO4
Acid Used for pH Adjustment ID	4428400
Base used for pH adjustment	10 N NaOH
Base Used to Adjust pH ID	4506981
Batch Comment	Glass wool:4379465
Concentration End Time	1150
Concentration Start Time	1030
Analyst ID - Concentration	NJ
Final Concentrator Volume	1.0 mL
N-evap ID	0655
N-evap Temperature	30.5 Degrees C
Na2SO4 ID	4487367
Prep Solvent ID	4507245
Prep Solvent Name	DCM
Person's name who did the prep	BSO/DC/NG
Analyst ID - Spike Analyst	BSO
Analyst ID - Spike Witness Analyst	DC
Sufficient volume for MS/MSD?	N
Syringe ID	A83, A85
Uncorrected N-evap Temperature	30.0 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Matrix: Water Level: Low

GC Column (2): ZB-5 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX2 #	DCBP2 #
CRMS-SW-02-103117	500-136532-1	49	111
CRMS-SW-03-103117	500-136532-2	95	59
	MB 500-407914/1-A	91	51
	LCS 500-407914/4-A	83	45
	LCSD 500-407914/5-A	85	54

	QC LIMITS
TCX = Tetrachloro-m-xylene	30-120
DCBP = DCB Decachlorobiphenyl	30-140

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 103017_132.D

Lab ID: LCS 500-407914/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	4.00	3.97	99	56-120	
PCB-1260	4.00	3.32	83	53-137	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 103017_133.D

Lab ID: LCSD 500-407914/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	4.00	4.04	101	2	20	56-120	
PCB-1260	4.00	3.50	87	5	20	53-137	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: MB 500-407914/1-A

Matrix: Water Date Extracted: 11/01/2017 10:02

Lab File ID:(1) Lab File ID:(2) 103017_131.D

Date Analyzed:(1) Date Analyzed:(2) 11/07/2017 19:11

Instrument ID:(1) Instrument ID:(2) INST31-32

GC Column:(1) ID: GC Column:(2) ZB-5 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 500-407914/4-A		11/07/2017 19:28
	LCSD 500-407914/5-A		11/07/2017 19:44
CRMS-SW-02-103117	500-136532-1		11/07/2017 20:00
CRMS-SW-03-103117	500-136532-2		11/07/2017 20:16

FORM VIII
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Sample No.: ICIS 500-407585/3 Date Analyzed: 10/30/2017 12:34

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 103017_003.D Heated Purge: (Y/N) N

Calibration ID: 25675

		BNB					
		HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
INITIAL CALIBRATION MID-POINT		46172	0.93				
UPPER LIMIT		92344	1.43				
LOWER LIMIT		23086	0.43				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-407585/11		42603	0.92				
CCVIS 500-408844/1		42348	0.93				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Sample No.: CCVIS 500-408844/1 Date Analyzed: 11/07/2017 15:57

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 103017_119.D Heated Purge: (Y/N) N

Calibration ID: 25691

		BNB					
		HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
12/24 HOUR STD		42348	0.93				
UPPER LIMIT		84696	1.43				
LOWER LIMIT		21174	0.43				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 500-407914/1-A		41024	0.93				
LCS 500-407914/4-A		43001	0.92				
LCSD 500-407914/5-A		41571	0.92				
500-136532-1	CRMS-SW-02-103117	38906	0.92				
500-136532-2	CRMS-SW-03-103117	42017	0.92				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 500-407914/4-A

Instrument ID (1): Instrument ID (2): INST31-32

Date Analyzed (1): Date Analyzed (2): 11/07/2017 19:28

GC Column (1): ID: GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.45	3.45	3.47	3.80	3.97	
		2	3.61	3.61	3.63	4.64		
		3	3.83	3.83	3.85	3.88		
		4	3.91	3.91	3.93	3.90		
		5	4.36	4.36	4.38	3.62		
PCB-1260	1	1	5.22	5.19	5.25	3.32	3.32	
		2	5.39	5.36	5.42	3.37		
		3	5.58	5.56	5.62	3.20		
		4	5.86	5.84	5.90	3.48		
		5	6.26	6.23	6.29	3.21		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 500-407914/5-A

Instrument ID (1): Instrument ID (2): INST31-32

Date Analyzed (1): Date Analyzed (2): 11/07/2017 19:44

GC Column (1): ID: GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.45	3.45	3.47	3.91	4.04	
		2	3.61	3.61	3.63	4.68		
		3	3.83	3.83	3.85	4.06		
		4	3.91	3.91	3.93	3.87		
		5	4.37	4.36	4.38	3.66		
PCB-1260	1	1	5.22	5.19	5.25	3.45	3.50	
		2	5.39	5.36	5.42	3.44		
		3	5.58	5.56	5.62	3.32		
		4	5.87	5.84	5.90	3.79		
		5	6.26	6.23	6.29	3.49		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-02-103117 | Lab Sample ID: 500-136532-1

Matrix: Water | Lab File ID: 103017_134.D

Analysis Method: 8082A | Date Collected: 10/31/2017 08:05

Extraction Method: 3510C | Date Extracted: 11/01/2017 10:02

Sample wt/vol: 250(mL) | Date Analyzed: 11/07/2017 20:00

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 10

Injection Volume: 5(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408844 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	<4.0		4.0	0.67
11104-28-2	PCB-1221	<4.0		4.0	2.0
11141-16-5	PCB-1232	<4.0		4.0	2.0
53469-21-9	PCB-1242	<4.0		4.0	2.0
12672-29-6	PCB-1248	<4.0		4.0	2.0
11097-69-1	PCB-1254	<4.0		4.0	2.0
11096-82-5	PCB-1260	<4.0		4.0	0.70

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	49		30-120
2051-24-3	DCB Decachlorobiphenyl	111		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_134.D
Lims ID: 500-136532-F-1-A
Client ID: CRMS-SW-02-103117
Sample Type: Client
Inject. Date: 07-Nov-2017 20:00:40 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 5.0 ul Dil. Factor: 10.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048894-016
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 08-Nov-2017 11:48:45 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 20:00:40
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 20:16:51
Process Host: XAWRK021

First Level Reviewer: hamnerb Date: 08-Nov-2017 11:48:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene						
1	0.924	0.924	0.000	38906H	0.0200	
2	1.416	1.416	0.000	220939H	0.0200	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.696	2.700	-0.004	1256H	0.000389	
2	2.580	2.580	0.000	5858H	0.000287	
					RPD = 30.34	
11 PCB-1232						
1		2.916			ND	
1		3.068				
1		3.448				
1		3.828				
1		3.908				
2		2.920				
2		3.112				
2		3.484				
2		3.852				
2		3.960				
6 PCB-1221						
1		2.924			ND	
1		3.024				
1		3.076				
2		2.928				
2		3.064				
2		3.120				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
14 PCB-1242						
1		3.448			ND	
1		3.608				
1		3.828				
1		3.972				
1		4.364				
2		3.484				
2		3.852				
2		3.960				
2		4.416				
2		4.632				
1 PCB-1016						
1		3.456			ND	
1		3.616				
1		3.836				
1		3.916				
1		4.372				
2		3.116				
2		3.856				
2		3.964				
2		4.048				
2		4.420				
7 PCB-1248						
1		3.824			ND	
1		4.268				
1		4.360				
1		4.596				
1		4.720				
2		3.848				
2		4.324				
2		4.600				
2		4.412				
2		4.800				
13 PCB-1254						
1		4.604			ND	
1		4.772				
1		5.044				
1		5.228				
1		5.588				
2		4.640				
2		4.772				
2		5.100				
2		5.256				
2		5.492				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
15 PCB-1260						
1		5.224			ND	
1		5.392				
1		5.588				
1		5.872				
1		6.260				
2		5.240				
2		5.380				
2		5.492				
2		5.892				
2		6.312				
9 PCB-1262						
1		5.700			ND	
1		5.864				
1		6.052				
1		6.348				
2		5.888				
2		6.056				
2		6.300				
2		6.692				
16 PCB-1268						
1		6.312			ND	
1		6.348				
1		6.540				
1		6.596				
1		6.680				
2		6.300				
2		6.332				
2		6.508				
2		6.572				
2		6.692				
8 1260 Res 1						
1		6.508			ND	
2		4.232				
2 1260 Res 2						
1		6.620			ND	
2		4.400				
5 1260 Res 3						
1		6.660			ND	
2		4.928				
$ 10 DCB Decachlorobiphenyl						
1	7.132	7.132	0.000	2506H	0.000887	
2	7.096	7.096	0.000	4592H	0.000424	
					RPD = 70.58	
S 12 Polychlorinated biphenyls, Total						
1		0.000			ND	

Reagents:

IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

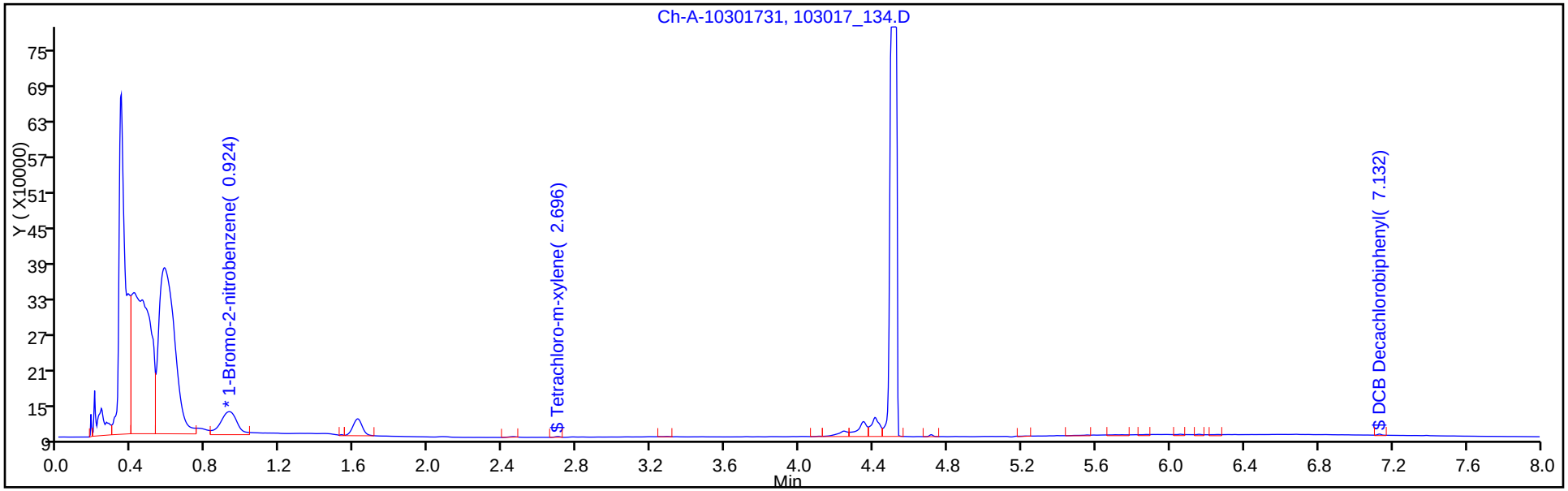
Report Date: 08-Nov-2017 11:48:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

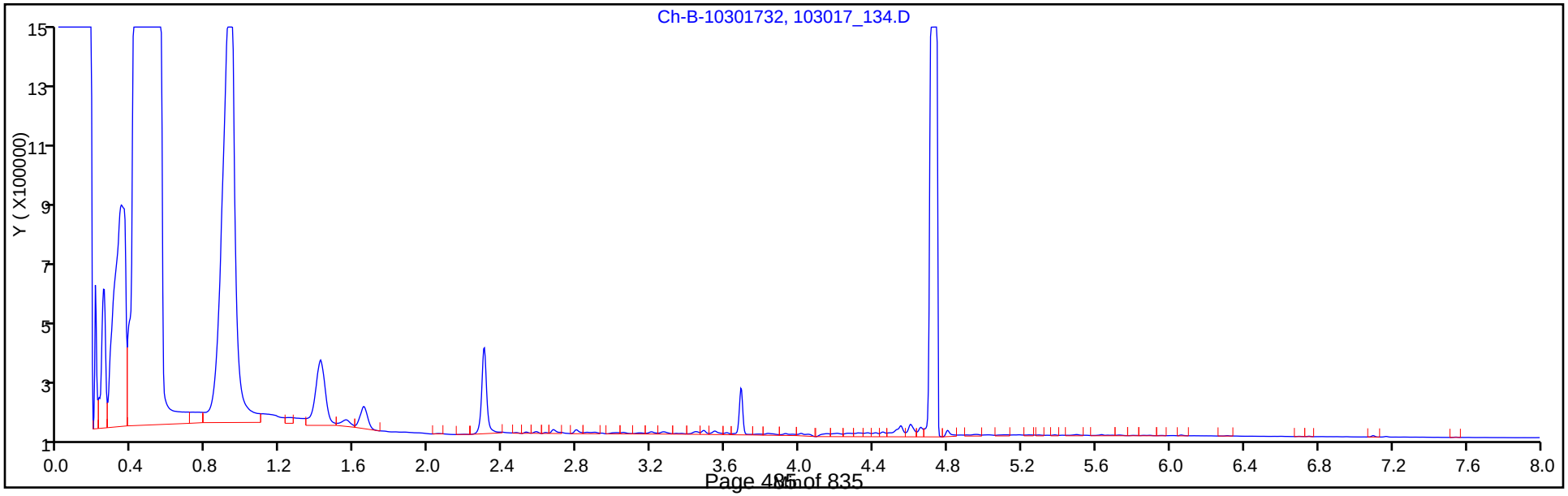
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_134.D

Injection Date:	07-Nov-2017 20:00:40	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	500-136532-F-1-A	Lab Sample ID:	500-136532-1	Worklist Smp#:	16
Client ID:	CRMS-SW-02-103117				
Injection Vol:	5.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_134.D
Lims ID: 500-136532-F-1-A
Client ID: CRMS-SW-02-103117
Sample Type: Client
Inject. Date: 07-Nov-2017 20:00:40 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 5.0 ul Dil. Factor: 10.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048894-016
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 08-Nov-2017 11:48:45 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 20:00:40
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 20:16:51
Process Host: XAWRK021

First Level Reviewer: hamnerb Date: 08-Nov-2017 11:48:45

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.000389	48.66
$ 10 DCB Decachlorobiphenyl	0.008000	0.000887	110.84

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.000287	35.84
$ 10 DCB Decachlorobiphenyl	0.008000	0.000424	53.02

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: CRMS-SW-03-103117 | Lab Sample ID: 500-136532-2

Matrix: Water | Lab File ID: 103017_135.D

Analysis Method: 8082A | Date Collected: 10/31/2017 08:25

Extraction Method: 3510C | Date Extracted: 11/01/2017 10:02

Sample wt/vol: 250(mL) | Date Analyzed: 11/07/2017 20:16

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408844 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	<0.40		0.40	0.067
11104-28-2	PCB-1221	<0.40		0.40	0.20
11141-16-5	PCB-1232	<0.40		0.40	0.20
53469-21-9	PCB-1242	<0.40		0.40	0.20
12672-29-6	PCB-1248	<0.40		0.40	0.20
11097-69-1	PCB-1254	<0.40		0.40	0.20
11096-82-5	PCB-1260	<0.40		0.40	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		30-120
2051-24-3	DCB Decachlorobiphenyl	59		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_135.D
Lims ID: 500-136532-F-2-A
Client ID: CRMS-SW-03-103117
Sample Type: Client
Inject. Date: 07-Nov-2017 20:16:51 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048894-017
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 08-Nov-2017 11:49:04 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 20:16:51
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 20:33:00
Process Host: XAWRK021

First Level Reviewer: hamnerb Date: 08-Nov-2017 11:49:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene						
1	0.924	0.924	0.000	42017H	0.0200	
2	1.416	1.416	0.000	547376H	0.0200	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.696	2.700	-0.004	26426H	0.007584	
2	2.580	2.580	0.000	308227H	0.006089	
					RPD = 21.86	
11 PCB-1232						
1		2.916			ND	
1		3.068				
1		3.448				
1		3.828				
1		3.908				
2		2.920				
2		3.112				
2		3.484				
2		3.852				
2		3.960				
6 PCB-1221						
1		2.924			ND	
1		3.024				
1		3.076				
2		2.928				
2		3.064				
2		3.120				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
14 PCB-1242						
1		3.448			ND	
1		3.608				
1		3.828				
1		3.972				
1		4.364				
2		3.484				
2		3.852				
2		3.960				
2		4.416				
2		4.632				
1 PCB-1016						
1		3.456			ND	
1		3.616				
1		3.836				
1		3.916				
1		4.372				
2		3.116				
2		3.856				
2		3.964				
2		4.048				
2		4.420				
7 PCB-1248						
1		3.824			ND	
1		4.268				
1		4.360				
1		4.596				
1		4.720				
2		3.848				
2		4.324				
2		4.600				
2		4.412				
2		4.800				
13 PCB-1254						
1		4.604			ND	
1		4.772				
1		5.044				
1		5.228				
1		5.588				
2		4.640				
2		4.772				
2		5.100				
2		5.256				
2		5.492				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
15 PCB-1260						
1		5.224			ND	
1		5.392				
1		5.588				
1		5.872				
1		6.260				
2		5.240				
2		5.380				
2		5.492				
2		5.892				
2		6.312				
9 PCB-1262						
1		5.700			ND	
1		5.864				
1		6.052				
1		6.348				
2		5.888				
2		6.056				
2		6.300				
2		6.692				
16 PCB-1268						
1		6.312			ND	
1		6.348				
1		6.540				
1		6.596				
1		6.680				
2		6.300				
2		6.332				
2		6.508				
2		6.572				
2		6.692				
8 1260 Res 1						
1		6.508			ND	
2		4.232				
2 1260 Res 2						
1		6.620			ND	
2		4.400				
5 1260 Res 3						
1		6.660			ND	
2		4.928				
$ 10 DCB Decachlorobiphenyl						
1	7.128	7.132	-0.004	14456H	0.004736	
2	7.096	7.096	0.000	78385H	0.002922	
					RPD = 47.37	
S 12 Polychlorinated biphenyls, Total						
1		0.000			ND	

Reagents:

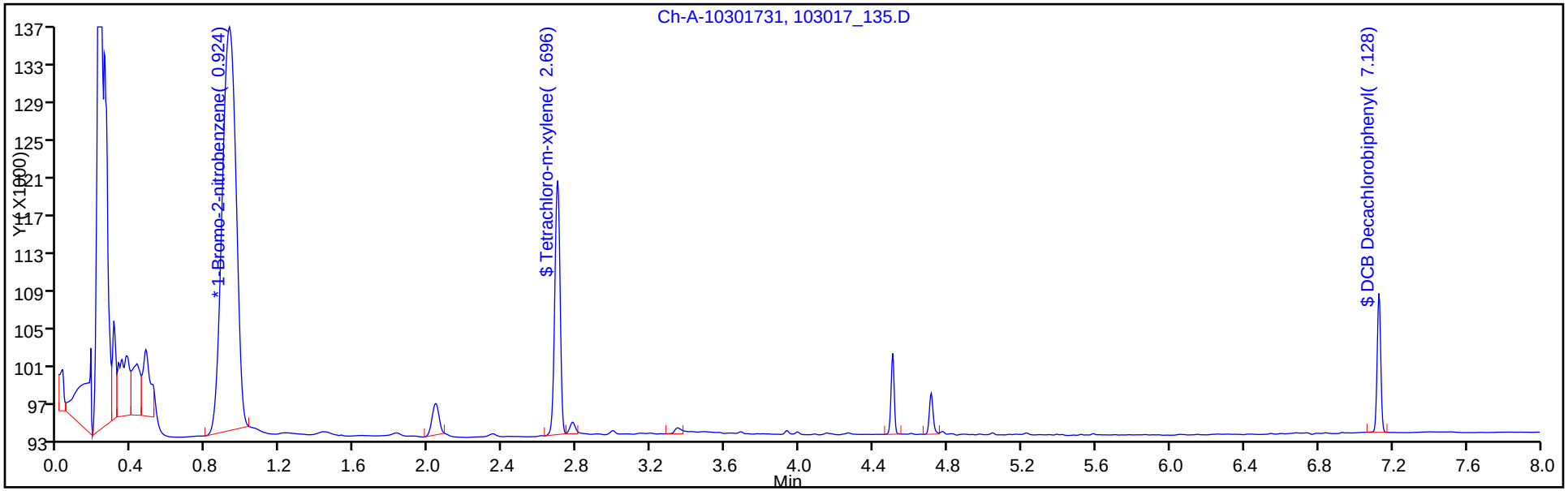
IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Nov-2017 11:49:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

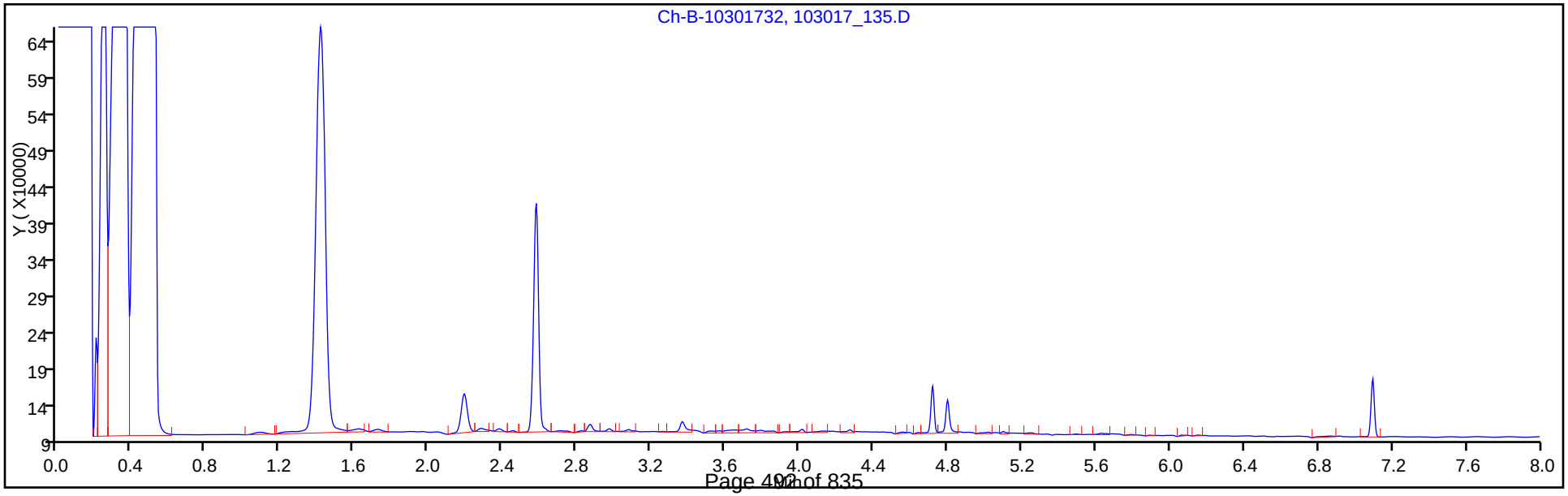
TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_135.D				
Injection Date:	07-Nov-2017 20:16:51	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	500-136532-F-2-A	Lab Sample ID:	500-136532-2	Worklist Smp#:	17
Client ID:	CRMS-SW-03-103117				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_135.D
Lims ID: 500-136532-F-2-A
Client ID: CRMS-SW-03-103117
Sample Type: Client
Inject. Date: 07-Nov-2017 20:16:51 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048894-017
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 08-Nov-2017 11:49:04 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 20:16:51
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 20:33:00
Process Host: XAWRK021

First Level Reviewer: hamnerb Date: 08-Nov-2017 11:49:04

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.007584	94.80
$ 10 DCB Decachlorobiphenyl	0.008000	0.004736	59.21

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.006089	76.11
$ 10 DCB Decachlorobiphenyl	0.008000	0.002922	36.53

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 12:01 Calibration End Date: 10/30/2017 13:23 Calibration ID: 25675

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/6	103017_006.D
Level 2	IC 500-407585/5	103017_005.D
Level 3	IC 500-407585/4	103017_004.D
Level 4	ICIS 500-407585/3	103017_003.D
Level 5	IC 500-407585/2	103017_002.D
Level 6	IC 500-407585/1	103017_001.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0448 0.0404	0.0476	0.0420	0.0407	0.0420	Ave		0.0429				6.5		20.0			
PCB-1016 Peak 2	0.0302 0.0302	0.0327	0.0297	0.0320	0.0305	Ave		0.0309				3.9		20.0			
PCB-1016 Peak 3	0.1158 0.1072	0.1163	0.1104	0.1145	0.1194	Ave		0.1139				3.9		20.0			
PCB-1016 Peak 4	0.0549 0.0468	0.0550	0.0515	0.0509	0.0528	Ave		0.0520				5.9		20.0			
PCB-1016 Peak 5	0.0489 0.0446	0.0498	0.0448	0.0448	0.0467	Ave		0.0466				4.8		20.0			
PCB-1260 Peak 1	0.0933 0.0887	0.0932	0.0842	0.0858	0.0897	Ave		0.0892				4.2		20.0			
PCB-1260 Peak 2	0.1097 0.1083	0.1131	0.1002	0.1022	0.1112	Ave		0.1075				4.8		20.0			
PCB-1260 Peak 3	0.1323 0.1401	0.1355	0.1249	0.1314	0.1419	Ave		0.1344				4.6		20.0			
PCB-1260 Peak 4	0.0744 0.0688	0.0726	0.0657	0.0652	0.0712	Ave		0.0697				5.4		20.0			
PCB-1260 Peak 5	0.0920 0.0875	0.0869	0.0753	0.0775	0.0851	Ave		0.0840				7.6		20.0			
Tetrachloro-m-xylene	1.5798 1.7194	1.4684	1.6619	1.7607	1.7616	Ave		1.6586				7.0		20.0			
DCB Decachlorobiphenyl	1.4856 1.7162	1.3295	1.2924	1.3725	1.5206	Ave		1.4528				10.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 12:01 Calibration End Date: 10/30/2017 13:23 Calibration ID: 25675

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/6	103017_006.D
Level 2	IC 500-407585/5	103017_005.D
Level 3	IC 500-407585/4	103017_004.D
Level 4	ICIS 500-407585/3	103017_003.D
Level 5	IC 500-407585/2	103017_002.D
Level 6	IC 500-407585/1	103017_001.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	799 18026	2009	4622	9401	13806	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1016 Peak 2	BNB	Ave	539 13465	1382	3266	7395	10048	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1016 Peak 3	BNB	Ave	2065 47857	4910	12147	26430	39280	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1016 Peak 4	BNB	Ave	979 20894	2320	5674	11759	17373	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1016 Peak 5	BNB	Ave	871 19919	2101	4932	10348	15365	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1260 Peak 1	BNB	Ave	1663 39617	3936	9271	19815	29524	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1260 Peak 2	BNB	Ave	1955 48352	4776	11031	23599	36602	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1260 Peak 3	BNB	Ave	2359 62563	5722	13749	30337	46700	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1260 Peak 4	BNB	Ave	1326 30738	3065	7228	15054	23427	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1260 Peak 5	BNB	Ave	1640 39058	3668	8285	17895	28010	0.00800 0.200	0.0200	0.0500	0.100	0.150
Tetrachloro-m-xylene	BNB	Ave	2816 61421	4959	14635	32518	46373	0.000800 0.0160	0.00160	0.00400	0.00800	0.0120
DCB Decachlorobiphenyl	BNB	Ave	2648 61305	4490	11381	25348	40029	0.000800 0.0160	0.00160	0.00400	0.00800	0.0120

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_001.D
Lims ID: IC AR16606
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Oct-2017 12:01:55 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-001
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:27 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 12:01:55
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 12:18:04
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 12:43:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.928	0.920	0.008	44653H	0.0200	0.0200	
2	1.424	1.424	0.000	483831H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.692	2.688	0.004	61421H	0.0160	0.0166	
2	2.584	2.584	0.000	828668H	0.0160	0.0185	
						RPD = 11.02	
1 PCB-1016							
1	3.448	3.444	0.004	18026H	0.2000	0.1882	
1	3.608	3.604	0.004	13465H	0.2000	0.1952	
1	3.828	3.824	0.004	47857H	0.2000	0.1882	
1	3.908	3.904	0.004	20894H	0.2000	0.1800	
1	4.364	4.360	0.004	19919H	0.2000	0.1915	
2	3.116	3.116	0.000	123023H	0.2000	0.1791	
2	3.856	3.856	0.000	555941H	0.2000	0.1995	
2	3.964	3.964	0.000	238825H	0.2000	0.1833	
2	4.048	4.048	0.000	114958H	0.2000	0.1680	
2	4.420	4.416	0.004	207183H	0.2000	0.1880	
						RPD = 2.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.216	5.212	0.004	39617H	0.2000	0.1990	
1	5.388	5.384	0.004	48352H	0.2000	0.2015	
1	5.584	5.580	0.004	62563H	0.2000	0.2085	
1	5.864	5.860	0.004	30738H	0.2000	0.1977	
1	6.256	6.252	0.004	39058H	0.2000	0.2082	
2	5.240	5.236	0.004	442237H	0.2000	0.1965	
2	5.380	5.380	0.000	260125H	0.2000	0.1960	
2	5.492	5.488	0.004	406848H	0.2000	0.2083	
2	5.892	5.892	0.000	312387H	0.2000	0.1826	
2	6.312	6.308	0.004	464588H	0.2000	0.1963	
						RPD = 3.53	
$ 10 DCB Decachlorobiphenyl							
1	7.124	7.120	0.004	61305H	0.0160	0.0189	
2	7.100	7.096	0.004	420861H	0.0160	0.0178	
						RPD = 6.27	
S 12 Polychlorinated biphenyls, Total							
1						0.1886	

Reagents:

AR1660-6 LVI_00004	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

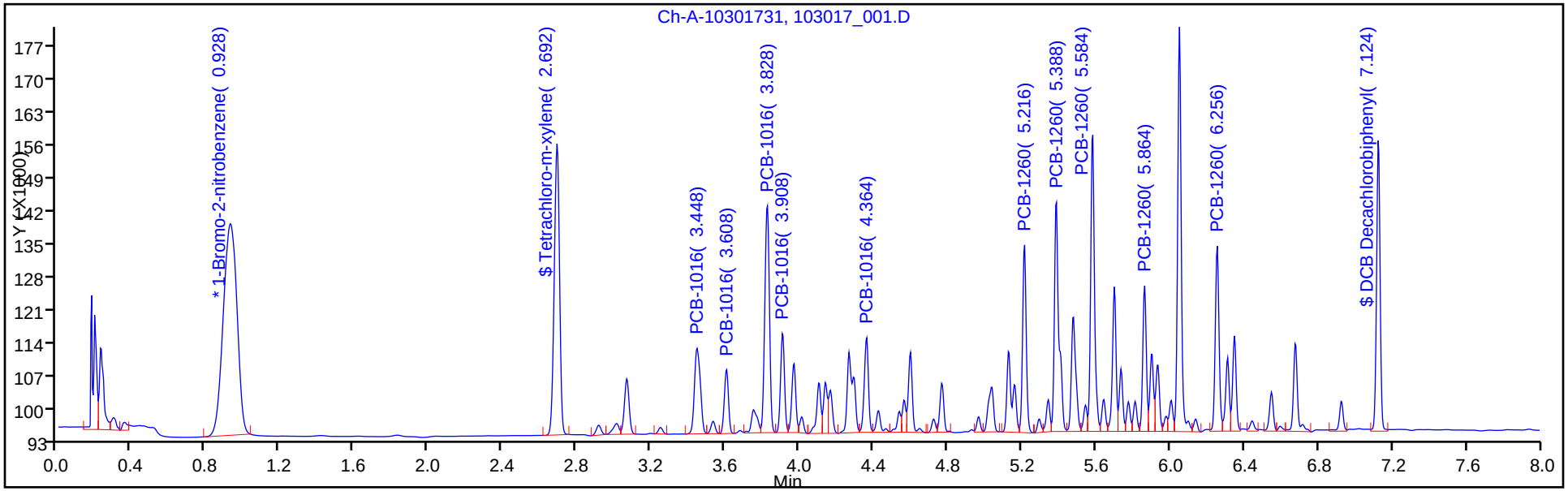
Report Date: 30-Oct-2017 16:56:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

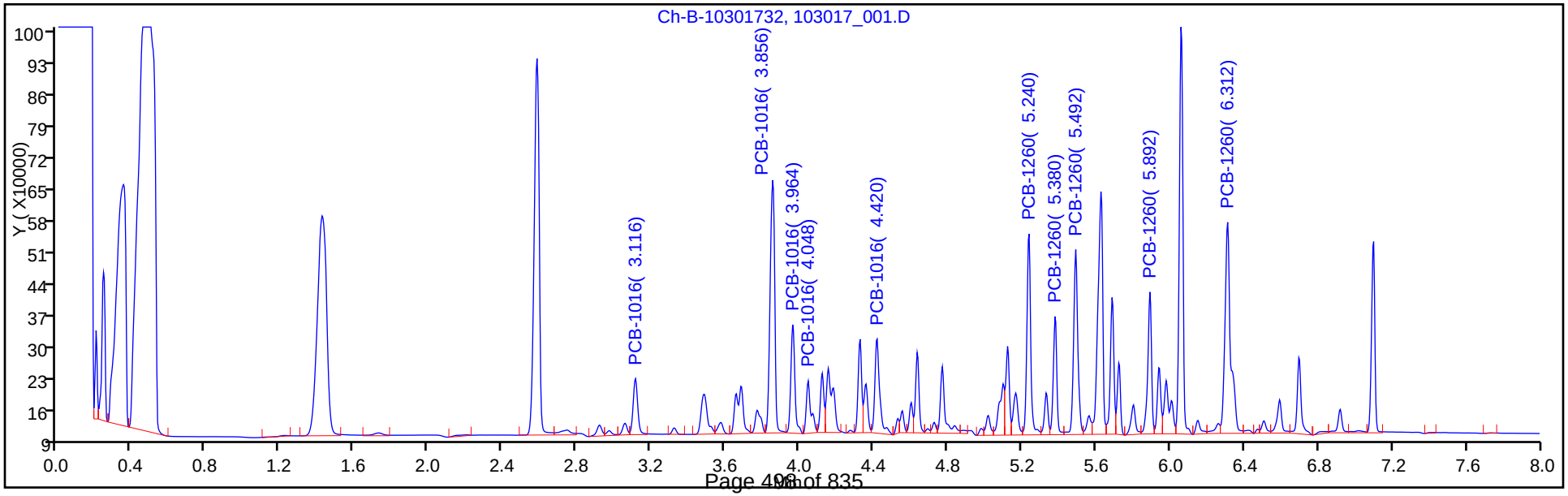
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_001.D

Injection Date:	30-Oct-2017 12:01:55	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR16606			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_002.D
Lims ID: IC AR16605
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Oct-2017 12:18:04 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-002
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:29 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 12:18:04
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 12:34:14
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 14:50:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.924	0.920	0.004	43874H	0.0200	0.0200	
2	1.424	1.424	0.000	484554H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.688	2.688	0.000	46373H	0.0120	0.0127	
2	2.584	2.584	0.000	571152H	0.0120	0.0127	
						RPD = 0.01	
1 PCB-1016							
1	3.444	3.444	0.000	13806H	0.1500	0.1467	
1	3.604	3.604	0.000	10048H	0.1500	0.1483	
1	3.824	3.824	0.000	39280H	0.1500	0.1572	
1	3.908	3.904	0.004	17373H	0.1500	0.1523	
1	4.360	4.360	0.000	15365H	0.1500	0.1503	
2	3.116	3.116	0.000	94984H	0.1500	0.1381	
2	3.856	3.856	0.000	444022H	0.1500	0.1591	
2	3.964	3.964	0.000	195498H	0.1500	0.1498	
2	4.048	4.048	0.000	93186H	0.1500	0.1360	
2	4.416	4.416	0.000	162676H	0.1500	0.1474	
						RPD = 3.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.212	5.212	0.000	29524H	0.1500	0.1509	
1	5.384	5.384	0.000	36602H	0.1500	0.1553	
1	5.580	5.580	0.000	46700H	0.1500	0.1584	
1	5.860	5.860	0.000	23427H	0.1500	0.1533	
1	6.252	6.252	0.000	28010H	0.1500	0.1519	
2	5.240	5.236	0.004	349223H	0.1500	0.1549	
2	5.380	5.380	0.000	220375H	0.1500	0.1658	
2	5.492	5.488	0.004	308222H	0.1500	0.1576	
2	5.892	5.892	0.000	280613H	0.1500	0.1638	
2	6.312	6.308	0.004	402971H	0.1500	0.1700	
						RPD = 5.33	
$ 10 DCB Decachlorobiphenyl							
1	7.124	7.120	0.004	40029H	0.0120	0.0126	
2	7.096	7.096	0.000	340589H	0.0120	0.0143	
						RPD = 13.26	
S 12 Polychlorinated biphenyls, Total							
1						0.1509	

Reagents:

AR1660-5 LVI_00003	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

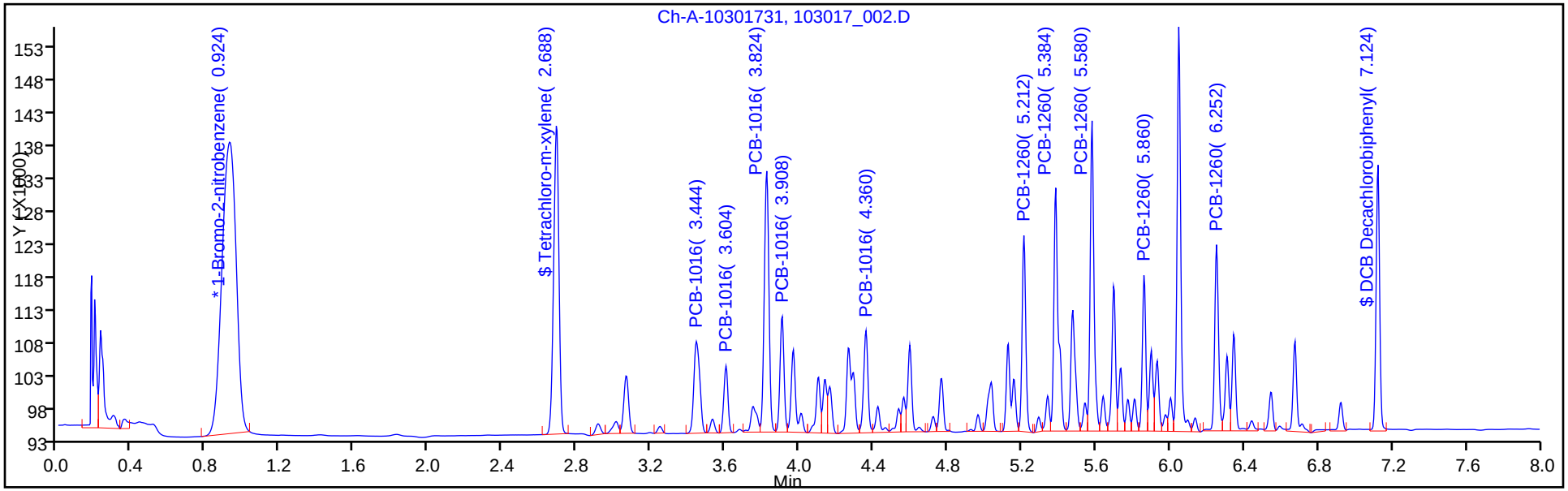
Report Date: 30-Oct-2017 16:56:29 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

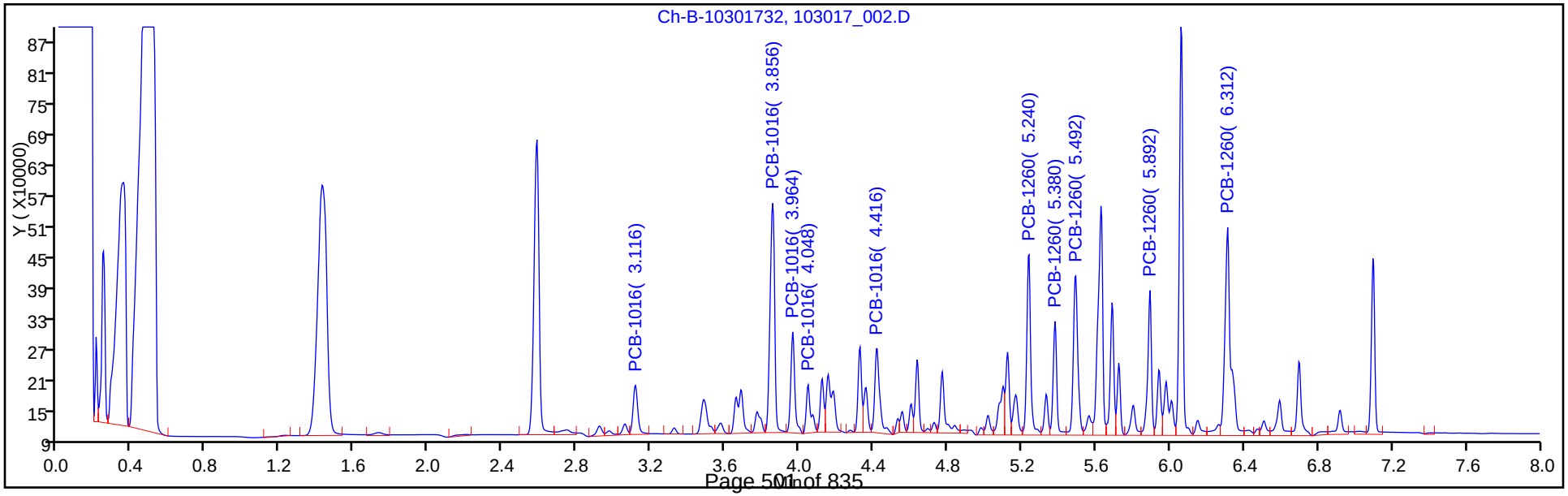
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_002.D

Injection Date:	30-Oct-2017 12:18:04	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR16605			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_003.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 30-Oct-2017 12:34:14 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-003
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:30 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 12:34:14
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 12:50:25
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 13:43:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.928	0.928	0.000	46172H	0.0200	0.0200	
2	1.424	1.424	0.000	506461H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.688	2.688	0.000	32518H	0.008000	0.008492	
2	2.584	2.584	0.000	414134H	0.008000	0.008842	
						RPD = 4.04	
1 PCB-1016							
1	3.444	3.444	0.000	9401H	0.1000	0.0949	
1	3.604	3.604	0.000	7395H	0.1000	0.1037	
1	3.824	3.824	0.000	26430H	0.1000	0.1005	
1	3.904	3.904	0.000	11759H	0.1000	0.0980	
1	4.360	4.360	0.000	10348H	0.1000	0.0962	
2	3.116	3.116	0.000	68876H	0.1000	0.0958	
2	3.856	3.856	0.000	288488H	0.1000	0.0989	
2	3.964	3.964	0.000	127739H	0.1000	0.0937	
2	4.048	4.048	0.000	69099H	0.1000	0.0965	
2	4.416	4.416	0.000	109235H	0.1000	0.0947	
						RPD = 2.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.212	5.212	0.000	19815H	0.1000	0.0963	
1	5.384	5.384	0.000	23599H	0.1000	0.0951	
1	5.580	5.580	0.000	30337H	0.1000	0.0978	
1	5.860	5.860	0.000	15054H	0.1000	0.0936	
1	6.252	6.252	0.000	17895H	0.1000	0.0922	
2	5.236	5.236	0.000	213755H	0.1000	0.0907	
2	5.380	5.380	0.000	155326H	0.1000	0.1118	
2	5.488	5.488	0.000	182282H	0.1000	0.0892	
2	5.892	5.892	0.000	158983H	0.1000	0.0888	
2	6.308	6.308	0.000	213706H	0.1000	0.0863	
						RPD = 1.77	
$ 10 DCB Decachlorobiphenyl							
1	7.120	7.120	0.000	25348H	0.008000	0.007558	
2	7.096	7.096	0.000	206357H	0.008000	0.008315	
						RPD = 9.54	

Reagents:

1660-LVI-4_00007	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

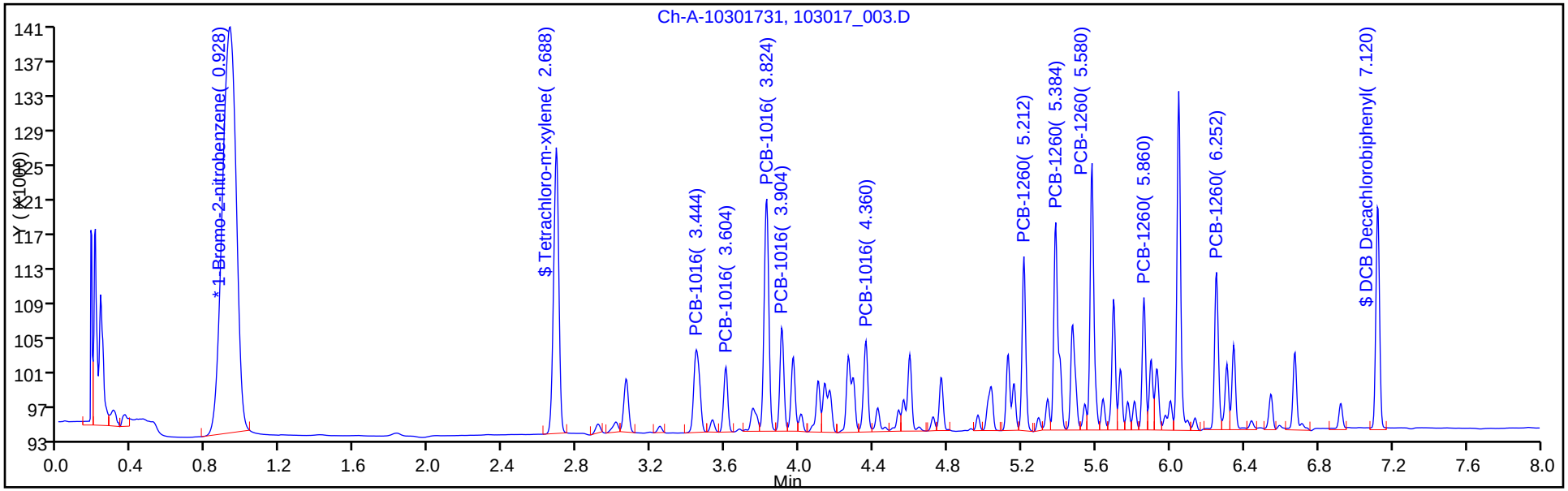
Report Date: 30-Oct-2017 16:56:31 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

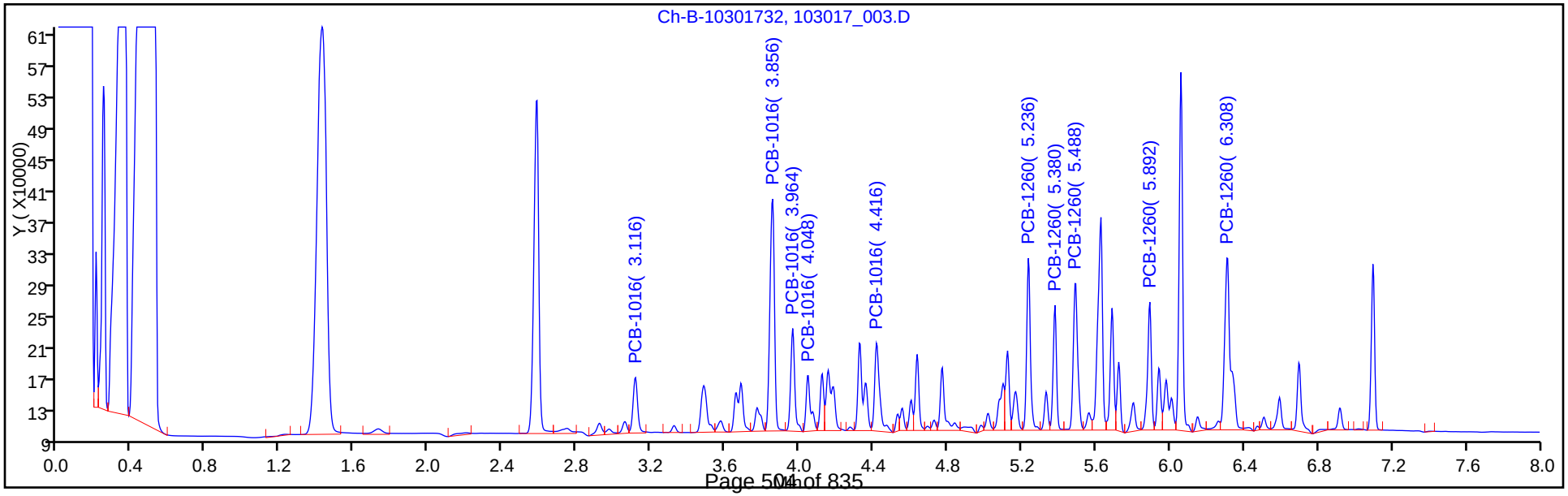
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_003.D

Injection Date:	30-Oct-2017 12:34:14	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	ICIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_004.D
Lims ID: IC AR16603
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Oct-2017 12:50:25 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-004
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:32 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 12:50:25
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 13:06:50
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 14:31:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	44030H	0.0200	0.0200	
2	1.428	1.428	0.000	530211H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.688	2.688	0.000	14635H	0.004000	0.004008	
2	2.580	2.580	0.000	180801H	0.004000	0.003687	
						RPD = 8.33	
1 PCB-1016							
1	3.444	3.444	0.000	4622H	0.0500	0.0489	
1	3.604	3.604	0.000	3266H	0.0500	0.0480	
1	3.824	3.824	0.000	12147H	0.0500	0.0484	
1	3.908	3.908	0.000	5674H	0.0500	0.0496	
1	4.360	4.360	0.000	4932H	0.0500	0.0481	
2	3.116	3.116	0.000	38212H	0.0500	0.0508	
2	3.856	3.856	0.000	147289H	0.0500	0.0482	
2	3.964	3.964	0.000	72160H	0.0500	0.0505	
2	4.048	4.048	0.000	36910H	0.0500	0.0492	
2	4.416	4.416	0.000	63435H	0.0500	0.0525	
						RPD = 3.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.212	5.212	0.000	9271H	0.0500	0.0472	
1	5.384	5.384	0.000	11031H	0.0500	0.0466	
1	5.580	5.580	0.000	13749H	0.0500	0.0465	
1	5.860	5.860	0.000	7228H	0.0500	0.0471	
1	6.252	6.252	0.000	8285H	0.0500	0.0448	
2	5.236	5.236	0.000	123419H	0.0500	0.0500	
2	5.380	5.380	0.000	70983H	0.0500	0.0488	
2	5.488	5.488	0.000	105148H	0.0500	0.0491	
2	5.892	5.892	0.000	93144H	0.0500	0.0497	
2	6.308	6.308	0.000	124015H	0.0500	0.0478	
						RPD = 5.53	
$ 10 DCB Decachlorobiphenyl							
1	7.124	7.124	0.000	11381H	0.004000	0.003558	
2	7.096	7.096	0.000	99562H	0.004000	0.003832	
						RPD = 7.40	
S 12 Polychlorinated biphenyls, Total							
1						0.0486	

Reagents:

AR1660-3 LVI_00004	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

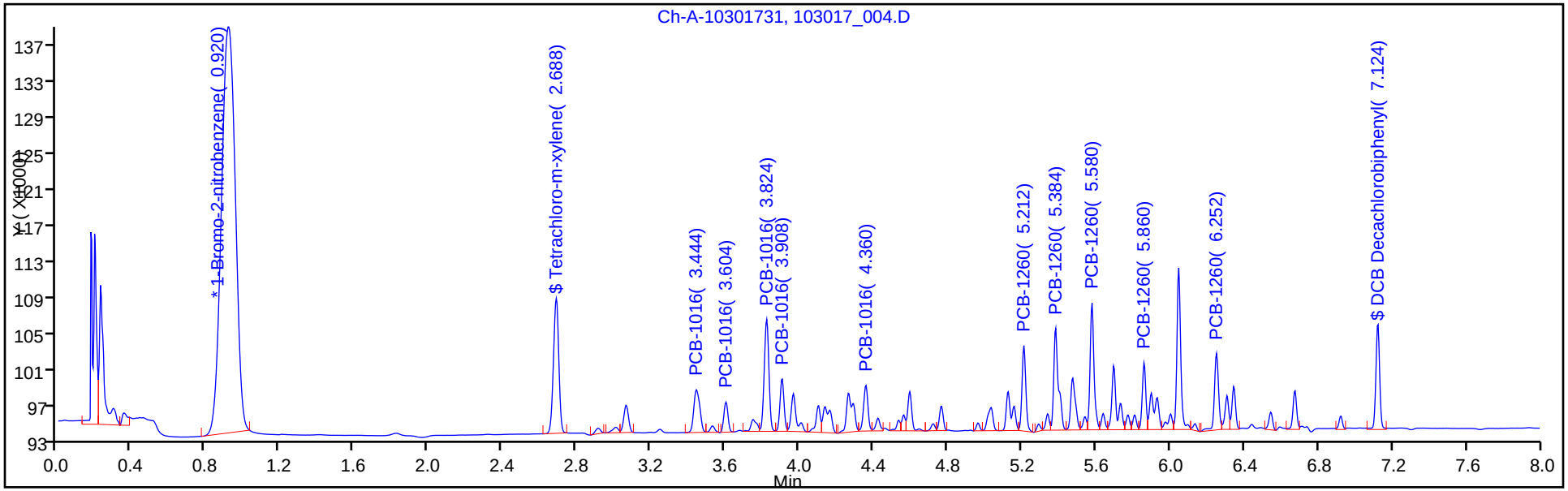
Report Date: 30-Oct-2017 16:56:33 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

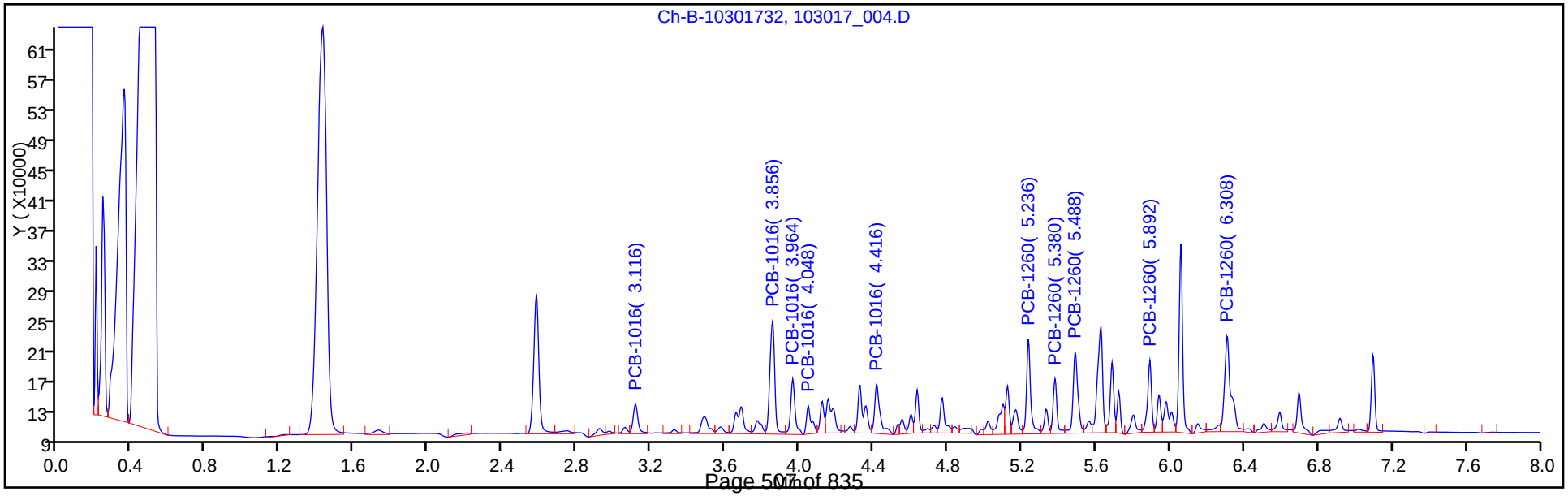
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_004.D

Injection Date:	30-Oct-2017 12:50:25	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR16603			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_005.D
Lims ID: IC AR16602
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Oct-2017 13:06:50 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-005
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:34 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 13:06:50
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 13:23:00
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 14:13:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.916	0.920	-0.004	42214H	0.0200	0.0200	
2	1.428	1.428	0.000	509262H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.688	2.688	0.000	4959H	0.001600	0.001416	
2	2.580	2.580	0.000	62168H	0.001600	0.001320	
						RPD = 7.05	
1 PCB-1016							
1	3.444	3.444	0.000	2009H	0.0200	0.0222	
1	3.604	3.604	0.000	1382H	0.0200	0.0212	
1	3.824	3.824	0.000	4910H	0.0200	0.0204	
1	3.908	3.908	0.000	2320H	0.0200	0.0211	
1	4.360	4.360	0.000	2101H	0.0200	0.0214	
2	3.116	3.116	0.000	16461H	0.0200	0.0228	
2	3.852	3.856	-0.004	60678H	0.0200	0.0207	
2	3.964	3.964	0.000	32292H	0.0200	0.0235	
2	4.048	4.048	0.000	16215H	0.0200	0.0225	
2	4.416	4.416	0.000	28106H	0.0200	0.0242	
						RPD = 6.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.212	5.212	0.000	3936H	0.0200	0.0209	
1	5.384	5.384	0.000	4776H	0.0200	0.0211	
1	5.580	5.580	0.000	5722H	0.0200	0.0202	
1	5.860	5.860	0.000	3065H	0.0200	0.0208	
1	6.252	6.252	0.000	3668H	0.0200	0.0207	
2	5.236	5.236	0.000	52412H	0.0200	0.0221	
2	5.380	5.380	0.000	28575H	0.0200	0.0205	
2	5.488	5.488	0.000	44875H	0.0200	0.0218	
2	5.892	5.892	0.000	40086H	0.0200	0.0223	
2	6.308	6.308	0.000	52438H	0.0200	0.0210	
						RPD = 3.83	
$ 10 DCB Decachlorobiphenyl							
1	7.124	7.124	0.000	4490H	0.001600	0.001464	
2	7.096	7.096	0.000	33051H	0.001600	0.001324	
						RPD = 10.03	
S 12 Polychlorinated biphenyls, Total							
1						0.0213	

Reagents:

AR1660-2 LVI_00003	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

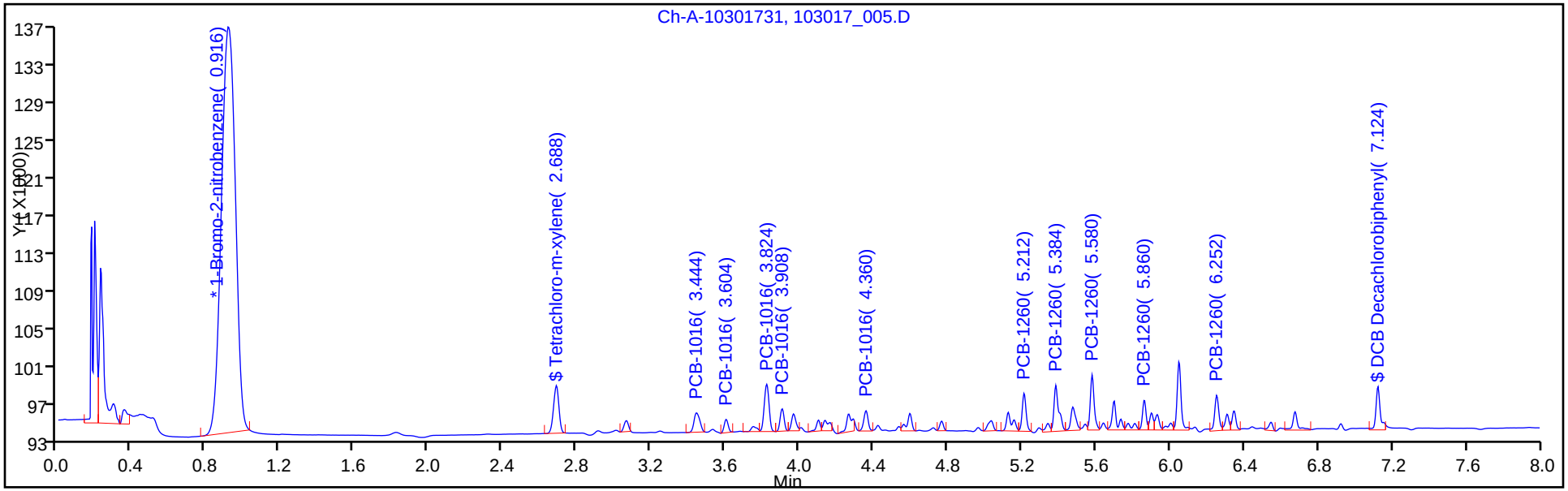
Report Date: 30-Oct-2017 16:56:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

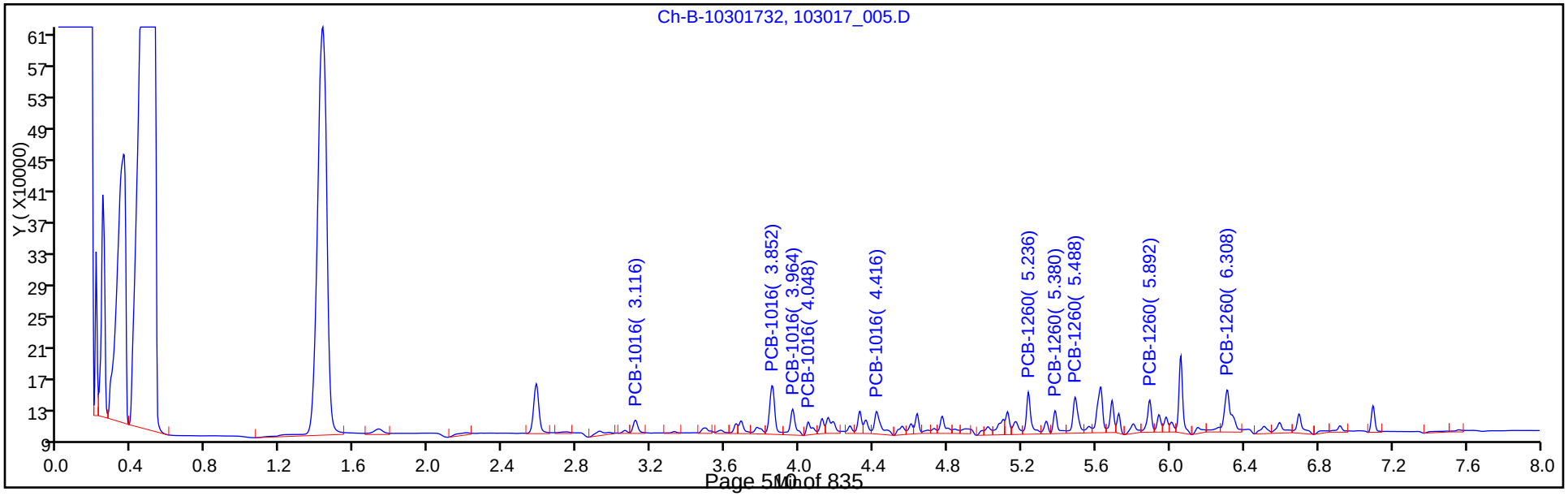
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_005.D

Injection Date:	30-Oct-2017 13:06:50	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR16602			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_006.D
Lims ID: IC AR16601
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Oct-2017 13:23:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-006
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:36 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 13:23:00
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 13:39:07
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 14:06:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	44562H	0.0200	0.0200	
2	1.424	1.428	-0.004	505752H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.688	2.688	0.000	2816H	0.000800	0.000762	
2	2.580	2.580	0.000	34729H	0.000800	0.000743	
						RPD = 2.58	
1 PCB-1016							M
1	3.444	3.444	0.000	799H	0.008000	0.008357	
1	3.608	3.604	0.004	539H	0.008000	0.007830	M
1	3.824	3.824	0.000	2065H	0.008000	0.008135	
1	3.908	3.908	0.000	979H	0.008000	0.008451	
1	4.360	4.360	0.000	871H	0.008000	0.008390	
2	3.116	3.116	0.000	6156H	0.008000	0.008575	M
2	3.852	3.856	-0.004	22216H	0.008000	0.007627	M
2	3.964	3.964	0.000	10457H	0.008000	0.007678	M
2	4.048	4.048	0.000	6736H	0.008000	0.009420	M
2	4.416	4.416	0.000	8010H	0.008000	0.006952	M
						RPD = 2.24	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.212	5.212	0.000	1663H	0.008000	0.008370	
1	5.384	5.384	0.000	1955H	0.008000	0.008165	
1	5.580	5.580	0.000	2359H	0.008000	0.007879	
1	5.860	5.860	0.000	1326H	0.008000	0.008544	
1	6.252	6.252	0.000	1640H	0.008000	0.008758	
2	5.236	5.236	0.000	18273H	0.008000	0.007766	
2	5.384	5.380	0.004	8869H	0.008000	0.006391	
2	5.488	5.488	0.000	15400H	0.008000	0.007542	
2	5.892	5.892	0.000	14304H	0.008000	0.008000	
2	6.308	6.308	0.000	20066H	0.008000	0.008111	
						RPD = 9.82	
$ 10 DCB Decachlorobiphenyl							
1	7.124	7.124	0.000	2648H	0.000800	0.000818	
2	7.096	7.096	0.000	17250H	0.000800	0.000696	
						RPD = 16.12	
S 12 Polychlorinated biphenyls, Total							
1						0.008233	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660-1 LVI_00003	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

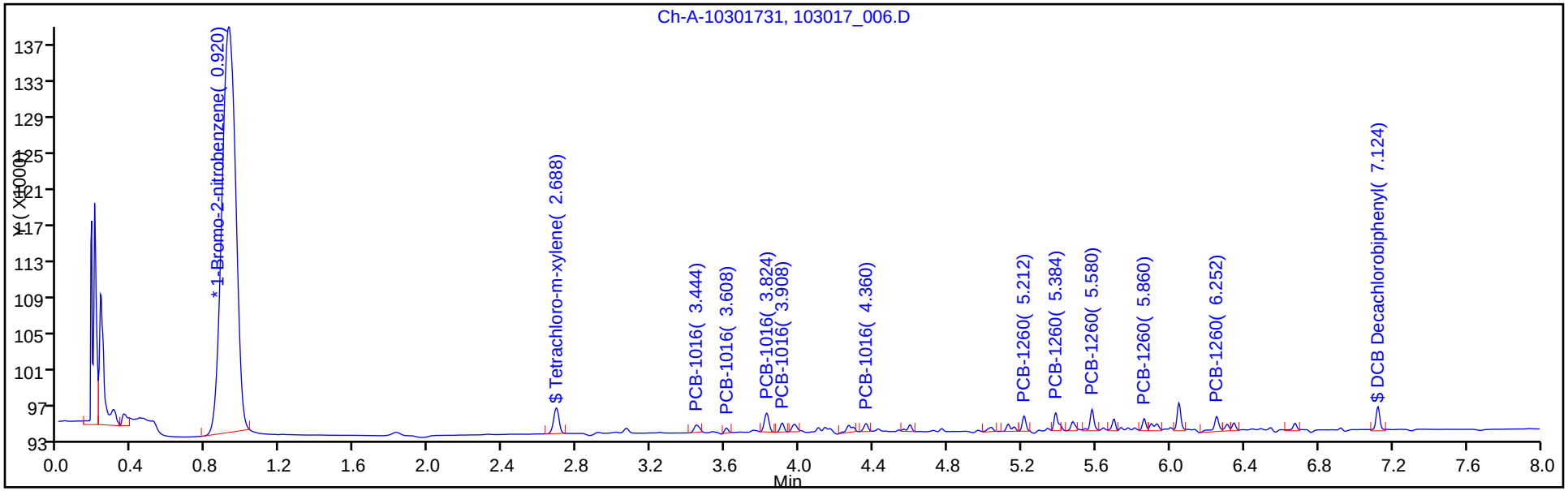
Report Date: 30-Oct-2017 16:56:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

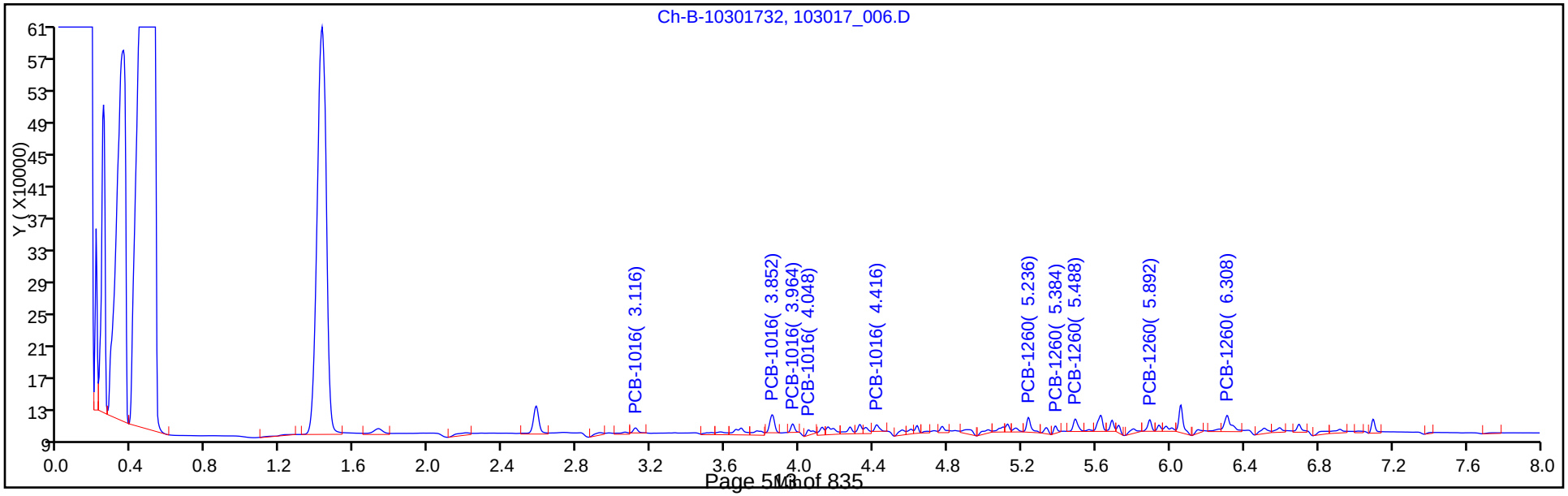
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_006.D

Injection Date:	30-Oct-2017 13:23:00	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR16601			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



Report Date: 30-Oct-2017 16:56:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_006.D

Injection Date: 30-Oct-2017 13:23:00 Instrument ID: INST31-32

Lims ID: IC AR16601

Client ID:

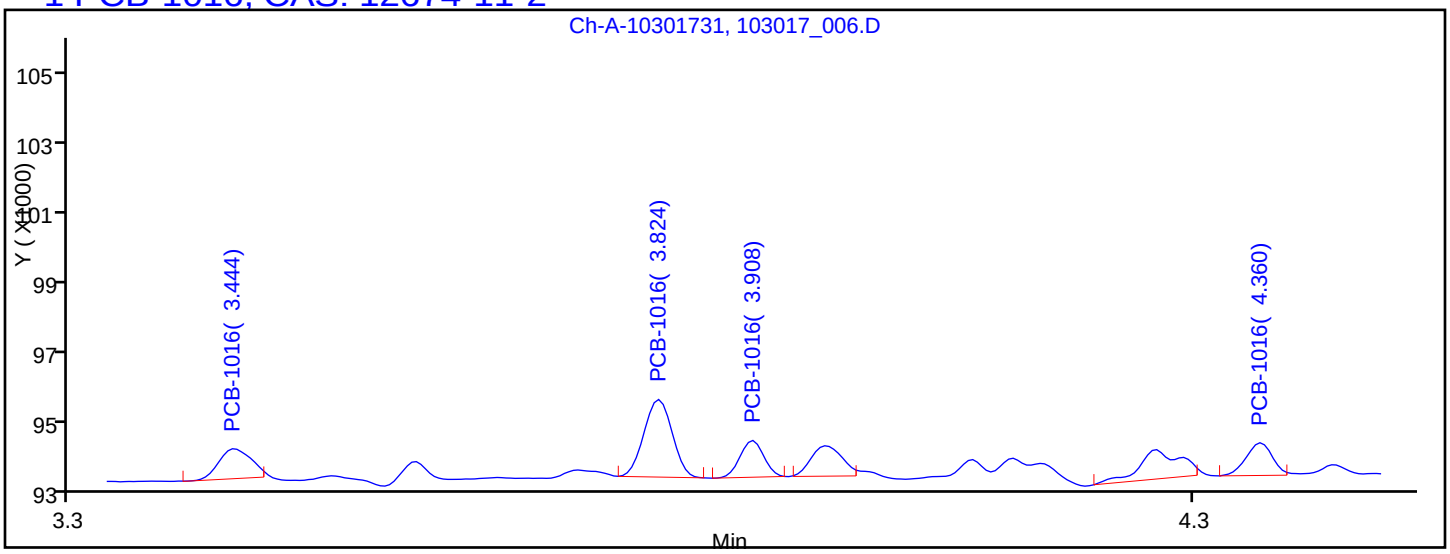
Operator ID: hamnerb ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: 8082LVIIS_31-32 Limit Group: GC_PCB_8082A_IS

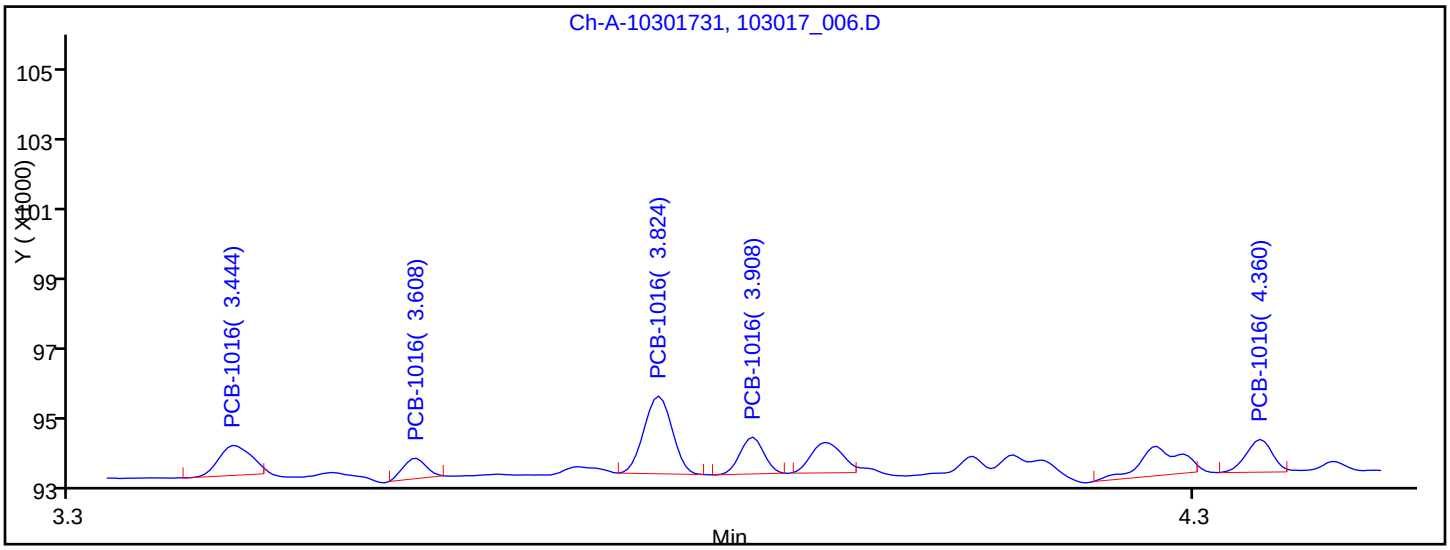
Column: ZB-5 (0.50 mm) Detector Ch-A-04091547

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

3.444	Response = 799
3.604	Response = 0
3.824	Response = 2065
3.908	Response = 979
4.360	Response = 871



Manual Integration Results

3.444	Response = 799	
3.608	Response = 539	M
3.824	Response = 2065	
3.908	Response = 979	
4.360	Response = 871	

Reviewer: hamnerb, 30-Oct-2017 16:05:20

Audit Action: Manually Integrated Audit Reason: Peak not integrated

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 13:39 Calibration End Date: 10/30/2017 13:39 Calibration ID: 25679

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/7	103017_007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0161					Ave		0.0161						20.0			
PCB-1221 Peak 2	0.0106					Ave		0.0106						20.0			
PCB-1221 Peak 3	0.0403					Ave		0.0403						20.0			
PCB-1254 Peak 1	0.0659					Ave		0.0659						20.0			
PCB-1254 Peak 2	0.0711					Ave		0.0711						20.0			
PCB-1254 Peak 3	0.1258					Ave		0.1258						20.0			
PCB-1254 Peak 4	0.1065					Ave		0.1065						20.0			
PCB-1254 Peak 5	0.1019					Ave		0.1019						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 13:39 Calibration End Date: 10/30/2017 13:39 Calibration ID: 25679

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/7	103017_007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	3356					0.100				
PCB-1221 Peak 2	BNB	Ave	2198					0.100				
PCB-1221 Peak 3	BNB	Ave	8381					0.100				
PCB-1254 Peak 1	BNB	Ave	13697					0.100				
PCB-1254 Peak 2	BNB	Ave	14785					0.100				
PCB-1254 Peak 3	BNB	Ave	26154					0.100				
PCB-1254 Peak 4	BNB	Ave	22147					0.100				
PCB-1254 Peak 5	BNB	Ave	21182					0.100				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_007.D
Lims ID: IC AR21544
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Oct-2017 13:39:07 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-007
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub13

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:38 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 13:39:07
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 13:55:16
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 14:42:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	41584H	0.0200	0.0200	
2	1.424	1.428	-0.004	474493H	0.0200	0.0200	
						RPD = 0.00	
6 PCB-1221							
1	2.916	2.916	0.000	3356H	0.1000	0.1000	
1	3.012	3.012	0.000	2198H	0.1000	0.1000	
1	3.068	3.068	0.000	8381H	0.1000	0.1000	
2	2.920	2.920	0.000	38786H	0.1000	0.1000	
2	3.060	3.060	0.000	26309H	0.1000	0.1000	
2	3.116	3.116	0.000	88114H	0.1000	0.1000	
						RPD = 0.00	
13 PCB-1254							
1	4.600	4.600	0.000	13697H	0.1000	0.1000	
1	4.768	4.768	0.000	14785H	0.1000	0.1000	
1	5.040	5.040	0.000	26154H	0.1000	0.1000	
1	5.224	5.224	0.000	22147H	0.1000	0.1000	
1	5.580	5.580	0.000	21182H	0.1000	0.1000	
2	4.632	4.632	0.000	167338H	0.1000	0.1000	
2	4.768	4.768	0.000	194643H	0.1000	0.1000	
2	5.100	5.100	0.000	354626H	0.1000	0.1000	
2	5.252	5.252	0.000	245671H	0.1000	0.1000	
2	5.492	5.492	0.000	194489H	0.1000	0.1000	
						RPD = 0.00	
S 12 Polychlorinated biphenyls, Total							
1						0.1000	

Reagents:

AR2154-4 LVI_00003	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

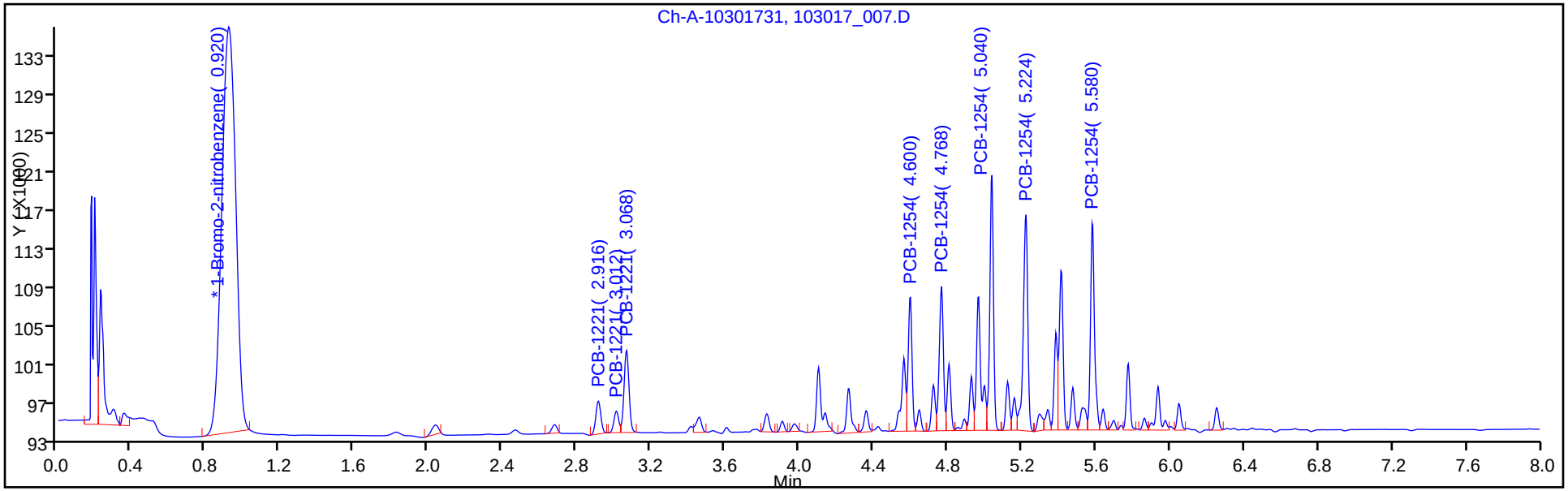
Report Date: 30-Oct-2017 16:56:39 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

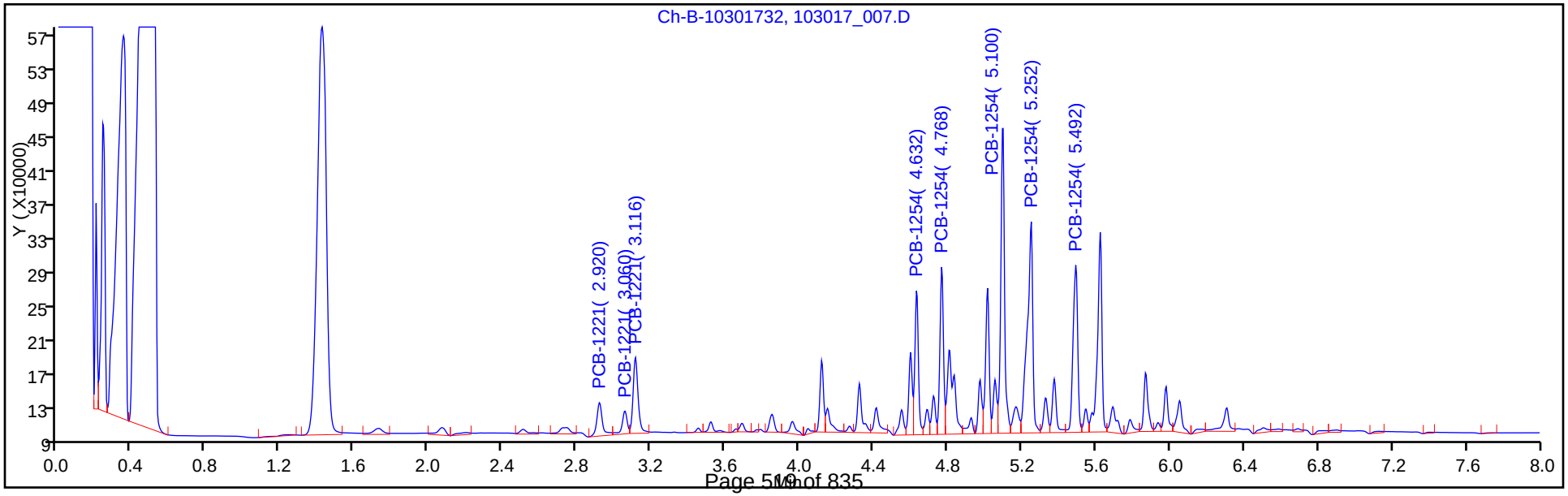
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_007.D

Injection Date:	30-Oct-2017 13:39:07	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR21544			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 13:55 Calibration End Date: 10/30/2017 13:55 Calibration ID: 25683

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/8	103017_008.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0604					Ave		0.0604						20.0			
PCB-1248 Peak 2	0.0543					Ave		0.0543						20.0			
PCB-1248 Peak 3	0.0576					Ave		0.0576						20.0			
PCB-1248 Peak 4	0.0777					Ave		0.0777						20.0			
PCB-1248 Peak 5	0.0662					Ave		0.0662						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 13:55 Calibration End Date: 10/30/2017 13:55 Calibration ID: 25683

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/8	103017_008.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	12291					0.100				
PCB-1248 Peak 2	BNB	Ave	11046					0.100				
PCB-1248 Peak 3	BNB	Ave	11710					0.100				
PCB-1248 Peak 4	BNB	Ave	15799					0.100				
PCB-1248 Peak 5	BNB	Ave	13455					0.100				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_008.D
Lims ID: IC AR1248
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Oct-2017 13:55:16 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-008
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub3

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:39 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 13:55:16
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 14:11:41
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 16:33:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	40673H	0.0200	0.0200	
2	1.428	1.428	0.000	472175H	0.0200	0.0200	
						RPD = 0.00	
7 PCB-1248							
1	3.824	3.824	0.000	12291H	0.1000	0.1000	
1	4.268	4.268	0.000	11046H	0.1000	0.1000	
1	4.360	4.360	0.000	11710H	0.1000	0.1000	
1	4.596	4.596	0.000	15799H	0.1000	0.1000	
1	4.720	4.720	0.000	13455H	0.1000	0.1000	
2	3.848	3.848	0.000	137922H	0.1000	0.1000	
2	4.324	4.324	0.000	147047H	0.1000	0.1000	
2	4.600	4.600	0.000	175064H	0.1000	0.1000	
2	4.412	4.412	0.000	141496H	0.1000	0.1000	
2	4.800	4.800	0.000	179951H	0.1000	0.1000	
						RPD = 0.00	
S 12 Polychlorinated biphenyls, Total							
1						0.1000	

Reagents:

AR1248-4 LVI_00005 Amount Added: 1.00 Units: ml
IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

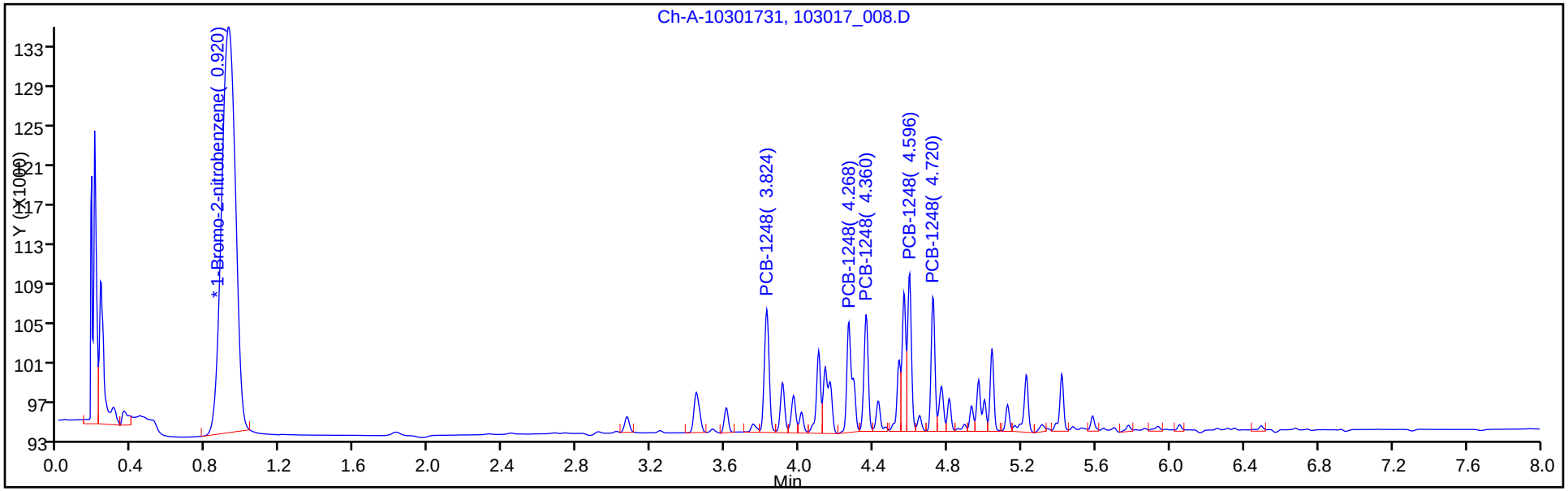
Report Date: 30-Oct-2017 16:56:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

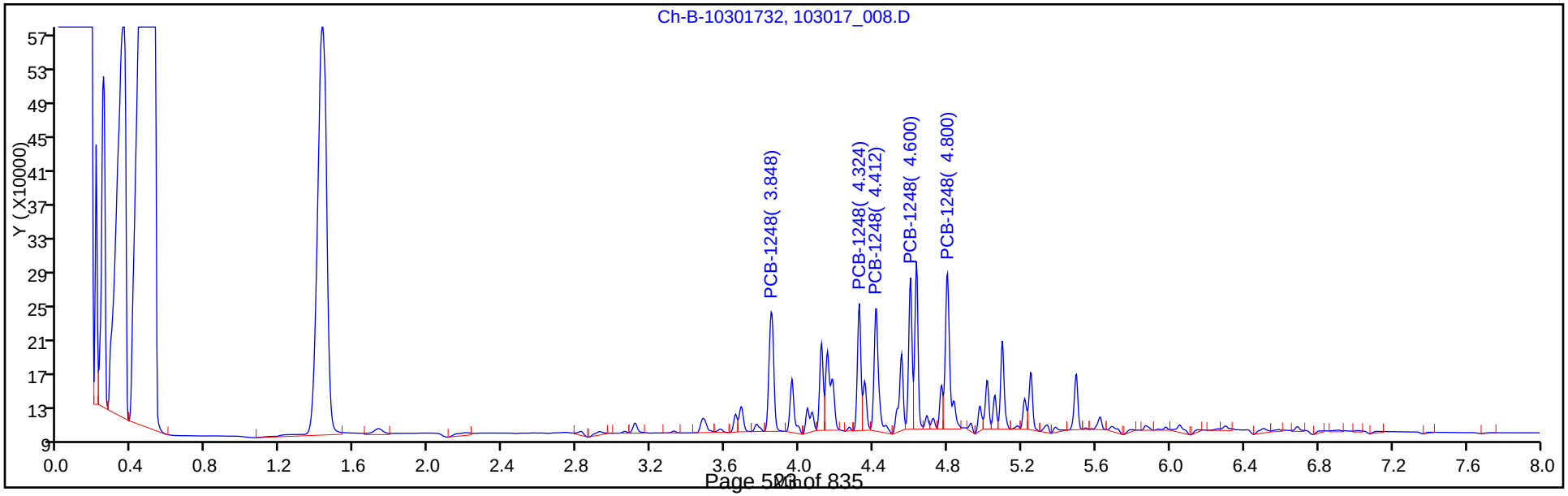
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_008.D

Injection Date:	30-Oct-2017 13:55:16	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR1248			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:11 Calibration End Date: 10/30/2017 14:11 Calibration ID: 25687

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/9	103017_009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0383					Ave		0.0383						20.0			
PCB-1242 Peak 2	0.0286					Ave		0.0286						20.0			
PCB-1242 Peak 3	0.1030					Ave		0.1030						20.0			
PCB-1242 Peak 4	0.0340					Ave		0.0340						20.0			
PCB-1242 Peak 5	0.0430					Ave		0.0430						20.0			
PCB-1268 Peak 1	0.2601					Ave		0.2601						20.0			
PCB-1268 Peak 2	0.2654					Ave		0.2654						20.0			
PCB-1268 Peak 3	0.2067					Ave		0.2067						20.0			
PCB-1268 Peak 4	0.0481					Ave		0.0481						20.0			
PCB-1268 Peak 5	0.0800					Ave		0.0800						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:11 Calibration End Date: 10/30/2017 14:11 Calibration ID: 25687

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/9	103017_009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	7635					0.100				
PCB-1242 Peak 2	BNB	Ave	5701					0.100				
PCB-1242 Peak 3	BNB	Ave	20529					0.100				
PCB-1242 Peak 4	BNB	Ave	6774					0.100				
PCB-1242 Peak 5	BNB	Ave	8577					0.100				
PCB-1268 Peak 1	BNB	Ave	51826					0.100				
PCB-1268 Peak 2	BNB	Ave	52881					0.100				
PCB-1268 Peak 3	BNB	Ave	41189					0.100				
PCB-1268 Peak 4	BNB	Ave	9579					0.100				
PCB-1268 Peak 5	BNB	Ave	15947					0.100				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_009.D
Lims ID: IC AR42684
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Oct-2017 14:11:41 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-009
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub16

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:41 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 14:11:41
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 14:27:52
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 16:39:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	39852H	0.0200	0.0200	
2	1.424	1.428	-0.004	466783H	0.0200	0.0200	
						RPD = 0.00	
14 PCB-1242							
1	3.448	3.448	0.000	7635H	0.1000	0.1000	
1	3.608	3.608	0.000	5701H	0.1000	0.1000	
1	3.828	3.828	0.000	20529H	0.1000	0.1000	
1	3.972	3.972	0.000	6774H	0.1000	0.1000	
1	4.364	4.364	0.000	8577H	0.1000	0.1000	
2	3.484	3.484	0.000	40268H	0.1000	0.1000	
2	3.852	3.852	0.000	246719H	0.1000	0.1000	
2	3.960	3.960	0.000	110176H	0.1000	0.1000	
2	4.416	4.416	0.000	96662H	0.1000	0.1000	
2	4.632	4.632	0.000	125931H	0.1000	0.1000	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
16 PCB-1268							
1	6.312	6.312	0.000	51826H	0.1000	0.1000	
1	6.348	6.348	0.000	52881H	0.1000	0.1000	
1	6.540	6.540	0.000	41189H	0.1000	0.1000	
1	6.596	6.596	0.000	9579H	0.1000	0.1000	
1	6.680	6.680	0.000	15947H	0.1000	0.1000	
2	6.300	6.300	0.000	838819H	0.1000	0.1000	
2	6.332	6.332	0.000	823785H	0.1000	0.1000	
2	6.508	6.508	0.000	714171H	0.1000	0.1000	
2	6.572	6.572	0.000	134469H	0.1000	0.1000	
2	6.692	6.692	0.000	221731H	0.1000	0.1000	
						RPD = 0.00	
S 12 Polychlorinated biphenyls, Total							
1						0.1000	

Reagents:

AR4268-4 LVI_00003 Amount Added: 1.00 Units: ml
IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

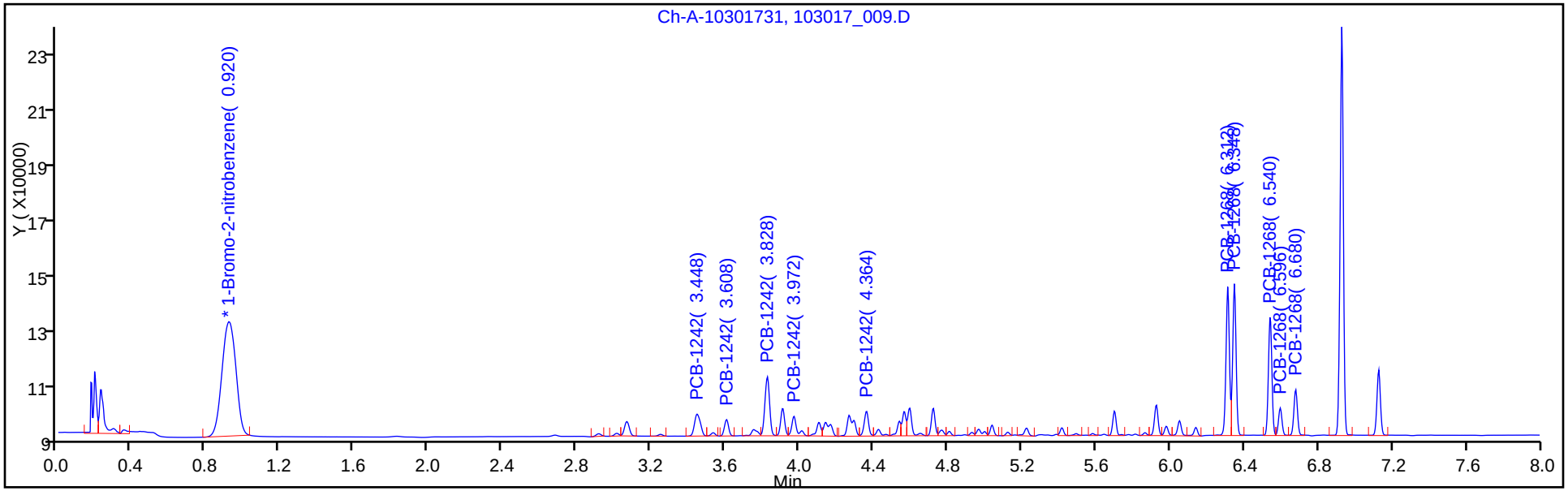
Report Date: 30-Oct-2017 16:56:41 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

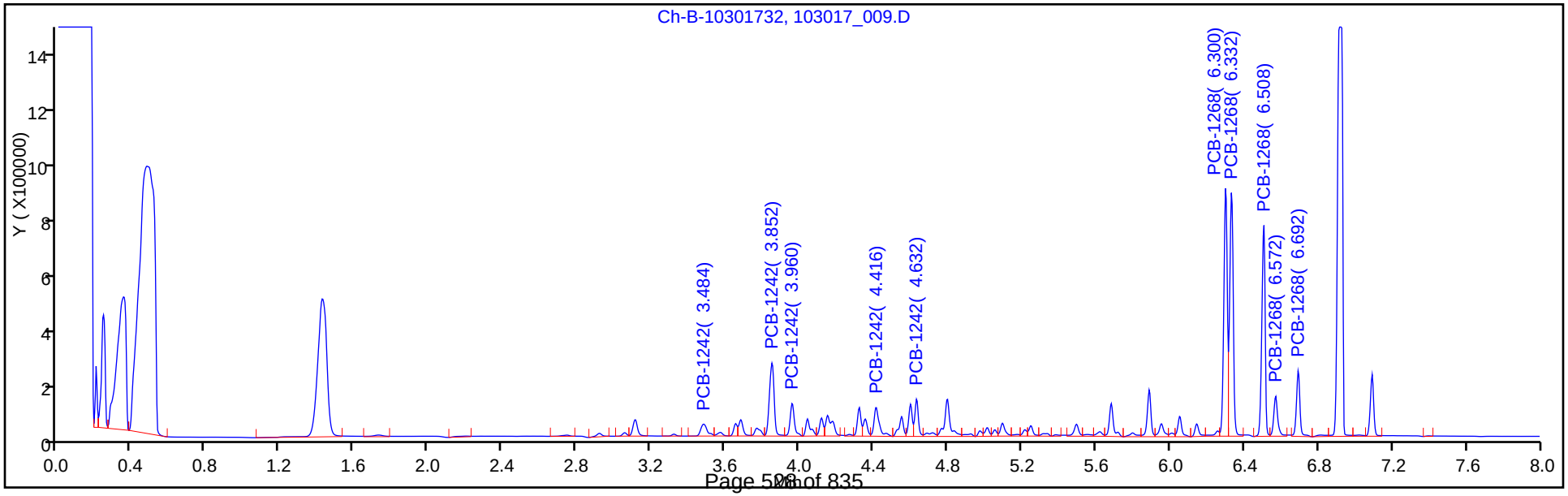
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_009.D

Injection Date:	30-Oct-2017 14:11:41	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR42684			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:27 Calibration End Date: 10/30/2017 14:27 Calibration ID: 25691

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/10	103017_010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0119					Ave		0.0119						20.0			
PCB-1232 Peak 2	0.0352					Ave		0.0352						20.0			
PCB-1232 Peak 3	0.0219					Ave		0.0219						20.0			
PCB-1232 Peak 4	0.0543					Ave		0.0543						20.0			
PCB-1232 Peak 5	0.0263					Ave		0.0263						20.0			
PCB-1262 Peak 1	0.1161					Ave		0.1161						20.0			
PCB-1262 Peak 2	0.0964					Ave		0.0964						20.0			
PCB-1262 Peak 3	0.2287					Ave		0.2287						20.0			
PCB-1262 Peak 4	0.0967					Ave		0.0967						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136532-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:27 Calibration End Date: 10/30/2017 14:27 Calibration ID: 25691

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/10	103017_010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	2429					0.100				
PCB-1232 Peak 2	BNB	Ave	7163					0.100				
PCB-1232 Peak 3	BNB	Ave	4457					0.100				
PCB-1232 Peak 4	BNB	Ave	11046					0.100				
PCB-1232 Peak 5	BNB	Ave	5349					0.100				
PCB-1262 Peak 1	BNB	Ave	23630					0.100				
PCB-1262 Peak 2	BNB	Ave	19615					0.100				
PCB-1262 Peak 3	BNB	Ave	46565					0.100				
PCB-1262 Peak 4	BNB	Ave	19676					0.100				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D
Lims ID: IC AR3262
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Oct-2017 14:27:52 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-010
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub14

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:42 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 14:27:52
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 14:44:02
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 16:48:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	40715H	0.0200	0.0200	
2	1.424	1.428	-0.004	472425H	0.0200	0.0200	
						RPD = 0.00	
11 PCB-1232							
1	2.916	2.916	0.000	2429H	0.1000	0.1000	
1	3.068	3.068	0.000	7163H	0.1000	0.1000	
1	3.448	3.448	0.000	4457H	0.1000	0.1000	
1	3.828	3.828	0.000	11046H	0.1000	0.1000	
1	3.908	3.908	0.000	5349H	0.1000	0.1000	
2	2.920	2.920	0.000	27128H	0.1000	0.1000	
2	3.112	3.112	0.000	74978H	0.1000	0.1000	
2	3.484	3.484	0.000	19851H	0.1000	0.1000	
2	3.852	3.852	0.000	127380H	0.1000	0.1000	
2	3.960	3.960	0.000	60002H	0.1000	0.1000	
						RPD = 0.00	
9 PCB-1262							
1	5.700	5.700	0.000	23630H	0.1000	0.1000	
1	5.864	5.864	0.000	19615H	0.1000	0.1000	
1	6.052	6.052	0.000	46565H	0.1000	0.1000	
1	6.348	6.348	0.000	19676H	0.1000	0.1000	
2	5.888	5.888	0.000	246832H	0.1000	0.1000	
2	6.056	6.056	0.000	598889H	0.1000	0.1000	
2	6.300	6.300	0.000	314985H	0.1000	0.1000	
2	6.692	6.692	0.000	169239H	0.1000	0.1000	
						RPD = 0.00	
S 12 Polychlorinated biphenyls, Total							
1						0.1000	

Reagents:

AR3262-4 LVI_00002	Amount Added: 1.00	Units: ml	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

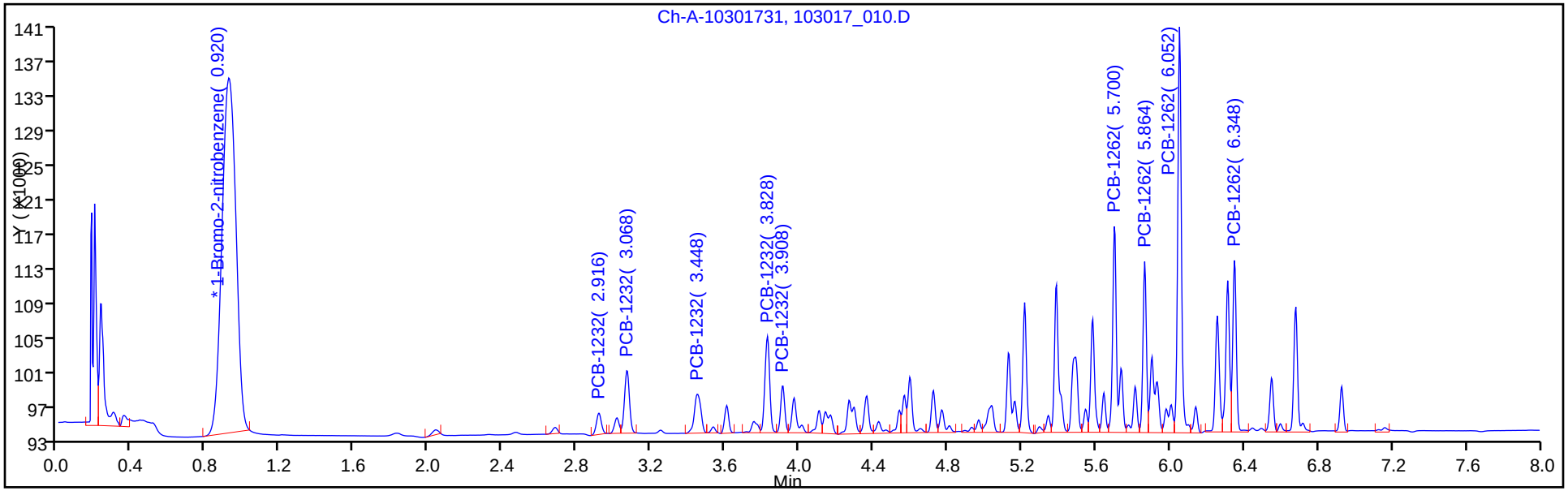
Report Date: 30-Oct-2017 16:56:42 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

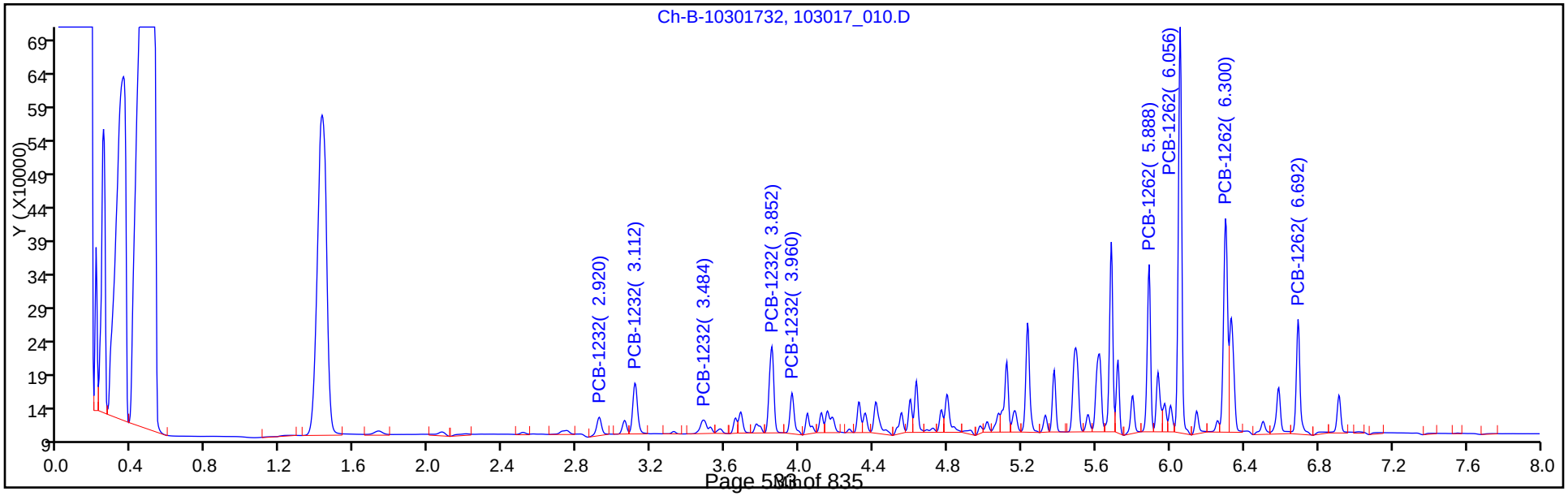
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Injection Date:	30-Oct-2017 14:27:52	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR3262			Worklist Smp#:	10
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: ICV 500-407585/11 Calibration Date: 10/30/2017 14:44

Instrument ID: INST31-32 Calib Start Date: 10/30/2017 12:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 13:23

Lab File ID: 103017_011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0429	0.0472		0.0550	0.0500	10.0	20.0
PCB-1016 Peak 2	Ave	0.0309	0.0342		0.0553	0.0500	10.7	20.0
PCB-1016 Peak 3	Ave	0.1139	0.1231		0.0540	0.0500	8.1	20.0
PCB-1016 Peak 4	Ave	0.0520	0.0572		0.0550	0.0500	9.9	20.0
PCB-1016 Peak 5	Ave	0.0466	0.0442		0.0474	0.0500	-5.2	20.0
PCB-1260 Peak 1	Ave	0.0892	0.0856		0.0480	0.0500	-4.0	20.0
PCB-1260 Peak 2	Ave	0.1075	0.1054		0.0490	0.0500	-2.0	20.0
PCB-1260 Peak 3	Ave	0.1344	0.1158		0.0431	0.0500	-13.8	20.0
PCB-1260 Peak 4	Ave	0.0697	0.0802		0.0576	0.0500	15.2	20.0
PCB-1260 Peak 5	Ave	0.0840	0.0848		0.0504	0.0500	0.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: ICV 500-407585/11 Calibration Date: 10/30/2017 14:44

Instrument ID: INST31-32 Calib Start Date: 10/30/2017 12:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 13:23

Lab File ID: 103017_011.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.45	3.43	3.45
PCB-1016 Peak 2	3.61	3.59	3.61
PCB-1016 Peak 3	3.83	3.81	3.83
PCB-1016 Peak 4	3.91	3.90	3.92
PCB-1016 Peak 5	4.36	4.35	4.37
PCB-1260 Peak 1	5.22	5.18	5.24
PCB-1260 Peak 2	5.39	5.35	5.41
PCB-1260 Peak 3	5.58	5.55	5.61
PCB-1260 Peak 4	5.86	5.83	5.89
PCB-1260 Peak 5	6.26	6.22	6.28

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_011.D
Lims ID: ICV AR1660
Client ID:
Sample Type: ICV
Inject. Date: 30-Oct-2017 14:44:02 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-011
Operator ID: hamnerb Instrument ID: INST31-32
Sublist:

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:42 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 14:44:02
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 15:00:11
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 16:23:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	42603H	0.0200	0.0200	
2	1.428	1.428	0.000	487113H	0.0200	0.0200	
						RPD = 0.00	
1 PCB-1016							
1	3.448	3.444	0.004	5027H	0.0500	0.0550	
1	3.608	3.604	0.004	3642H	0.0500	0.0553	
1	3.828	3.824	0.004	13112H	0.0500	0.0540	
1	3.908	3.908	0.000	6087H	0.0500	0.0550	
1	4.364	4.360	0.004	4704H	0.0500	0.0474	
2	3.112	3.116	-0.004	36329H	0.0500	0.0525	
2	3.852	3.856	-0.004	156314H	0.0500	0.0557	
2	3.960	3.964	-0.004	74107H	0.0500	0.0565	
2	4.044	4.048	-0.004	36409H	0.0500	0.0529	
2	4.412	4.416	-0.004	57087H	0.0500	0.0514	
						RPD = 0.87	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.216	5.212	0.004	9120H	0.0500	0.0480	
1	5.388	5.384	0.004	11222H	0.0500	0.0490	
1	5.584	5.580	0.004	12336H	0.0500	0.0431	
1	5.864	5.860	0.004	8545H	0.0500	0.0576	
1	6.256	6.252	0.004	9031H	0.0500	0.0504	
2	5.232	5.236	-0.004	114195H	0.0500	0.0504	
2	5.376	5.380	-0.004	67314H	0.0500	0.0504	
2	5.484	5.488	-0.004	94451H	0.0500	0.0480	
2	5.888	5.892	-0.004	104548H	0.0500	0.0607	
2	6.304	6.308	-0.004	132707H	0.0500	0.0557	
						RPD = 6.63	

Reagents:

ICV1660-3_00044	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

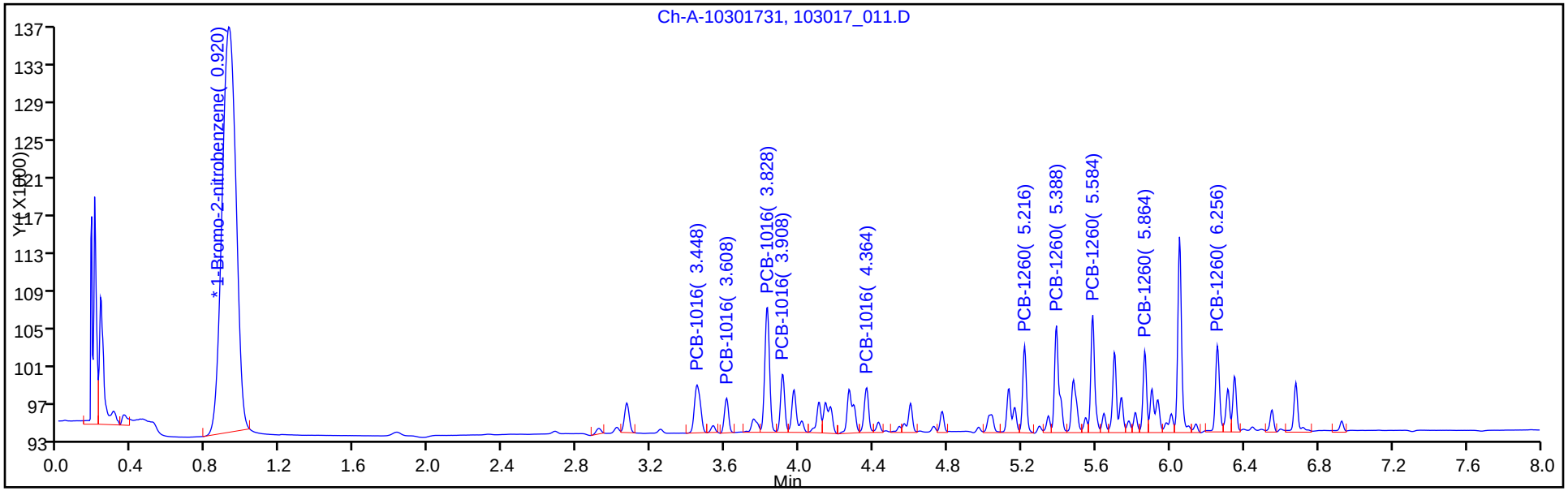
Report Date: 30-Oct-2017 16:56:43 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

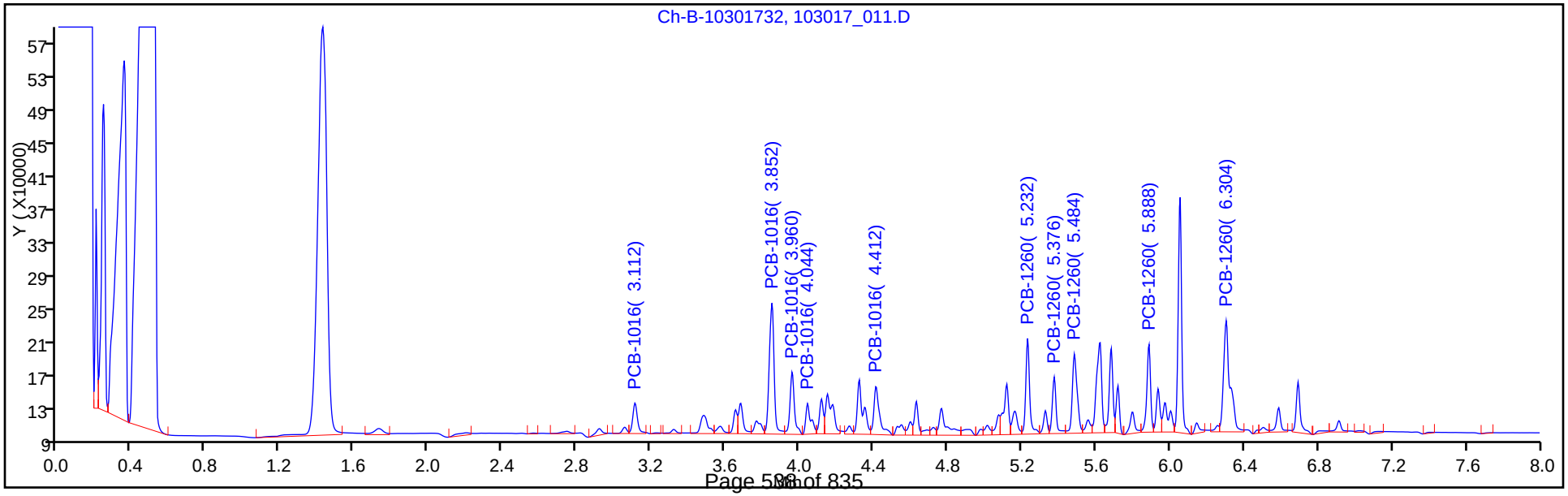
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_011.D

Injection Date:	30-Oct-2017 14:44:02	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	ICV AR1660			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: CCVIS 500-408844/1 Calibration Date: 11/07/2017 15:57

Instrument ID: INST31-32 Calib Start Date: 10/30/2017 12:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 13:23

Lab File ID: 103017_119.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0429	0.0459		0.107	0.100	7.1	20.0
PCB-1016 Peak 2	Ave	0.0309	0.0352		0.114	0.100	13.9	20.0
PCB-1016 Peak 3	Ave	0.1139	0.1211		0.106	0.100	6.3	20.0
PCB-1016 Peak 4	Ave	0.0520	0.0553		0.106	0.100	6.3	20.0
PCB-1016 Peak 5	Ave	0.0466	0.0461		0.0988	0.100	-1.2	20.0
PCB-1260 Peak 1	Ave	0.0892	0.0800		0.0897	0.100	-10.3	20.0
PCB-1260 Peak 2	Ave	0.1075	0.0989		0.0921	0.100	-7.9	20.0
PCB-1260 Peak 3	Ave	0.1344	0.1137		0.0846	0.100	-15.4	20.0
PCB-1260 Peak 4	Ave	0.0697	0.0706		0.101	0.100	1.3	20.0
PCB-1260 Peak 5	Ave	0.0840	0.0755		0.0898	0.100	-10.2	20.0
Tetrachloro-m-xylene	Ave	1.659	1.895		0.00914	0.00800	14.3	20.0
DCB Decachlorobiphenyl	Ave	1.453	1.429		0.00787	0.00800	-1.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: CCVIS 500-408844/1 Calibration Date: 11/07/2017 15:57

Instrument ID: INST31-32 Calib Start Date: 10/30/2017 12:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 13:23

Lab File ID: 103017_119.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.46	3.45	3.47
PCB-1016 Peak 2	3.62	3.61	3.63
PCB-1016 Peak 3	3.84	3.83	3.85
PCB-1016 Peak 4	3.92	3.91	3.93
PCB-1016 Peak 5	4.37	4.36	4.38
PCB-1260 Peak 1	5.22	5.19	5.25
PCB-1260 Peak 2	5.39	5.36	5.42
PCB-1260 Peak 3	5.59	5.56	5.62
PCB-1260 Peak 4	5.87	5.84	5.90
PCB-1260 Peak 5	6.26	6.23	6.29
Tetrachloro-m-xylene	2.70	2.69	2.71
DCB Decachlorobiphenyl	7.13	7.12	7.14

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_119.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Nov-2017 15:57:18 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048894-001
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub9

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 07-Nov-2017 16:41:42 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 15:57:18
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 16:13:26
Process Host: XAWRK018

First Level Reviewer: hamnerb Date: 07-Nov-2017 16:41:42

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.932	0.932	0.000	42348H	0.0200	0.0200	
2	1.416	1.416	0.000	466314H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.700	2.700	0.000	32104H	0.008000	0.009141	
2	2.580	2.580	0.000	343333H	0.008000	0.007962	
						RPD = 13.79	
1 PCB-1016							
1	3.456	3.456	0.000	9727H	0.1000	0.1071	
1	3.616	3.616	0.000	7451H	0.1000	0.1139	
1	3.836	3.836	0.000	25638H	0.1000	0.1063	
1	3.916	3.916	0.000	11704H	0.1000	0.1063	
1	4.372	4.372	0.000	9752H	0.1000	0.0988	
2	3.116	3.116	0.000	59825H	0.1000	0.0904	
2	3.856	3.856	0.000	291552H	0.1000	0.1086	
2	3.964	3.964	0.000	124179H	0.1000	0.0989	
2	4.048	4.048	0.000	62991H	0.1000	0.0955	
2	4.420	4.420	0.000	104059H	0.1000	0.0980	
						RPD = 8.02	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.224	5.224	0.000	16941H	0.1000	0.0897	
1	5.392	5.392	0.000	20948H	0.1000	0.0921	
1	5.588	5.588	0.000	24065H	0.1000	0.0846	
1	5.872	5.872	0.000	14945H	0.1000	0.1013	
1	6.260	6.260	0.000	15981H	0.1000	0.0898	
2	5.240	5.240	0.000	206011H	0.1000	0.0950	
2	5.380	5.380	0.000	134761H	0.1000	0.1053	
2	5.492	5.492	0.000	170001H	0.1000	0.0903	
2	5.892	5.892	0.000	175863H	0.1000	0.1067	
2	6.312	6.312	0.000	237789H	0.1000	0.1042	
						RPD = 9.18	
8 1260 Res 1							
1		6.508			ND	ND	
2		4.232					
2 1260 Res 2							
1		6.620			ND	ND	
2		4.400					
5 1260 Res 3							
1		6.660			ND	ND	
2		4.928					
$ 10 DCB Decachlorobiphenyl							
1	7.132	7.132	0.000	24210H	0.008000	0.007870	
2	7.096	7.096	0.000	185715H	0.008000	0.008127	
						RPD = 3.22	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Reagents:

AR1660CCV4LVI_00051	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

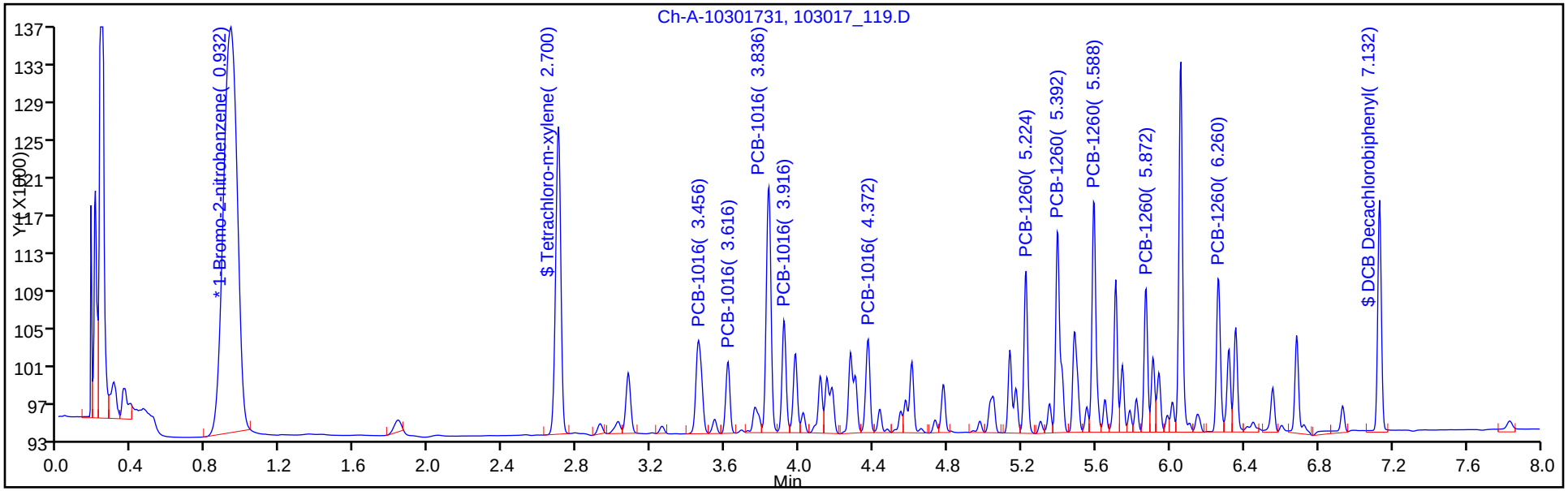
Report Date: 07-Nov-2017 16:41:42 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

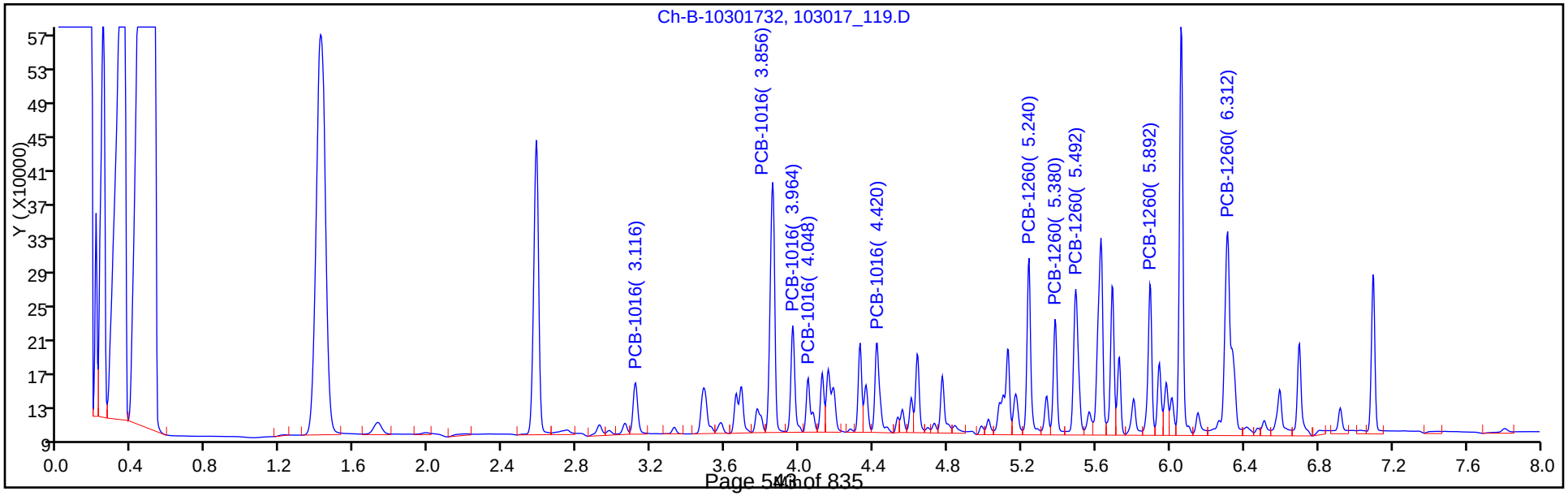
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_119.D

Injection Date:	07-Nov-2017 15:57:18	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	CCVIS			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-407914/1-A

Matrix: Water | Lab File ID: 103017_131.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 11/01/2017 10:02

Sample wt/vol: 250(mL) | Date Analyzed: 11/07/2017 19:11

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408844 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	<0.40		0.40	0.067
11104-28-2	PCB-1221	<0.40		0.40	0.20
11141-16-5	PCB-1232	<0.40		0.40	0.20
53469-21-9	PCB-1242	<0.40		0.40	0.20
12672-29-6	PCB-1248	<0.40		0.40	0.20
11097-69-1	PCB-1254	<0.40		0.40	0.20
11096-82-5	PCB-1260	<0.40		0.40	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	91		30-120
2051-24-3	DCB Decachlorobiphenyl	51		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_131.D
Lims ID: MB 500-407914/1-A
Client ID:
Sample Type: MB
Inject. Date: 07-Nov-2017 19:11:57 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048894-013
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 08-Nov-2017 11:46:58 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 19:11:57
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 19:28:07
Process Host: XAWRK021

First Level Reviewer: hamnerb Date: 08-Nov-2017 11:46:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.928	0.924	0.004	41024H	0.0200	0.0200	
2	1.420	1.416	0.004	492445H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.696	2.700	-0.004	24891H	0.008000	0.007316	
2	2.580	2.580	0.000	281401H	0.008000	0.006179	
						RPD = 16.85	
11 PCB-1232							
1		2.916				ND	
1		3.068					
1		3.448					
1		3.828					
1		3.908					
2		2.920					
2		3.112					
2		3.484					
2		3.852					
2		3.960					
6 PCB-1221							
1		2.924				ND	
1		3.024					
1		3.076					
2		2.928					
2		3.064					
2		3.120					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
14 PCB-1242							
1		3.448				ND	
1		3.608					
1		3.828					
1		3.972					
1		4.364					
2		3.484					
2		3.852					
2		3.960					
2		4.416					
2		4.632					
1 PCB-1016							
1		3.456				ND	
1		3.616					
1		3.836					
1		3.916					
1		4.372					
2		3.116					
2		3.856					
2		3.964					
2		4.048					
2		4.420					
7 PCB-1248							
1		3.824				ND	
1		4.268					
1		4.360					
1		4.596					
1		4.720					
2		3.848					
2		4.324					
2		4.600					
2		4.412					
2		4.800					
13 PCB-1254							
1		4.604				ND	
1		4.772					
1		5.044					
1		5.228					
1		5.588					
2		4.640					
2		4.772					
2		5.100					
2		5.256					
2		5.492					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1		5.224				ND	
1		5.392					
1		5.588					
1		5.872					
1		6.260					
2		5.240					
2		5.380					
2		5.492					
2		5.892					
2		6.312					
9 PCB-1262							
1		5.700				ND	
1		5.864					
1		6.052					
1		6.348					
2		5.888					
2		6.056					
2		6.300					
2		6.692					
16 PCB-1268							
1		6.312				ND	
1		6.348					
1		6.540					
1		6.596					
1		6.680					
2		6.300					
2		6.332					
2		6.508					
2		6.572					
2		6.692					
8 1260 Res 1							
1		6.508				ND	
2		4.232					
2 1260 Res 2							
1		6.620				ND	
2		4.400					
5 1260 Res 3							
1		6.660				ND	
2		4.928					
$ 10 DCB Decachlorobiphenyl							
1	7.128	7.132	-0.004	12155H	0.008000	0.004079	
2	7.096	7.096	0.000	106215H	0.008000	0.004402	
						RPD = 7.61	
S 12 Polychlorinated biphenyls, Total							
1		0.000				ND	

Reagents:

IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

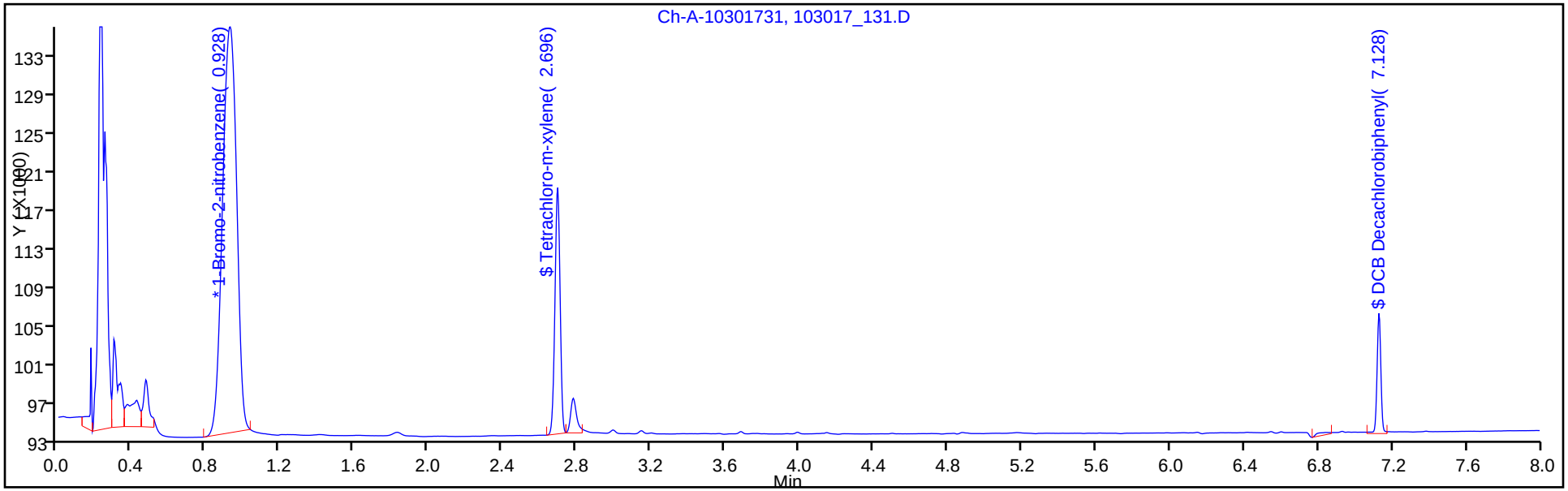
Report Date: 08-Nov-2017 11:46:59 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

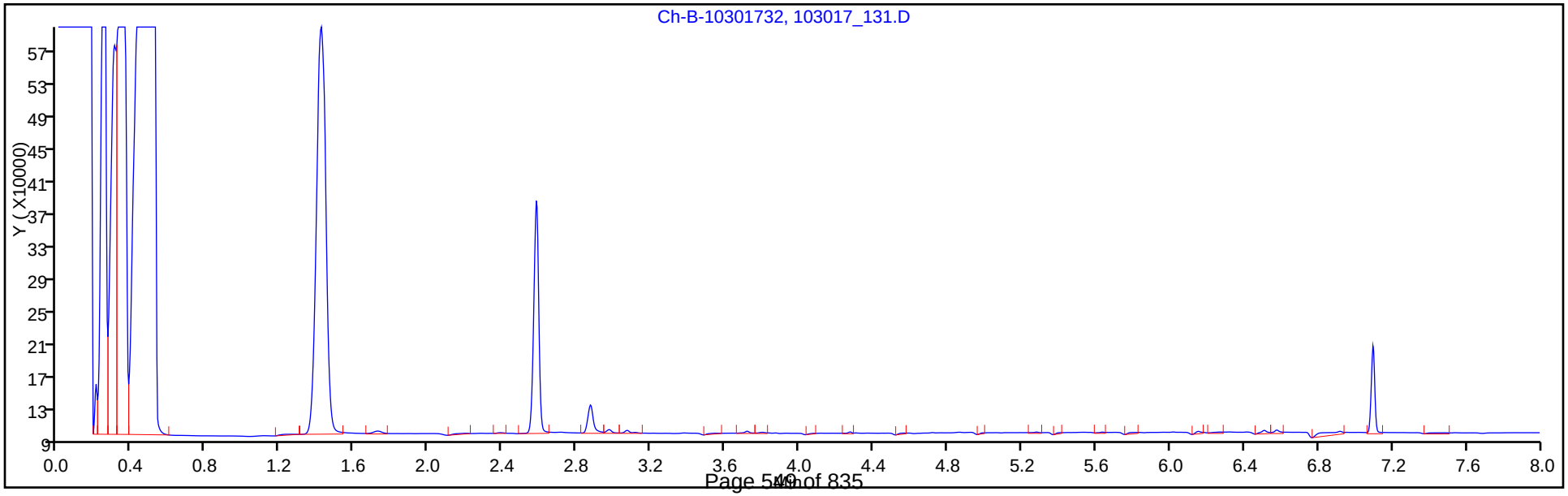
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_131.D

Injection Date:	07-Nov-2017 19:11:57	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	MB 500-407914/1-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_131.D
Lims ID: MB 500-407914/1-A
Client ID:
Sample Type: MB
Inject. Date: 07-Nov-2017 19:11:57 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048894-013
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 08-Nov-2017 11:46:58 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 19:11:57
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 19:28:07
Process Host: XAWRK021

First Level Reviewer: hamnerb Date: 08-Nov-2017 11:46:58

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.007316	91.45
$ 10 DCB Decachlorobiphenyl	0.008000	0.004079	50.99

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.006179	77.24
$ 10 DCB Decachlorobiphenyl	0.008000	0.004402	55.02

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-407914/4-A

Matrix: Water | Lab File ID: 103017_132.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 11/01/2017 10:02

Sample wt/vol: 250(mL) | Date Analyzed: 11/07/2017 19:28

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408844 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.97		0.40	0.067
11096-82-5	PCB-1260	3.32		0.40	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	83		30-120
2051-24-3	DCB Decachlorobiphenyl	45		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_132.D
Lims ID: LCS 500-407914/4-A
Client ID:
Sample Type: LCS
Inject. Date: 07-Nov-2017 19:28:07 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048894-014
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 08-Nov-2017 11:47:52 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 19:28:07
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 19:44:17
Process Host: XAWRK021

First Level Reviewer: hamnerb Date: 08-Nov-2017 11:47:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.924	0.924	0.000	43001H	0.0200	0.0200	
2	1.420	1.416	0.004	542813H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.692	2.700	-0.008	23695H	0.008000	0.006644	
2	2.580	2.580	0.000	280161H	0.008000	0.005581	
						RPD = 17.39	
1 PCB-1016							
1	3.448	3.456	-0.008	8770H	0.1000	0.0951	
1	3.608	3.616	-0.008	7710H	0.1000	0.1161	
1	3.828	3.836	-0.008	23757H	0.1000	0.0970	
1	3.912	3.916	-0.004	10892H	0.1000	0.0974	
1	4.364	4.372	-0.008	9071H	0.1000	0.0905	
2	3.116	3.116	0.000	61595H	0.1000	0.0799	
2	3.856	3.856	0.000	302659H	0.1000	0.0968	
2	3.964	3.964	0.000	123429H	0.1000	0.0844	
2	4.048	4.048	0.000	70894H	0.1000	0.0924	
2	4.420	4.420	0.000	104746H	0.1000	0.0847	
						RPD = 12.38	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.216	5.224	-0.008	15932H	0.1000	0.0831	
1	5.388	5.392	-0.004	19468H	0.1000	0.0843	
1	5.584	5.588	-0.004	23132H	0.1000	0.0801	
1	5.864	5.872	-0.008	13021H	0.1000	0.0870	
1	6.256	6.260	-0.004	14517H	0.1000	0.0803	
2	5.240	5.240	0.000	212387H	0.1000	0.0841	
2	5.380	5.380	0.000	158470H	0.1000	0.1064	
2	5.492	5.492	0.000	181254H	0.1000	0.0827	
2	5.892	5.892	0.000	180624H	0.1000	0.0941	
2	6.312	6.312	0.000	233194H	0.1000	0.0878	
						RPD = 9.30	
$ 10 DCB Decachlorobiphenyl							
1	7.128	7.132	-0.004	11171H	0.008000	0.003576	
2	7.096	7.096	0.000	108287H	0.008000	0.004071	
						RPD = 12.94	

Reagents:

IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

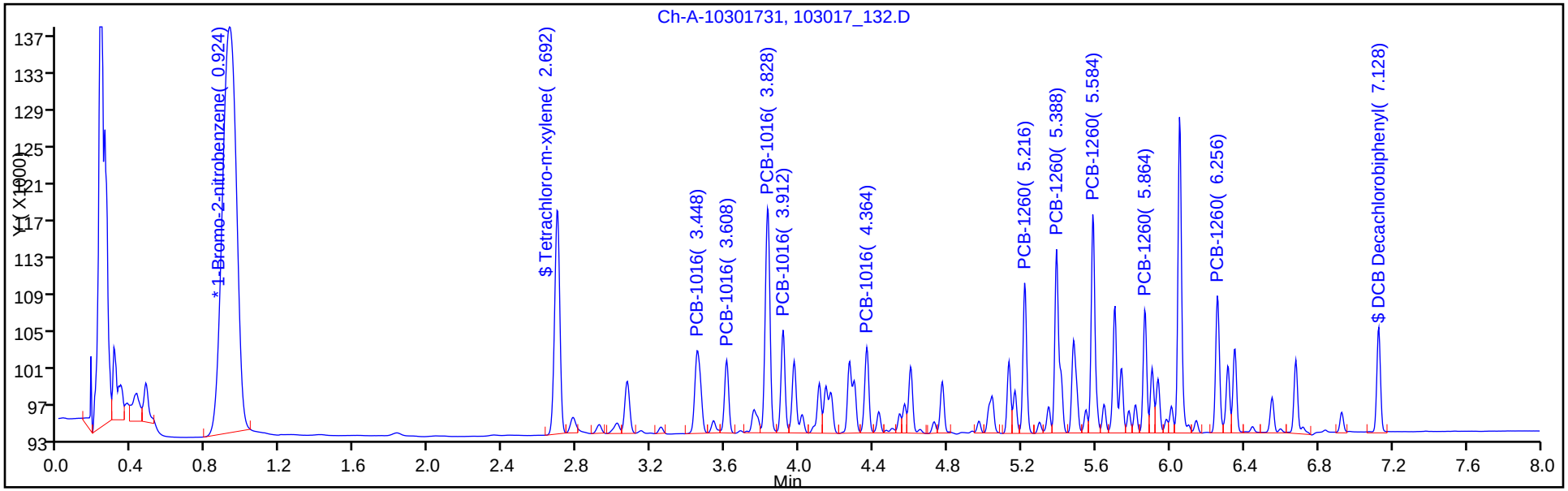
Report Date: 08-Nov-2017 11:47:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

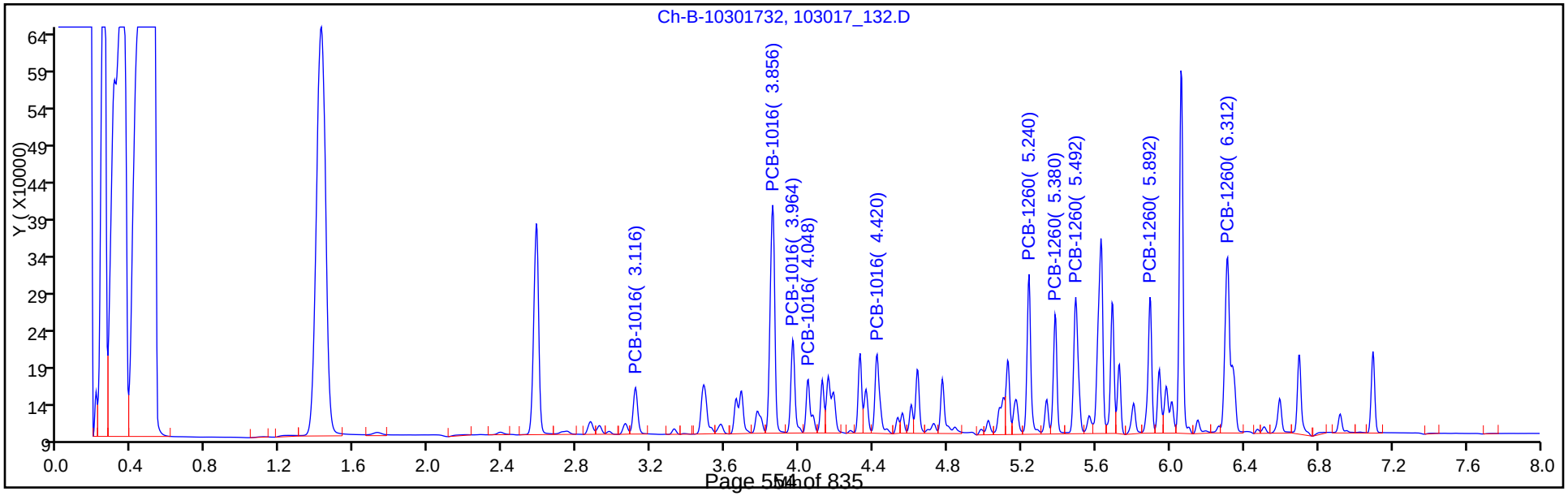
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_132.D

Injection Date:	07-Nov-2017 19:28:07	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	LCS 500-407914/4-A			Worklist Smp#:	14
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_132.D
Lims ID: LCS 500-407914/4-A
Client ID:
Sample Type: LCS
Inject. Date: 07-Nov-2017 19:28:07 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048894-014
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 08-Nov-2017 11:47:52 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 19:28:07
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 19:44:17
Process Host: XAWRK021

First Level Reviewer: hamnerb Date: 08-Nov-2017 11:47:52

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.006644	83.05
$ 10 DCB Decachlorobiphenyl	0.008000	0.003576	44.70

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.005581	69.76
$ 10 DCB Decachlorobiphenyl	0.008000	0.004071	50.89

Report Date: 08-Nov-2017 11:47:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46

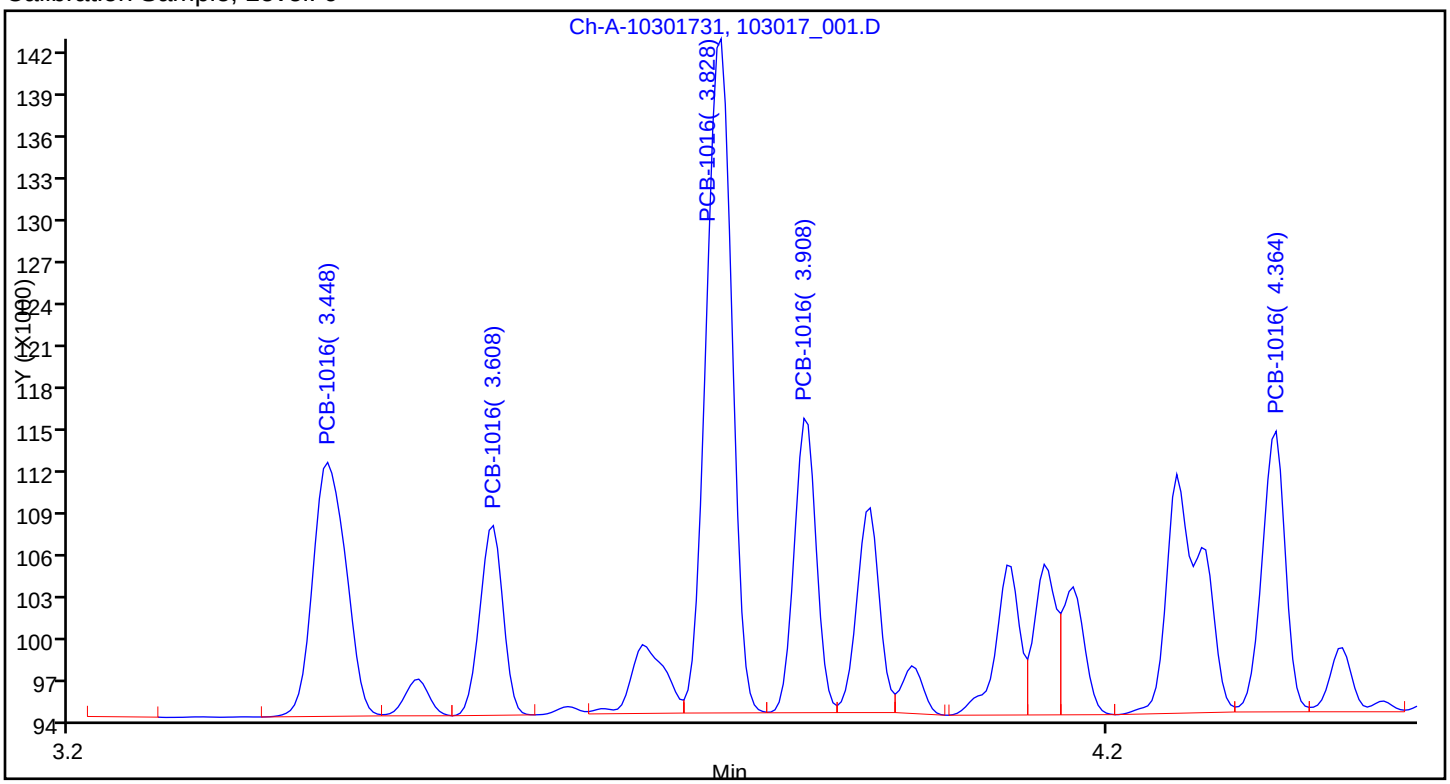
TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_132.D

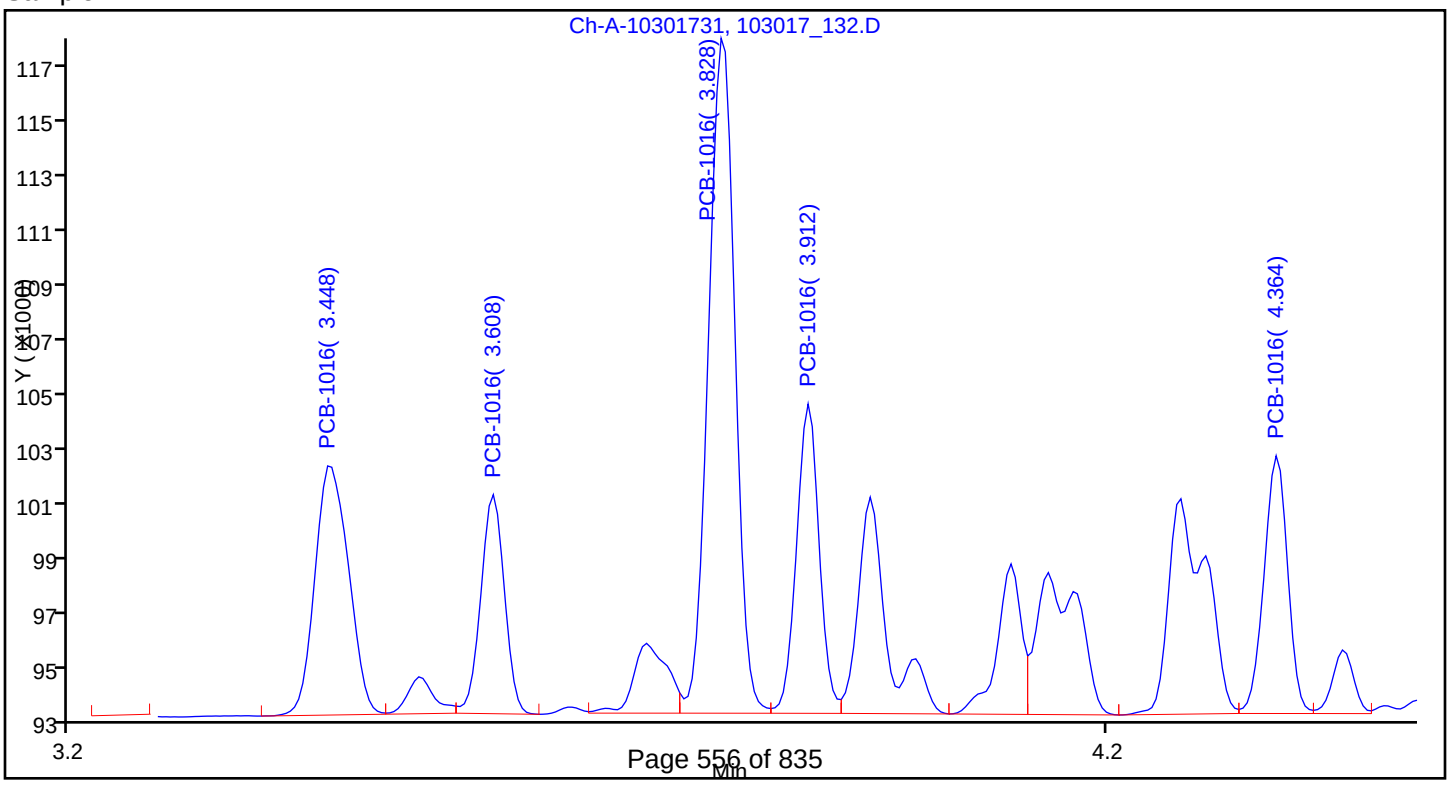
Injection Date:	07-Nov-2017 19:28:07	Instrument ID:	INST31-32		
Lims ID:	LCS 500-407914/4-A				
Client ID:					
Operator ID:	hamnerb	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		
Column:	ZB-5 (0.50 mm)	Detector	Ch-A-04091547		

1 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 08-Nov-2017 11:47:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_132.D

Injection Date: 07-Nov-2017 19:28:07 Instrument ID: INST31-32

Lims ID: LCS 500-407914/4-A

Client ID:

Operator ID: hamnerb ALS Bottle#: 0 Worklist Smp#: 14

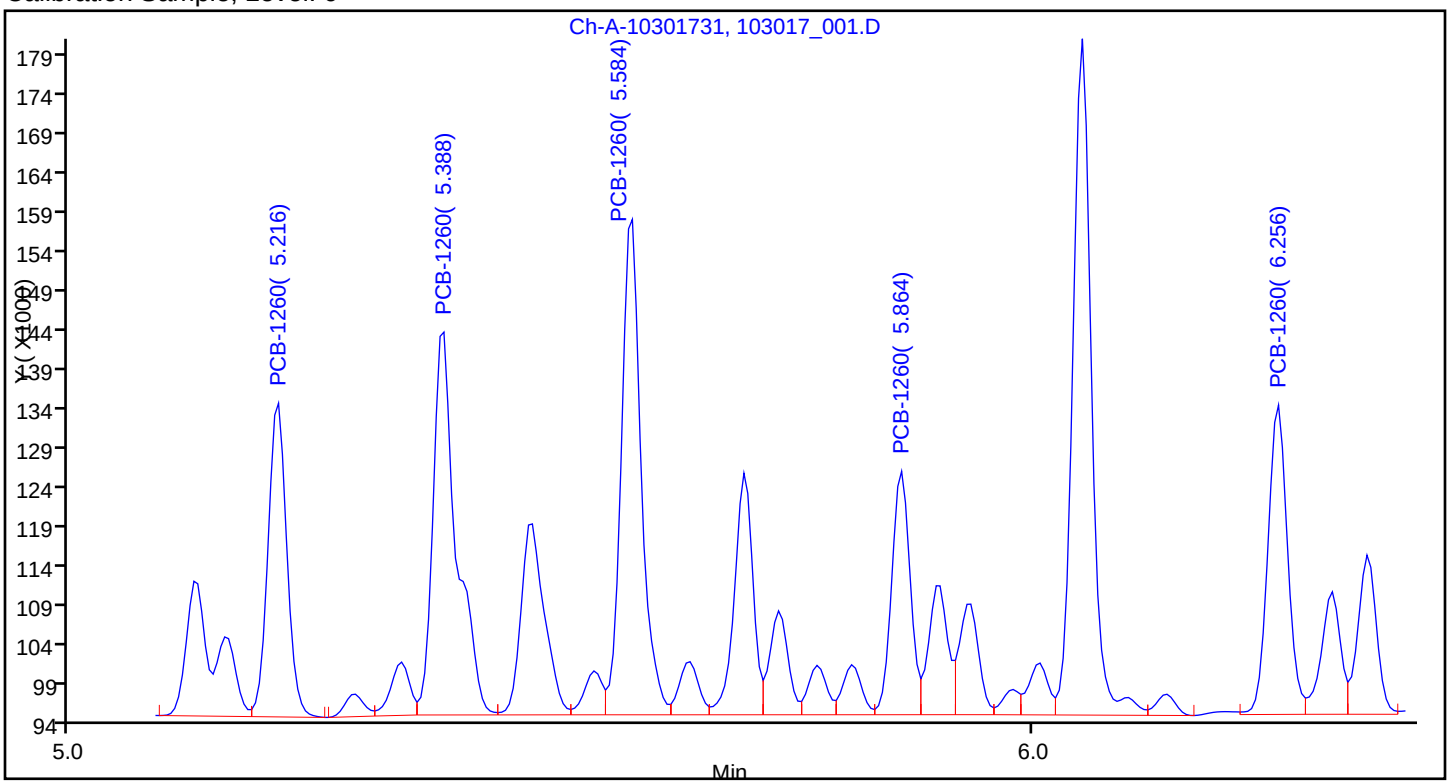
Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: 8082LVIIS_31-32 Limit Group: GC_PCB_8082A_IS

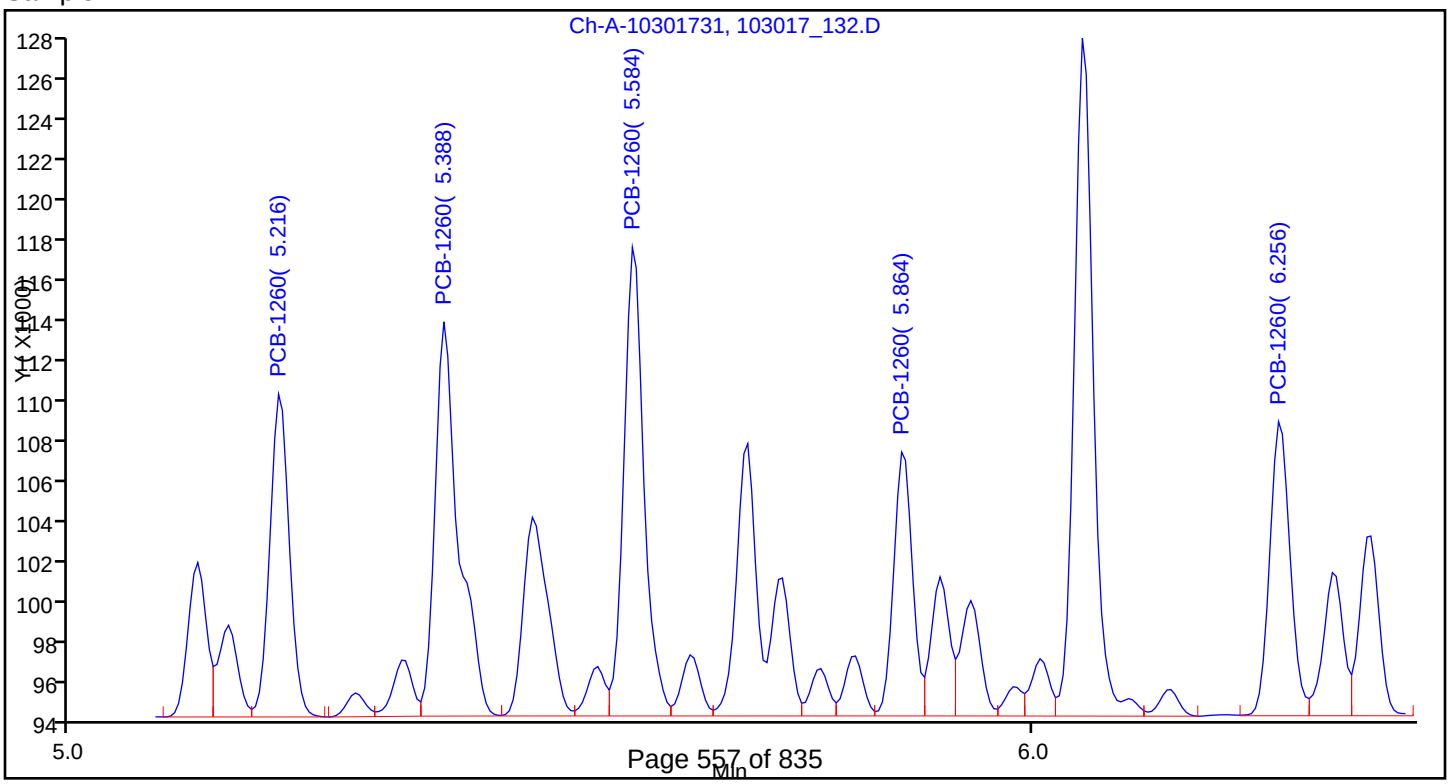
Column: ZB-5 (0.50 mm) Detector Ch-A-04091547

15 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136532-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 500-407914/5-A

Matrix: Water | Lab File ID: 103017_133.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 11/01/2017 10:02

Sample wt/vol: 250(mL) | Date Analyzed: 11/07/2017 19:44

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408844 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	4.04		0.40	0.067
11096-82-5	PCB-1260	3.50		0.40	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	85		30-120
2051-24-3	DCB Decachlorobiphenyl	54		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_133.D
Lims ID: LCSD 500-407914/5-A
Client ID:
Sample Type: LCSD
Inject. Date: 07-Nov-2017 19:44:17 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048894-015
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 08-Nov-2017 11:48:12 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 19:44:17
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 20:00:40
Process Host: XAWRK021

First Level Reviewer: hamnerb Date: 08-Nov-2017 11:48:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.924	0.924	0.000	41571H	0.0200	0.0200	
2	1.420	1.416	0.004	525929H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.696	2.700	-0.004	23364H	0.008000	0.006777	
2	2.580	2.580	0.000	283411H	0.008000	0.005827	
						RPD = 15.07	
1 PCB-1016							
1	3.452	3.456	-0.004	8725H	0.1000	0.0978	
1	3.608	3.616	-0.008	7518H	0.1000	0.1171	
1	3.832	3.836	-0.004	24050H	0.1000	0.1016	
1	3.912	3.916	-0.004	10465H	0.1000	0.0968	
1	4.368	4.372	-0.004	8873H	0.1000	0.0916	
2	3.116	3.116	0.000	61908H	0.1000	0.0829	
2	3.856	3.856	0.000	300465H	0.1000	0.0992	
2	3.964	3.964	0.000	126539H	0.1000	0.0893	
2	4.048	4.048	0.000	69258H	0.1000	0.0931	
2	4.420	4.420	0.000	105054H	0.1000	0.0877	
						RPD = 10.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.220	5.224	-0.004	15968H	0.1000	0.0862	
1	5.388	5.392	-0.004	19223H	0.1000	0.0861	
1	5.584	5.588	-0.004	23208H	0.1000	0.0831	
1	5.868	5.872	-0.004	13725H	0.1000	0.0948	
1	6.260	6.260	0.000	15250H	0.1000	0.0873	
2	5.240	5.240	0.000	213088H	0.1000	0.0871	
2	5.380	5.380	0.000	157797H	0.1000	0.1094	
2	5.492	5.492	0.000	184113H	0.1000	0.0867	
2	5.892	5.892	0.000	190244H	0.1000	0.1023	
2	6.312	6.312	0.000	262551H	0.1000	0.1021	
						RPD = 10.84	
$ 10 DCB Decachlorobiphenyl							
1	7.128	7.132	-0.004	13026H	0.008000	0.004314	
2	7.096	7.096	0.000	116739H	0.008000	0.004530	
						RPD = 4.89	

Reagents:

IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

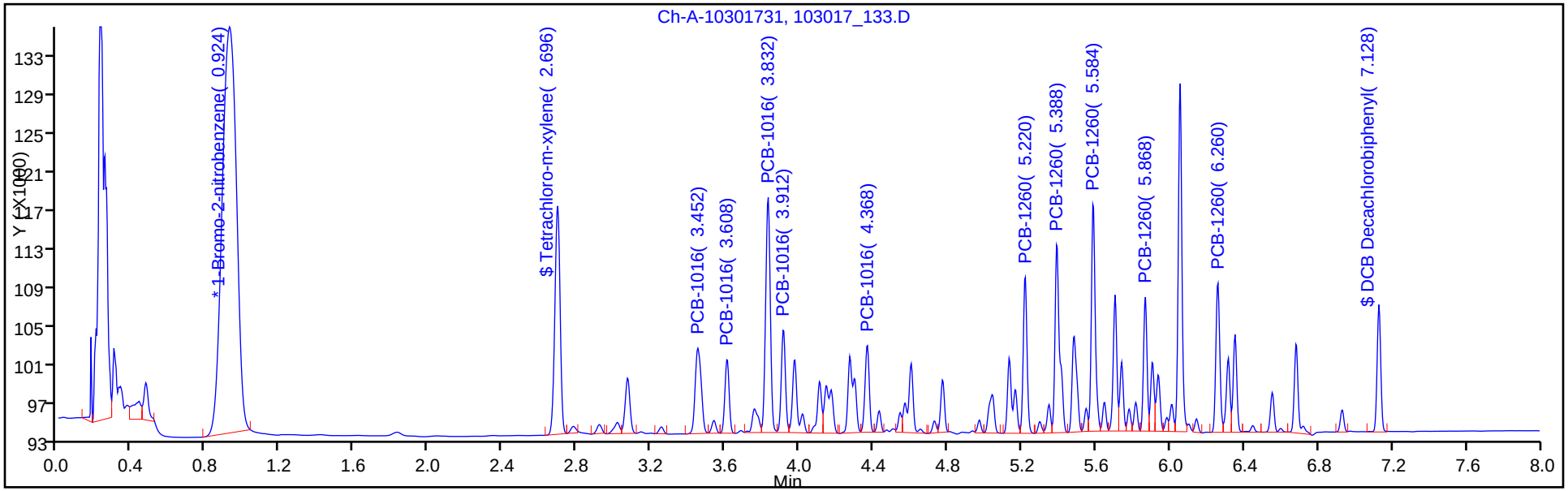
Report Date: 08-Nov-2017 11:48:13 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

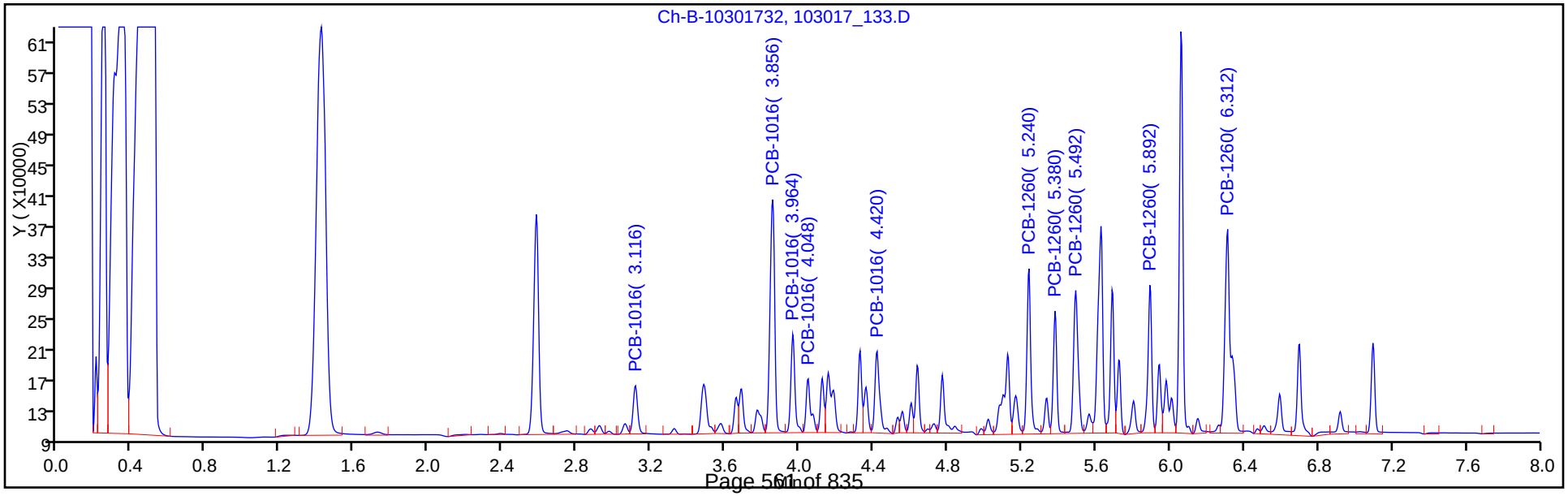
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_133.D

Injection Date:	07-Nov-2017 19:44:17	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	LCSD 500-407914/5-A			Worklist Smp#:	15
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_133.D
Lims ID: LCSD 500-407914/5-A
Client ID:
Sample Type: LCSD
Inject. Date: 07-Nov-2017 19:44:17 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048894-015
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 08-Nov-2017 11:48:12 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 19:44:17
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 20:00:40
Process Host: XAWRK021

First Level Reviewer: hamnerb Date: 08-Nov-2017 11:48:12

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.006777	84.71
$ 10 DCB Decachlorobiphenyl	0.008000	0.004314	53.92

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.005827	72.84
$ 10 DCB Decachlorobiphenyl	0.008000	0.004530	56.62

Report Date: 08-Nov-2017 11:48:13 Chrom Revision: 2.2 16-Aug-2017 16:24:46

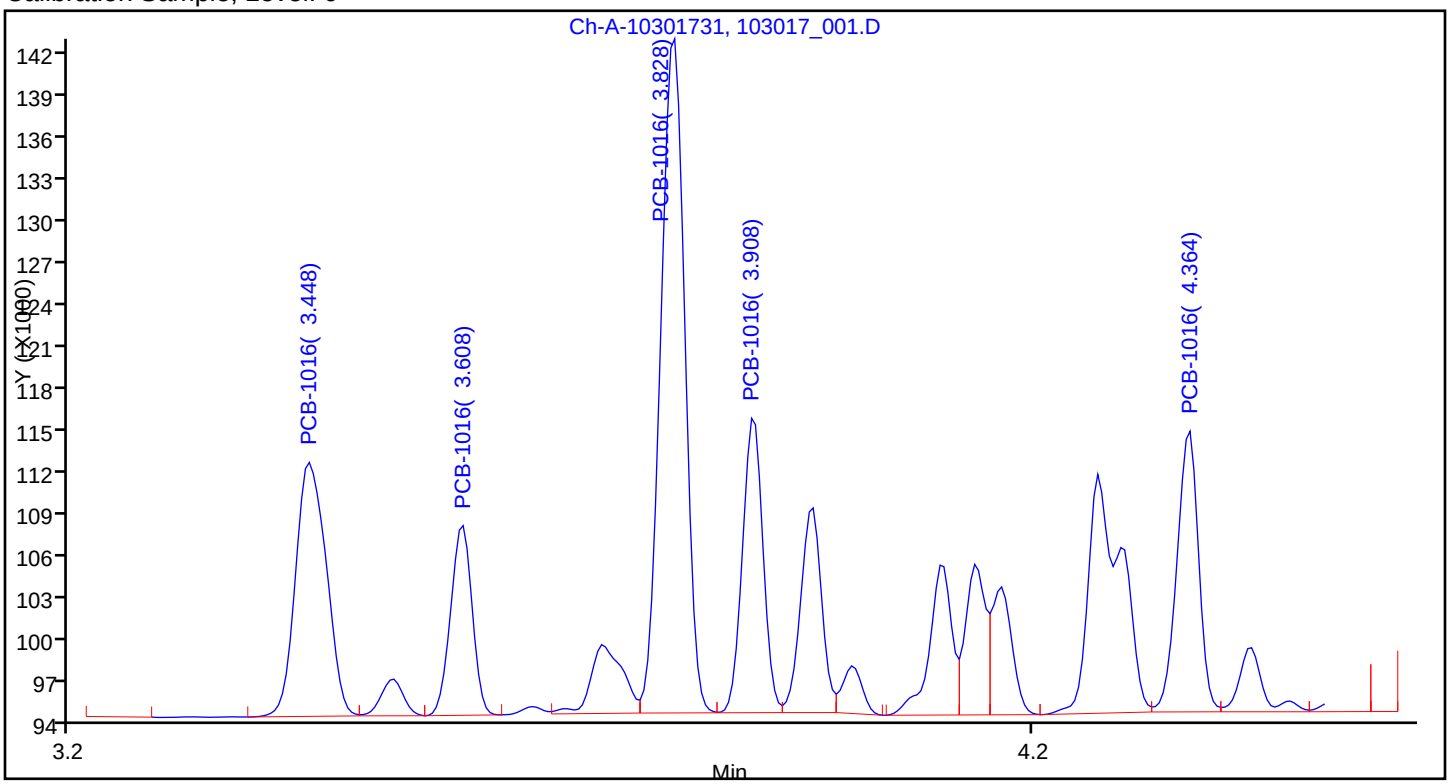
TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_133.D

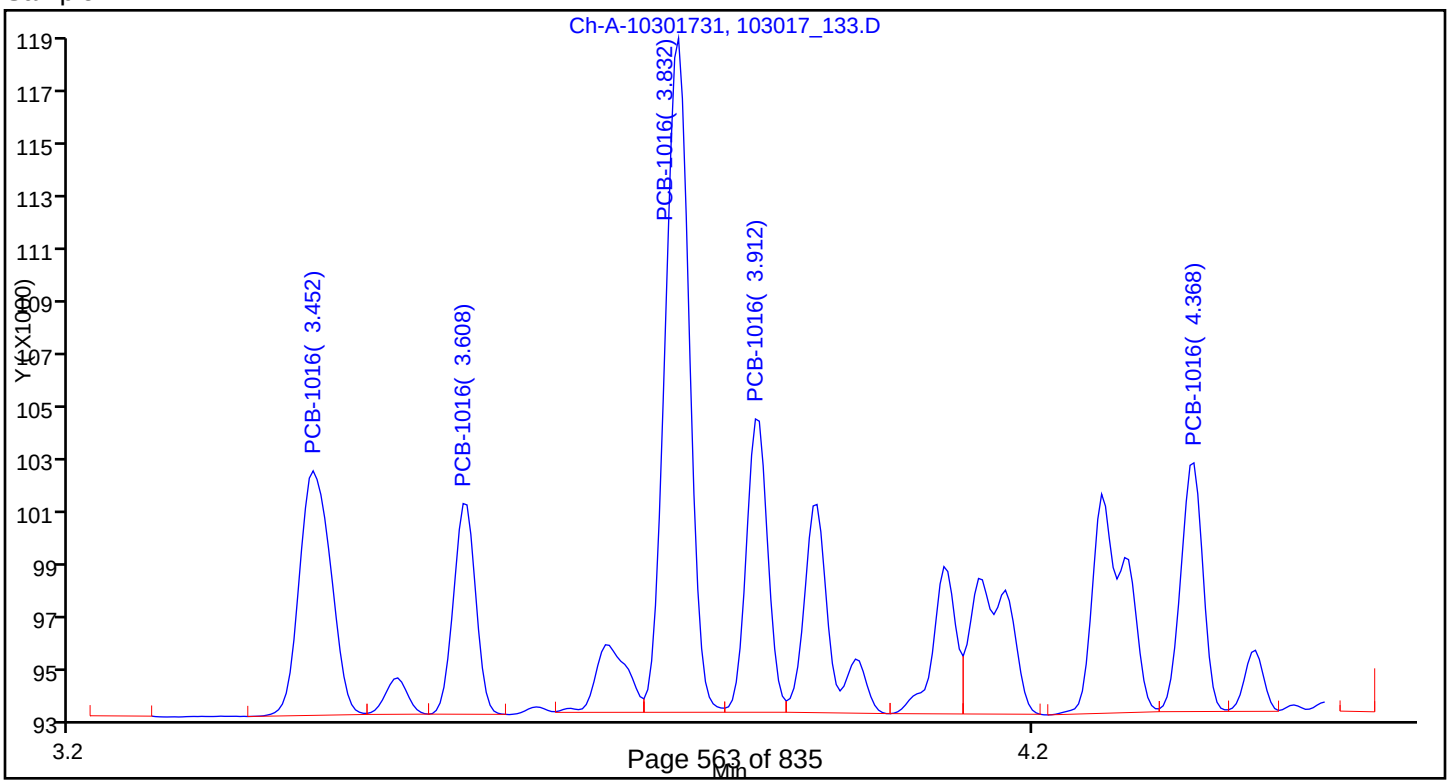
Injection Date:	07-Nov-2017 19:44:17	Instrument ID:	INST31-32		
Lims ID:	LCSD 500-407914/5-A				
Client ID:					
Operator ID:	hamnerb	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		
Column:	ZB-5 (0.50 mm)	Detector	Ch-A-04091547		

1 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 08-Nov-2017 11:48:14 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171107-48894.b\103017_133.D

Injection Date: 07-Nov-2017 19:44:17 Instrument ID: INST31-32

Lims ID: LCSD 500-407914/5-A

Client ID:

Operator ID: hamnerb ALS Bottle#: 0 Worklist Smp#: 15

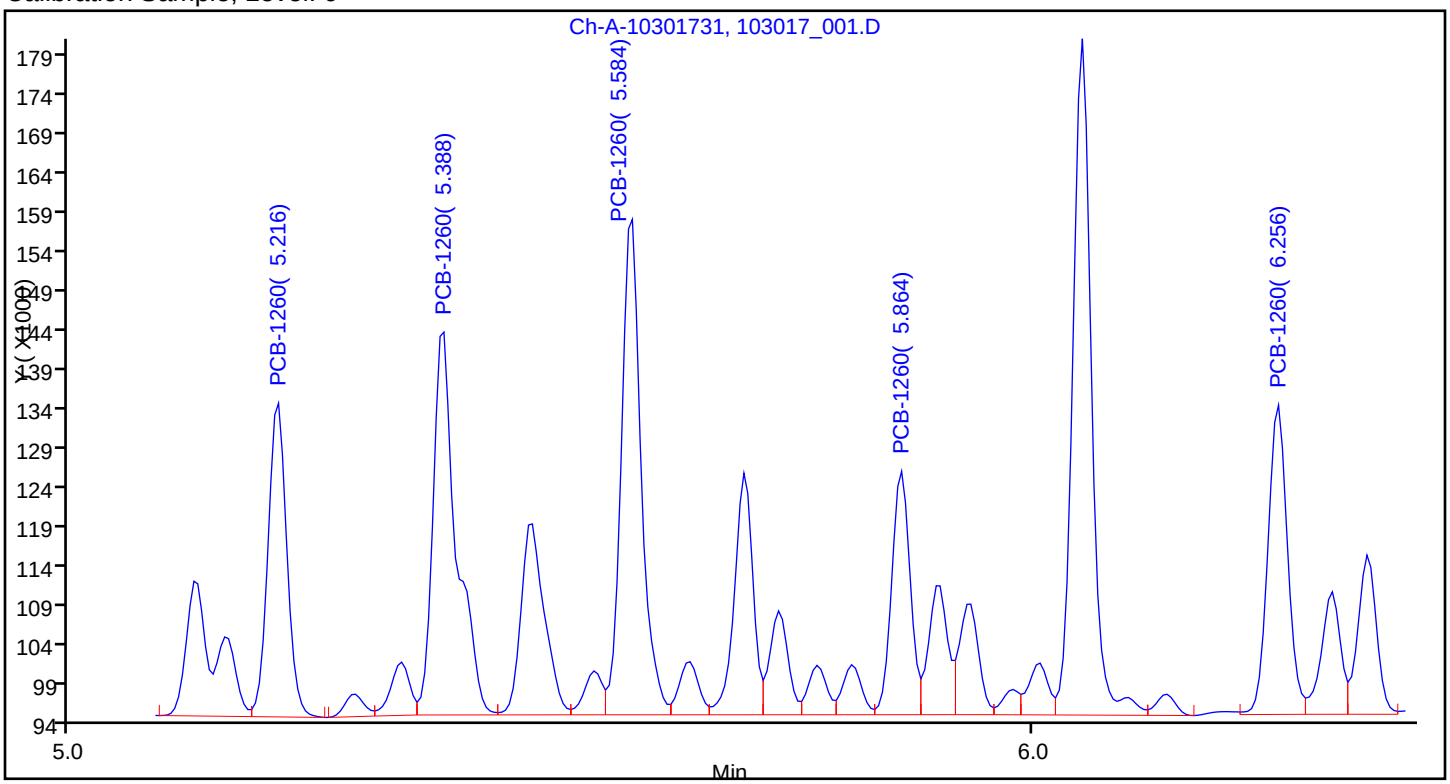
Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: 8082LVIIS_31-32 Limit Group: GC_PCB_8082A_IS

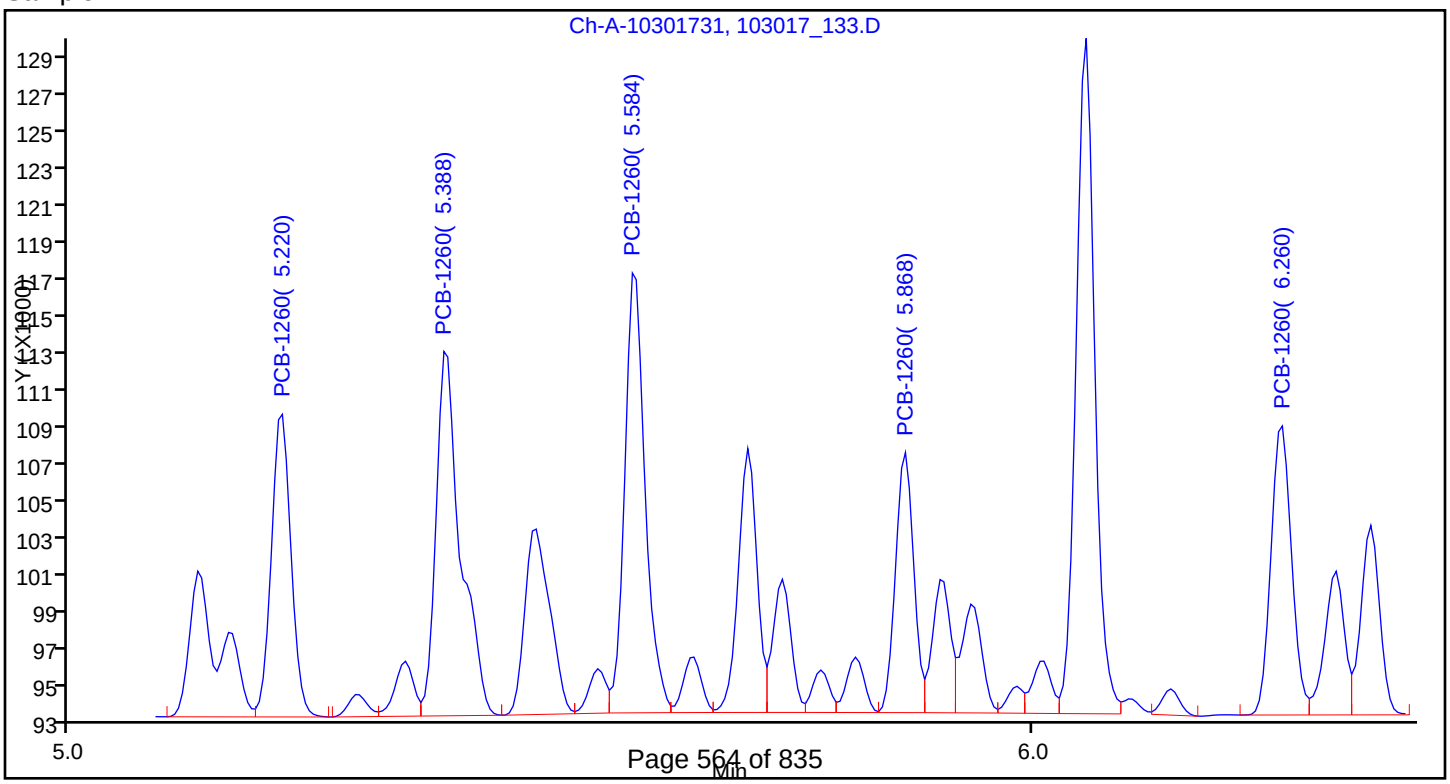
Column: ZB-5 (0.50 mm) Detector Ch-A-04091547

15 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: INST31-32 Start Date: 10/30/2017 12:01

Analysis Batch Number: 407585 End Date: 10/30/2017 14:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 500-407585/1		10/30/2017 12:01	1	103017_001.D	ZB-5 0.53(mm)
IC 500-407585/1		10/30/2017 12:01	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/2		10/30/2017 12:18	1	103017_002.D	ZB-5 0.53(mm)
IC 500-407585/2		10/30/2017 12:18	1		ZB-CLP-Pest2 0.53(mm)
ICIS 500-407585/3		10/30/2017 12:34	1	103017_003.D	ZB-5 0.53(mm)
ICIS 500-407585/3		10/30/2017 12:34	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/4		10/30/2017 12:50	1	103017_004.D	ZB-5 0.53(mm)
IC 500-407585/4		10/30/2017 12:50	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/5		10/30/2017 13:06	1	103017_005.D	ZB-5 0.53(mm)
IC 500-407585/5		10/30/2017 13:06	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/6		10/30/2017 13:23	1	103017_006.D	ZB-5 0.53(mm)
IC 500-407585/6		10/30/2017 13:23	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/7		10/30/2017 13:39	1	103017_007.D	ZB-5 0.53(mm)
IC 500-407585/7		10/30/2017 13:39	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/8		10/30/2017 13:55	1	103017_008.D	ZB-5 0.53(mm)
IC 500-407585/8		10/30/2017 13:55	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/9		10/30/2017 14:11	1	103017_009.D	ZB-5 0.53(mm)
IC 500-407585/9		10/30/2017 14:11	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/10		10/30/2017 14:27	1	103017_010.D	ZB-5 0.53(mm)
IC 500-407585/10		10/30/2017 14:27	1		ZB-CLP-Pest2 0.53(mm)
ICV 500-407585/11		10/30/2017 14:44	1	103017_011.D	ZB-5 0.53(mm)
ICV 500-407585/11		10/30/2017 14:44	1		ZB-CLP-Pest2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: INST31-32 Start Date: 11/07/2017 15:57

Analysis Batch Number: 408844 End Date: 11/07/2017 20:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 500-408844/1		11/07/2017 15:57	1	103017_119.D	ZB-5 0.53(mm)
CCVIS 500-408844/1		11/07/2017 15:57	1		ZB-CLP-Pest2 0.53(mm)
CCV 500-408844/12		11/07/2017 18:55	1		ZB-5 0.53(mm)
CCV 500-408844/12		11/07/2017 18:55	1		ZB-CLP-Pest2 0.53(mm)
MB 500-407914/1-A		11/07/2017 19:11	1	103017_131.D	ZB-5 0.53(mm)
ZZZZZ		11/07/2017 19:11	1		ZB-CLP-Pest2 0.53(mm)
LCS 500-407914/4-A		11/07/2017 19:28	1	103017_132.D	ZB-5 0.53(mm)
ZZZZZ		11/07/2017 19:28	1		ZB-CLP-Pest2 0.53(mm)
LCSD 500-407914/5-A		11/07/2017 19:44	1	103017_133.D	ZB-5 0.53(mm)
ZZZZZ		11/07/2017 19:44	1		ZB-CLP-Pest2 0.53(mm)
500-136532-1		11/07/2017 20:00	10	103017_134.D	ZB-5 0.53(mm)
ZZZZZ		11/07/2017 20:00	10		ZB-CLP-Pest2 0.53(mm)
500-136532-2		11/07/2017 20:16	1	103017_135.D	ZB-5 0.53(mm)
ZZZZZ		11/07/2017 20:16	1		ZB-CLP-Pest2 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Batch Number: 407914 Batch Start Date: 11/01/17 10:45 Batch Analyst: Corona, Dayamara X

Batch Method: 3510C Batch End Date: 11/01/17 11:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	EXCPPSUW 00936	EXPCBSPW66 00155	
MB 500-407914/1		3510C, 8082A		6 SU	250 mL	10.0 mL	200 uL		
LCS 500-407914/4		3510C, 8082A		6 SU	250 mL	10.0 mL	200 uL	200 uL	
LCSD 500-407914/5		3510C, 8082A		6 SU	250 mL	10.0 mL	200 uL	200 uL	
500-136532-F-1	CRMS-SW-02-103117	3510C, 8082A	T	7 SU	250 mL	10.0 mL	200 uL		
500-136532-F-2	CRMS-SW-03-103117	3510C, 8082A	T	7 SU	250 mL	10.0 mL	200 uL		

Batch Notes	
Acid used for Clean Up ID	4499596
Balance ID	C-2619
Concentration End Time	0810
Concentration Start Time	1345
Analyst ID - Concentration	NJ/JD
Exchange Solvent ID	4469548
Exchange Solvent Name	Hexane
Final Concentrator Volume	10.0 mL
Glass Wool ID	4379465
N-evap ID	C-2091
N-evap Temperature	30.3 Degrees C
Na2SO4 ID	4501609
Prep Solvent ID	4507245
Prep Solvent Name	DCM
Person's name who did the prep	BSO/DC/NG
Analyst ID - Spike Analyst	BSO
Analyst ID - Spike Witness Analyst	DC
Sufficient volume for MS/MSD?	N
Syringe ID	A82, A84, A85
Uncorrected N-evap Temperature	30.0 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Batch Number: 407914 Batch Start Date: 11/01/17 10:45 Batch Analyst: Corona, Dayamara X

Batch Method: 3510C Batch End Date: 11/01/17 11:30

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136532-1

SDG No.:

Project: Chicago River Mystery Spill

Client Sample ID	Lab Sample ID
CRMS-SW-02-103117	500-136532-1
CRMS-SW-03-103117	500-136532-2

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CRMS-SW-02-103117 Lab Sample ID: 500-136532-1

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG ID.:

Matrix: Water Date Sampled: 10/31/2017 08:05

Reporting Basis: WET Date Received: 10/31/2017 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.048	0.033	0.012	mg/L			1	6010C
7440-39-3	Barium	1.4	0.033	0.0041	mg/L			1	6010C
7440-43-9	Cadmium	0.019	0.0067	0.0014	mg/L		B	1	6010C
7440-47-3	Chromium	0.33	0.033	0.0056	mg/L			1	6010C
7439-92-1	Lead	1.1	0.017	0.0090	mg/L			1	6010C
7782-49-2	Selenium	0.046	0.033	0.018	mg/L			1	6010C
7440-22-4	Silver	0.013	0.017	0.0049	mg/L	J		1	6010C
7439-97-6	Mercury	1.3	0.20	0.098	ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CRMS-SW-03-103117 Lab Sample ID: 500-136532-2

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG ID.:

Matrix: Water Date Sampled: 10/31/2017 08:25

Reporting Basis: WET Date Received: 10/31/2017 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	<0.010	0.010	0.0037	mg/L		^	1	6010C
7440-39-3	Barium	0.031	0.010	0.0012	mg/L			1	6010C
7440-43-9	Cadmium	0.0012	0.0020	0.00043	mg/L	J	B	1	6010C
7440-47-3	Chromium	<0.010	0.010	0.0017	mg/L			1	6010C
7439-92-1	Lead	<0.0050	0.0050	0.0027	mg/L			1	6010C
7782-49-2	Selenium	<0.010	0.010	0.0053	mg/L			1	6010C
7440-22-4	Silver	<0.0050	0.0050	0.0015	mg/L			1	6010C
7439-97-6	Mercury	<0.20	0.20	0.098	ug/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

ICV Source: M17JCCVLIC_00001 Concentration Units: mg/L

CCV Source: M17JCCVLIC_00001

Analyte	ICVL 500-408080/8 11/01/2017 15:48				CCVL 500-408080/65 11/01/2017 19:48							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0132		0.0100	132	0.0106		0.0100	106				
Barium	0.00947	J	0.0100	95	0.00922	J	0.0100	92				
Cadmium	0.00242		0.00200	121	0.00200		0.00200	100				
Chromium	0.00879	J	0.0100	88	0.00983	J	0.0100	98				
Lead	0.00616		0.00500	123	0.00491	J	0.00500	98				
Selenium	0.0126		0.0100	126	0.00998	J	0.0100	100				
Silver	0.00536		0.00500	107	0.00588		0.00500	118				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

ICV Source: M17JICVIC_00002 Concentration Units: mg/L

CCV Source: M17JCCVIC_00003

Analyte	ICV 500-408080/9 11/01/2017 15:52				CCV 500-408080/38 11/01/2017 17:53				CCV 500-408080/50 11/01/2017 18:46			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.392		0.400	98	0.509		0.500	102	0.490		0.500	98
Barium	0.386		0.400	96	0.484		0.500	97	0.460		0.500	92
Cadmium	0.382		0.400	96	0.486		0.500	97	0.475		0.500	95
Chromium	0.389		0.400	97	0.491		0.500	98	0.497		0.500	99
Lead	0.396		0.400	99	0.503		0.500	101	0.512		0.500	102
Selenium	0.378		0.400	95	0.491		0.500	98	0.469		0.500	94
Silver	0.396		0.400	99	0.504		0.500	101	0.499		0.500	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

ICV Source: M17JICVIC_00002 Concentration Units: mg/L

CCV Source: M17JCCVIC_00003

Analyte	ICV 500-408178/7 11/02/2017 10:59				CCV 500-408178/13 11/02/2017 11:23				CCV 500-408178/26 11/02/2017 12:18			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.400		0.400	100	0.499		0.500	100	0.478		0.500	96
Barium	0.397		0.400	99	0.476		0.500	95	0.483		0.500	97
Cadmium	0.403		0.400	101	0.505		0.500	101	0.489		0.500	98
Chromium	0.391		0.400	98	0.498		0.500	100	0.501		0.500	100
Lead	0.416		0.400	104	0.522		0.500	104	0.507		0.500	101
Selenium	0.399		0.400	100	0.496		0.500	99	0.468		0.500	94
Silver	0.398		0.400	100	0.505		0.500	101	0.507		0.500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

ICV Source: M17JCCVLIC_00001 Concentration Units: mg/L

CCV Source: M17JCCVLIC_00001

Analyte	ICVL 500-408178/9 11/02/2017 11:07				CCVL 500-408178/28 11/02/2017 12:25							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.00836	J	0.0100	84	0.00851	J	0.0100	85				
Barium	0.00959	J	0.0100	96	0.00934	J	0.0100	93				
Cadmium	0.00206		0.00200	103	0.00227		0.00200	114				
Chromium	0.00890	J	0.0100	89	0.00978	J	0.0100	98				
Selenium	0.0108		0.0100	108	0.00971	J	0.0100	97				
Silver	0.00456	J	0.00500	91	0.00520		0.00500	104				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

ICV Source: M15HSTKHG_00001 Concentration Units: ug/L

CCV Source: M15HSTKHG_00001

Analyte	ICV 500-408141/7 11/02/2017 08:12				CCV 500-408141/19 11/02/2017 08:54				CCV 500-408141/31 11/02/2017 09:11			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	1.99		2.00	100	1.01		1.00	101	1.01		1.00	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Method: 6010C Instrument ID: ICP6

Lab Sample ID: CRI 500-408080/10 Concentration Units: mg/L

CRQL Check Standard Source: M17JCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0192		96	50-150
Barium	0.0200	0.0191		96	50-150
Cadmium	0.00400	0.00413		103	50-150
Chromium	0.0200	0.0198		99	50-150
Lead	0.0100	0.0121		121	50-150
Selenium	0.0200	0.0185		92	50-150
Silver	0.0100	0.0108		108	50-150

Lab Sample ID: CRI 500-408178/10 Concentration Units: mg/L

CRQL Check Standard Source: M17JCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0151		75	50-150
Barium	0.0200	0.0198		99	50-150
Cadmium	0.00400	0.00398		99	50-150
Chromium	0.0200	0.0190		95	50-150
Lead	0.0100	0.00910		91	50-150
Selenium	0.0200	0.0247		124	50-150
Silver	0.0100	0.00999		100	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Method: 7470A Instrument ID: HG6

Lab Sample ID: CRA 500-408141/9 Concentration Units: ug/L

CRQL Check Standard Source: M17BSTKHG_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.242		121	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 500-408080/7 11/01/2017 15:44		CCB 500-408080/39 11/01/2017 17:57		CCB 500-408080/51 11/01/2017 18:50			
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.010		<0.010		<0.010			
Barium	0.010	<0.010		<0.010		<0.010			
Cadmium	0.0020	<0.0020		<0.0020		<0.0020			
Chromium	0.010	<0.010		<0.010		<0.010			
Lead	0.0050	<0.0050		<0.0050		<0.0050			
Selenium	0.010	<0.010		<0.010		<0.010			
Silver	0.0050	<0.0050		<0.0050		<0.0050			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 500-408178/8 11/02/2017 11:03		CCB 500-408178/14 11/02/2017 11:27		CCB 500-408178/27 11/02/2017 12:21			
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.010		<0.010		<0.010			
Barium	0.010	<0.010		<0.010		<0.010			
Cadmium	0.0020	<0.0020		<0.0020		<0.0020			
Chromium	0.010	<0.010		<0.010		<0.010			
Lead	0.0050	<0.0050		<0.0050		<0.0050			
Selenium	0.010	<0.010		<0.010		<0.010			
Silver	0.0050	<0.0050		<0.0050		<0.0050			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 500-408141/8 11/02/2017 08:14		CCB 500-408141/20 11/02/2017 08:55		CCB 500-408141/32 11/02/2017 09:13			
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	<0.20		<0.20		<0.20			

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 500-407850/1-A

Instrument Code: ICP6 Batch No.: 408080

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	<0.010		^	6010C
7440-39-3	Barium	<0.010			6010C
7440-43-9	Cadmium	0.000572	J		6010C
7440-47-3	Chromium	<0.010			6010C
7439-92-1	Lead	<0.0050			6010C
7782-49-2	Selenium	<0.010			6010C
7440-22-4	Silver	<0.0050			6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 500-407943/12-A

Instrument Code: HG6 Batch No.: 408141

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	<0.20			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: ICSA 500-408080/11 Instrument ID: ICP6

Lab File ID: P6110117B.asc ICS Source: M17JISAIC_00002

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**0.0089**	
Barium		**-0.0004**	
Cadmium		**0.0010**	
Chromium		**0.0013**	
Lead		**0.0045**	
Selenium		**-0.0009**	
Silver		**-0.0006**	
Aluminum	*500*	*510*	*102*
Antimony		*0.0018*	
Beryllium		*-0.0003*	
Bismuth		*-0.0011*	
Boron		*0.0000*	
Calcium	*500*	*495*	*99*
Cobalt		*0.0011*	
Copper		*0.0058*	
Iron	*200*	*194*	*97*
Lithium		*0.0087*	
Magnesium	*500*	*513*	*103*
Manganese		*-0.0002*	
Molybdenum		*-0.0010*	
Nickel		*-0.0085*	
Potassium		*-0.0359*	
Silicon		*-0.0094*	
Sodium		*0.0200*	
Strontium		*0.0047*	
Thallium		*0.0005*	
Tin		*-0.0015*	
Titanium		*0.0007*	
Vanadium		*0.0003*	
Zinc		*0.0010*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: ICSAB 500-408080/12 Instrument ID: ICP6

Lab File ID: P6110117B.asc ICS Source: M17JISBIC_00002

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**0.100**	**0.103**	**103**
Barium	**0.500**	**0.476**	**95**
Cadmium	**1.00**	**1.02**	**102**
Chromium	**0.500**	**0.483**	**97**
Lead	**0.0500**	**0.0486**	**97**
Selenium	**0.0500**	**0.0465**	**93**
Silver	**0.200**	**0.224**	**112**
Aluminum	*500*	*500*	*100*
Antimony	*0.600*	*0.573*	*96*
Beryllium	*0.500*	*0.503*	*101*
Bismuth		*-0.0013*	
Boron		*-0.0016*	
Calcium	*500*	*484*	*97*
Cobalt	*0.500*	*0.512*	*102*
Copper	*0.500*	*0.575*	*115*
Iron	*200*	*190*	*95*
Lithium		*0.0086*	
Magnesium	*500*	*503*	*101*
Manganese	*0.500*	*0.455*	*91*
Molybdenum		*-0.0008*	
Nickel	*1.00*	*0.993*	*99*
Potassium		*-0.0429*	
Silicon		*-0.0099*	
Sodium		*0.0195*	
Strontium		*0.0047*	
Thallium	*0.100*	*0.0850*	*85*
Tin		*0.0043*	
Titanium		*0.0020*	
Vanadium	*0.500*	*0.494*	*99*
Zinc	*1.00*	*1.04*	*104*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: ICSA 500-408178/11 Instrument ID: ICP6

Lab File ID: P6110217A.asc ICS Source: M17JISAIC_00002

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**0.0058**	
Aluminum	*500*	*498*	*100*
Antimony		*0.0002*	
Barium		*-0.0003*	
Beryllium		*0.0003*	
Bismuth		*0.0010*	
Boron		*-0.0006*	
Cadmium		*0.0003*	
Calcium	*500*	*484*	*97*
Chromium		*0.0025*	
Cobalt		*0.0003*	
Copper		*0.0058*	
Iron	*200*	*188*	*94*
Lead		*0.0016*	
Lithium		*0.0083*	
Magnesium	*500*	*497*	*99*
Manganese		*-0.0013*	
Molybdenum		*-0.0017*	
Nickel		*-0.0059*	
Potassium		*-0.0286*	
Selenium		*0.0073*	
Silicon		*-0.0047*	
Silver		*-0.0007*	
Sodium		*0.0174*	
Strontium		*0.0046*	
Thallium		*-0.0029*	
Tin		*0.0046*	
Titanium		*0.0013*	
Vanadium		*0.0008*	
Zinc		*0.0007*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Lab Sample ID: ICSAB 500-408178/12 Instrument ID: ICP6

Lab File ID: P6110217A.asc ICS Source: M17JISBIC_00002

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**0.100**	**0.106**	**106**
Aluminum	*500*	*504*	*101*
Antimony	*0.600*	*0.584*	*97*
Barium	*0.500*	*0.486*	*97*
Beryllium	*0.500*	*0.506*	*101*
Bismuth		*-0.0011*	
Boron		*-0.0011*	
Cadmium	*1.00*	*1.04*	*104*
Calcium	*500*	*494*	*99*
Chromium	*0.500*	*0.482*	*96*
Cobalt	*0.500*	*0.526*	*105*
Copper	*0.500*	*0.567*	*113*
Iron	*200*	*192*	*96*
Lead	*0.0500*	*0.0534*	*107*
Lithium		*0.0080*	
Magnesium	*500*	*503*	*101*
Manganese	*0.500*	*0.469*	*94*
Molybdenum		*-0.0018*	
Nickel	*1.00*	*0.993*	*99*
Potassium		*-0.0340*	
Selenium	*0.0500*	*0.0495*	*99*
Silicon		*-0.0083*	
Silver	*0.200*	*0.225*	*112*
Sodium		*0.0152*	
Strontium		*0.0046*	
Thallium	*0.100*	*0.0946*	*95*
Tin		*0.0079*	
Titanium		*0.0019*	
Vanadium	*0.500*	*0.491*	*98*
Zinc	*1.00*	*1.04*	*104*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-407850/2-A

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

Sample Matrix: Water LCS Source: M17ISPKIC_00001

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	0.100	0.0970		97	80	120	^	6010C
Barium	2.00	1.92		96	80	120		6010C
Cadmium	0.0500	0.0477		95	80	120		6010C
Chromium	0.200	0.195		98	80	120		6010C
Lead	0.100	0.0923		92	80	120		6010C
Selenium	0.100	0.0876		88	80	120		6010C
Silver	0.0500	0.0475		95	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-407943/13-A

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

Sample Matrix: Water LCS Source: M15HSTKHG_00001

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	2.00	2.24		112	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136532-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 6010C MDL Date: 03/29/2017 09:38

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Arsenic		0.01	0.00365
Barium		0.01	0.00123
Cadmium		0.002	0.000433
Chromium		0.01	0.00169
Lead		0.005	0.0027
Selenium		0.01	0.00532
Silver		0.005	0.00148

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136532-1

SDG Number:

Matrix: Water Instrument ID: ICP6

Method: 6010C XMDL Date: 06/16/2010 15:40

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic		0.01	0.005
Barium		0.01	0.005
Cadmium		0.002	0.001
Chromium		0.01	0.005
Lead		0.005	0.0025
Selenium		0.01	0.005
Silver		0.005	0.0025

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136532-1

SDG Number:

Matrix: Water Instrument ID: HG6

Method: 7470A MDL Date: 03/29/2017 08:53

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.0984

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136532-1

SDG Number:

Matrix: Water Instrument ID: HG6

Method: 7470A XMDL Date: 03/29/2017 08:53

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.0984

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136532-1

SDG No.:

ICP-AES Instrument ID: ICP6 Date: 10/23/2017

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K
Aluminum															
Antimony			0.000010									0.005069		0.000013	
Arsenic			-0.000008									-0.003046		-0.000007	
Barium															
Beryllium														0.000009	
Bismuth														0.000024	
Boron															
Cadmium				0.009325		-0.000228								0.000015	
Calcium															
Chromium															
Cobalt						-0.000350						-0.000258		-0.000001	
Copper															
Iron											0.074102				
Lead			-0.000055										0.001208	0.000052	
Lithium															
Magnesium														-0.000289	
Manganese														0.000010	
Molybdenum			-0.000003											-0.000026	
Nickel														0.000058	
Potassium															
Selenium			-0.000019											0.000013	
Silicon															
Silver														-0.000001	
Sodium															
Strontium															
Thallium			-0.000006								0.001123			0.000004	
Tin															
Titanium									-0.000004						
Vanadium														0.000020	
Zinc			-0.000005									-0.000534			

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136532-1

SDG No.:

ICP-AES Instrument ID: ICP6 Date: 10/23/2017

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl
Aluminum					0.016937										
Antimony														-0.002346	
Arsenic					-0.000257										
Barium															
Beryllium															
Bismuth														-0.007347	
Boron					0.016183										
Cadmium															
Calcium															
Chromium															
Cobalt														0.002231	
Copper															
Iron															
Lead					-0.001050						0.000411				
Lithium															
Magnesium				-0.003611	-0.006776										
Manganese															
Molybdenum															
Nickel															
Potassium															
Selenium															
Silicon					0.014343										
Silver															
Sodium															
Strontium															
Thallium														-0.000140	
Tin															
Titanium															
Vanadium					-0.003891									0.000604	
Zinc															

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136532-1

SDG No.:

ICP-AES Instrument ID: ICP6 Date: 10/23/2017

Analyte	Wave Length	V	Zn												
Aluminum		0.047756													
Antimony		-0.000255													
Arsenic															
Barium															
Beryllium															
Bismuth															
Boron															
Cadmium															
Calcium															
Chromium															
Cobalt															
Copper															
Iron		-0.052543													
Lead															
Lithium															
Magnesium															
Manganese															
Molybdenum															
Nickel															
Potassium															
Selenium															
Silicon															
Silver															
Sodium															
Strontium															
Thallium		-0.000102													
Tin															
Titanium															
Vanadium															
Zinc															

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-136532-1

SDG No.:

Instrument ID: ICP6 Date: 10/16/2015 10:43

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		20	6010C
Barium		20	6010C
Cadmium		10	6010C
Chromium		20	6010C
Lead		100	6010C
Selenium		20	6010C
Silver		10	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-136532-1

SDG No.:

Instrument ID: HG6 Date: 11/01/2010 11:39

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury		5.0	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-407850/1-A	10/31/2017 16:02	407850		50	50
LCS 500-407850/2-A	10/31/2017 16:02	407850		50	50
500-136532-1	10/31/2017 16:02	407850		15	50
500-136532-2	10/31/2017 16:02	407850		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-407943/12-A	11/01/2017 11:10	407943		25	25
LCS 500-407943/13-A	11/01/2017 11:10	407943		25	25
500-136532-1	11/01/2017 11:10	407943		25	25
500-136532-2	11/01/2017 11:10	407943		25	25

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: ICP6 Analysis Method: 6010C

Start Date: 11/01/2017 15:20 End Date: 11/01/2017 21:55

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Ba	Cd	Cr	Pb	Se																		
ZZZZZZ			15:20																									
ZZZZZZ			15:24																									
ZZZZZZ			15:28																									
ZZZZZZ			15:32																									
ZZZZZZ			15:36																									
ICV 500-408080/6			15:40																									
ICBIS 500-408080/7	1		15:44	X	X	X	X	X	X	X																		
ICVL 500-408080/8	1		15:48	X	X	X	X	X	X	X																		
ICV 500-408080/9	1		15:52	X	X	X	X	X	X	X																		
CRI 500-408080/10	1		15:56	X	X	X	X	X	X	X																		
ICSA 500-408080/11	1		16:00	X	X	X	X	X	X	X																		
ICSAB 500-408080/12	1		16:04	X	X	X	X	X	X	X																		
CCV 500-408080/13			16:08																									
CCB 500-408080/14			16:12																									
ZZZZZZ			16:16																									
ZZZZZZ			16:20																									
ZZZZZZ			16:24																									
ZZZZZZ			16:28																									
ZZZZZZ			16:32																									
ZZZZZZ			16:36																									
ZZZZZZ			16:40																									
ZZZZZZ			16:44																									
ZZZZZZ			16:50																									
ZZZZZZ			16:54																									
ZZZZZZ			16:58																									
CCV 500-408080/26			17:02																									
CCB 500-408080/27			17:06																									
ZZZZZZ			17:10																									
ZZZZZZ			17:14																									
ZZZZZZ			17:19																									
ZZZZZZ			17:23																									
ZZZZZZ			17:27																									
ZZZZZZ			17:33																									
ZZZZZZ			17:37																									
ZZZZZZ			17:41																									
ZZZZZZ			17:45																									
ZZZZZZ			17:49																									
CCV 500-408080/38	1		17:53	X	X	X	X	X	X	X																		
CCB 500-408080/39	1		17:57	X	X	X	X	X	X	X																		
ZZZZZZ			18:01																									
ZZZZZZ			18:05																									
MB 500-407850/1-A	1	T	18:11	X	X	X	X	X	X	X																		

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: ICP6 Analysis Method: 6010C

Start Date: 11/01/2017 15:20 End Date: 11/01/2017 21:55

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Ba	Cd	Cr	Pb	Se																		
LCS 500-407850/2-A	1	T	18:15	X	X	X	X	X	X	X																		
500-136532-1	1	T	18:19	X		X	X	X	X	X																		
ZZZZZZ			18:23																									
500-136532-2	1	T	18:27	X	X	X	X	X	X	X																		
ZZZZZZ			18:31																									
ZZZZZZ			18:35																									
ZZZZZZ			18:42																									
CCV 500-408080/50	1		18:46	X	X	X	X	X	X	X																		
CCB 500-408080/51	1		18:50	X	X	X	X	X	X	X																		
ZZZZZZ			18:54																									
ZZZZZZ			18:58																									
ZZZZZZ			19:02																									
ZZZZZZ			19:06																									
ZZZZZZ			19:10																									
ZZZZZZ			19:14																									
ZZZZZZ			19:18																									
ZZZZZZ			19:22																									
ZZZZZZ			19:26																									
ZZZZZZ			19:32																									
ZZZZZZ			19:36																									
CCV 500-408080/63			19:40																									
CCB 500-408080/64			19:44																									
CCVL 500-408080/65	1		19:48	X	X	X	X	X	X	X																		
ZZZZZZ			19:52																									
ZZZZZZ			19:56																									
ZZZZZZ			20:00																									
ZZZZZZ			20:04																									
ZZZZZZ			20:08																									
ZZZZZZ			20:12																									
ZZZZZZ			20:17																									
ZZZZZZ			20:22																									
ZZZZZZ			20:26																									
ZZZZZZ			20:30																									
CCV 500-408080/76			20:34																									
CCB 500-408080/77			20:38																									
ZZZZZZ			20:42																									
ZZZZZZ			20:46																									
ZZZZZZ			20:50																									
ZZZZZZ			20:54																									
ZZZZZZ			20:58																									
ZZZZZZ			21:02																									
ZZZZZZ			21:06																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: ICP6 Analysis Method: 6010C

Start Date: 11/01/2017 15:20 End Date: 11/01/2017 21:55

Lab Sample Id	D/F	Type	Time	Analytes																									
				Ag	As	Ba	Cd	Cr	Pb	Se																			
ZZZZZZ			21:10																										
ZZZZZZ			21:14																										
ZZZZZZ			21:19																										
CCV 500-408080/88			21:23																										
CCB 500-408080/89			21:27																										
ZZZZZZ			21:31																										
ZZZZZZ			21:35																										
ZZZZZZ			21:39																										
ZZZZZZ			21:43																										
CCV 500-408080/94			21:47																										
CCB 500-408080/95			21:51																										
ZZZZZZ			21:55																										

Prep Types:
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: ICP6 Analysis Method: 6010C

Start Date: 11/02/2017 10:35 End Date: 11/02/2017 12:49

Lab Sample Id	D/F	Type	Time	Analytes																								
				As																								
ZZZZZZ			10:35																									
ZZZZZZ			10:39																									
ZZZZZZ			10:43																									
ZZZZZZ			10:47																									
ZZZZZZ			10:51																									
ZZZZZZ			10:55																									
ICV 500-408178/7	1		10:59	X																								
ICBIS 500-408178/8	1		11:03	X																								
ICVL 500-408178/9	1		11:07	X																								
CRI 500-408178/10	1		11:11	X																								
ICSA 500-408178/11	1		11:15	X																								
ICSAB 500-408178/12	1		11:19	X																								
CCV 500-408178/13	1		11:23	X																								
CCB 500-408178/14	1		11:27	X																								
ZZZZZZ			11:31																									
ZZZZZZ			11:35																									
ZZZZZZ			11:39																									
ZZZZZZ			11:43																									
ZZZZZZ			11:47																									
ZZZZZZ			11:51																									
ZZZZZZ			11:55																									
ZZZZZZ			11:59																									
500-136532-1	1	T	12:03	X																								
ZZZZZZ			12:09																									
ZZZZZZ			12:13																									
CCV 500-408178/26	1		12:18	X																								
CCB 500-408178/27	1		12:21	X																								
CCVL 500-408178/28	1		12:25	X																								
ZZZZZZ			12:30																									
ZZZZZZ			12:33																									
ZZZZZZ			12:37																									
ZZZZZZ			12:41																									
ZZZZZZ			12:45																									
ZZZZZZ			12:49																									

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: HG6 Analysis Method: 7470A

Start Date: 11/02/2017 08:00 End Date: 11/02/2017 10:30

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
ZZZZZZ			08:00																									
ZZZZZZ			08:02																									
ZZZZZZ			08:03																									
ZZZZZZ			08:05																									
ZZZZZZ			08:06																									
ZZZZZZ			08:08																									
ICV 500-408141/7	1		08:12	X																								
ICB 500-408141/8	1		08:14	X																								
CRA 500-408141/9	1		08:15	X																								
MB 500-407943/12-A	1	T	08:40	X																								
LCS 500-407943/13-A	1	T	08:42	X																								
ZZZZZZ			08:43																									
ZZZZZZ			08:45																									
ZZZZZZ			08:46																									
ZZZZZZ			08:48																									
ZZZZZZ			08:49																									
ZZZZZZ			08:51																									
ZZZZZZ			08:52																									
CCV 500-408141/19	1		08:54	X																								
CCB 500-408141/20	1		08:55	X																								
ZZZZZZ			08:57																									
ZZZZZZ			08:58																									
ZZZZZZ			09:00																									
500-136532-1	1	T	09:01	X																								
500-136532-2	1	T	09:02	X																								
ZZZZZZ			09:04																									
ZZZZZZ			09:05																									
ZZZZZZ			09:07																									
ZZZZZZ			09:08																									
ZZZZZZ			09:10																									
CCV 500-408141/31	1		09:11	X																								
CCB 500-408141/32	1		09:13	X																								
ZZZZZZ			09:15																									
ZZZZZZ			09:16																									
ZZZZZZ			09:18																									
ZZZZZZ			09:19																									
ZZZZZZ			09:20																									
ZZZZZZ			09:22																									
ZZZZZZ			09:23																									
ZZZZZZ			09:25																									
ZZZZZZ			09:26																									
ZZZZZZ			09:28																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Instrument ID: HG6 Analysis Method: 7470A

Start Date: 11/02/2017 08:00 End Date: 11/02/2017 10:30

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
CCV 500-408141/43			09:29																									
CCB 500-408141/44			09:31																									
ZZZZZZ			09:32																									
ZZZZZZ			09:34																									
ZZZZZZ			09:35																									
ZZZZZZ			09:37																									
ZZZZZZ			09:38																									
ZZZZZZ			09:40																									
ZZZZZZ			09:42																									
ZZZZZZ			09:43																									
ZZZZZZ			09:44																									
ZZZZZZ			09:46																									
CCV 500-408141/55			09:47																									
CCB 500-408141/56			09:49																									
ZZZZZZ			09:50																									
ZZZZZZ			09:52																									
ZZZZZZ			09:53																									
ZZZZZZ			09:55																									
ZZZZZZ			09:56																									
ZZZZZZ			09:58																									
ZZZZZZ			09:59																									
ZZZZZZ			10:00																									
ZZZZZZ			10:02																									
ZZZZZZ			10:04																									
CCV 500-408141/67			10:08																									
CCB 500-408141/68			10:09																									
ZZZZZZ			10:11																									
ZZZZZZ			10:12																									
ZZZZZZ			10:14																									
ZZZZZZ			10:15																									
ZZZZZZ			10:16																									
ZZZZZZ			10:18																									
ZZZZZZ			10:20																									
ZZZZZZ			10:21																									
ZZZZZZ			10:23																									
ZZZZZZ			10:24																									
ZZZZZZ			10:26																									
ZZZZZZ			10:27																									
ZZZZZZ			10:30																									

Prep Types:
T = Total/NA

FORM XIII-IN

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Batch Number: 407850 Batch Start Date: 10/31/17 16:02 Batch Analyst: Edwards, Benjamin D

Batch Method: 3010A Batch End Date: 10/31/17 16:32

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M17ISPKIC 00001			
MB 500-407850/1		3010A, 6010C		50 mL	50 mL				
LCS 500-407850/2		3010A, 6010C		50 mL	50 mL	0.5 mL			
500-136532-D-1	CRMS-SW-02-103117	3010A, 6010C	T	15 mL	50 mL				
500-136532-D-2	CRMS-SW-03-103117	3010A, 6010C	T	50 mL	50 mL				

Batch Notes	
First End time	1632
Filter Paper ID	70613759
Lot # of hydrochloric acid	183197
Lot # of Nitric Acid	166089
Hot Block ID	2604
Oven, Bath or Block Temperature 1	92 Degrees C
Pipette/Syringe/Dispenser ID	2850
First Start time	1602
Thermometer ID	a1103x
Digestion Tube/Cup ID	1707186
Uncorrected Temperature	92 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136532-1

SDG No.:

Batch Number: 407943 Batch Start Date: 11/01/17 11:10 Batch Analyst: Noon, Erin E

Batch Method: 7470A Batch End Date: 11/01/17 13:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M15HSTKHG 00001			
MB 500-407943/12		7470A, 7470A		25 mL	25 mL				
LCS 500-407943/13		7470A, 7470A		25 mL	25 mL	0.00005 mL			
500-136532-D-1	CRMS-SW-02-103117	7470A, 7470A	T	25 mL	25 mL				
500-136532-D-2	CRMS-SW-03-103117	7470A, 7470A	T	25 mL	25 mL				

Batch Notes	
Hydroxylamine Hydrochloride ID	175265
Batch Comment	STOCKID: M15HSTKHG_00001(QC),M17BSTKHG00001 (Curve)
Digestion End Time	1310
Digestion Start Time	1110
Sulfuric Acid Lot Number	179766
Lot # of Nitric Acid	165099
Hot Block ID	C-2459
Potassium Persulfate ID	A0375670
Potassium Permanganate ID	171263
NaCl ID	17D175204
Oven, Bath or Block Temperature 1	98.0 Celsius
Stannous Chloride ID	170437
Temperature	98.0 Celsius
Thermometer ID	M62202
Digestion Tube/Cup ID	1707186
Uncorrected Temperature	98.0 Celsius
Visual ck - digestate F.V. consistency	OK

Basis	Basis Description
T	Total/NA

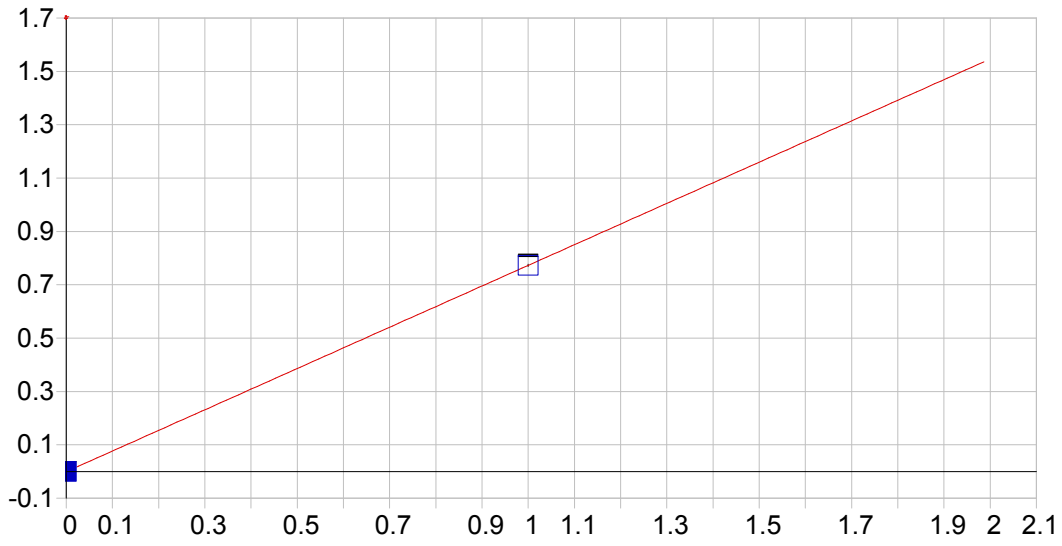
The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check	Check Table
1	---	---	---	---	Cal	---	---	---	---	---
2	1	1	1	1	QC	S1	P6110117B	1	☒	S1
3	2	1	2	1	QC	S2		1	☒	S2
4	3	1	3	1	QC	ICV		1	☒	ICV
5	4	1	4	1	QC	ICB		1	☒	ICB
6	5	1	5	1	QC	ICVL		1	☒	CCVLL
7	109	2	1	5	QC	ICV		1	☒	ICV
8	6	1	6	1	QC	CRI		1	☒	CRI
9	7	1	7	1	QC	ICSA		1	☒	ICSA
10	8	1	8	1	QC	ICSAB		1	☒	ICSAB
11	9	1	9	1	QC	CCV		1	☒	CCV
12	10	1	10	1	QC	CCB		1	☒	CCB
13	11	1	11	1	QC	MRL		1	☒	CCVLL
14	12	1	12	1	Unk	mb 500-407880/1-a		1	☒	RLTABLE
15	13	1	1	2	Unk	lcs 500-407880/2-a		1	☒	RLTABLE
16	14	1	2	2	Unk	500-136503-g-1-a		1	☒	RLTABLE
17	15	1	3	2	Unk	136503-g-1-a SD@5		1	☒	RLTABLE
18	16	1	4	2	Unk	500-136503-g-1-b du		1	☒	RLTABLE
19	17	1	5	2	Unk	500-136503-g-1-c ms		1	☒	RLTABLE
20	18	1	6	2	Unk	500-136503-g-1-d msd		1	☒	RLTABLE
21	19	1	7	2	Unk	lb 500-407789/1-b		1	☒	RLTABLE
22	20	1	8	2	Unk	lcs 500-407895/2-a		1	☒	RLTABLE
23	21	1	9	2	Unk	500-136480-b-1-b		1	☒	RLTABLE
24	22	1	10	2	QC	CCV		1	☒	CCV
25	23	1	11	2	QC	CCB		1	☒	CCB
26	24	1	12	2	Unk	lb2 500-407790/1-b		1	☒	RLTABLE
27	25	1	1	3	Unk	500-136468-a-1-d		1	☒	RLTABLE
28	26	1	2	3	Unk	500-136468-a-2-d		1	☒	RLTABLE
29	27	1	3	3	Unk	500-136471-a-1-c		1	☒	RLTABLE
30	28	1	4	3	Unk	500-136471-a-2-c		1	☒	RLTABLE
31	29	1	5	3	Unk	lb3 500-407740/1-b		1	☒	RLTABLE
32	30	1	6	3	Unk	lcs 500-407814/2-a		1	☒	RLTABLE
33	31	1	7	3	Unk	500-136480-e-2-c		1	☒	RLTABLE
34	32	1	8	3	Unk	500-136481-e-1-c @5		1	☒	RLTABLE
35	33	1	9	3	Unk	136481-e-1-c SD@25		1	☒	RLTABLE
36	34	1	10	3	QC	CCV		1	☒	CCV
37	35	1	11	3	QC	CCB		1	☒	CCB
38	36	1	12	3	Unk	136481-e-1-d du @5		1	☒	RLTABLE
39	37	1	1	4	Unk	136481-e-1-e ms @5		1	☒	RLTABLE
40	38	1	2	4	Unk	mb 500-407850/1-a		1	☒	RLTABLE
41	39	1	3	4	Unk	lcs 500-407850/2-a		1	☒	RLTABLE
42	40	1	4	4	Unk	500-136532-d-1-a		1	☒	RLTABLE
43	41	1	5	4	Unk	500-136532-d-1-a @10		1	☒	RLTABLE
44	42	1	6	4	Unk	500-136532-d-2-a		1	☒	RLTABLE
45	43	1	7	4	Unk	500-136516-a-1-a		1	☒	RLTABLE
46	44	1	8	4	Unk	500-136516-a-2-a	6010C	1	☒	RLTABLE
47	45	1	9	4	Unk	mb 500-407695/1-a		1	☒	RLTABLE
48	46	1	10	4	QC	CCV		1	☒	CCV
49	47	1	11	4	QC	CCB		1	☒	CCB
50	91	2	7	3	QC	CCVL		1	☒	CCVLL
51	48	1	12	4	Unk	lcs 500-407695/2-a		1	☒	RLTABLE
52	49	1	1	5	Unk	500-136371-g-2-b		1	☒	RLTABLE
53	50	1	2	5	Unk	mb 500-407589/1-b		1	☒	RLTABLE
54	51	1	3	5	Unk	500-136407-d-1-b		1	☒	RLTABLE
55	52	1	4	5	Unk	500-136407-d-4-b @5		1	☒	RLTABLE
56	53	1	5	5	Unk	136407-d-4-b @100		1	☒	RLTABLE
57	54	1	6	5	Unk	500-136407-d-5-b @5		1	☒	RLTABLE
58	55	1	7	5	Unk	500-136548-a-1-a		1	☒	RLTABLE
59	56	1	8	5	Unk	500-136548-a-1-a@100		1	☒	RLTABLE
60	57	1	9	5	Unk	500-136508-a-1-b		1	☒	RLTABLE
61	58	1	10	5	QC	CCV		1	☒	CCV
62	59	1	11	5	QC	CCB		1	☒	CCB
63	92	2	8	3	QC	CCVL		1	☒	CCVLL

	Fail Action
1	None
2	None
3	None
4	None
5	None
6	None
7	None
8	None
9	None
10	None
11	None
12	None
13	None
14	---
15	---
16	---
17	---
18	---
19	---
20	---
21	---
22	---
23	---
24	None
25	None
26	---
27	---
28	---
29	---
30	---
31	---
32	---
33	---
34	---
35	---
36	None
37	None
38	---
39	---
40	---
41	---
42	---
43	---
44	---
45	---
46	---
47	---
48	None
49	None
50	None
51	---
52	---
53	---
54	---
55	---
56	---
57	---
58	---
59	---
60	---
61	None
62	None
63	None

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check	Check Table
64	60	1	12	5	Unk	136508-a-1-b SD@5		1	☒	RLTABLE
65	61	2	1	1	Unk	500-136508-a-1-c du		1	☒	RLTABLE
66	62	2	2	1	Unk	500-136508-a-1-d ms		1	☒	RLTABLE
67	63	2	3	1	Unk	500-136133-a-5-b		1	☒	RLTABLE
68	64	2	4	1	Unk	500-136133-a-5-b @5		1	☒	RLTABLE
69	65	2	5	1	Unk	500-136390-a-1-b @20		1	☒	RLTABLE
70	66	2	6	1	Unk	500-136390-a-1-b@100		1	☒	RLTABLE
71	67	2	7	1	Unk	136390-a-1-b @1000		1	☒	RLTABLE
72	68	2	8	1	Unk	500-136438-a-1-c		1	☒	RLTABLE
73	69	2	9	1	Unk	500-136504-a-1-a		1	☒	RLTABLE
74	70	2	10	1	QC	CCV		1	☒	CCV
75	71	2	11	1	QC	CCB		1	☒	CCB
76	72	2	12	1	Unk	500-136504-a-1-a @10		1	☒	RLTABLE
77	73	2	1	2	Unk	500-136504-a-2-a		1	☒	RLTABLE
78	74	2	2	2	Unk	500-136504-d-3-a		1	☒	RLTABLE
79	75	2	3	2	Unk	500-136504-d-4-a		1	☒	RLTABLE
80	76	2	4	2	Unk	500-136504-d-5-a		1	☒	RLTABLE
81	77	2	5	2	Unk	500-136504-b-1-a		1	☒	RLTABLE
82	78	2	6	2	Unk	500-136504-b-2-a		1	☒	RLTABLE
83	79	2	7	2	Unk	500-136504-e-3-a		1	☒	RLTABLE
84	80	2	8	2	Unk	500-136504-e-4-a		1	☒	RLTABLE
85	81	2	9	2	Unk	500-136504-e-5-a		1	☒	RLTABLE
86	82	2	10	2	QC	CCV		1	☒	CCV
87	83	2	11	2	QC	CCB		1	☒	CCB
88	84	2	12	2	Unk	500-136522-m-1-a		1	☒	RLTABLE
89	85	2	1	3	Unk	500-136522-m-4-a		1	☒	RLTABLE
90	86	2	2	3	Unk	500-136522-h-6-a		1	☒	RLTABLE
91	87	2	3	3	Unk	500-136522-m-9-a		1	☒	RLTABLE
92	88	2	4	3	QC	CCV		1	☒	CCV
93	89	2	5	3	QC	CCB		1	☒	CCB
94	90	2	6	3	QC	CCVL		1	☒	CCVLL

	Fail Action
64	---
65	---
66	---
67	---
68	---
69	---
70	---
71	---
72	---
73	---
74	None
75	None
76	---
77	---
78	---
79	---
80	---
81	---
82	---
83	---
84	---
85	---
86	None
87	None
88	---
89	---
90	---
91	---
92	None
93	None
94	None

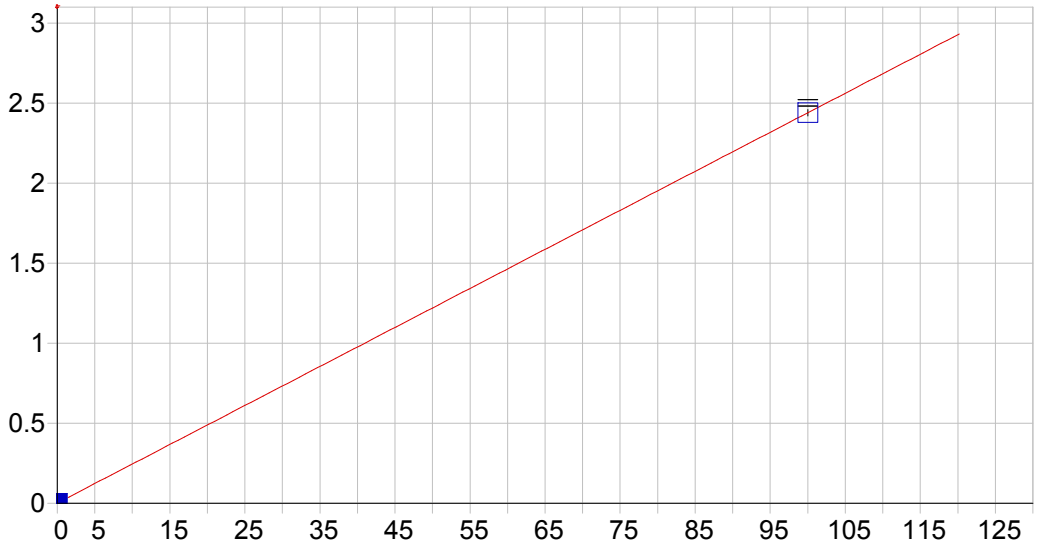


Ag 328.068 {103}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000636	Re-Slope:	1.000000
A1 (Gain):	0.773536	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000825		
Predicted MQL:	0.002750		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00064	.000	1
S1	1.0000	1.0000	.000	.000	.77290	.004	1



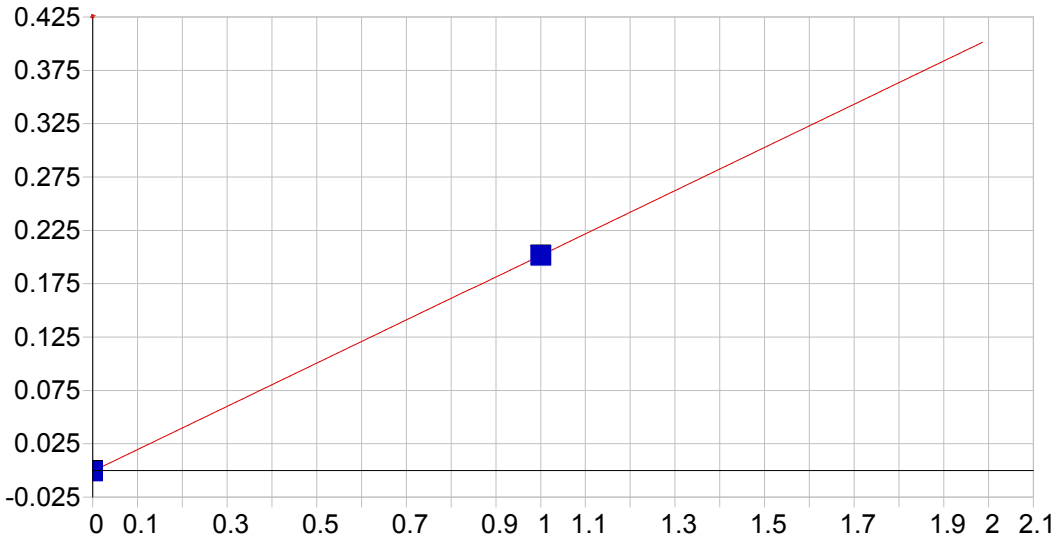
Al 308.215 {109}

Date of Fit:	11/1/2017 15:32:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001599	Re-Slope:	1.000000
A1 (Gain):	0.024381	Y-int:	0.000000
A2 (Curvature):	0.000000		

n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.022405		
Predicted MQL:	0.074683		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00160	.000	1
S2	100.00	100.00	.000	.000	2.4397	.020	1

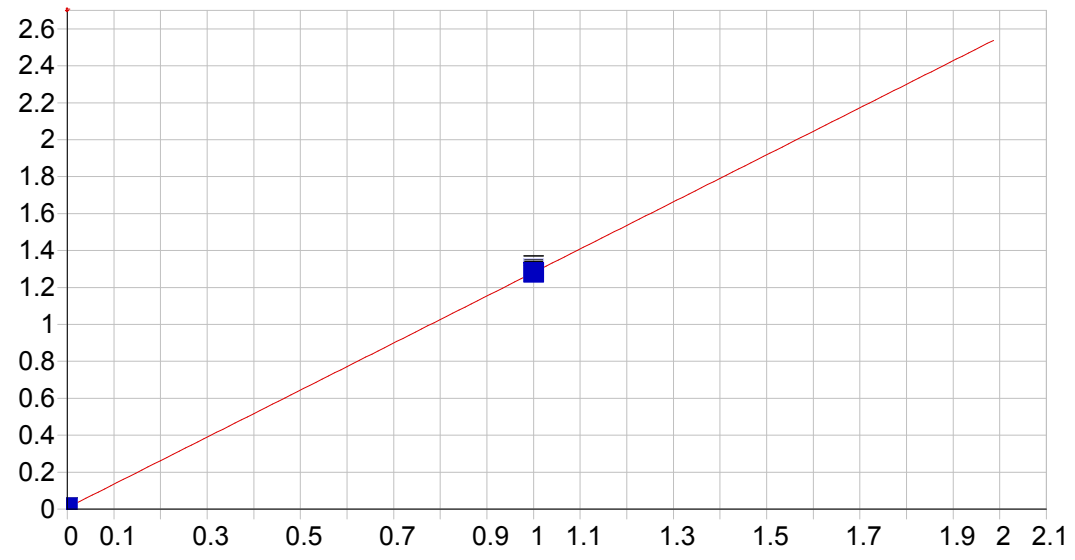


As 189.042 {478}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000647	Re-Slope:	1.000000
A1 (Gain):	0.202260	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.003162		
Predicted MQL:	0.010540		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00065	.000	1
S1	1.0000	1.0000	.000	.000	.20095	.000	1

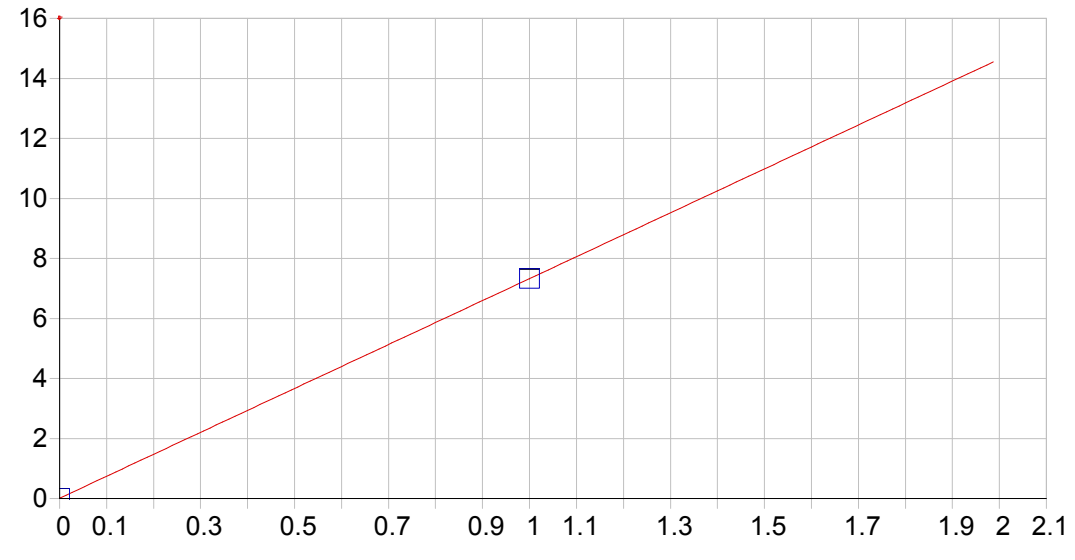


B 208.959 {461}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007511	Re-Slope:	1.000000
A1 (Gain):	1.273573	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000501		
Predicted MQL:	0.001672		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00751	.000	1
S1	1.0000	1.00000	.000	.000	1.3017	.016	1



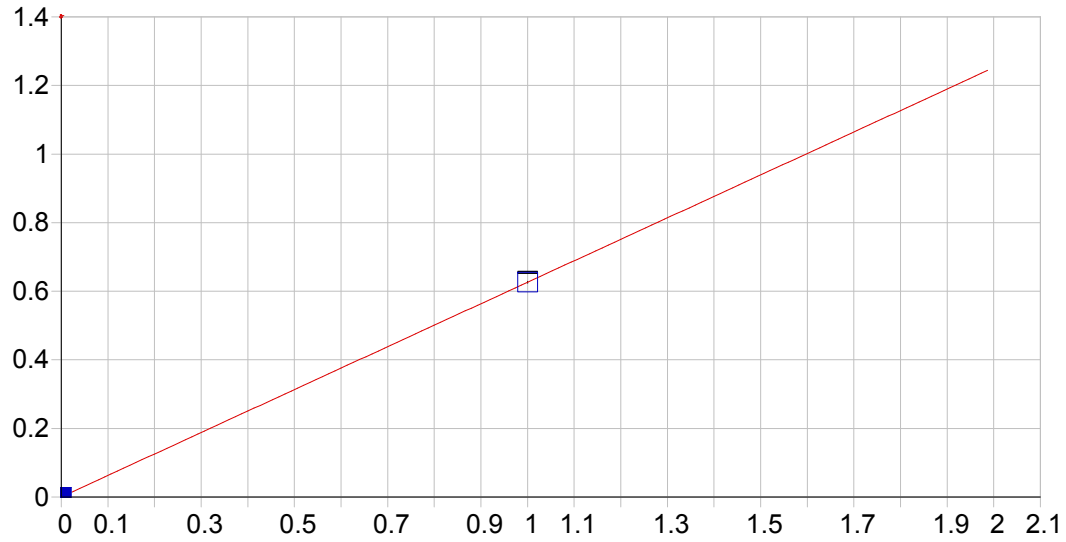
Ba 455.403 { 74}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.009710	Re-Slope:	1.000000
A1 (Gain):	7.316414	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000		Status:	OK.		
Std Error of Est:	0.000000					
Predicted MDL:	0.000150					
Predicted MQL:	0.000499					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00971	.001	1
S1	1.0000	1.0000	.000	.000	7.3261	.006	1

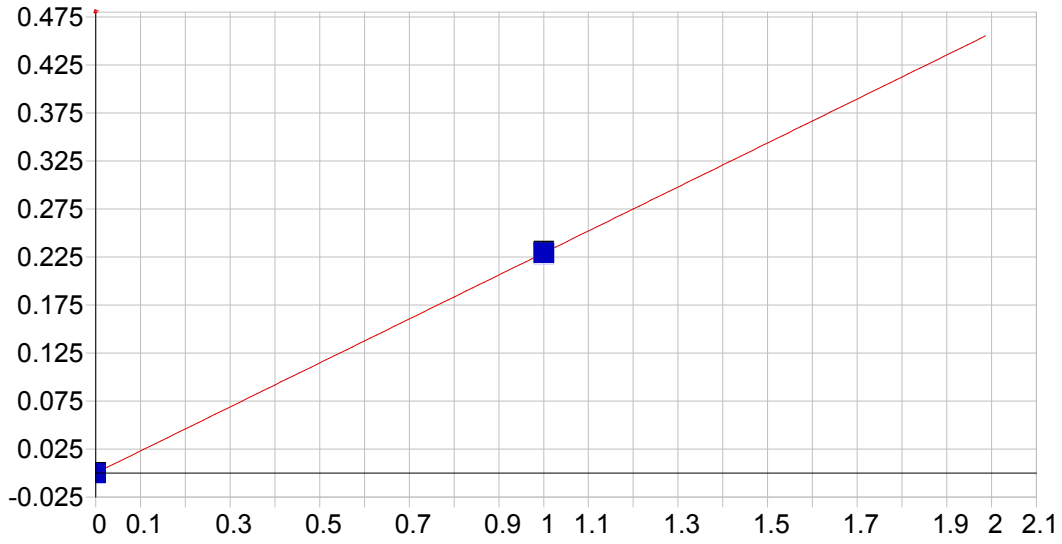


Be 234.861 {143}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000335	Re-Slope:	1.000000
A1 (Gain):	0.625874	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000543		
Predicted MQL:	0.001809		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00033	.000	1
S1	1.0000	1.0000	.000	.000	.62621	.003	1

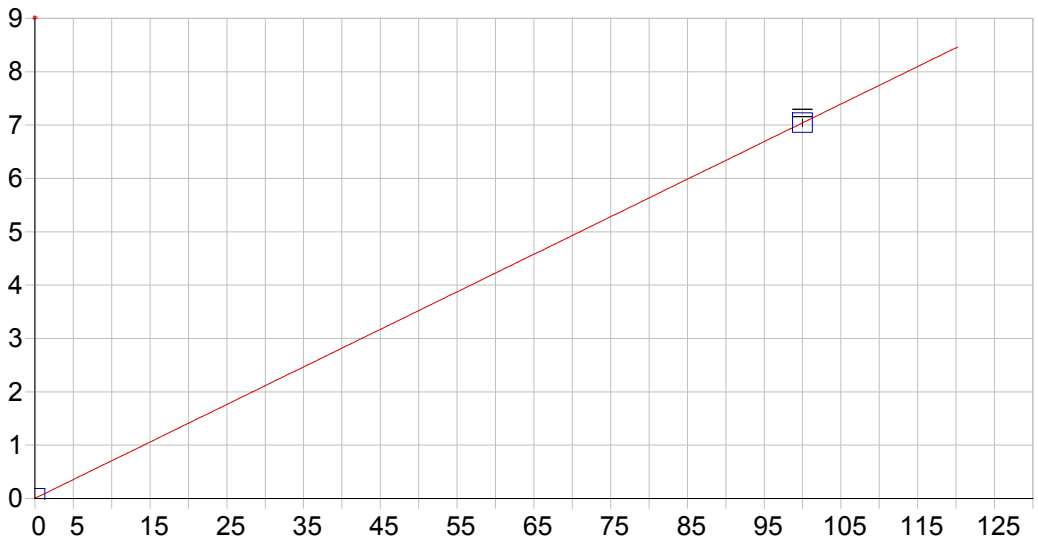


Bi 223.061 {451}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000146	Re-Slope:	1.000000
A1 (Gain):	0.229083	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002053		
Predicted MQL:	0.006842		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00015	.000	1
S1	1.0000	1.0000	.000	.000	.22755	.002	1



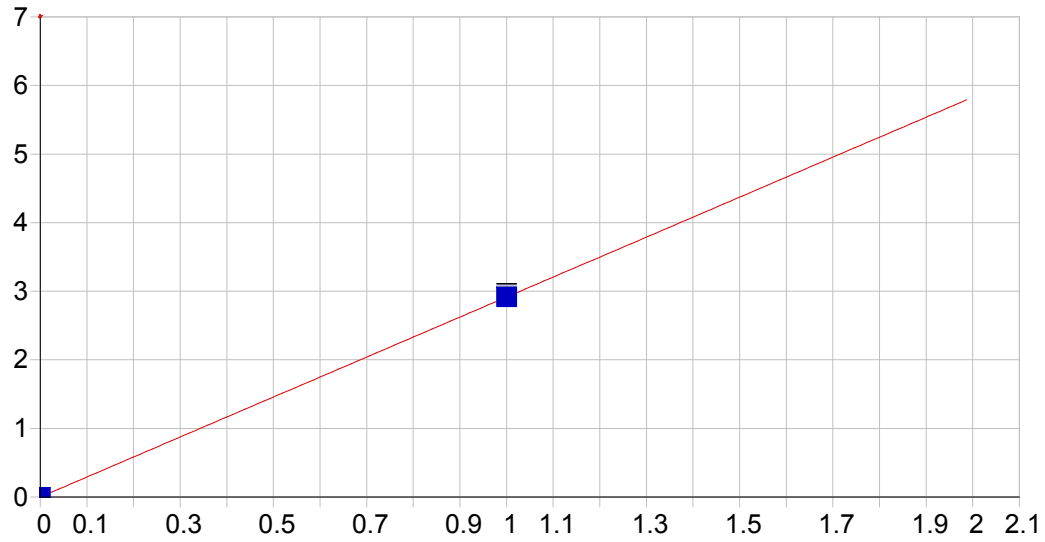
Ca 317.933 {106}

Date of Fit:	11/1/2017 15:32:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003181	Re-Slope:	1.000000
A1 (Gain):	0.070384	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.006230		
Predicted MQL:	0.020765		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00318	.000	1
S2	100.00	100.00	.000	.000	7.0416	.067	1

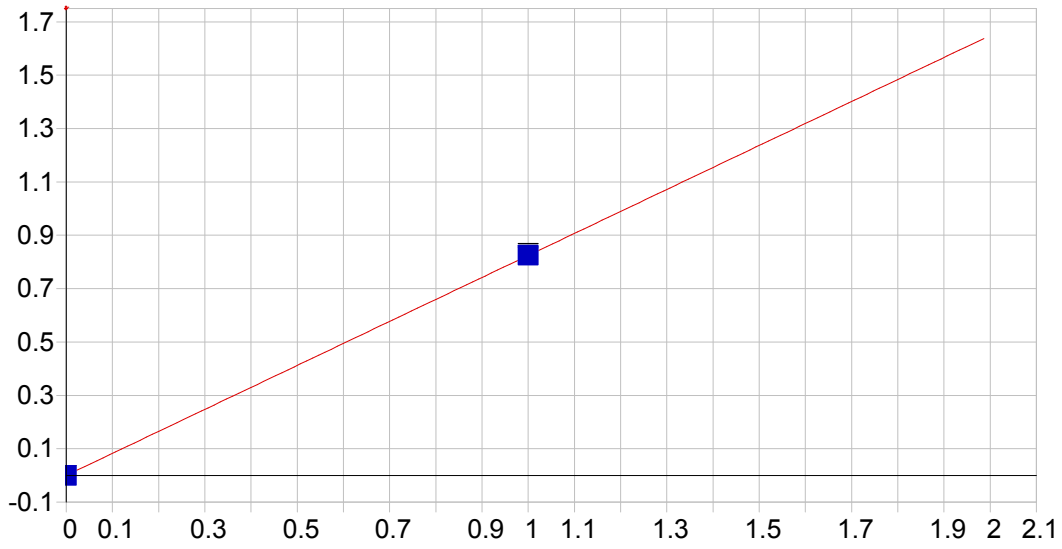


Cd 228.802 {447}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000571	Re-Slope:	1.000000
A1 (Gain):	2.914171	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000303		
Predicted MQL:	0.001010		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00057	.000	1
S1	1.0000	1.0000	.000	.000	2.9413	.028	1

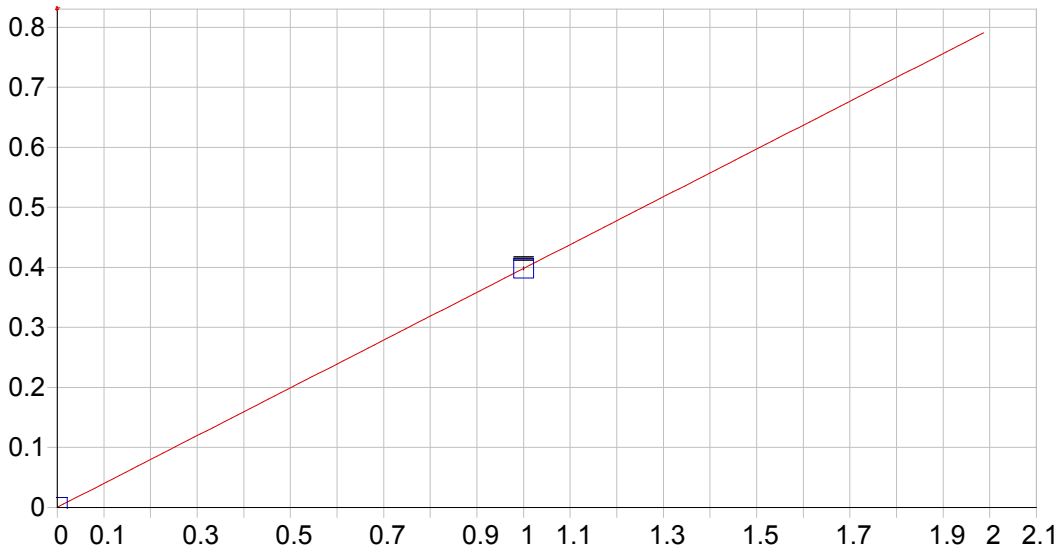


Co 228.616 {447}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000177	Re-Slope:	1.000000
A1 (Gain):	0.824309	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000540		
Predicted MQL:	0.001799		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00018	.000	1
S1	1.0000	1.00000	.000	.000	.82582	.006	1



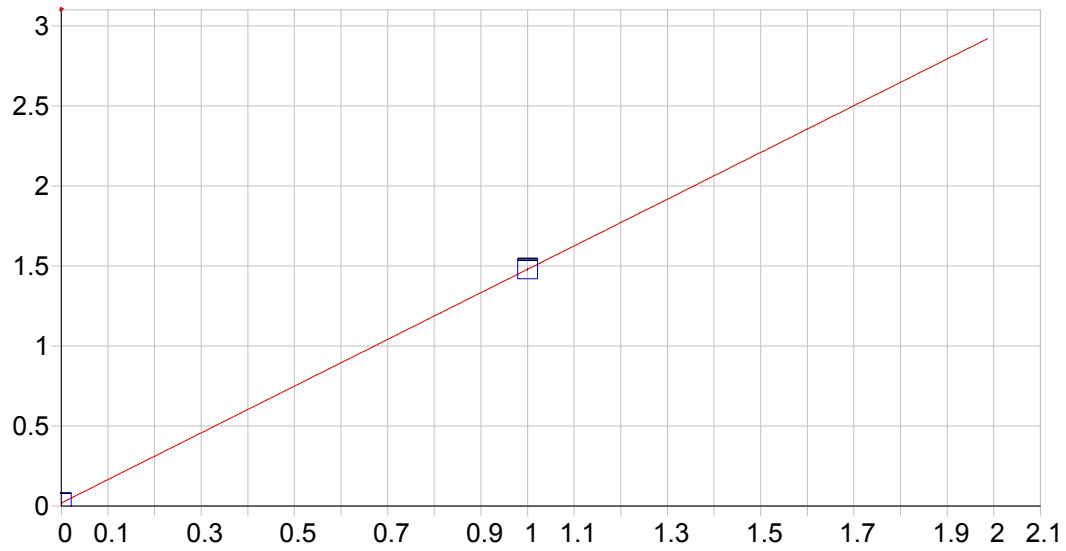
Cr 267.716 {126}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000391	Re-Slope:	1.000000
A1 (Gain):	0.397811	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000		Status:	OK.			
Std Error of Est:	0.000000						
Predicted MDL:	0.001141						
Predicted MQL:	0.003805						

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00039	.000	1
S1	1.0000	1.0000	.000	.000	.39820	.003	1

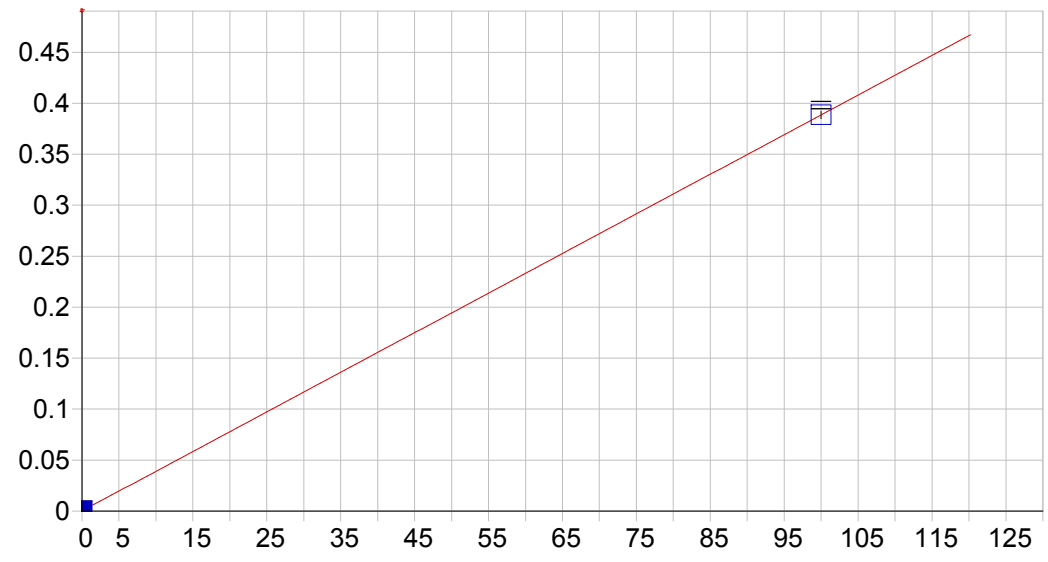


Cu 324.754 {104}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.018913	Re-Slope:	1.000000
A1 (Gain):	1.460223	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000424		
Predicted MQL:	0.001413		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01891	.001	1
S1	1.0000	1.0000	.000	.000	1.4791	.007	1

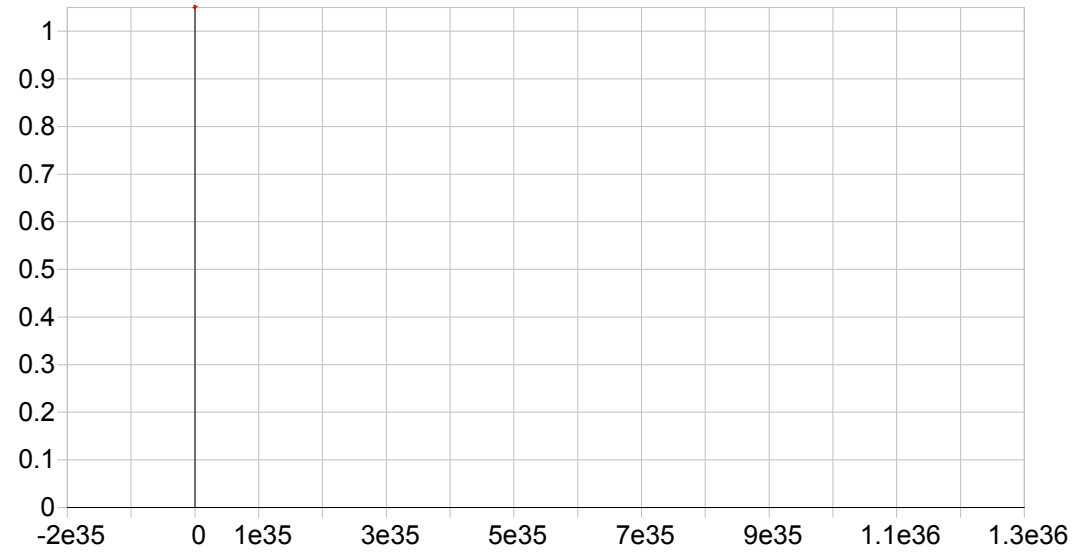


Fe 271.441 {124}

Date of Fit:	11/1/2017 15:32:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000205	Re-Slope:	1.000000
A1 (Gain):	0.003884	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.081491		
Predicted MQL:	0.271635		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00020	.000	1
S2	100.00	100.00	.000	.000	.38861	.004	1



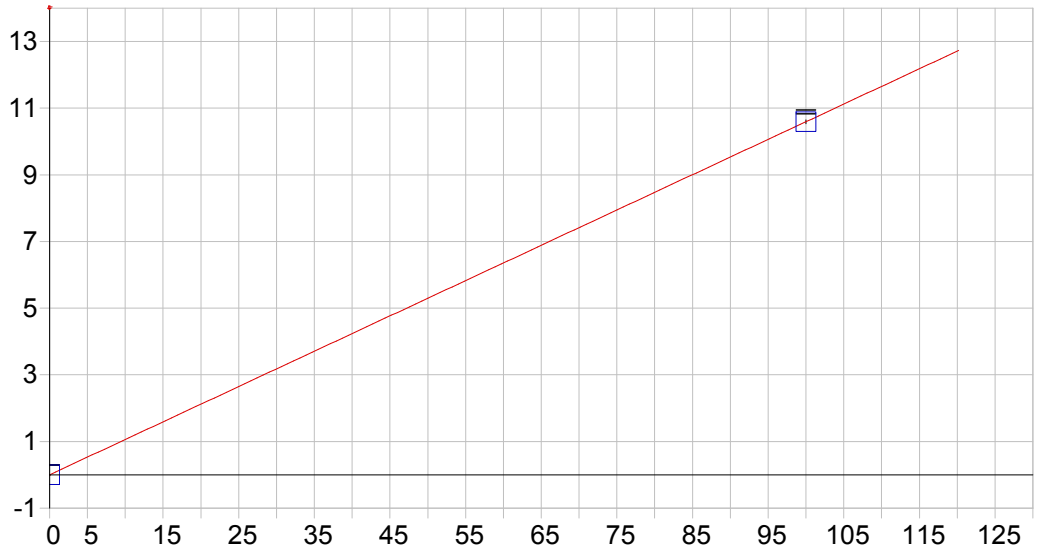
In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

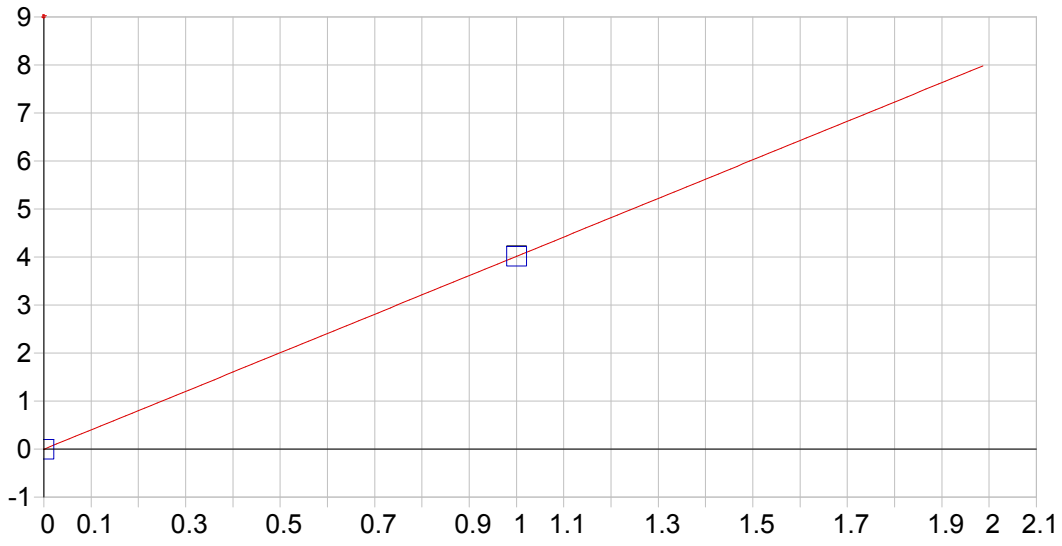


K 766.490 { 44}

Date of Fit:	11/1/2017 15:32:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000976	Re-Slope:	1.000000
A1 (Gain):	0.105926	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.020759		
Predicted MQL:	0.069196		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00098	.002	1
S2	100.00	100.00	.000	.000	10.594	.056	1

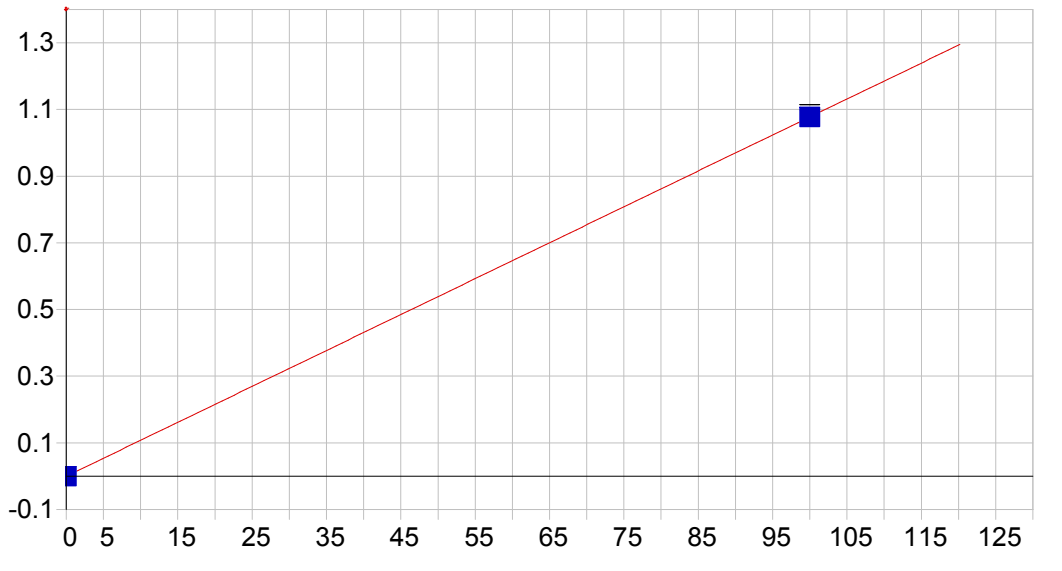


Li 670.784 { 50}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003469	Re-Slope:	1.000000
A1 (Gain):	4.018166	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000576		
Predicted MQL:	0.001921		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00347	.001	1
S1	1.0000	1.0000	.000	.000	4.0147	.004	1



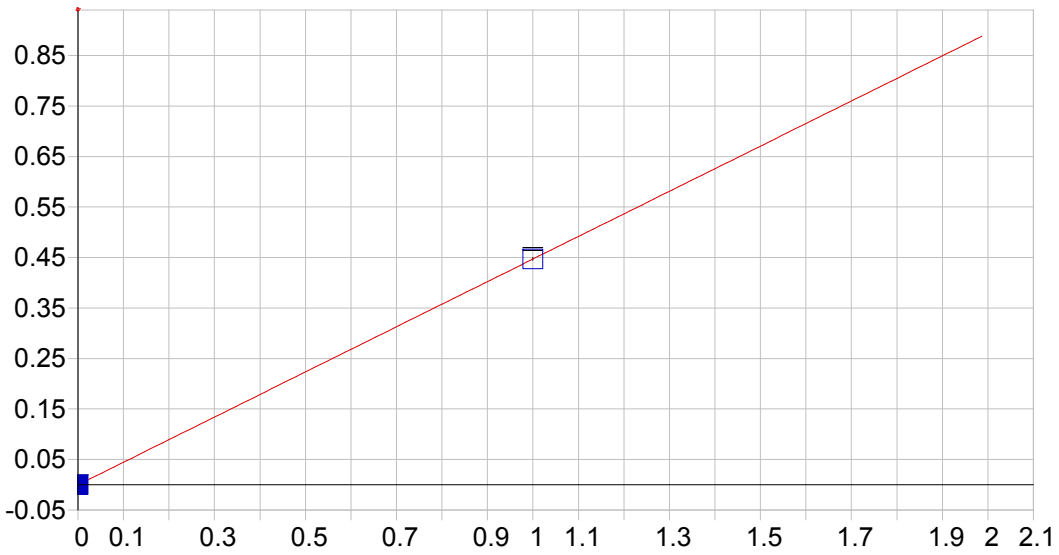
Mg 279.079 {121}

Date of Fit:	11/1/2017 15:32:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000098	Re-Slope:	1.000000
A1 (Gain):	0.010776	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.030960		
Predicted MQL:	0.103201		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00010	.000	1
S2	100.00	100.00	.000	.000	1.0772	.008	1

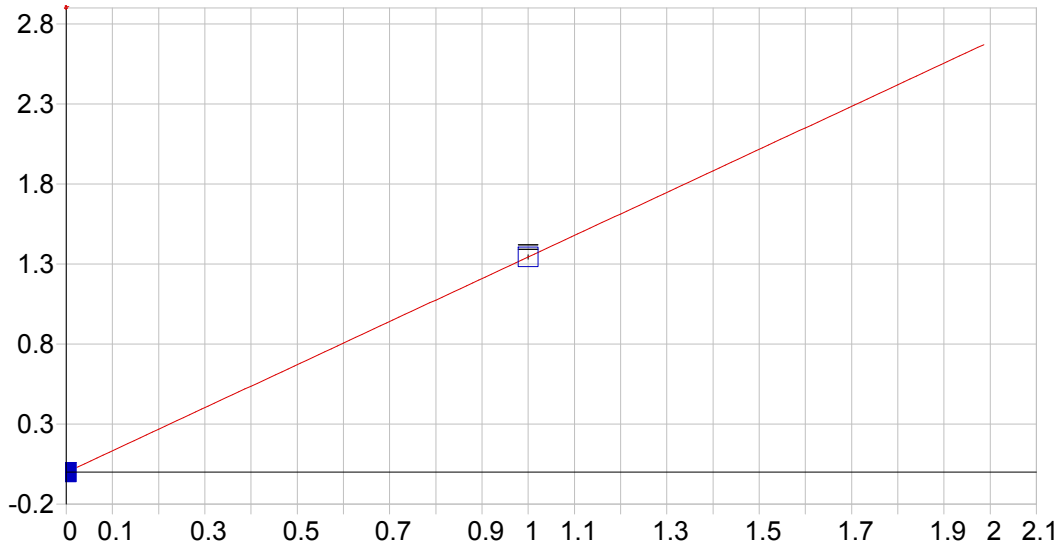


Mn 257.610 {131}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000080	Re-Slope:	1.000000
A1 (Gain):	0.447053	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000769		
Predicted MQL:	0.002563		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00008	.000	1
S1	1.0000	1.0000	.000	.000	.44697	.003	1

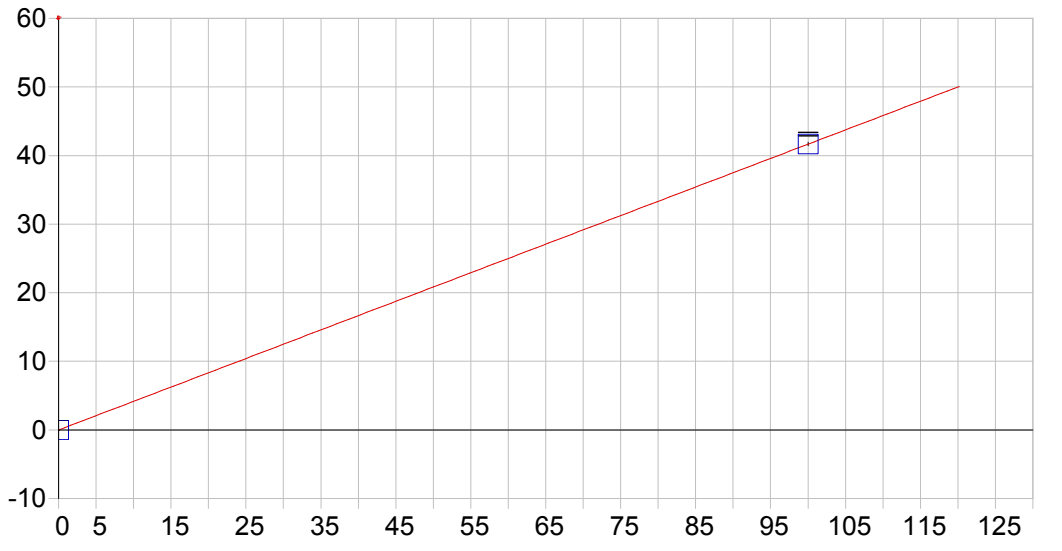


Mo 202.030 {467}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000990	Re-Slope:	1.000000
A1 (Gain):	1.344960	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000513		
Predicted MQL:	0.001709		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00099	.000	1
S1	1.0000	1.0000	.000	.000	1.3440	.014	1



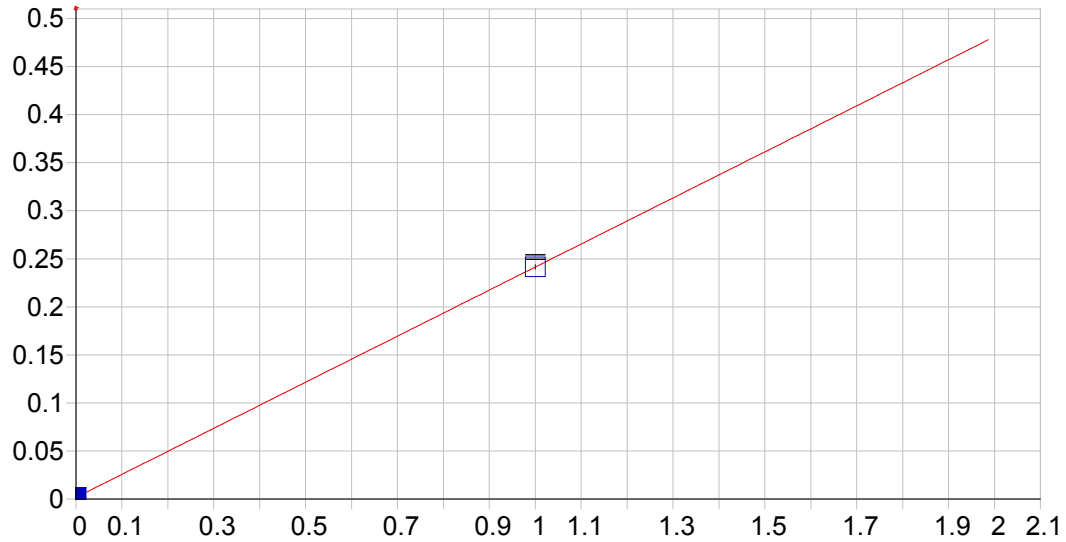
Na 589.592 { 57}

Date of Fit:	11/1/2017 15:32:36	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.003342	Re-Slope:	1.000000
A1 (Gain):	0.416651	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.004838		
Predicted MQL:	0.016126		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00334	.000	1
S2	100.00	100.000	.000	.000	41.662	.258	1

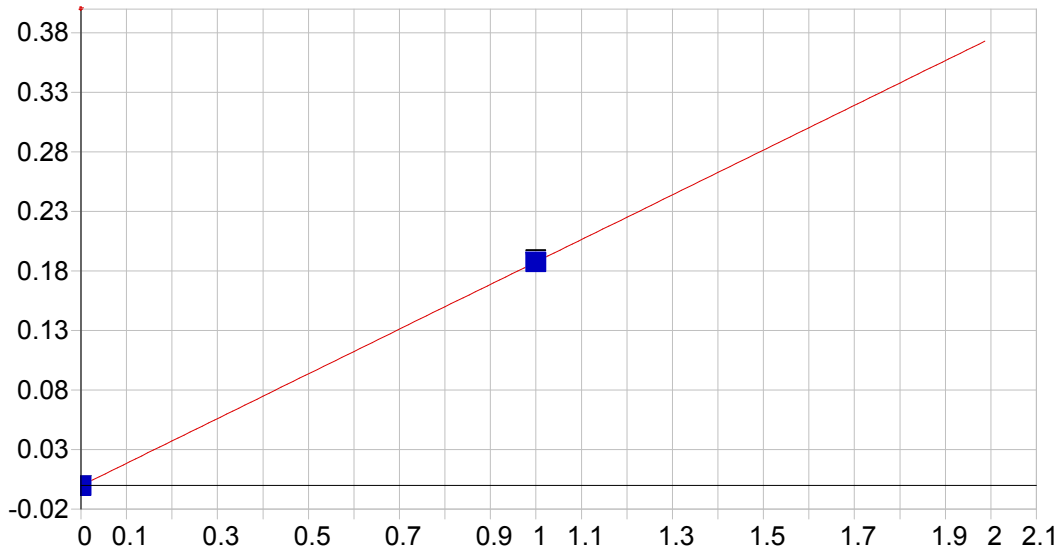


Ni 231.604 {446}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001727	Re-Slope:	1.000000
A1 (Gain):	0.239689	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001482		
Predicted MQL:	0.004940		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00173	.000	1
S1	1.0000	1.0000	.000	.000	.24142	.002	1

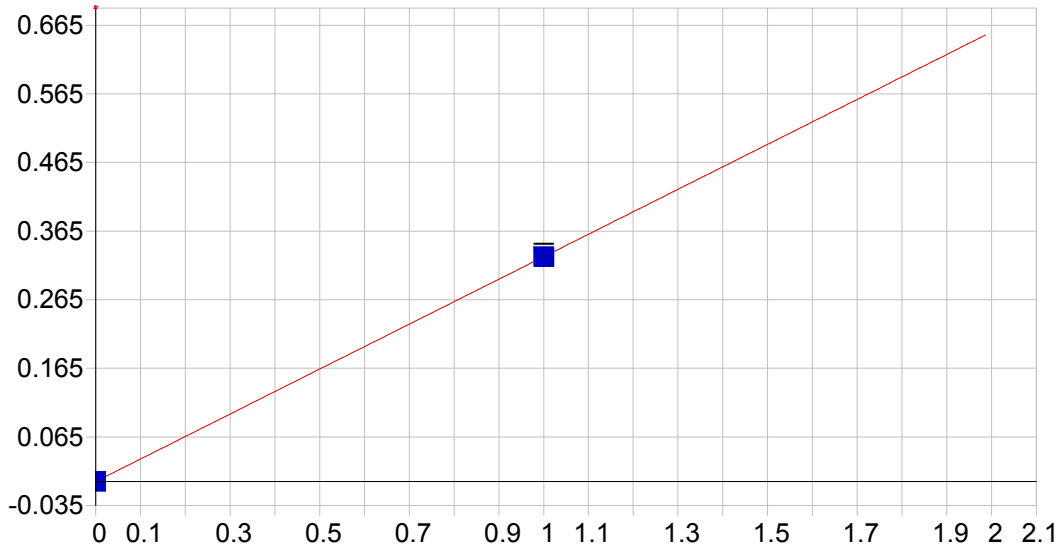


Pb 220.353 {453}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000370	Re-Slope:	1.000000
A1 (Gain):	0.187954	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002594		
Predicted MQL:	0.008647		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00037	.000	1
S1	1.0000	1.0000	.000	.000	.18769	.002	1



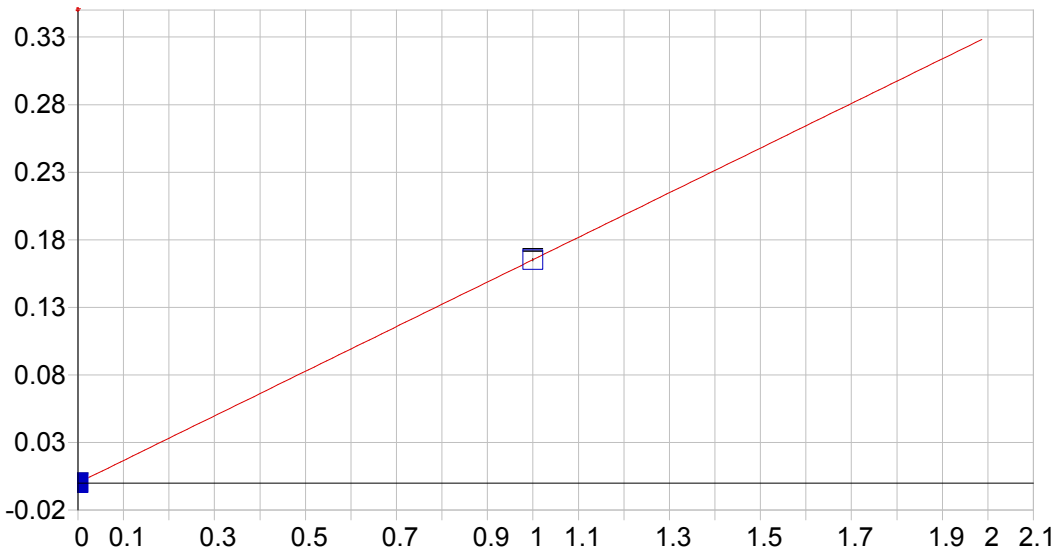
Sb 206.833 {463}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000059	Re-Slope:	1.000000
A1 (Gain):	0.327555	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002153		
Predicted MQL:	0.007177		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00006	.000	1
S1	1.0000	1.0000	.000	.000	.32842	.004	1

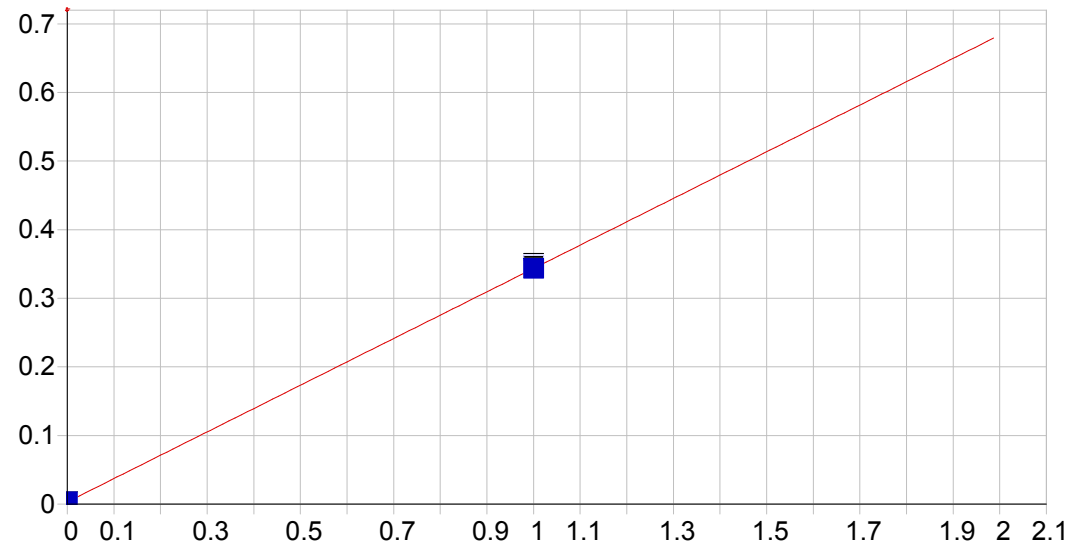


Se 196.090 {472}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000116	Re-Slope:	1.000000
A1 (Gain):	0.165139	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.003969		
Predicted MQL:	0.013232		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00012	.001	1
S1	1.0000	1.0000	.000	.000	.16525	.001	1

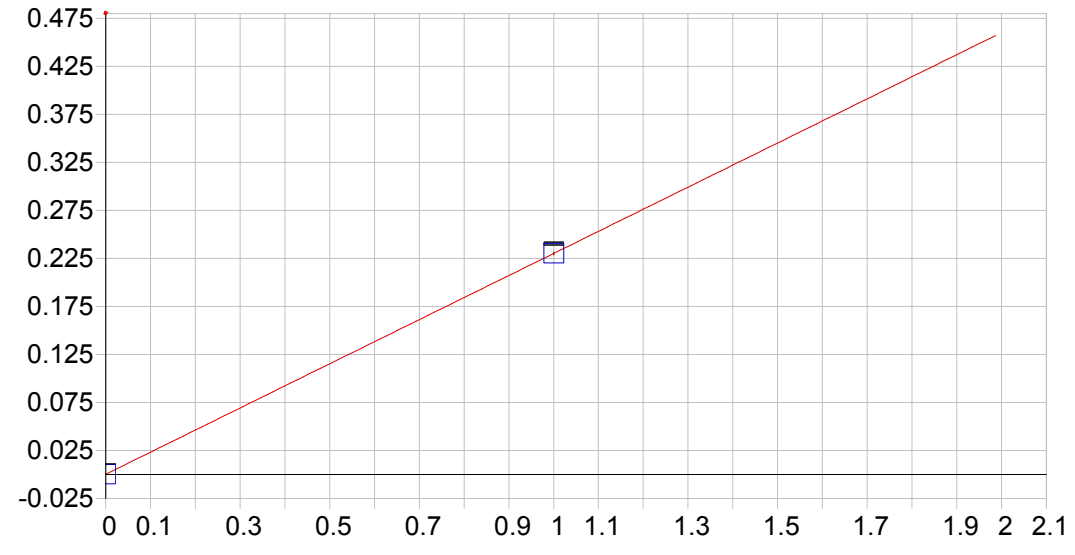


Si 212.412 {459}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003148	Re-Slope:	1.000000
A1 (Gain):	0.340320	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001582		
Predicted MQL:	0.005273		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00315	.000	1
S1	1.0000	1.0000	.000	.000	.34835	.003	1



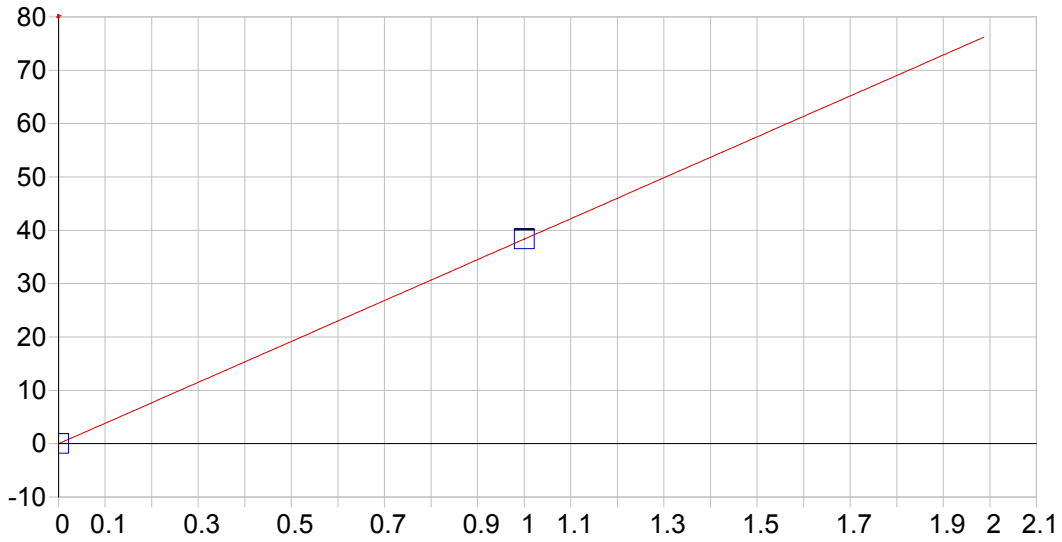
Sn 189.989 {477}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000268	Re-Slope:	1.000000
A1 (Gain):	0.229962	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001854		
Predicted MQL:	0.006180		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00027	.000	1
S1	1.0000	1.0000	.000	.000	.23023	.001	1

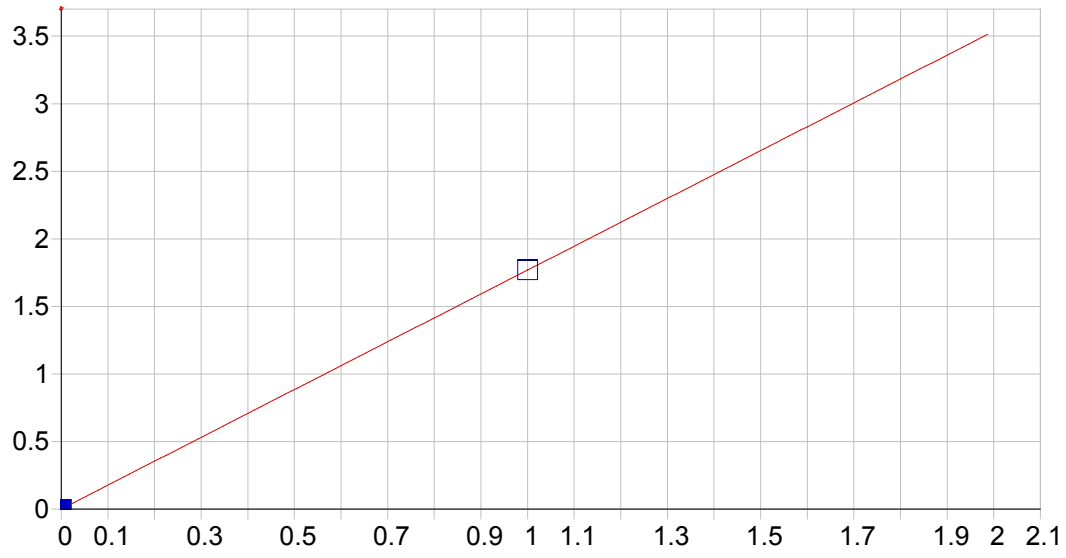


Sr 421.552 { 80}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000771	Re-Slope:	1.000000
A1 (Gain):	38.341828	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000020		
Predicted MQL:	0.000066		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00077	.000	1
S1	1.0000	1.0000	.000	.000	38.341	.107	1

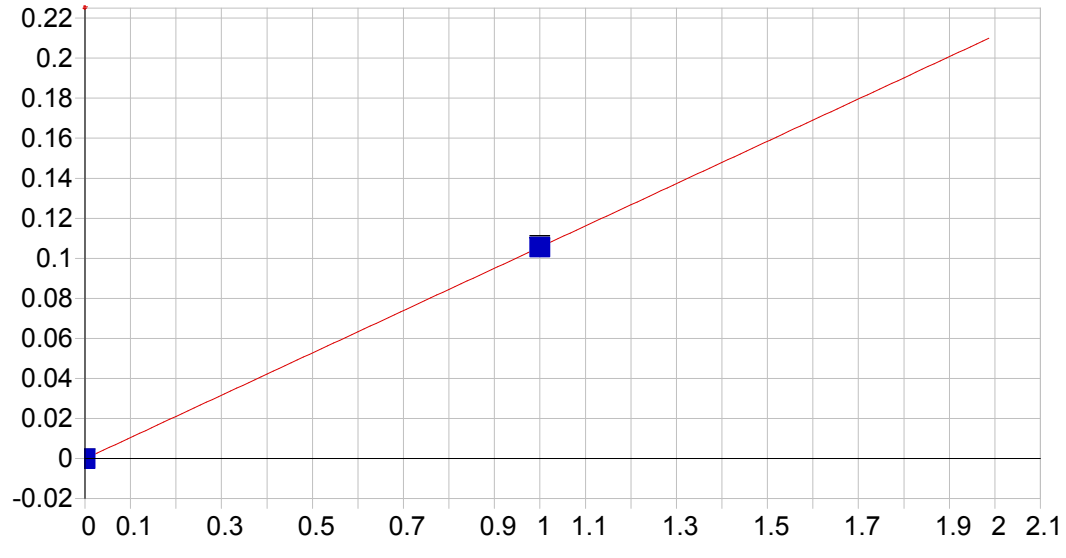


Ti 334.941 {101}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000761	Re-Slope:	1.000000
A1 (Gain):	1.767884	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000247		
Predicted MQL:	0.000822		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00076	.000	1
S1	1.0000	1.0000	.000	.000	1.7686	.002	1



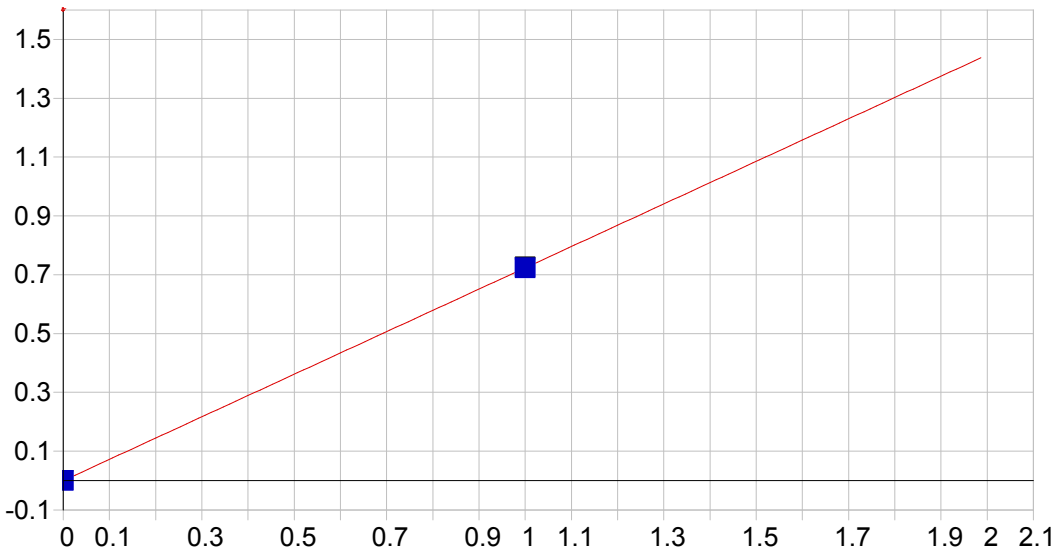
Tl 190.856 {477}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000131	Re-Slope:	1.000000
A1 (Gain):	0.105727	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		

Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002314		
Predicted MQL:	0.007715		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00013	.000	1
S1	1.0000	1.0000	.000	.000	.10569	.001	1

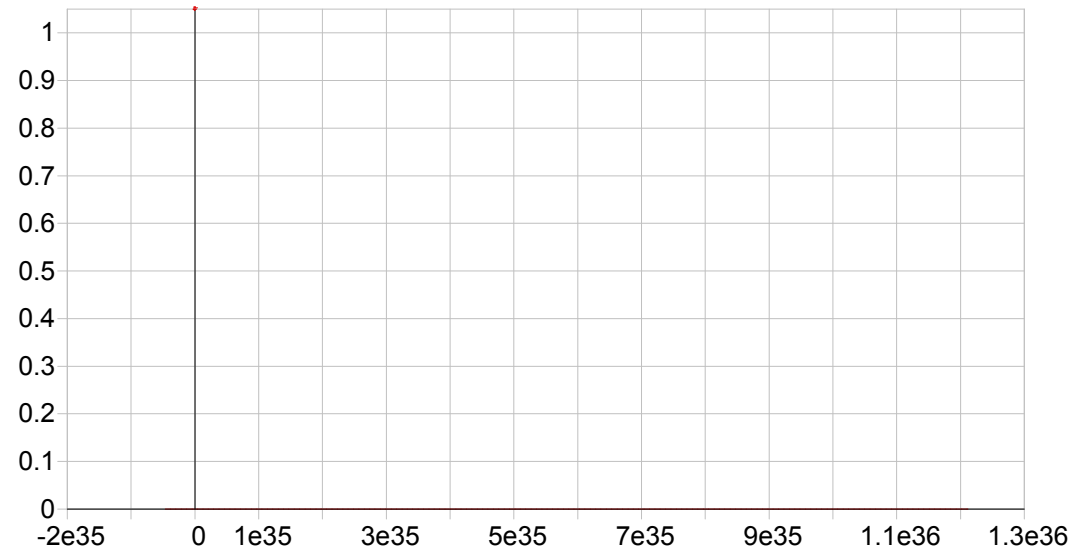


V 292.402 {115}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000170	Re-Slope:	1.000000
A1 (Gain):	0.723782	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000786		
Predicted MQL:	0.002621		

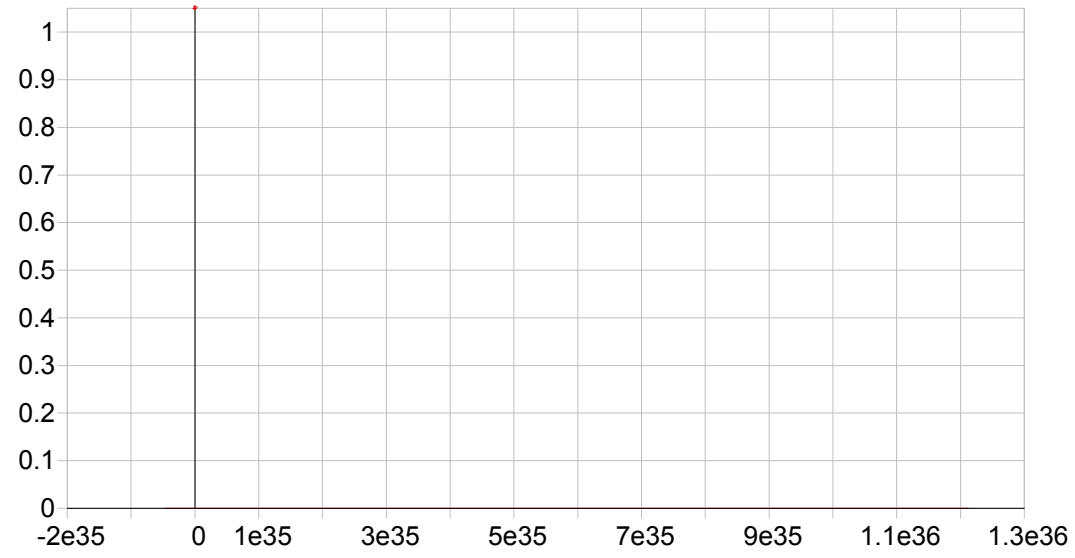
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00017	.001	1
S1	1.0000	1.00000	.000	.000	.72123	.002	1



Y 224.306 {450}*

Date of Fit:	10/5/2015 16:16:37	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

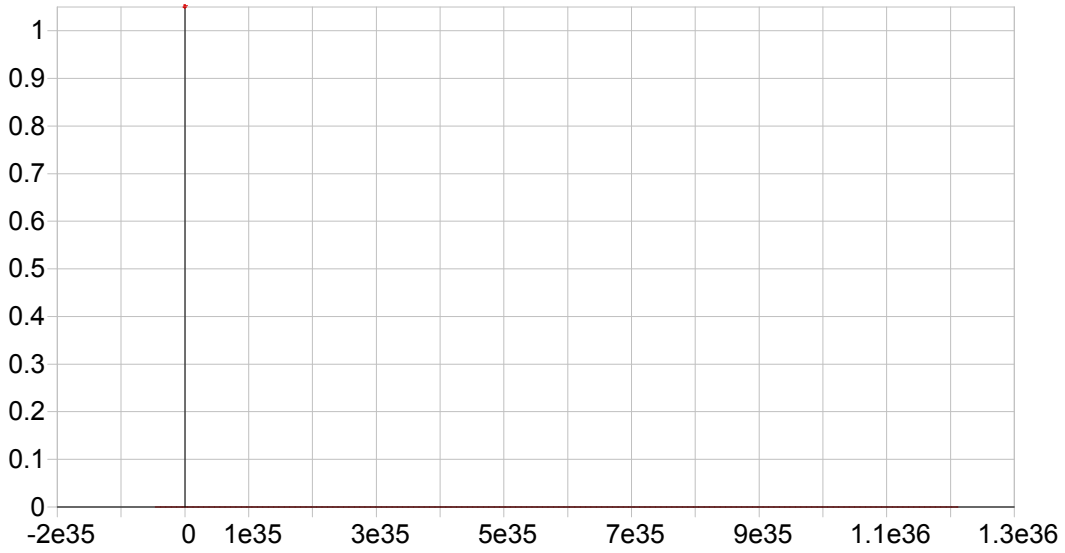


Y 360.073 { 94}*

Date of Fit:	10/5/2015 16:16:37	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				

Predicted MDL:	n/a
Predicted MQL:	n/a

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

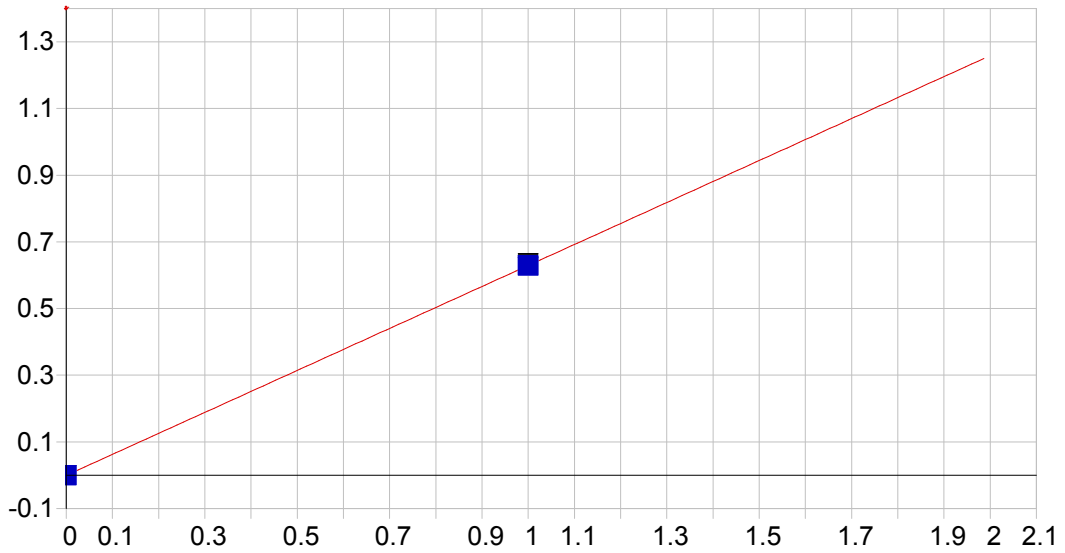


Y 371.030 { 91}*

Date of Fit:	10/16/2015 12:43:06	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000	
A1 (Gain):	0.000000	Y-int:	0.000000	
A2 (Curvature):	0.000000			
n (Exponent):	1.000000			
Correlation:	0.000000	Status:	Warning	Zero Gain
Std Error of Est:	0.000000			
Predicted MDL:	n/a			
Predicted MQL:	n/a			

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Zn 206.200 {463}

Date of Fit:	11/1/2017 15:28:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000429	Re-Slope:	1.000000	
A1 (Gain):	0.629608	Y-int:	0.000000	
A2 (Curvature):	0.000000			
n (Exponent):	1.000000			
Correlation:	1.000000	Status:	OK.	
Std Error of Est:	0.000000			
Predicted MDL:	0.000615			
Predicted MQL:	0.002051			

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00043	.000	1
S1	1.0000	1.0000	.000	.000	.62884	.005	1

Sample Name: Blank Acquired: 11/1/2017 15:20:45 Type: Cal
Method: P6110117B Mode: IR Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00064**	**.00160**	**-.00065**	**.00751**	**.00971**	**.00033**	**.00015**
Stddev	.00004	.00038	.00049	.00013	.00104	.00009	.00015
%RSD	6.4181	23.548	75.014	1.7040	10.709	25.752	100.89
#1	-.00067	.00187	-.00030	.00742	.01045	.00027	.00025
#2	-.00061	.00133	-.00099	.00760	.00897	.00040	.00004

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00318**	**.0006**	**.00018**	**.00039**	**.01891**	**.00020**	**.00098**
Stddev	.00014	.0003	.00020	.00003	.00059	.00013	.00153
%RSD	4.2645	57.65	111.80	8.0692	3.1205	61.630	157.12
#1	.00328	.0003	.00032	.00041	.01850	.00029	.00206
#2	.00309	.0008	.00004	.00037	.01933	.00012	-.00011

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0035**	**-.00010**	**-.00008**	**-.00099**	**-.00334**	**.00173**	**-.00037**
Stddev	.0010	.00007	.00005	.00027	.00004	.00013	.00013
%RSD	30.16	74.464	62.569	27.688	1.1441	7.4501	34.805
#1	-.0027	-.00015	-.00004	-.00080	-.00337	.00182	-.00028
#2	-.0042	-.00005	-.00012	-.00118	-.00332	.00164	-.00046

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00006**	**.00012**	**.00315**	**.00027**	**-.00077**	**.00076**	**-.00013**
Stddev	.00044	.00061	.00045	.00033	.00023	.00008	.00024
%RSD	755.43	524.98	14.213	123.12	29.974	10.245	180.81
#1	.00037	-.00031	.00346	.00003	-.00061	.00082	.00004
#2	-.00026	.00054	.00283	.00050	-.00093	.00071	-.00030

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**-.00017**	**-.00043**
Stddev	.00063	.00028
%RSD	367.46	64.331
#1	.00027	-.00062
#2	-.00061	-.00023

Sample Name: Blank Acquired: 11/1/2017 15:20:45 Type: Cal
Method: P6110117B Mode: IR Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1688.9	865.20	6096.3	3786.4
Stddev	81.3	67.58	127.9	81.2
%RSD	4.8152	7.8104	2.0982	2.1450
#1	1746.4	912.98	6186.7	3728.9
#2	1631.4	817.42	6005.8	3843.8

Sample Name: S1 Acquired: 11/1/2017 15:24:47 Type: Cal
Method: P6110117B Mode: IR Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	B_2089	Ba4554	Be2348	Bi2230	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.77290	.20095	1.3017	7.3261	.62621	.22755	2.941	.82582
Stddev	.00404	.00027	.0158	.0056	.00310	.00194	.028	.00612
%RSD	.52218	.13544	1.2163	.07628	.49465	.85141	.9638	.74089
#1	.77005	.20075	1.2905	7.3222	.62402	.22618	2.921	.82150
#2	.77575	.20114	1.3129	7.3301	.62840	.22892	2.961	.83015

Elem	Cr2677	Cu3247	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.39820	1.4791	4.015	.44697	1.3440	.24142	.18769	.32842
Stddev	.00264	.0068	.004	.00285	.0138	.00241	.00153	.00399
%RSD	.66286	.46184	.0957	.63864	1.0276	.99629	.81300	1.2140
#1	.39634	1.4743	4.017	.44495	1.3342	.23972	.18661	.32560
#2	.40007	1.4840	4.012	.44899	1.3537	.24312	.18877	.33124

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.16525	.34835	.23023	38.341	1.7686	.10569	.72123	.62884
Stddev	.00095	.00271	.00144	.107	.0023	.00062	.00228	.00500
%RSD	.57737	.77776	.62464	.28002	.12775	.58473	.31657	.79492
#1	.16458	.34643	.22921	38.265	1.7670	.10525	.71962	.62531
#2	.16593	.35026	.23125	38.417	1.7702	.10613	.72285	.63238

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1441.8	701.29	4876.5	3806.1
Stddev	9.0	6.18	10.6	12.1
%RSD	.62639	.88064	.21649	.31860
#1	1448.2	705.66	4884.0	3814.7
#2	1435.4	696.93	4869.0	3797.5

Sample Name: S2 Acquired: 11/1/2017 15:28:39 Type: Cal
Method: P6110117B Mode: IR Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4397	7.0416	.38861	10.594	1.0772	41.662
Stddev	.0199	.0671	.00358	.056	.0078	.258
%RSD	.81346	.95296	.92096	.53153	.72147	.61959
#1	2.4257	6.9941	.38608	10.554	1.0717	41.479
#2	2.4538	7.0890	.39114	10.633	1.0827	41.844

Int. Std.	Y_3710
Units	Cts/S
Avg	3681.7
Stddev	24.2
%RSD	.65849
#1	3698.8
#2	3664.5

Sample Name: S1 Acquired: 11/1/2017 15:32:39 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment: P6110117B

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.001305**	**.0603740**	**1.017228**	**1.010290**	**.9853910**	**.9851491**	**1.011351**
Stddev	.006398	.0115636	.017797	.017548	.0173596	.0268653	.017792
%RSD	.6389780	19.15319	1.749576	1.736945	1.761694	2.727031	1.759249
#1	1.005829	.0685507	1.004643	.997881	.9976661	1.004146	.998770
#2	.996780	.0521974	1.029812	1.022698	.9731159	.966152	1.023932
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000154**	**1.002961**	**1.004270**	**.9963033**	**1.012135**	**.0835560**	**-.006802**
Stddev	.001765	.016541	.010127	.0047724	.000360	.0366554	.010484
%RSD	1149.563	1.649200	1.008420	.4790134	.0355705	43.86933	154.1282
#1	-.001402	.991265	.997109	.9996779	1.011880	.1094753	.000611
#2	.001095	1.014658	1.011432	.9929287	1.012389	.0576366	-.014215
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9904251**	**.0100680**	**.9789607**	**1.010002**	**.0154082**	**1.008278**	**1.007601**
Stddev	.0113166	.0079827	.0204117	.015483	.0013139	.009007	.012369
%RSD	1.142602	79.28759	2.085043	1.533001	8.527194	.8932674	1.227547
#1	.9984272	.0157126	.9933940	.999054	.0163373	1.001909	.998855
#2	.9824230	.0044234	.9645274	1.020951	.0144792	1.014646	1.016347
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: S1 Acquired: 11/1/2017 15:32:39 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment: P6110117B

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.010785	1.003525	1.016632	1.005962	.9975667	.9945734	1.007585
Stddev	.019547	.008766	.021778	.014702	.0059470	.0028845	.011446
%RSD	1.933858	.8735015	2.142127	1.461474	.5961464	.2900230	1.136027
#1	.996963	.997327	1.001233	.995567	1.001772	.9966130	.999491
#2	1.024607	1.009724	1.032031	1.016358	.993362	.9925337	1.015678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	1.001712	.9973810
Stddev	.007430	.0081808
%RSD	.7417793	.8202283
#1	1.006966	.9915962
#2	.996458	1.003166
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1425.400	690.9635	4848.934	3833.681
Stddev	19.143	13.5100	13.617	45.675
%RSD	1.342987	1.955243	.2808196	1.191419
#1	1438.936	700.5165	4839.306	3801.384
#2	1411.864	681.4105	4858.563	3865.978

Sample Name: S2 Acquired: 11/1/2017 15:36:30 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000237**	**100.6026**	**.0006627**	**.0012573**	**-.000501**	**-.000318**	**.0014482**
Stddev	.000044	.5044	.0018732	.0009453	.000120	.000060	.0008887
%RSD	18.74166	.5013835	282.6662	75.18444	23.96036	18.81596	61.36738
#1	-.000206	100.9593	-.000662	.0019257	-.000586	-.000276	.0008198
#2	-.000268	100.2460	.001987	.0005889	-.000416	-.000361	.0020766
Check ?	None	Chk Pass	None	None	None	None	None
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**99.81500**	**.0009061**	**.0009939**	**-.001109**	**.0048998**	**100.3688**	**101.1200**
Stddev	.36875	.0001709	.0006414	.000255	.0001879	.2937	.4515
%RSD	.3694341	18.86016	64.53254	22.97305	3.834567	.2926125	.4465148
#1	100.0757	.0010269	.0005404	-.001289	.0047670	100.5765	101.4392
#2	99.5543	.0007852	.0014475	-.000928	.0050327	100.1611	100.8007
Check ?	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027684**	**100.4485**	**.0008544**	**.0000030**	**100.5993**	**-.003499**	**.0033248**
Stddev	.0000581	.6410	.0000975	.0000403	.6246	.002693	.0035317
%RSD	2.098702	.6381849	11.41497	1329.897	.6208436	76.96753	106.2253
#1	.0028095	100.9018	.0007855	-.000025	101.0409	-.005403	.0058221
#2	.0027273	99.9952	.0009234	.000032	100.1577	-.001595	.0008274
Check ?	None	Chk Pass	None	None	Chk Pass	None	None
Value							
Range							

Sample Name: S2 Acquired: 11/1/2017 15:36:30 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001231	-.006505	-.000024	.0022551	.0011019	.0011476	.0016124
Stddev	.001424	.000142	.001628	.0004838	.0000063	.0000474	.0056996
%RSD	115.6432	2.188607	6725.454	21.45426	.5737214	4.128764	353.4951
#1	-.002238	-.006405	-.001176	.0025972	.0011063	.0011141	-.002418
#2	-.000224	-.006606	.001127	.0019130	.0010974	.0011811	.005643
Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0006848	.0009164
Stddev	.0000399	.0002175
%RSD	5.822893	23.72852
#1	.0007130	.0010702
#2	.0006566	.0007626
Check ?	None	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1092.607	631.4082	4344.223	3664.459
Stddev	2.042	1.2981	17.808	14.311
%RSD	.1869019	.2055868	.4099183	.3905397
#1	1094.051	632.3261	4356.815	3654.340
#2	1091.163	630.4903	4331.631	3674.579

Sample Name: ICV Acquired: 11/1/2017 15:40:28 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3883736**	**40.94298**	**.3963805**	**.3914343**	**.3855180**	**.3860819**	**.4136054**
Stddev	.0130819	.54878	.0050400	.0002314	.0045478	.0066882	.0012420
%RSD	3.368373	1.340355	1.271508	.0591296	1.179658	1.732324	.3002834
#1	.3791233	41.33102	.3999443	.3915979	.3887338	.3908111	.4144836
#2	.3976239	40.55493	.3928166	.3912706	.3823023	.3813526	.4127271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.06387**	**.3850338**	**.4086495**	**.3821660**	**.3999701**	**20.18821**	**39.31715**
Stddev	.32190	.0018051	.0004653	.0150664	.0141796	.45225	.44587
%RSD	1.604375	.4688129	.1138628	3.942378	3.545169	2.240162	1.134022
#1	20.29149	.3863102	.4089786	.3715124	.3899436	20.50799	39.63242
#2	19.83626	.3837574	.4083205	.3928195	.4099966	19.86842	39.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.105083**	**19.56443**	**3.806141**	**.3731729**	**19.88184**	**.4102875**	**.3980040**
Stddev	.032847	.25462	.056360	.0026839	.21505	.0019580	.0026322
%RSD	1.057842	1.301419	1.480762	.7192003	1.081617	.4772152	.6613554
#1	3.128309	19.74447	3.845994	.3750707	20.03390	.4116719	.3998653
#2	3.081857	19.38439	3.766289	.3712751	19.72978	.4089030	.3961427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICV Acquired: 11/1/2017 15:40:28 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3856553	.3864113	.3915318	.4140825	.3870568	.3872306	.3728980
Stddev	.0004221	.0058997	.0000042	.0037213	.0145447	.0153976	.0028463
%RSD	.1094433	1.526806	.0010749	.8986776	3.757772	3.976341	.7632850
#1	.3859537	.3905830	.3915288	.4167138	.3767721	.3763428	.3749107
#2	.3853568	.3822395	.3915348	.4114512	.3973414	.3981183	.3708854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	3.836172	.4222325
Stddev	.144706	.0000319
%RSD	3.772141	.0075456
#1	3.733849	.4222550
#2	3.938494	.4222099
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1240.949	674.7974	4630.775	3788.292
Stddev	.992	.6769	132.122	31.148
%RSD	.0799784	.1003105	2.853126	.8222135
#1	1241.650	674.3188	4724.199	3766.267
#2	1240.247	675.2761	4537.351	3810.316

Sample Name: ICB Acquired: 11/1/2017 15:44:21 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006727**	**-.002759**	**-.000426**	**.0016072**	**-.000592**	**-.000237**	**-.000449**
Stddev	.0004910	.002365	.001161	.0004642	.000081	.000533	.000101
%RSD	72.99967	85.71148	272.8779	28.88244	13.73890	225.0810	22.57186
#1	.0003254	-.004432	-.001247	.0019354	-.000534	-.000614	-.000377
#2	.0010199	-.001087	.000396	.0012790	-.000649	.000140	-.000521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.005833**	**.0004026**	**.0003275**	**.0004934**	**.0024527**	**.0046088**	**-.017007**
Stddev	.000028	.0002828	.0002449	.0000317	.0000943	.0317221	.002956
%RSD	.4796594	70.23335	74.78387	6.428268	3.846030	688.2883	17.38270
#1	-.005853	.0002027	.0005006	.0005158	.0023860	-.017822	-.014917
#2	-.005814	.0006026	.0001543	.0004710	.0025194	.027040	-.019098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007443**	**-.006368**	**.0003083**	**-.000127**	**.0166973**	**.0003762**	**.0018273**
Stddev	.0001242	.003569	.0002403	.000078	.0031589	.0000039	.0015442
%RSD	16.68358	56.04795	77.93654	61.73040	18.91866	1.030942	84.50707
#1	.0008321	-.003844	.0001384	-.000071	.0189310	.0003789	.0029191
#2	.0006565	-.008891	.0004782	-.000182	.0144637	.0003734	.0007354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICB Acquired: 11/1/2017 15:44:21 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002019	.0006972	-.000715	-.004034	.0000181	-.000162	-.000519
Stddev	.0010022	.0023583	.001451	.001204	.0000014	.000085	.000235
%RSD	496.5156	338.2713	202.8408	29.85354	7.809390	52.48313	45.31693
#1	.0009105	.0023648	-.001741	-.003182	.0000171	-.000102	-.000685
#2	-.000507	-.000970	.000311	-.004885	.0000191	-.000222	-.000353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0005026	-.000266
Stddev	.0003654	.000485
%RSD	72.69475	182.0889
#1	.0002443	-.000609
#2	.0007610	.000077
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1483.727	697.8961	4888.851	3864.331
Stddev	42.838	21.9776	34.210	113.028
%RSD	2.887172	3.149122	.6997542	2.924900
#1	1453.436	682.3556	4864.661	3784.408
#2	1514.018	713.4366	4913.041	3944.254

Sample Name: ICVL Acquired: 11/1/2017 15:48:24 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053572	.2046811	.0132256	.0514945	.0094683	.0042301	.0507231
Stddev	.0002235	.0005460	.0018603	.0004084	.0000837	.0003688	.0012048
%RSD	4.171008	.2667662	14.06565	.7931240	.8843002	8.719460	2.375345
#1	.0051992	.2050672	.0119102	.0512057	.0095275	.0039693	.0515751
#2	.0055152	.2042950	.0145410	.0517833	.0094091	.0044909	.0498712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1961656	.0024187	.0047642	.0087949	.0127533	.1791666	.4934295
Stddev	.0040827	.0000538	.0001709	.0004489	.0000333	.0066206	.0134690
%RSD	2.081235	2.223752	3.586708	5.104201	.2611912	3.695212	2.729674
#1	.1990525	.0024567	.0048851	.0091124	.0127297	.1744851	.5029536
#2	.1932788	.0023807	.0046434	.0084775	.0127768	.1838480	.4839055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109189	.1108646	.0100537	.0098910	1.029051	.0096862	.0061569
Stddev	.0001273	.0213800	.0000556	.0001186	.010868	.0021304	.0014536
%RSD	1.165412	19.28475	.5530281	1.199321	1.056072	21.99352	23.60847
#1	.0108289	.0957467	.0100144	.0099749	1.036736	.0081799	.0071848
#2	.0110089	.1259825	.0100930	.0098071	1.021367	.0111926	.0051291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICVL Acquired: 11/1/2017 15:48:24 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0190476	.0125675	.1951570	.0364954	.0051130	.0046684	.0103269
Stddev	.0008818	.0031287	.0009714	.0004000	.0000398	.0000641	.0028259
%RSD	4.629299	24.89526	.4977516	1.095956	.7784027	1.373654	27.36487
#1	.0196711	.0147798	.1958439	.0362126	.0051411	.0046231	.0123251
#2	.0184241	.0103551	.1944701	.0367782	.0050848	.0047138	.0083286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0058079	.0195138
Stddev	.0001767	.0000977
%RSD	3.041838	.5007859
#1	.0056829	.0194447
#2	.0059328	.0195829
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1476.121	705.4801	4870.581	3783.273
Stddev	5.784	2.1099	34.848	23.152
%RSD	.3918092	.2990779	.7154862	.6119558
#1	1480.211	703.9881	4845.939	3766.902
#2	1472.032	706.9720	4895.222	3799.644

Sample Name: ICV Acquired: 11/1/2017 15:52:26 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3955821**	**41.10929**	**.3923168**	**.3853933**	**.3858382**	**.3918034**	**.4087197**
Stddev	.0008116	.38821	.0155012	.0116666	.0037207	.0046840	.0080375
%RSD	.2051642	.9443342	3.951188	3.027202	.9643175	1.195498	1.966497
#1	.3950083	40.83478	.3813558	.3771437	.3832073	.3884913	.4030363
#2	.3961560	41.38379	.4032778	.3936428	.3884692	.3951155	.4144030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.37429**	**.3823028**	**.4035543**	**.3894311**	**.4021431**	**20.35716**	**39.40082**
Stddev	.11801	.0086295	.0073695	.0007091	.0004973	.32619	.40307
%RSD	.5792270	2.257248	1.826144	.1820738	.1236577	1.602340	1.023002
#1	20.29084	.3762008	.3983433	.3899324	.4024947	20.12651	39.11581
#2	20.45774	.3884048	.4087653	.3889297	.4017914	20.58781	39.68584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.099724**	**19.68940**	**3.848104**	**.3692085**	**19.99335**	**.4059274**	**.3960016**
Stddev	.037140	.16066	.026173	.0099139	.19824	.0095421	.0100304
%RSD	1.198158	.8159531	.6801554	2.685187	.9915269	2.350695	2.532927
#1	3.073462	19.57580	3.829597	.3621983	19.85317	.3991801	.3889090
#2	3.125986	19.80300	3.866611	.3762187	20.13352	.4126747	.4030942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICV Acquired: 11/1/2017 15:52:26 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3764138	.3783275	.3853860	.4072332	.3889049	.3910991	.3692312
Stddev	.0090844	.0101858	.0100212	.0032909	.0002329	.0007734	.0100398
%RSD	2.413398	2.692323	2.600292	.8081078	.0598750	.1977434	2.719111
#1	.3699902	.3711250	.3782999	.4049062	.3887402	.3916460	.3621320
#2	.3828374	.3855299	.3924720	.4095602	.3890695	.3905522	.3763304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	3.898710	.4175304
Stddev	.007783	.0054990
%RSD	.1996193	1.317026
#1	3.904213	.4136420
#2	3.893207	.4214188
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1254.315	683.5719	4630.862	3769.040
Stddev	22.367	16.2304	6.172	22.909
%RSD	1.783183	2.374357	.1332821	.6078223
#1	1270.131	695.0485	4635.226	3785.239
#2	1238.500	672.0952	4626.498	3752.841

Sample Name: CRI Acquired: 11/1/2017 15:56:21 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0108210**	**.3821787**	**.0191717**	**.1002292**	**.0191019**	**.0076086**	**.0986685**
Stddev	.0004645	.0020910	.0004138	.0009682	.0001922	.0006996	.0021983
%RSD	4.292884	.5471202	2.158213	.9659597	1.006405	9.194803	2.227910
#1	.0111495	.3807002	.0194642	.0995446	.0192378	.0071140	.0971141
#2	.0104926	.3836573	.0188791	.1009138	.0189659	.0081033	.1002229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3943593**	**.0041284**	**.0103926**	**.0197985**	**.0225353**	**.3608217**	**.9619668**
Stddev	.0111646	.0003318	.0001875	.0005192	.0006720	.0449565	.0118771
%RSD	2.831068	8.036859	1.804434	2.622667	2.981927	12.45947	1.234670
#1	.4022539	.0043630	.0102600	.0194313	.0230104	.3290327	.9703652
#2	.3864648	.0038937	.0105252	.0201656	.0220601	.3926108	.9535685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0208551**	**.2137141**	**.0202324**	**.0193463**	**1.999686**	**.0202257**	**.0120588**
Stddev	.0001723	.0209887	.0005562	.0003172	.011099	.0007351	.0001845
%RSD	.8261588	9.820903	2.749024	1.639582	.5550136	3.634481	1.530005
#1	.0207333	.2285554	.0206257	.0191220	2.007534	.0197059	.0121893
#2	.0209769	.1988729	.0198392	.0195706	1.991838	.0207455	.0119283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CRI Acquired: 11/1/2017 15:56:21 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0390698	.0184757	.3918959	.0782253	.0101162	.0097339	.0216612
Stddev	.0000314	.0008077	.0040340	.0007429	.0000205	.0000050	.0013839
%RSD	.0804689	4.371422	1.029360	.9496629	.2028828	.0513245	6.388979
#1	.0390475	.0179046	.3890434	.0777001	.0101307	.0097304	.0226398
#2	.0390920	.0190468	.3947484	.0787506	.0101016	.0097375	.0206827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0101769	.0388865
Stddev	.0000019	.0005342
%RSD	.0182557	1.373765
#1	.0101782	.0385088
#2	.0101756	.0392643
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1469.969	707.6461	4920.991	3836.926
Stddev	10.528	5.4730	3.394	19.809
%RSD	.7162229	.7734063	.0689758	.5162666
#1	1477.414	711.5160	4923.391	3822.919
#2	1462.525	703.7761	4918.591	3850.933

Sample Name: ICSA Acquired: 11/1/2017 16:00:22 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000627**	**509.7704**	**.0088511**	**.0000377**	**-.000445**	**-.000258**	**-.001098**
Stddev	.000219	9.5315	.0009587	.0009423	.000020	.000245	.001790
%RSD	34.91554	1.869772	10.83091	2502.230	4.564680	95.00141	163.0761
#1	-.000781	516.5102	.0081732	.0007039	-.000459	-.000432	.000168
#2	-.000472	503.0306	.0095290	-.000629	-.000431	-.000085	-.002363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**494.5290**	**.0009732**	**.0010742**	**.0013205**	**.0057875**	**193.6200**	**-.035946**
Stddev	8.7246	.0000129	.0005179	.0015792	.0000092	3.4375	.005737
%RSD	1.764222	1.327847	48.21436	119.5915	.1595569	1.775366	15.95887
#1	500.6982	.0009824	.0007080	.0002038	.0057810	196.0506	-.040003
#2	488.3598	.0009641	.0014405	.0024372	.0057940	191.1893	-.031890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0087397**	**512.8709**	**-.000186**	**-.001036**	**.0199869**	**-.008541**	**.0045215**
Stddev	.0001394	9.1620	.000351	.000078	.0019341	.001257	.0040471
%RSD	1.594441	1.786413	188.9776	7.529657	9.676586	14.72304	89.50759
#1	.0088383	519.3494	.000063	-.000981	.0213545	-.007652	.0073832
#2	.0086412	506.3924	-.000434	-.001091	.0186193	-.009430	.0016598
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA Acquired: 11/1/2017 16:00:22 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017991	-.000866	-.009397	-.001504	.0046812	.0006607	.0005237
Stddev	.0046250	.000200	.001604	.003139	.0000572	.0002694	.0022844
%RSD	257.0737	23.10921	17.06986	208.7240	1.220851	40.77885	436.2169
#1	.0050694	-.000724	-.010532	.000716	.0047216	.0008512	.0021390
#2	-.001471	-.001007	-.008263	-.003723	.0046408	.0004702	-.001092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0003256	.0010097
Stddev	.0002051	.0004861
%RSD	62.98378	48.14312
#1	.0001806	.0006660
#2	.0004706	.0013534
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	979.4459	602.4750	3974.982	3496.395
Stddev	1.2852	2.5062	19.479	47.559
%RSD	.1312211	.4159870	.4900327	1.360235
#1	980.3547	604.2471	3961.209	3462.765
#2	978.5371	600.7028	3988.756	3530.024

Sample Name: ICSAB Acquired: 11/1/2017 16:04:23 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2241736**	**499.5565**	**.1025356**	**-.001648**	**.4756314**	**.5028649**	**-.001303**
Stddev	.0010380	.3328	.0013583	.000583	.0002094	.0014442	.002215
%RSD	.4630436	.0666173	1.324762	35.38042	.0440187	.2871896	169.9017
#1	.2234396	499.3212	.1015751	-.001236	.4757794	.5018437	-.002869
#2	.2249075	499.7919	.1034961	-.002060	.4754833	.5038860	.000262
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**483.5690**	**1.015359**	**.5122634**	**.4834561**	**.5750943**	**190.1816**	**-.042915**
Stddev	3.4633	.003764	.0018726	.0019355	.0067320	.9879	.000957
%RSD	.7161963	.3707283	.3655491	.4003420	1.170595	.5194751	2.230854
#1	481.1201	1.012697	.5109393	.4820875	.5798546	189.4830	-.043592
#2	486.0179	1.018021	.5135875	.4848247	.5703341	190.8801	-.042238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0086364**	**502.5157**	**.4553940**	**-.000795**	**.0195298**	**.9932415**	**.0485929**
Stddev	.0000927	2.0413	.0000084	.000403	.0016290	.0010626	.0010532
%RSD	1.073556	.4062096	.0018480	50.74940	8.341214	.1069798	2.167412
#1	.0087019	501.0724	.4553880	-.001080	.0206817	.9939929	.0493377
#2	.0085708	503.9591	.4554000	-.000510	.0183779	.9924902	.0478482
Check ?	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICSAB Acquired: 11/1/2017 16:04:23 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5731973	.0464527	-.009914	.0042508	.0046561	.0019721	.0849946
Stddev	.0090742	.0163809	.002911	.0022415	.0000022	.0000059	.0020440
%RSD	1.583088	35.26354	29.36584	52.73023	.0465812	.2981839	2.404853
#1	.5667809	.0348697	-.011972	.0058358	.0046546	.0019763	.0864400
#2	.5796138	.0580357	-.007855	.0026659	.0046576	.0019679	.0835493
Check ?	Chk Pass	Chk Pass	None	None	None	None	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.4942305	1.040677
Stddev	.0003598	.000523
%RSD	.0727942	.0502869
#1	.4939761	1.041047
#2	.4944849	1.040307
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	981.4933	599.1275	3996.855	3541.574
Stddev	2.2670	3.2002	26.190	8.068
%RSD	.2309766	.5341512	.6552683	.2278011
#1	983.0963	601.3905	3978.336	3547.278
#2	979.8902	596.8646	4015.374	3535.869

Sample Name: CCV Acquired: 11/1/2017 16:08:20 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5030953**	**51.58260**	**.4998858**	**.4820701**	**.4817566**	**.5016397**	**.5190882**
Stddev	.0050331	.03647	.0012701	.0005915	.0001024	.0003352	.0039031
%RSD	1.000435	.0707115	.2540779	.1227057	.0212491	.0668143	.7519080
#1	.5066543	51.55681	.5007839	.4816518	.4818290	.5018767	.5163283
#2	.4995364	51.60839	.4989877	.4824883	.4816842	.5014027	.5218480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.14195**	**.4816757**	**.5085368**	**.4962890**	**.5118541**	**26.02204**	**48.94246**
Stddev	.01612	.0013595	.0030151	.0037408	.0048191	.16111	.04320
%RSD	.0640996	.2822345	.5928888	.7537589	.9415020	.6191449	.0882739
#1	25.15334	.4807144	.5064049	.4989342	.5152617	26.13597	48.91191
#2	25.13055	.4826370	.5106688	.4936439	.5084464	25.90812	48.97301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.875258**	**24.96689**	**4.833792**	**.4664457**	**25.05922**	**.5156318**	**.5097252**
Stddev	.007691	.02958	.009928	.0013953	.02582	.0042029	.0007908
%RSD	.1984667	.1184854	.2053780	.2991370	.1030538	.8151042	.1551402
#1	3.869819	24.98781	4.840812	.4654591	25.04096	.5126599	.5102844
#2	3.880696	24.94597	4.826772	.4674323	25.07748	.5186037	.5091661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 11/1/2017 16:08:20 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4752531	.4789679	.5105587	.5180042	.4867755	.4897748	.4653840
Stddev	.0031063	.0028527	.0020944	.0013339	.0042914	.0052270	.0036427
%RSD	.6536044	.5955962	.4102075	.2575161	.8815918	1.067218	.7827315
#1	.4774496	.4769507	.5120397	.5170610	.4898100	.4934708	.4628082
#2	.4730567	.4809851	.5090778	.5189475	.4837411	.4860788	.4679598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	4.962756	.5278675
Stddev	.063274	.0019057
%RSD	1.274973	.3610134
#1	5.007498	.5265199
#2	4.918015	.5292150
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1223.803	672.5966	4572.682	3759.946
Stddev	.857	1.1974	32.193	1.709
%RSD	.0700135	.1780287	.7040201	.0454619
#1	1224.408	671.7499	4549.919	3758.737
#2	1223.197	673.4433	4595.446	3761.155

Sample Name: CCB Acquired: 11/1/2017 16:12:14 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002716**	**.0146781**	**-.000557**	**.0014980**	**-.000628**	**-.000264**	**-.001726**
Stddev	.0004617	.0021035	.000246	.0009480	.000020	.000013	.001598
%RSD	170.0098	14.33081	44.25356	63.28381	3.259583	5.029097	92.56923
#1	.0005980	.0131907	-.000731	.0021683	-.000643	-.000255	-.002856
#2	-.000055	.0161654	-.000382	.0008277	-.000614	-.000274	-.000596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.004169**	**.0003781**	**.0005305**	**-.001648**	**.0024056**	**-.008750**	**-.012810**
Stddev	.000499	.0002426	.0006174	.000185	.0004133	.068233	.009556
%RSD	11.97046	64.17179	116.3752	11.25397	17.17999	779.8465	74.60106
#1	-.003816	.0005497	.0000939	-.001517	.0026978	.039499	-.019567
#2	-.004522	.0002066	.0009670	-.001779	.0021134	-.056998	-.006053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008712**	**-.003154**	**.0003175**	**.0004920**	**.0106447**	**.0007434**	**.0003491**
Stddev	.0002228	.021642	.0000459	.0000159	.0003276	.0015968	.0016774
%RSD	25.57354	686.1949	14.45161	3.231566	3.077545	214.7949	480.5193
#1	.0007136	.012149	.0002851	.0005032	.0108763	-.000386	.0015352
#2	.0010287	-.018457	.0003500	.0004808	.0104130	.001873	-.000837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/1/2017 16:12:14 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000530	-.001315	-.001603	-.003324	.0000286	-.000122	.0013916
Stddev	.000741	.001153	.001367	.000197	.0000144	.000137	.0026895
%RSD	139.7849	87.63911	85.30368	5.918111	50.21178	112.1369	193.2725
#1	-.001054	-.002130	-.000636	-.003185	.0000184	-.000025	.0032933
#2	-.000006	-.000500	-.002569	-.003463	.0000387	-.000219	-.000510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0011094	-.000524
Stddev	.0010044	.000177
%RSD	90.53522	33.77798
#1	.0018196	-.000399
#2	.0003992	-.000649
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1480.251	692.2040	4839.963	3817.535
Stddev	5.441	.9297	14.474	22.636
%RSD	.3675625	.1343039	.2990557	.5929608
#1	1484.099	692.8614	4850.198	3801.529
#2	1476.404	691.5466	4829.728	3833.542

Sample Name: MRL Acquired: 11/1/2017 16:16:19 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057024**	**.1899444**	**.0133201**	**.0508861**	**.0091846**	**.0030886**	**.0474108**
Stddev	.0003844	.0336096	.0013901	.0003838	.0003127	.0003598	.0013404
%RSD	6.741190	17.69442	10.43574	.7542830	3.404665	11.65067	2.827128
#1	.0054305	.1661788	.0123372	.0511575	.0089635	.0033430	.0464630
#2	.0059742	.2137099	.0143030	.0506147	.0094057	.0028341	.0483586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1952050**	**.0023162**	**.0054620**	**.0089033**	**.0120877**	**.1986775**	**.4749734**
Stddev	.0033073	.0003225	.0001674	.0002977	.0001270	.0467251	.0110337
%RSD	1.694292	13.92168	3.065308	3.343391	1.050298	23.51806	2.323009
#1	.1928664	.0025443	.0055804	.0086928	.0119979	.2317172	.4671714
#2	.1975437	.0020882	.0053436	.0091138	.0121775	.1656379	.4827754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0108359**	**.0910324**	**.0104634**	**.0098088**	**1.005658**	**.0100898**	**.0062590**
Stddev	.0000315	.0086652	.0000411	.0000906	.014194	.0001310	.0000432
%RSD	.2904761	9.518795	.3925040	.9234664	1.411384	1.298767	.6902598
#1	.0108582	.0971596	.0104344	.0098728	.995621	.0101825	.0062285
#2	.0108137	.0849052	.0104924	.0097447	1.015694	.0099972	.0062896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: MRL Acquired: 11/1/2017 16:16:19 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215220	.0099990	.1955265	.0381925	.0050231	.0047438	.0110288
Stddev	.0005132	.0018535	.0020432	.0016522	.0000084	.0000704	.0029652
%RSD	2.384527	18.53705	1.044952	4.326018	.1670896	1.483641	26.88595
#1	.0218848	.0086884	.1969712	.0393607	.0050172	.0047935	.0131255
#2	.0211591	.0113097	.1940818	.0370242	.0050291	.0046940	.0089321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0058060	.0201002
Stddev	.0006355	.0002002
%RSD	10.94541	.9962830
#1	.0053566	.0199586
#2	.0062554	.0202418
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1468.659	704.2880	4918.138	3857.635
Stddev	7.219	5.3680	15.209	51.525
%RSD	.4915207	.7621907	.3092453	1.335660
#1	1463.555	700.4923	4928.892	3894.068
#2	1473.763	708.0838	4907.383	3821.201

Sample Name: mb 500-407880/1-a Acquired: 11/1/2017 16:20:23 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008267	.0007673	-.002066	.0044635	-.000480	-.000473	-.004905
Stddev	.0003431	.0251535	.000849	.0000186	.000072	.000372	.000970
%RSD	41.49800	3278.048	41.10660	.4160499	15.06120	78.62293	19.78393
#1	.0010692	-.017019	-.002667	.0044504	-.000531	-.000210	-.005592
#2	.0005841	.018554	-.001466	.0044767	-.000428	-.000736	-.004219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0130049	.0005930	-.000366	-.000559	.0024772	-.020878	-.010863
Stddev	.0013618	.0005502	.000386	.000441	.0006033	.026951	.008085
%RSD	10.47165	92.77478	105.2691	78.79459	24.35580	129.0866	74.43385
#1	.0120419	.0002040	-.000094	-.000248	.0029038	-.001821	-.016580
#2	.0139678	.0009820	-.000639	-.000871	.0020506	-.039936	-.005145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006354	-.018828	.0003884	.0000302	.0327715	-.002042	.0002312
Stddev	.0001837	.013899	.0000052	.0000078	.0008233	.002538	.0006614
%RSD	28.91016	73.81995	1.331561	25.71951	2.512151	124.2765	286.1184
#1	.0005055	-.028656	.0003921	.0000357	.0321893	-.000248	.0006988
#2	.0007653	-.009000	.0003848	.0000247	.0333536	-.003837	-.000237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-407880/1-a Acquired: 11/1/2017 16:20:23 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000272	-.001917	.0046907	-.002983	.0000522	-.000256	-.003178
Stddev	.000460	.001947	.0001047	.000167	.0000129	.000183	.001075
%RSD	169.1843	101.6033	2.231190	5.610267	24.64682	71.62973	33.80903
#1	-.000597	-.003293	.0046167	-.002865	.0000431	-.000126	-.003938
#2	.000053	-.000540	.0047647	-.003102	.0000612	-.000385	-.002418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0006796	.0015561
Stddev	.0004403	.0004502
%RSD	64.78643	28.93451
#1	.0009909	.0012377
#2	.0003682	.0018744
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1449.534	689.6169	4902.979	3790.412
Stddev	5.362	.2056	3.037	6.399
%RSD	.3699331	.0298192	.0619430	.1688257
#1	1453.326	689.7623	4905.127	3794.937
#2	1445.742	689.4715	4900.832	3785.887

Sample Name: lcs 500-407880/2-a Acquired: 11/1/2017 16:24:28 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0492593	2.019770	.0989148	.9176758	1.977906	.0501197	.5038417
Stddev	.0012631	.012272	.0066427	.0074678	.004423	.0000416	.0007413
%RSD	2.564205	.6075952	6.715531	.8137771	.2236157	.0829485	.1471241
#1	.0501525	2.011092	.1036119	.9229564	1.981034	.0500903	.5043658
#2	.0483661	2.028447	.0942178	.9123953	1.974779	.0501491	.5033175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.19298	.0496829	.5062301	.1996440	.2591323	1.120294	9.956774
Stddev	.00600	.0002449	.0029932	.0051418	.0087729	.082568	.042060
%RSD	.0588943	.4928608	.5912767	2.575473	3.385482	7.370176	.4224210
#1	10.19722	.0498560	.5083466	.2032798	.2653357	1.061909	9.986514
#2	10.18873	.0495097	.5041136	.1960082	.2529289	1.178678	9.927033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5072528	9.876901	.4980463	.9948437	10.28007	.5134641	.0981742
Stddev	.0000203	.029765	.0028589	.0041107	.01208	.0026993	.0004174
%RSD	.0039978	.3013552	.5740318	.4132009	.1175536	.5257010	.4251214
#1	.5072672	9.897948	.5000679	.9977504	10.28861	.5153728	.0984693
#2	.5072385	9.855854	.4960248	.9919370	10.27152	.5115554	.0978791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-407880/2-a Acquired: 11/1/2017 16:24:28 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4946255	.0900988	4.993681	.9901488	.9762424	.9850226	.0910876
Stddev	.0006554	.0020694	.031714	.0038328	.0260887	.0246523	.0001711
%RSD	.1324958	2.296836	.6350846	.3870898	2.672354	2.502717	.1878780
#1	.4941621	.0886355	5.016106	.9928590	.9946898	1.002454	.0909666
#2	.4950889	.0915621	4.971256	.9874387	.9577949	.967591	.0912086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5090323	.4922270
Stddev	.0121589	.0002364
%RSD	2.388632	.0480254
#1	.5176299	.4923941
#2	.5004346	.4920598
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1321.453	667.4301	4737.477	3781.377
Stddev	7.576	4.9268	97.205	2.555
%RSD	.5732911	.7381676	2.051837	.0675662
#1	1316.096	663.9463	4668.742	3779.570
#2	1326.810	670.9138	4806.211	3783.183

Sample Name: 500-136503-g-1-a Acquired: 11/1/2017 16:28:19 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005170	.0995177	.0195708	.1634831	.2530744	-.000468	-.005954
Stddev	.0001748	.0104134	.0027574	.0032842	.0024899	.000027	.001624
%RSD	33.80347	10.46385	14.08937	2.008920	.9838528	5.719545	27.26754
#1	.0006406	.1068811	.0176210	.1611608	.2548350	-.000449	-.007103
#2	.0003934	.0921543	.0215205	.1658054	.2513138	-.000487	-.004806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	153.5804	.0012749	.0005535	-.000013	.0067162	12.95983	11.47130
Stddev	.1169	.0001521	.0003323	.000210	.0000896	.11065	.09244
%RSD	.0761072	11.92621	60.03729	1574.410	1.334751	.8537981	.8058214
#1	153.6631	.0013824	.0003185	.000135	.0066528	13.03808	11.53667
#2	153.4978	.0011674	.0007884	-.000162	.0067796	12.88159	11.40594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0167545	58.78176	.2007556	.0098410	727.4960	.0006547	.0008543
Stddev	.0002184	.32977	.0003492	.0002199	4.7909	.0016571	.0030711
%RSD	1.303795	.5610139	.1739484	2.234439	.6585412	253.1165	359.4770
#1	.0169089	59.01494	.2010025	.0099965	730.8837	-.000517	.0030259
#2	.0166000	58.54857	.2005086	.0096855	724.1084	.001826	-.001317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136503-g-1-a Acquired: 11/1/2017 16:28:19 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027860	.0010659	12.55179	-.002451	.5850901	.0037039	-.002372
Stddev	.0002156	.0000625	.26903	.002054	.0099280	.0004233	.000704
%RSD	7.737583	5.860026	2.143337	83.80611	1.696838	11.42840	29.66661
#1	.0026335	.0010218	12.36156	-.003903	.5921103	.0040032	-.001875
#2	.0029384	.0011101	12.74202	-.000998	.5780699	.0034046	-.002870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0011158	.0039902
Stddev	.0001075	.0012907
%RSD	9.630321	32.34633
#1	.0010398	.0049029
#2	.0011917	.0030776
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	997.1968	592.4965	3967.149	3530.603
Stddev	18.1870	8.8859	60.613	22.510
%RSD	1.823811	1.499741	1.527875	.6375747
#1	1010.057	598.7798	3924.289	3514.686
#2	984.337	586.2133	4010.009	3546.521

Sample Name: 136503-g-1-a SD@5 Acquired: 11/1/2017 16:32:22 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001373	.0302705	.0047525	.0383387	.0549097	-.000018	-.002506
Stddev	.0001030	.0113953	.0003242	.0005248	.0000914	.000265	.001662
%RSD	75.06245	37.64484	6.821294	1.368959	.1665258	1496.355	66.34578
#1	.0000644	.0222128	.0049818	.0379676	.0549743	.000169	-.003681
#2	.0002101	.0383282	.0045233	.0387099	.0548450	-.000205	-.001330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	33.98349	.0005273	.0008318	-.000427	.0032408	2.919872	2.414469
Stddev	.08722	.0001001	.0003939	.000834	.0002529	.067573	.002555
%RSD	.2566544	18.99294	47.35030	195.3155	7.803750	2.314246	.1058299
#1	33.92181	.0005981	.0005533	-.001017	.0034196	2.872091	2.416276
#2	34.04516	.0004565	.0011103	.000163	.0030620	2.967654	2.412662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043164	12.79802	.0454823	.0025248	156.9949	.0020457	.0023953
Stddev	.0003063	.01482	.0004254	.0004463	1.2718	.0016856	.0014365
%RSD	7.097151	.1157908	.9353664	17.67848	.8100946	82.39543	59.96941
#1	.0045330	12.78754	.0451815	.0022092	156.0956	.0032376	.0034111
#2	.0040998	12.80850	.0457832	.0028405	157.8942	.0008538	.0013796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 136503-g-1-a SD@5 Acquired: 11/1/2017 16:32:22 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007875	.0001441	2.647617	-.001853	.1240249	.0007367	.0003677
Stddev	.0002458	.0030277	.028393	.000856	.0010592	.0003556	.0048469
%RSD	31.21124	2100.631	1.072395	46.18130	.8539942	48.26403	1318.196
#1	.0006137	.0022850	2.627540	-.002457	.1247739	.0009881	-.003060
#2	.0009613	-.001997	2.667694	-.001248	.1232760	.0004853	.003795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0007526	.0008792
Stddev	.0005487	.0002874
%RSD	72.91102	32.68522
#1	.0011405	.0010824
#2	.0003646	.0006760
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1213.758	664.5537	4570.637	3725.328
Stddev	13.856	13.4843	16.582	10.708
%RSD	1.141546	2.029077	.3628048	.2874380
#1	1223.555	674.0886	4558.912	3732.900
#2	1203.960	655.0189	4582.363	3717.757

Sample Name: 500-136503-g-1-b du Acquired: 11/1/2017 16:36:27 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000380**	**.1062455**	**.0161173**	**.1666469**	**.2484698**	**-.000642**	**-.009148**
Stddev	.000185	.0111043	.0022848	.0015426	.0010637	.000597	.000013
%RSD	48.77469	10.45152	14.17635	.9256823	.4280992	93.11732	.1382534
#1	-.000511	.0983936	.0145016	.1655561	.2492219	-.001064	-.009139
#2	-.000249	.1140974	.0177329	.1677377	.2477176	-.000219	-.009157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**153.1572**	**.0015290**	**.0008697**	**-.000062**	**.0057954**	**12.72693**	**11.28068**
Stddev	1.8880	.0000609	.0006972	.001545	.0006045	.14554	.02959
%RSD	1.232744	3.986414	80.16195	2473.304	10.43094	1.143555	.2622952
#1	154.4922	.0014859	.0013627	-.001155	.0053679	12.82984	11.30160
#2	151.8221	.0015721	.0003767	.001030	.0062228	12.62401	11.25976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0166929**	**58.42023**	**.1985221**	**.0103033**	**705.8155**	**.0001861**	**.0002143**
Stddev	.0001474	.66389	.0017485	.0000919	.5415	.0007371	.0008501
%RSD	.8831463	1.136407	.8807799	.8924642	.0767186	396.0540	396.6824
#1	.0165887	58.88967	.1997585	.0103684	705.4326	-.000335	.0008155
#2	.0167972	57.95079	.1972857	.0102383	706.1984	.000707	-.000387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136503-g-1-b du Acquired: 11/1/2017 16:36:27 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057032	.0020420	12.48973	-.001762	.5643403	.0033874	-.004495
Stddev	.0020893	.0007688	.17777	.001130	.0001243	.0006612	.002273
%RSD	36.63419	37.64892	1.423298	64.16110	.0220297	19.51897	50.55758
#1	.0071806	.0025856	12.36403	-.002561	.5642524	.0038549	-.002888
#2	.0042258	.0014984	12.61543	-.000962	.5644282	.0029199	-.006102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0001957	.0022523
Stddev	.0008365	.0001416
%RSD	427.5308	6.288306
#1	-.000396	.0021521
#2	.000787	.0023524
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	981.7366	577.7680	4095.941	3583.559
Stddev	13.4911	7.5418	4.755	21.064
%RSD	1.374209	1.305326	.1160954	.5877825
#1	991.2763	583.1009	4099.304	3568.665
#2	972.1970	572.4352	4092.579	3598.454

Sample Name: 500-136503-g-1-c ms Acquired: 11/1/2017 16:40:31 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0570163	2.196143	.1328462	1.097061	2.130826	.0513441	.5911786
Stddev	.0003727	.020176	.0012175	.004714	.011384	.0004656	.0024042
%RSD	.6537409	.9186821	.9164727	.4296536	.5342318	.9068987	.4066758
#1	.0572799	2.181877	.1337071	1.093728	2.122777	.0510149	.5894786
#2	.0567528	2.210409	.1319853	1.100394	2.138876	.0516734	.5928786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	159.0623	.0548487	.5443244	.1986998	.2866731	13.58289	21.24311
Stddev	.8948	.0004690	.0054215	.0021637	.0006183	.08363	.07926
%RSD	.5625256	.8550781	.9960074	1.088934	.2156941	.6157086	.3731311
#1	158.4296	.0545171	.5404908	.1971699	.2862359	13.52375	21.18706
#2	159.6950	.0551803	.5481579	.2002298	.2871104	13.64202	21.29916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5118078	67.23169	.6670986	.9582780	713.4624	.5471805	.1019844
Stddev	.0040716	.35763	.0021658	.0043707	12.8064	.0045751	.0015249
%RSD	.7955316	.5319397	.3246605	.4561025	1.794971	.8361295	1.495255
#1	.5089288	66.97881	.6655671	.9551874	704.4069	.5439454	.1009062
#2	.5146869	67.48457	.6686300	.9613686	722.5179	.5504156	.1030627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136503-g-1-c ms Acquired: 11/1/2017 16:40:31 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5149961	.0961619	17.92367	1.097531	1.466477	.9793135	.0834913
Stddev	.0001287	.0057979	.07359	.018957	.025786	.0068553	.0034197
%RSD	.0249909	6.029364	.4105751	1.727233	1.758355	.7000112	4.095925
#1	.5150871	.0920622	17.87163	1.084126	1.484711	.9744661	.0859095
#2	.5149051	.1002617	17.97570	1.110935	1.448244	.9841610	.0810732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5096142	.5678039
Stddev	.0024841	.0079097
%RSD	.4874414	1.393031
#1	.5078577	.5622109
#2	.5113707	.5733969
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	975.8254	583.0475	4053.349	3585.367
Stddev	3.3161	.0874	4.077	9.504
%RSD	.3398294	.0149883	.1005899	.2650787
#1	978.1703	583.1093	4050.465	3592.088
#2	973.4805	582.9857	4056.232	3578.647

Sample Name: 500-136503-g-1-d msd Acquired: 11/1/2017 16:44:35 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0555717	2.219304	.1277282	1.104876	2.207038	.0523556	.6058514
Stddev	.0001216	.011988	.0009674	.010737	.004740	.0005326	.0016984
%RSD	.2187798	.5401725	.7574010	.9717604	.2147698	1.017225	.2803256
#1	.0556577	2.227781	.1270441	1.097284	2.210389	.0519791	.6046505
#2	.0554858	2.210827	.1284122	1.112468	2.203686	.0527322	.6070523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	162.6330	.0564151	.5522166	.2006279	.2943171	13.81225	22.08546
Stddev	1.9797	.0000609	.0047606	.0005999	.0020296	.03143	.12425
%RSD	1.217277	.1079704	.8620824	.2989927	.6896103	.2275586	.5625679
#1	161.2332	.0563721	.5488504	.2010521	.2928819	13.79003	22.17332
#2	164.0329	.0564582	.5555829	.2002038	.2957523	13.83447	21.99761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5334172	69.22334	.6801287	.9905264	764.5757	.5558853	.1064720
Stddev	.0057997	.22677	.0036216	.0097855	.1843	.0034503	.0033844
%RSD	1.087279	.3275872	.5324927	.9879094	.0241057	.6206767	3.178700
#1	.5375183	69.06300	.6775678	.9836070	764.7061	.5534457	.1088652
#2	.5293162	69.38369	.6826896	.9974458	764.4454	.5583250	.1040789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136503-g-1-d msd Acquired: 11/1/2017 16:44:35 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5344427	.0972683	18.43490	1.098977	1.510905	.9925363	.0803611
Stddev	.0110014	.0036242	.16334	.017700	.006147	.0056533	.0037289
%RSD	2.058480	3.725974	.8860373	1.610584	.4068414	.5695831	4.640165
#1	.5266636	.0998310	18.31940	1.086461	1.506559	.9885388	.0777244
#2	.5422219	.0947056	18.55040	1.111493	1.515252	.9965338	.0829979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5167083	.5700906
Stddev	.0012637	.0064200
%RSD	.2445708	1.126138
#1	.5158148	.5655510
#2	.5176019	.5746303
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	949.0126	563.6993	3982.706	3518.180
Stddev	2.8961	1.7997	12.536	1.728
%RSD	.3051665	.3192623	.3147669	.0491097
#1	951.0604	564.9719	3991.570	3516.958
#2	946.9648	562.4268	3973.841	3519.401

Sample Name: lb 500-407789/1-b Acquired: 11/1/2017 16:50:40 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007822	.0330153	.0041690	.0367434	.0035923	-.000463
Stddev	.0002889	.0069264	.0008186	.0068227	.0000206	.000364
%RSD	36.93082	20.97945	19.63601	18.56842	.5724994	78.66814
#1	.0009865	.0281176	.0035902	.0415678	.0036068	-.000721
#2	.0005780	.0379130	.0047479	.0319191	.0035777	-.000206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007405	.1760364	.0007005	-.000318	.0003896	.0121953
Stddev	.001859	.0053582	.0005467	.000463	.0009876	.0001295
%RSD	25.10422	3.043811	78.04822	145.4367	253.4644	1.061932
#1	-.006090	.1722476	.0010871	.000009	.0010879	.0122869
#2	-.008719	.1798253	.0003139	-.000646	-.000309	.0121038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088080	.1040282	.0018519	.0654285	.0010992	.0008757
Stddev	.0133379	.0320047	.0001835	.0052904	.0001714	.0001053
%RSD	151.4288	30.76545	9.911172	8.085793	15.59083	12.02919
#1	.0182394	.0813974	.0017221	.0616876	.0012203	.0008012
#2	-.000623	.1266590	.0019817	.0691694	.0009780	.0009502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lb 500-407789/1-b Acquired: 11/1/2017 16:50:40 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1299.718	.0062592	-.000016	-.000120	.0041747	.2384807
Stddev	17.261	.0009429	.001140	.001604	.0015618	.0323236
%RSD	1.328046	15.06397	7301.105	1332.079	37.41198	13.55398
#1	1287.513	.0069260	-.000821	-.001255	.0030703	.2613370
#2	1311.924	.0055925	.000790	.001014	.0052790	.2156245
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1000.000					
Low Limit	-1.00000					

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015914	.0006790	-.000008	-.006830	.0012601	.0103219
Stddev	.0030287	.0000236	.000064	.002867	.0003808	.0002198
%RSD	190.3122	3.476555	774.3167	41.97760	30.22060	2.129728
#1	.0037330	.0006623	-.000054	-.004803	.0015294	.0104773
#2	-.000550	.0006957	.000037	-.008857	.0009908	.0101664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1049.363	635.7947	3945.421	3559.152
Stddev	105.404	83.7248	11.912	28.822
%RSD	10.04456	13.16853	.3019078	.8098032
#1	974.831	576.5923	3936.999	3579.532
#2	1123.895	694.9971	3953.844	3538.772

Sample Name: lcs 500-407895/2-a Acquired: 11/1/2017 16:54:49 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0503109	1.994378	.0986089	.9122930	1.962748	.0501445	.4957379
Stddev	.0001110	.006578	.0016610	.0109582	.014006	.0002735	.0027311
%RSD	.2206244	.3298157	1.684444	1.201169	.7135657	.5454385	.5509117
#1	.0502324	1.999029	.0997834	.9045444	1.972652	.0503379	.4938067
#2	.0503894	1.989727	.0974344	.9200416	1.952845	.0499511	.4976690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.11308	.0489628	.5023143	.2041714	.2608437	1.103367	9.886480
Stddev	.07146	.0006612	.0003157	.0025002	.0020096	.025902	.088182
%RSD	.7066136	1.350303	.0628487	1.224577	.7704085	2.347547	.8919441
#1	10.16361	.0484953	.5020911	.2024035	.2622647	1.121682	9.948834
#2	10.06255	.0494303	.5025375	.2059393	.2594227	1.085051	9.824126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5025623	9.821014	.4941298	.9730579	10.73025	.5112466	.0964326
Stddev	.0051511	.092993	.0011314	.0084198	.10184	.0015591	.0009590
%RSD	1.024976	.9468824	.2289665	.8652900	.9491092	.3049591	.9944321
#1	.5062047	9.886770	.4949298	.9671043	10.80226	.5101441	.0957545
#2	.4989199	9.755257	.4933298	.9790116	10.65823	.5123490	.0971106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-407895/2-a Acquired: 11/1/2017 16:54:49 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4814762	.0900895	4.917649	.9803907	.9764202	.9872929	.0953544
Stddev	.0019158	.0025245	.038252	.0071665	.0014883	.0013230	.0020522
%RSD	.3979100	2.802195	.7778482	.7309883	.1524231	.1340043	2.152231
#1	.4801215	.0883044	4.890601	.9753232	.9774726	.9863574	.0968055
#2	.4828309	.0918745	4.944697	.9854582	.9753678	.9882284	.0939032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5142491	.4992136
Stddev	.0053780	.0026215
%RSD	1.045806	.5251252
#1	.5104463	.5010672
#2	.5180520	.4973599
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1334.358	680.8273	4701.938	3789.537
Stddev	4.784	6.2870	11.402	31.657
%RSD	.3585205	.9234301	.2424852	.8353900
#1	1337.741	685.2729	4693.875	3767.152
#2	1330.976	676.3818	4710.000	3811.922

Sample Name: 500-136480-b-1-b Acquired: 11/1/2017 16:58:44 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006878	.1299789	.0100021	.0692556	.2996533	-.000275
Stddev	.0000285	.0209058	.0013721	.0005851	.0000449	.000115
%RSD	4.146703	16.08401	13.71767	.8448137	.0149748	41.78195
#1	.0007080	.1447616	.0109723	.0688419	.2996850	-.000193
#2	.0006676	.1151963	.0090319	.0696693	.2996216	-.000356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007324	94.94367	.0018945	.0336307	-.000341	.0081762
Stddev	.000801	.51167	.0002178	.0000393	.001419	.0000711
%RSD	10.93724	.5389245	11.49732	.1169397	416.0546	.8701537
#1	-.006757	95.30547	.0020485	.0336029	.000663	.0081258
#2	-.007890	94.58186	.0017405	.0336585	-.001345	.0082264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1842591	2.510971	.0072313	33.07327	4.878967	.0001781
Stddev	.0305800	.009804	.0004449	.33337	.024603	.0003270
%RSD	16.59620	.3904317	6.151846	1.007971	.5042582	183.6523
#1	.2058825	2.504038	.0069167	33.30900	4.896364	-.000053
#2	.1626358	2.517903	.0075458	32.83754	4.861570	.000409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136480-b-1-b Acquired: 11/1/2017 16:58:44 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1262.720	.0180666	-.001350	.0016443	.0074744	7.018418
Stddev	8.057	.0014195	.001134	.0017718	.0004592	.092998
%RSD	.6380976	7.857264	84.03746	107.7487	6.143329	1.325049
#1	1268.417	.0170629	-.002152	.0028972	.0071497	6.952659
#2	1257.022	.0190704	-.000548	.0003915	.0077991	7.084177
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1000.000					
Low Limit	-1.00000					

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022248	.1961325	.0028230	-.006229	.0012676	.0446700
Stddev	.0014052	.0020540	.0003130	.000292	.0005211	.0004024
%RSD	63.16072	1.047253	11.08824	4.695887	41.10631	.9007492
#1	.0012312	.1975849	.0026016	-.006436	.0008992	.0443855
#2	.0032185	.1946801	.0030443	-.006022	.0016361	.0449545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	925.4278	555.6247	3878.401	3496.626
Stddev	12.6596	7.4094	29.336	7.436
%RSD	1.367974	1.333527	.7563872	.2126545
#1	934.3795	560.8640	3857.658	3491.368
#2	916.4761	550.3855	3899.145	3501.883

Sample Name: CCV Acquired: 11/1/2017 17:02:49 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4968442**	**50.14473**	**.4927205**	**.4771288**	**.4691490**	**.4872724**	**.5126398**
Stddev	.0004600	1.44621	.0016399	.0010040	.0120208	.0136768	.0011572
%RSD	.0925935	2.884080	.3328250	.2104244	2.562259	2.806812	.2257348
#1	.4965190	49.12210	.4938801	.4778387	.4606490	.4776014	.5134580
#2	.4971696	51.16736	.4915610	.4764189	.4776490	.4969433	.5118215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.57069**	**.4784650**	**.5125039**	**.4940207**	**.5056987**	**25.40055**	**47.67589**
Stddev	.69542	.0010853	.0022481	.0007106	.0052716	.77217	1.02309
%RSD	2.830302	.2268248	.4386515	.1438319	1.042436	3.039984	2.145922
#1	24.07895	.4776976	.5140935	.4945231	.5019711	24.85454	46.95245
#2	25.06243	.4792324	.5109142	.4935182	.5094263	25.94656	48.39932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.761871**	**24.19017**	**4.709451**	**.4630426**	**24.54828**	**.5180255**	**.5024283**
Stddev	.078819	.60047	.140203	.0010110	.53904	.0009025	.0035110
%RSD	2.095211	2.482272	2.977056	.2183431	2.195845	.1742187	.6988033
#1	3.706138	23.76557	4.610312	.4623277	24.16712	.5186637	.5049109
#2	3.817605	24.61476	4.808589	.4637575	24.92944	.5173873	.4999456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 11/1/2017 17:02:49 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4696625	.4731210	.5080897	.5196809	.4799172	.4840944	.4662864
Stddev	.0049947	.0033527	.0008106	.0034321	.0035803	.0031712	.0026046
%RSD	1.063470	.7086324	.1595452	.6604199	.7460298	.6550846	.5585776
#1	.4661307	.4754918	.5086629	.5172541	.4773855	.4818520	.4681281
#2	.4731943	.4707503	.5075165	.5221077	.4824489	.4863368	.4644447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	4.906065	.5332933
Stddev	.024215	.0024383
%RSD	.4935656	.4572117
#1	4.888942	.5350174
#2	4.923187	.5315691
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1233.582	684.6837	4612.572	3842.119
Stddev	.143	2.4013	24.728	73.258
%RSD	.0115764	.3507103	.5361099	1.906704
#1	1233.481	686.3816	4630.057	3893.920
#2	1233.683	682.9857	4595.086	3790.318

Sample Name: CCB Acquired: 11/1/2017 17:06:41 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007721	.0088765	.0009329	.0019949	-.000572	-.000363	.0003830
Stddev	.0003960	.0005528	.0004202	.0002839	.000076	.000015	.0008411
%RSD	51.28846	6.228054	45.03825	14.23334	13.36747	4.062160	219.6307
#1	.0010520	.0092674	.0012300	.0017941	-.000518	-.000373	.0009777
#2	.0004921	.0084856	.0006358	.0021957	-.000626	-.000353	-.000212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.006238	.0003736	.0000594	-.001246	.0021797	.0252593	-.011117
Stddev	.000676	.0000843	.0000522	.000236	.0000973	.0523181	.007315
%RSD	10.83581	22.57294	88.00086	18.93408	4.462603	207.1244	65.79633
#1	-.006716	.0003140	.0000963	-.001413	.0021109	-.011735	-.005945
#2	-.005760	.0004332	.0000224	-.001079	.0022485	.062254	-.016290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011298	.0085671	.0000226	.0007933	.0593769	.0002996	.0032352
Stddev	.0000774	.0089565	.0000090	.0002824	.0021462	.0001607	.0015301
%RSD	6.849239	104.5445	39.79061	35.60095	3.614460	53.62949	47.29716
#1	.0011845	.0149003	.0000290	.0009930	.0608945	.0004132	.0043171
#2	.0010751	.0022340	.0000163	.0005936	.0578594	.0001860	.0021532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/1/2017 17:06:41 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006260	.0003436	.0009066	-.001234	.0000270	-.000179	.0000766
Stddev	.0013543	.0031204	.0010799	.000812	.0000016	.000008	.0020504
%RSD	216.3192	908.1474	119.1116	65.80168	5.769123	4.711370	2677.013
#1	.0015837	-.001863	.0001430	-.000660	.0000281	-.000185	-.001373
#2	-.000332	.002550	.0016702	-.001809	.0000259	-.000173	.001526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0007980	.0001264
Stddev	.0004803	.0005304
%RSD	60.19132	419.7708
#1	.0004583	-.000249
#2	.0011376	.000501
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1491.783	706.1390	4901.388	3874.719
Stddev	9.147	5.0724	35.400	69.618
%RSD	.6131336	.7183307	.7222410	1.796721
#1	1498.251	709.7257	4926.419	3923.946
#2	1485.315	702.5522	4876.356	3825.492

Sample Name: Ib2 500-407790/1-b Acquired: 11/1/2017 17:10:47 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005996	.0364176	.0058596	.0226053	.0011807	-.001022	-.004696
Stddev	.0006712	.0074650	.0027728	.0000503	.0000250	.000183	.001636
%RSD	111.9531	20.49823	47.31980	.2226306	2.114578	17.94389	34.83274
#1	.0010742	.0416961	.0078202	.0225698	.0011630	-.001152	-.005853
#2	.0001249	.0311391	.0038990	.0226409	.0011983	-.000893	-.003540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1384988	.0007104	-.000277	-.000403	.0061310	.0172293	.0143672
Stddev	.0011214	.0000816	.000135	.000128	.0000199	.0054148	.0061197
%RSD	.8096625	11.49184	48.66587	31.77397	.3249516	31.42780	42.59470
#1	.1377058	.0006526	-.000182	-.000494	.0061451	.0210581	.0186945
#2	.1392917	.0007681	-.000373	-.000313	.0061169	.0134005	.0100400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011256	.0374843	.0006677	.0002325	.5766418	-.001203	.0001766
Stddev	.0000225	.0066073	.0006451	.0001649	.0005241	.000456	.0012287
%RSD	2.003403	17.62681	96.62345	70.90475	.0908835	37.93331	695.6927
#1	.0011415	.0421564	.0002115	.0001160	.5770123	-.000880	-.000692
#2	.0011096	.0328123	.0011239	.0003491	.5762712	-.001526	.001045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lb2 500-407790/1-b Acquired: 11/1/2017 17:10:47 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016650	.0072476	.1230684	.0013583	.0002777	-.000060	-.007771
Stddev	.0013000	.0013406	.0019885	.0004036	.0000204	.000008	.001991
%RSD	78.08250	18.49749	1.615751	29.71603	7.351345	12.67733	25.62205
#1	.0025842	.0062997	.1216623	.0010729	.0002921	-.000066	-.009178
#2	.0007457	.0081956	.1244745	.0016437	.0002632	-.000055	-.006363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0006352	.0055101
Stddev	.0000586	.0001014
%RSD	9.228118	1.839359
#1	.0005937	.0054384
#2	.0006766	.0055817
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1449.259	675.6895	4807.886	3821.227
Stddev	10.328	6.2655	9.242	10.670
%RSD	.7126630	.9272814	.1922208	.2792356
#1	1456.562	680.1200	4814.421	3828.772
#2	1441.955	671.2591	4801.351	3813.682

Sample Name: 500-136468-a-1-d Acquired: 11/1/2017 17:14:51 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045246**	**13.54800**	**.0023392**	**.5379052**	**.5187924**	**.0070991**
Stddev	.0009323	.22461	.0014061	.2014014	.0046723	.0005984
%RSD	20.60522	1.657874	60.11057	37.44180	.9006212	8.429001
#1	.0051838	13.70682	.0013450	.6803175	.5220962	.0075222
#2	.0038654	13.38918	.0033335	.3954929	.5154885	.0066760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008827**	F **787.7903**	**.0465248**	**.0375453**	**.0041138**	**.1072919**
Stddev	.000176	4.4731	.0170697	.0122886	.0000298	.0011239
%RSD	1.995445	.5678027	36.68938	32.73000	.7240977	1.047501
#1	-.008703	784.6273	.0585949	.0462347	.0040927	.1080866
#2	-.008952	790.9532	.0344547	.0288560	.0041348	.1064972
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2265574**	**53.81542**	**.2580318**	**80.03052**	F **21.88403**	**.0793927**
Stddev	.0240890	.49430	.0023626	.62290	.16067	.0275835
%RSD	10.63264	.9185175	.9156048	.7783336	.7342034	34.74315
#1	.2095239	54.16494	.2597024	80.47098	21.99764	.0988971
#2	.2435909	53.46589	.2563612	79.59006	21.77041	.0598882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					20.00000	
Low Limit					-.010000	

Sample Name: 500-136468-a-1-d Acquired: 11/1/2017 17:14:51 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1292.173	.0928982	.1346165	.0015834	.0239086	45.94946
Stddev	1.823	.0291858	.0441903	.0032561	.0081372	17.27858
%RSD	.1410461	31.41697	32.82679	205.6367	34.03475	37.60344
#1	1293.462	.1135357	.1658637	.0038858	.0296625	58.16725
#2	1290.884	.0722607	.1033692	-.000719	.0181547	33.73166
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1000.000					
Low Limit	-1.00000					

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048684	1.757190	.0008405	-.001939	.0025206	*****
Stddev	.0005061	.007590	.0001809	.000228	.0001768	-----
%RSD	10.39569	.4319317	21.52642	11.78155	7.013877	-----
#1	.0052262	1.762557	.0009684	-.001777	.0023956	177.6621
#2	.0045105	1.751824	.0007126	-.002100	.0026456	-----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1007.042	648.9715	3820.058	3429.556
Stddev	208.191	140.2312	21.241	19.493
%RSD	20.67355	21.60823	.5560432	.5683899
#1	859.828	549.8131	3805.038	3415.772
#2	1154.255	748.1300	3835.078	3443.340

Sample Name: 500-136468-a-2-d Acquired: 11/1/2017 17:19:03 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033871	1.294579	.0007787	.5554548	.6613369	.0041702
Stddev	.0009729	.012680	.0038524	.0121356	.0004505	.0003156
%RSD	28.72295	.9794947	494.7044	2.184795	.0681220	7.567886
#1	.0026991	1.303546	.0035027	.5640359	.6610183	.0043934
#2	.0040750	1.285613	-.001945	.5468736	.6616555	.0039471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.011478	F 609.1088	.2760677	.0136901	.0080446	.0167662
Stddev	.000943	.1235	.0048911	.0000974	.0000508	.0009930
%RSD	8.218023	.0202693	1.771710	.7115929	.6319683	5.922683
#1	-.010811	609.0215	.2795262	.0136212	.0080086	.0174684
#2	-.012145	609.1961	.2726091	.0137590	.0080805	.0160641
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.342715	97.33803	.3955738	56.94472	12.58662	.1628325
Stddev	.064541	.10764	.0005241	.04950	.00336	.0028617
%RSD	1.930784	.1105790	.1324929	.0869295	.0266562	1.757454
#1	3.297078	97.26192	.3952032	56.97972	12.58425	.1648560
#2	3.388352	97.41414	.3959444	56.90971	12.58900	.1608089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136468-a-2-d Acquired: 11/1/2017 17:19:03 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1423.284	.0203731	.1606377	.0206570	.0217342	F 72.03629
Stddev	7.673	.0014927	.0027587	.0026735	.0005864	1.64016
%RSD	.5391103	7.326682	1.717323	12.94245	2.698100	2.276846
#1	1417.858	.0214286	.1625884	.0225474	.0221489	73.19605
#2	1428.709	.0193176	.1586871	.0187665	.0213196	70.87652
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	1000.000					50.00000
Low Limit	-1.00000					-.200000

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0564501	1.839834	.0162141	.0075896	.0466271	*****
Stddev	.0025296	.005074	.0001382	.0016664	.0002430	-----
%RSD	4.481166	.2758029	.8520280	21.95659	.5210717	-----
#1	.0546614	1.843422	.0163118	.0087679	.0467989	326.7062
#2	.0582389	1.836246	.0161165	.0064112	.0464553	-----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	876.1684	557.1417	3782.523	3363.733
Stddev	14.3914	11.8725	21.690	2.269
%RSD	1.642534	2.130968	.5734163	.0674620
#1	865.9921	548.7466	3767.186	3362.128
#2	886.3446	565.5369	3797.860	3365.337

Sample Name: 500-136471-a-1-c Acquired: 11/1/2017 17:23:07 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018685	.0140403	.0048159	27.93420	.2706024	-.000352
Stddev	.0016560	.0107806	.0013137	12.21228	.0010592	.000733
%RSD	88.63037	76.78303	27.27754	43.71801	.3914291	207.9788
#1	.0030395	.0064173	.0057448	36.56959	.2713514	.000166
#2	.0006975	.0216633	.0038870	19.29882	.2698534	-.000870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003737	F 2580.342	5.204428	.0019077	.0020189	.0762177
Stddev	.000076	39.758	2.245817	.0008257	.0005811	.0013906
%RSD	2.041669	1.540787	43.15204	43.28312	28.78345	1.824479
#1	-.003683	2552.229	6.792461	.0024915	.0016080	.0772010
#2	-.003791	2608.454	3.616396	.0013238	.0024298	.0752344
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		600.0000				
Low Limit		-.200000				

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1015295	358.6330	.4039464	86.51278	1.283338	.0229785
Stddev	.0817546	1.9150	.0020554	.10089	.000070	.0090936
%RSD	80.52306	.5339856	.5088303	.1166205	.0054318	39.57448
#1	.0437202	359.9871	.4053998	86.58412	1.283289	.0294087
#2	.1593387	357.2788	.4024930	86.44144	1.283387	.0165483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136471-a-1-c Acquired: 11/1/2017 17:23:07 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	724.7403	.0168605	.0138555	.0034088	.0124975	.6096106
Stddev	2.1339	.0086510	.0111127	.0013376	.0092806	.1682486
%RSD	.2944362	51.30918	80.20388	39.23969	74.25944	27.59936
#1	723.2314	.0229777	.0217134	.0024630	.0190598	.7285803
#2	726.2492	.0107433	.0059977	.0043547	.0059351	.4906408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029096	F 4.878938	F -.007537	.0114079	.0006798	.0911429
Stddev	.0023847	.022025	.000379	.0036410	.0006529	.0299882
%RSD	81.95960	.4514397	5.029213	31.91611	96.03976	32.90239
#1	.0045958	4.894513	-.007269	.0139824	.0002181	.1123478
#2	.0012234	4.863364	-.007805	.0088333	.0011415	.0699381
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		2.000000	5.000000			
Low Limit		-.005000	-.005000			

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	945.8402	591.9415	3524.548	3179.247
Stddev	222.0826	147.9103	19.562	2.817
%RSD	23.47993	24.98732	.5550205	.0886007
#1	788.8041	487.3531	3510.715	3177.255
#2	1102.876	696.5299	3538.380	3181.239

Sample Name: 500-136471-a-2-c Acquired: 11/1/2017 17:27:21 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004499	3.729961	.0130703	F 128.6128	.4862257	.0661226
Stddev	.0001377	.036774	.0025209	72.5850	.0024471	.0001678
%RSD	30.61269	.9859089	19.28753	56.43684	.5032876	.2536959
#1	.0005472	3.703958	.0148529	179.9381	.4844953	.0660040
#2	.0003525	3.755964	.0112877	77.2875	.4879561	.0662413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				50.00000		
Low Limit				-.050000		

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0254050	F 1091.889	F 10.57288	.0534934	-.000842	F 120.4619
Stddev	.0137297	36.043	5.87717	.0272428	.000710	.5874
%RSD	54.04335	3.301015	55.58716	50.92748	84.36020	.4876502
#1	.0351134	1066.403	14.72867	.0727569	-.000340	120.8773
#2	.0156966	1117.376	6.41710	.0342298	-.001344	120.0465
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit		600.0000	10.00000			20.00000
Low Limit		-.200000	-.002000			-.010000

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1963167	126.3443	.4583248	196.3457	5.955924	.0146990
Stddev	.0829378	.6819	.0011949	.9778	.028668	.0085758
%RSD	42.24696	.5397302	.2607027	.4980025	.4813293	58.34266
#1	.1376708	125.8622	.4574799	195.6543	5.935653	.0207629
#2	.2549626	126.8265	.4591696	197.0372	5.976195	.0086350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136471-a-2-c Acquired: 11/1/2017 17:27:21 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	566.3489	.3340089	6.184454	.0212327	.0142625	19.36753
Stddev	7.4337	.1738076	3.295879	.0144619	.0047833	11.12143
%RSD	1.312567	52.03681	53.29297	68.11117	33.53752	57.42305
#1	561.0925	.4569094	8.514992	.0314588	.0176448	27.23156
#2	571.6053	.2111084	3.853915	.0110067	.0108802	11.50349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0178952	1.811078	.0033311	F -.011016	.0006362	*****
Stddev	.0118205	.003228	.0002969	.002067	.0008426	-----
%RSD	66.05394	.1782134	8.911946	18.76798	132.4360	-----
#1	.0262535	1.813360	.0031212	-.012478	.0000404	346.4224
#2	.0095368	1.808796	.0035410	-.009554	.0012320	-----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				20.00000		
Low Limit				-.010000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1044.333	625.7803	3673.328	3307.687
Stddev	293.299	182.5551	16.158	17.917
%RSD	28.08479	29.17239	.4398791	.5416814
#1	836.940	496.6944	3661.902	3320.357
#2	1251.727	754.8662	3684.753	3295.018

Sample Name: lb3 500-407740/1-b Acquired: 11/1/2017 17:33:37 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008143	.0063875	.0008794	.1311683	-.000319	-.000646	-.005848
Stddev	.0001780	.0003547	.0032860	.0045217	.000069	.000043	.000018
%RSD	21.86440	5.553760	373.6744	3.447233	21.46529	6.680881	.3101283
#1	.0006884	.0061367	-.001444	.1343656	-.000271	-.000615	-.005860
#2	.0009402	.0066384	.003203	.1279710	-.000368	-.000676	-.005835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1157978	.0010591	-.000389	.0008763	.0061153	.1540205	.0404469
Stddev	.0011572	.0002144	.000371	.0010578	.0004492	.0158564	.0021393
%RSD	.9993130	20.24654	95.27700	120.7173	7.344855	10.29496	5.289097
#1	.1166161	.0009075	-.000651	.0001283	.0064329	.1428084	.0419596
#2	.1149796	.0012107	-.000127	.0016242	.0057976	.1652327	.0389342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008849	.0261853	.0024030	.0002174	.4582040	-.000861	-.000095
Stddev	.0000382	.0057021	.0002229	.0000506	.0067659	.001197	.000950
%RSD	4.320831	21.77596	9.276248	23.28652	1.476610	139.1313	999.7388
#1	.0008579	.0221533	.0022454	.0002532	.4629882	-.001707	.000577
#2	.0009120	.0302173	.0025606	.0001816	.4534198	-.000014	-.000767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lb3 500-407740/1-b Acquired: 11/1/2017 17:33:37 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009589	.0000200	.0311969	-.004149	.0002517	-.000255	-.003135
Stddev	.0010874	.0021504	.0006278	.000383	.0000085	.000154	.001684
%RSD	113.4096	10771.01	2.012272	9.223783	3.378408	60.19924	53.72571
#1	.0001899	.0015406	.0316408	-.004420	.0002457	-.000364	-.004326
#2	.0017278	-.001501	.0307530	-.003879	.0002577	-.000147	-.001944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0007217	.0234669
Stddev	.0002331	.0016724
%RSD	32.29497	7.126727
#1	.0005569	.0246495
#2	.0008865	.0222843
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1434.629	688.1522	4810.290	3795.759
Stddev	3.292	1.3559	9.436	14.286
%RSD	.2294420	.1970389	.1961636	.3763642
#1	1436.957	687.1935	4803.618	3785.658
#2	1432.302	689.1110	4816.962	3805.861

Sample Name: lcs 500-407814/2-a Acquired: 11/1/2017 17:37:39 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0484305	1.956571	.1008136	.9901157	.4876500	.0483137	-.002112
Stddev	.0008014	.016883	.0022275	.0007712	.0042038	.0003117	.002450
%RSD	1.654850	.8628891	2.209498	.0778906	.8620427	.6452444	115.9747
#1	.0478638	1.968509	.0992386	.9906610	.4906225	.0485341	-.000380
#2	.0489972	1.944633	.1023887	.9895704	.4846775	.0480933	-.003845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.730639	.0471645	.4869152	.2011958	.2574313	1.084633	9.665015
Stddev	.016295	.0002776	.0014045	.0010448	.0015826	.013070	.106256
%RSD	.1674642	.5884725	.2884417	.5193219	.6147648	1.205042	1.099386
#1	9.742161	.0469682	.4859221	.2004570	.2563123	1.075391	9.740150
#2	9.719116	.0473607	.4879083	.2019346	.2585504	1.093875	9.589881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009851	9.553989	.4823586	.9590753	10.04924	.4943456	.0932368
Stddev	.0000691	.063008	.0007843	.0035280	.09696	.0028514	.0007418
%RSD	7.014017	.6594947	.1625988	.3678565	.9648399	.5768065	.7955864
#1	.0009362	9.598542	.4829132	.9565806	10.11780	.4923294	.0927122
#2	.0010339	9.509435	.4818040	.9615700	9.98068	.4963619	.0937613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-407814/2-a Acquired: 11/1/2017 17:37:39 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4747241	.0889589	4.763610	.9537907	.9764185	.9772541	.0894824
Stddev	.0016506	.0042896	.014001	.0025506	.0056890	.0051350	.0006228
%RSD	.3476988	4.821969	.2939103	.2674130	.5826364	.5254508	.6960601
#1	.4758912	.0859257	4.753710	.9519872	.9723958	.9736231	.0899228
#2	.4735569	.0919921	4.773510	.9555942	.9804412	.9808851	.0890419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5030561	.4838669
Stddev	.0017165	.0018747
%RSD	.3412149	.3874405
#1	.5018424	.4825413
#2	.5042699	.4851925
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1322.657	668.7569	4644.991	3755.492
Stddev	.710	.0985	18.651	19.430
%RSD	.0537140	.0147341	.4015196	.5173663
#1	1322.155	668.8266	4658.179	3741.753
#2	1323.160	668.6872	4631.803	3769.231

Sample Name: 500-136480-e-2-c Acquired: 11/1/2017 17:41:33 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000186**	**45.88076**	**.0206985**	**.1282671**	**.2476572**	**.0014980**
Stddev	.000037	.58747	.0027329	.0026089	.0027495	.0004124
%RSD	19.92258	1.280435	13.20349	2.033939	1.110217	27.53147
#1	-.000160	45.46535	.0226309	.1264223	.2457130	.0017897
#2	-.000212	46.29616	.0187660	.1301118	.2496014	.0012064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.011199**	**14.29646**	**.0027693**	**.0191069**	**.1329169**	**.1052874**
Stddev	.001848	.19169	.0003587	.0000173	.0030613	.0028759
%RSD	16.49965	1.340799	12.95192	.0904357	2.303188	2.731442
#1	-.012506	14.16091	.0025157	.0191191	.1307522	.1032538
#2	-.009893	14.43200	.0030229	.0190946	.1350816	.1073209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**78.21087**	**10.13171**	**.0497148**	**12.21752**	**1.349687**	**.0100260**
Stddev	1.17018	.08427	.0002554	.10353	.014502	.0010614
%RSD	1.496184	.8317623	.5136453	.8474002	1.074507	10.58687
#1	77.38343	10.07212	.0495343	12.14431	1.339432	.0092755
#2	79.03831	10.19130	.0498954	12.29073	1.359942	.0107766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136480-e-2-c Acquired: 11/1/2017 17:41:33 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	226.0468	.0782781	.0211346	.0041316	.0076970	F 60.49016
Stddev	3.4482	.0003826	.0010589	.0015984	.0018881	.38073
%RSD	1.525420	.4887253	5.010518	38.68670	24.53042	.6294078
#1	223.6086	.0785486	.0203858	.0030014	.0063619	60.22095
#2	228.4850	.0780076	.0218834	.0052619	.0090320	60.75938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						50.00000
Low Limit						-.200000

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057912	.0363959	.3946884	-.004679	.0783403	.7901510
Stddev	.0006089	.0008611	.0100571	.003020	.0020484	.0029380
%RSD	10.51394	2.365848	2.548108	64.55140	2.614755	.3718232
#1	.0062218	.0357870	.3875770	-.006814	.0768918	.7880735
#2	.0053607	.0370048	.4017999	-.002543	.0797887	.7922284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1090.271	625.8839	4250.474	3770.789
Stddev	8.573	4.4578	65.048	22.626
%RSD	.7863096	.7122376	1.530371	.6000415
#1	1096.333	629.0361	4296.470	3786.788
#2	1084.209	622.7318	4204.478	3754.790

Sample Name: 500-136481-e-1-c @5 Acquired: 11/1/2017 17:45:35 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000568**	**.5607411**	**.0062773**	**.1238321**	**.0363946**	**.0000387**	**-.000864**
Stddev	.000313	.0076680	.0012685	.0020700	.0000965	.0001816	.000095
%RSD	55.11498	1.367481	20.20680	1.671582	.2650912	469.4325	10.95717
#1	-.000790	.5553190	.0053804	.1223685	.0364628	.0001671	-.000797
#2	-.000347	.5661632	.0071743	.1252958	.0363264	-.000090	-.000931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.401414**	**.0011617**	**.0023803**	**.0214167**	**.0119875**	**44.12050**	**2.371588**
Stddev	.019270	.0003711	.0000237	.0012745	.0000685	.25222	.008342
%RSD	.8024265	31.94389	.9940303	5.951112	.5714086	.5716706	.3517303
#1	2.415040	.0014242	.0023970	.0223180	.0120359	44.29885	2.365690
#2	2.387789	.0008993	.0023636	.0205155	.0119390	43.94215	2.377486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022721**	**.7282888**	**.2537966**	**.0028619**	**571.4734**	**.0332245**	**.0059249**
Stddev	.0003614	.0265239	.0017285	.0005246	.1365	.0010427	.0022153
%RSD	15.90448	3.641944	.6810629	18.33127	.0238792	3.138231	37.38903
#1	.0020166	.7095336	.2550188	.0024909	571.3769	.0324872	.0043585
#2	.0025276	.7470440	.2525743	.0032328	571.5699	.0339617	.0074913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136481-e-1-c @5 Acquired: 11/1/2017 17:45:35 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011592	.0066829	1.297375	.0018241	.0046955	.0203514	-.002664
Stddev	.0001511	.0044424	.010278	.0032366	.0000257	.0000408	.000497
%RSD	13.03133	66.47460	.7922148	177.4307	.5472580	.2004064	18.67453
#1	.0010524	.0098242	1.304642	-.000464	.0047137	.0203802	-.002312
#2	.0012661	.0035416	1.290107	.004113	.0046774	.0203225	-.003016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0029758	.0726825
Stddev	.0005162	.0003939
%RSD	17.34535	.5418947
#1	.0026108	.0724040
#2	.0033408	.0729610
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1092.408	627.6669	4184.450	3594.867
Stddev	16.912	15.7528	2.811	26.223
%RSD	1.548105	2.509732	.0671667	.7294481
#1	1080.449	616.5281	4182.463	3576.325
#2	1104.366	638.8058	4186.438	3613.409

Sample Name: 136481-e-1-c SD@25 Acquired: 11/1/2017 17:49:43 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008138**	**.1292325**	**.0012759**	**.0941548**	**.0068444**	**-.000408**	**-.001804**
Stddev	.0000006	.0106000	.0018140	.0019503	.0002204	.000157	.001250
%RSD	.0702364	8.202275	142.1728	2.071386	3.220778	38.52492	69.28649
#1	.0008142	.1367279	-.000007	.0955338	.0070003	-.000297	-.000920
#2	.0008134	.1217372	.002559	.0927757	.0066886	-.000519	-.002688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4813632**	**.0004699**	**.0010744**	**.0039374**	**.0064478**	**8.807935**	**.4746762**
Stddev	.0065578	.0003010	.0000310	.0005175	.0004428	.242948	.0085239
%RSD	1.362340	64.05391	2.887426	13.14458	6.867681	2.758290	1.795731
#1	.4860003	.0006827	.0010964	.0043033	.0061347	8.979725	.4807035
#2	.4767261	.0002570	.0010525	.0035714	.0067609	8.636145	.4686489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011898**	**.1344297**	**.0518213**	**.0001685**	**119.2491**	**.0083523**	**.0007313**
Stddev	.0000625	.0234513	.0010391	.0000130	2.9996	.0011186	.0011889
%RSD	5.256149	17.44504	2.005095	7.703125	2.515375	13.39335	162.5798
#1	.0012340	.1178471	.0525560	.0001593	121.3701	.0075613	.0015719
#2	.0011455	.1510123	.0510866	.0001777	117.1281	.0091433	-.000109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 136481-e-1-c SD@25 Acquired: 11/1/2017 17:49:43 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000048	.0062277	.3416488	-.000421	.0009888	.0041071	-.002330
Stddev	.001465	.0007414	.0009215	.000823	.0000285	.0001006	.003299
%RSD	3048.734	11.90493	.2697309	195.3579	2.878862	2.448312	141.6042
#1	.000988	.0057034	.3409971	-.001003	.0009686	.0040360	-.004663
#2	-.001084	.0067519	.3423004	.000161	.0010089	.0041782	.000003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0015423	.0146820
Stddev	.0004025	.0007804
%RSD	26.09996	5.315316
#1	.0018269	.0152339
#2	.0012576	.0141302
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1216.573	629.6572	4554.979	3757.293
Stddev	.350	.2742	80.478	58.463
%RSD	.0287587	.0435450	1.766807	1.555989
#1	1216.325	629.4633	4611.885	3715.954
#2	1216.820	629.8511	4498.073	3798.633

Sample Name: CCV Acquired: 11/1/2017 17:53:47 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5038678**	**51.26210**	**.5086972**	F **.5546766**	**.4836947**	**.4918462**
Stddev	.0016312	.04258	.0027575	.0018026	.0011910	.0007589
%RSD	.3237283	.0830609	.5420720	.3249738	.2462264	.1543048
#1	.5050212	51.23199	.5067474	.5559512	.4828526	.4913095
#2	.5027144	51.29220	.5106471	.5534020	.4845369	.4923828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value				.5000000		
Range				10.00000%		

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5194664**	**24.34024**	**.4862691**	**.5064751**	**.4907479**	**.5207366**
Stddev	.0015331	.26200	.0002689	.0000279	.0024431	.0034414
%RSD	.2951370	1.076402	.0552909	.0055065	.4978268	.6608630
#1	.5205505	24.52550	.4860790	.5064949	.4890204	.5231700
#2	.5183823	24.15498	.4864593	.5064554	.4924754	.5183032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.47486**	**49.89188**	**4.000184**	**24.71491**	**4.730262**	**.4692391**
Stddev	.27783	.21971	.038649	.05251	.020813	.0010435
%RSD	1.090601	.4403645	.9661841	.2124564	.4400058	.2223759
#1	25.67131	49.73653	3.972855	24.75203	4.744980	.4699769
#2	25.27840	50.04724	4.027513	24.67778	4.715545	.4685012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 11/1/2017 17:53:47 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.77546**	**.5123570**	**.5028321**	**.4825548**	**.4910135**	F **.5570254**
Stddev	.18314	.0039159	.0012215	.0033721	.0103221	.0012322
%RSD	.7105032	.7642917	.2429211	.6988056	2.102212	.2212135
#1	25.64596	.5151259	.5036958	.4801704	.4983123	.5578967
#2	25.90496	.5095880	.5019684	.4849393	.4837146	.5561541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.5000000
Range						10.00000%

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5185094**	**.4861625**	**.4863543**	**.4745034**	**4.912573**	**.5163489**
Stddev	.0021954	.0026120	.0012032	.0005636	.009280	.0030672
%RSD	.4234053	.5372695	.2473989	.1187698	.1889079	.5940202
#1	.5200617	.4880095	.4872052	.4749019	4.919135	.5185178
#2	.5169570	.4843155	.4855035	.4741049	4.906011	.5141801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1204.334**	**653.0922**	**4496.652**	**3743.377**
Stddev	2.399	1.2038	13.671	2.039
%RSD	.1992067	.1843295	.3040227	.0544742
#1	1202.638	653.9434	4486.985	3741.935
#2	1206.030	652.2410	4506.319	3744.819

Sample Name: CCB Acquired: 11/1/2017 17:57:39 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005604	-.008040	-.000572	F .0547431	-.000542	-.000297
Stddev	.0001698	.016071	.002364	.0009009	.000025	.000129
%RSD	30.30014	199.8791	413.2929	1.645709	4.652293	43.51781
#1	.0004404	.003323	-.002244	.0553802	-.000560	-.000389
#2	.0006805	-.019404	.001100	.0541061	-.000524	-.000206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				.0500000		
Low Limit				-.050000		

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004216	-.008759	.0004163	.0002968	-.000302	.0022943
Stddev	.0008848	.003410	.0000275	.0001610	.000295	.0000480
%RSD	209.8676	38.93601	6.597690	54.24620	97.59253	2.090131
#1	.0010473	-.011170	.0003969	.0004106	-.000094	.0023282
#2	-.000204	-.006347	.0004357	.0001830	-.000511	.0022604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0466645	-.013118	.0010175	-.011495	.0008008	.0006043
Stddev	.0477883	.013607	.0002249	.002177	.0004582	.0003193
%RSD	102.4081	103.7267	22.09965	18.93594	57.21975	52.84089
#1	.0804559	-.022739	.0011765	-.009956	.0004768	.0003785
#2	.0128731	-.003496	.0008585	-.013035	.0011248	.0008301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 11/1/2017 17:57:39 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0681404	-.000446	.0011690	-.000406	-.002988	.0178410
Stddev	.0044054	.000016	.0014149	.000669	.001080	.0014534
%RSD	6.465220	3.693132	121.0376	164.6748	36.14909	8.146596
#1	.0650252	-.000457	.0021695	.000067	-.003752	.0188687
#2	.0712554	-.000434	.0001685	-.000879	-.002224	.0168133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001301	.0000279	-.000126	-.000096	.0009895	.0001187
Stddev	.000793	.0000138	.000170	.000726	.0001018	.0000252
%RSD	60.98903	49.46546	134.4830	758.8341	10.29039	21.23332
#1	-.000740	.0000377	-.000246	.000418	.0010615	.0001365
#2	-.001861	.0000182	-.000006	-.000609	.0009175	.0001009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1468.207	685.7969	4834.761	3847.340
Stddev	1.653	.5484	20.020	6.583
%RSD	.1125836	.0799608	.4140895	.1711127
#1	1469.376	685.4092	4848.917	3851.995
#2	1467.038	686.1847	4820.604	3842.685

Sample Name: 136481-e-1-d du @5 Acquired: 11/1/2017 18:01:45 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004065	.6332315	.0050492	.0887469	.0403041	.0000135	-.002514
Stddev	.0007677	.0061163	.0009045	.0001848	.0004081	.0001086	.000999
%RSD	188.8595	.9658926	17.91312	.2082500	1.012689	804.3771	39.72526
#1	-.000136	.6289066	.0044097	.0888776	.0405927	.0000903	-.003220
#2	.000949	.6375564	.0056888	.0886162	.0400155	-.000063	-.001808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.660814	.0011444	.0027072	.0229521	.0131838	49.06924	2.618268
Stddev	.007114	.0001635	.0002658	.0011421	.0001859	.08529	.015677
%RSD	.2673782	14.28342	9.817212	4.975981	1.410151	.1738202	.5987398
#1	2.655783	.0012600	.0028951	.0237596	.0133153	49.12955	2.629353
#2	2.665844	.0010288	.0025192	.0221445	.0130523	49.00893	2.607183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020097	.7944497	.2826252	.0026138	629.8684	.0368911	.0073938
Stddev	.0003316	.0000470	.0015118	.0002963	4.4898	.0021897	.0008808
%RSD	16.49753	.0059159	.5349152	11.33498	.7128173	5.935484	11.91211
#1	.0017753	.7944830	.2815562	.0028233	633.0431	.0384395	.0067710
#2	.0022442	.7944165	.2836942	.0024043	626.6936	.0353428	.0080166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 136481-e-1-d du @5 Acquired: 11/1/2017 18:01:45 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007994	.0046201	1.269651	.0009105	.0054522	.0226487	-.003974
Stddev	.0036510	.0030547	.035208	.0004450	.0001015	.0000431	.001433
%RSD	456.7491	66.11745	2.773085	48.87974	1.861199	.1903023	36.05560
#1	.0033810	.0067801	1.294547	.0012252	.0055240	.0226182	-.002961
#2	-.001782	.0024601	1.244755	.0005958	.0053805	.0226792	-.004987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0037568	.0726598
Stddev	.0002095	.0004266
%RSD	5.575251	.5871313
#1	.0039049	.0723581
#2	.0036087	.0729614
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1081.946	626.4976	4134.325	3567.212
Stddev	30.028	24.2996	25.819	13.785
%RSD	2.775388	3.878642	.6245109	.3864400
#1	1060.713	609.3152	4116.068	3557.465
#2	1103.179	643.6800	4152.582	3576.960

Sample Name: 136481-e-1-e ms @5 Acquired: 11/1/2017 18:05:53 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0113188	1.047979	.0259627	.2785252	.1386143	.0106509	-.000672
Stddev	.0008623	.007449	.0021144	.0019922	.0008403	.0000727	.001456
%RSD	7.618528	.7108206	8.144074	.7152830	.6062133	.6829631	216.5072
#1	.0119285	1.053247	.0274578	.2771164	.1392085	.0105994	.000357
#2	.0107090	1.042712	.0244676	.2799339	.1380201	.0107023	-.001702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.731081	.0119651	.1100891	.0661059	.0700328	48.92569	4.614034
Stddev	.039732	.0001349	.0000205	.0020023	.0005096	.21011	.013676
%RSD	.8397977	1.127736	.0186268	3.028926	.7276613	.4294422	.2963951
#1	4.759175	.0120605	.1100746	.0675218	.0696724	49.07426	4.623704
#2	4.702986	.0118697	.1101036	.0646901	.0703931	48.77712	4.604363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020771	2.743608	.3803644	.1919848	624.4415	.1458262	.0247855
Stddev	.0001366	.008998	.0036683	.0000780	6.7470	.0022164	.0009686
%RSD	6.574442	.3279760	.9644211	.0406393	1.080486	1.519894	3.907885
#1	.0019805	2.749971	.3829583	.1919296	629.2124	.1442590	.0241006
#2	.0021737	2.737245	.3777705	.1920399	619.6707	.1473934	.0254704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 136481-e-1-e ms @5 Acquired: 11/1/2017 18:05:53 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1001820	.0214461	2.248134	.2111516	.1995851	.2164853	.0158094
Stddev	.0025882	.0004546	.019470	.0041712	.0012340	.0018331	.0027816
%RSD	2.583507	2.119930	.8660599	1.975474	.6183016	.8467697	17.59449
#1	.0983519	.0211246	2.234366	.2082020	.2004577	.2177816	.0177763
#2	.1020122	.0217676	2.261901	.2141011	.1987125	.2151891	.0138425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.1094862	.1871683
Stddev	.0008114	.0003695
%RSD	.7411276	.1974014
#1	.1100599	.1874296
#2	.1089124	.1869070
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1069.294	618.4275	4203.147	3579.694
Stddev	10.478	7.1631	4.700	4.514
%RSD	.9799249	1.158272	.1118199	.1261014
#1	1076.703	623.4925	4206.470	3576.502
#2	1061.884	613.3624	4199.823	3582.885

Sample Name: mb 500-407850/1-a Acquired: 11/1/2017 18:11:56 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008767	.0094085	.0035004	.0391437	-.000482	-.000539	-.006898
Stddev	.0000297	.0049983	.0017805	.0014183	.000064	.000303	.000182
%RSD	3.382562	53.12600	50.86673	3.623349	13.25881	56.24318	2.633975
#1	.0008557	.0129428	.0047594	.0401466	-.000437	-.000753	-.007026
#2	.0008977	.0058741	.0022414	.0381408	-.000527	-.000325	-.006769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0251104	.0005720	.0000310	-.000813	.0026443	-.013725	.0070669
Stddev	.0050128	.0000119	.0000026	.000218	.0000565	.037869	.0047843
%RSD	19.96313	2.074923	8.387068	26.81955	2.135557	275.9196	67.70124
#1	.0215658	.0005636	.0000292	-.000967	.0026044	.013053	.0104499
#2	.0286549	.0005804	.0000329	-.000658	.0026842	-.040503	.0036838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009990	.0001609	.0003343	.0003051	.1385222	-.000815	-.001378
Stddev	.0003291	.0258448	.0001387	.0000071	.0027298	.000606	.001587
%RSD	32.93921	16065.86	41.47532	2.325795	1.970638	74.37150	115.2106
#1	.0007663	.0184359	.0002363	.0003001	.1404524	-.000386	-.002500
#2	.0012317	-.018114	.0004324	.0003101	.1365919	-.001244	-.000255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-407850/1-a Acquired: 11/1/2017 18:11:56 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022429	.0028313	.0175556	-.002696	.0002961	-.000082	-.003509
Stddev	.0001758	.0008703	.0011930	.001191	.0000010	.000064	.000103
%RSD	7.837121	30.73725	6.795486	44.17774	.3476783	78.24189	2.926267
#1	.0023672	.0022159	.0183991	-.003538	.0002954	-.000127	-.003436
#2	.0021186	.0034466	.0167120	-.001854	.0002968	-.000036	-.003582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0008849	.0025906
Stddev	.0001806	.0002619
%RSD	20.40271	10.10887
#1	.0007573	.0027757
#2	.0010126	.0024054
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1439.863	686.2210	4859.437	3807.751
Stddev	5.580	3.7443	26.440	3.645
%RSD	.3875427	.5456451	.5440857	.0957286
#1	1443.808	688.8687	4878.132	3805.174
#2	1435.917	683.5734	4840.741	3810.329

Sample Name: lcs 500-407850/2-a Acquired: 11/1/2017 18:15:58 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0475424	1.944765	.0970340	.9037607	1.917329	.0483215	.4800689
Stddev	.0026036	.004114	.0015366	.0081200	.006388	.0005782	.0056094
%RSD	5.476366	.2115518	1.583613	.8984695	.3331524	1.196625	1.168465
#1	.0493835	1.941856	.0981206	.8980190	1.921846	.0479127	.4761024
#2	.0457014	1.947675	.0959474	.9095024	1.912812	.0487304	.4840354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.732824	.0477067	.4834035	.1951882	.2558331	1.029076	9.696137
Stddev	.027726	.0006648	.0046282	.0026873	.0062072	.017302	.057303
%RSD	.2848694	1.393457	.9574265	1.376788	2.426253	1.681307	.5909910
#1	9.713219	.0472366	.4801308	.1970884	.2602222	1.041311	9.736657
#2	9.752429	.0481768	.4866761	.1932880	.2514440	1.016842	9.655617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4978480	9.518581	.4790517	.9628601	10.16059	.4948575	.0923325
Stddev	.0039234	.004589	.0000246	.0123800	.04726	.0049850	.0007634
%RSD	.7880731	.0482145	.0051459	1.285754	.4651021	1.007365	.8268085
#1	.5006223	9.521826	.4790691	.9541061	10.19401	.4913326	.0917927
#2	.4950738	9.515336	.4790342	.9716141	10.12718	.4983825	.0928723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-407850/2-a Acquired: 11/1/2017 18:15:58 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4749792	.0875896	4.838437	.9441143	.9472325	.9499742	.0892148
Stddev	.0045768	.0004958	.046277	.0010925	.0178791	.0186192	.0019773
%RSD	.9635836	.5660034	.9564486	.1157131	1.887510	1.959971	2.216378
#1	.4717429	.0879402	4.805715	.9448867	.9598750	.9631399	.0878166
#2	.4782155	.0872391	4.871160	.9433418	.9345901	.9368084	.0906130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.4969575	.4686903
Stddev	.0085884	.0038476
%RSD	1.728199	.8209188
#1	.5030304	.4659697
#2	.4908845	.4714110
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1316.998	662.9073	4677.479	3769.813
Stddev	6.558	5.3123	64.116	6.075
%RSD	.4979730	.8013676	1.370735	.1611436
#1	1321.635	666.6636	4632.142	3765.517
#2	1312.360	659.1509	4722.815	3774.108

Sample Name: 500-136532-d-1-a Acquired: 11/1/2017 18:19:50 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037914	10.71521	.0239233	.1594440	.4089271	-.000063	.0012741
Stddev	.0001175	.06183	.0035535	.0006841	.0012829	.000001	.0021060
%RSD	3.098569	.5770217	14.85388	.4290722	.3137108	1.531268	165.2939
#1	.0038745	10.75893	.0214106	.1589602	.4098342	-.000062	.0027633
#2	.0037083	10.67149	.0264360	.1599277	.4080199	-.000064	-.000215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	153.4714	.0058257	.0124250	.0978288	.8974177	53.84278	5.768317
Stddev	.5127	.0002007	.0002818	.0018567	.0002542	.10307	.010505
%RSD	.3340465	3.445837	2.268369	1.897873	.0283256	.1914339	.1821215
#1	153.8339	.0059676	.0122257	.0991416	.8972379	53.91566	5.775745
#2	153.1088	.0056837	.0126243	.0965159	.8975974	53.76989	5.760888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189358	44.39233	.4345222	.6457825	31.99883	.0502847	.3318018
Stddev	.0000474	.32216	.0043355	.0005881	.17739	.0004799	.0032066
%RSD	.2501153	.7257147	.9977566	.0910751	.5543710	.9542772	.9664103
#1	.0189023	44.62013	.4375879	.6461984	32.12427	.0499454	.3295344
#2	.0189693	44.16452	.4314566	.6453666	31.87340	.0506240	.3340691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136532-d-1-a Acquired: 11/1/2017 18:19:50 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0102268	.0137361	15.87668	.0388565	.2468409	.2000558	-.007831
Stddev	.0064043	.0004373	.03041	.0011669	.0001881	.0003062	.002809
%RSD	62.62249	3.183282	.1915216	3.003209	.0761909	.1530460	35.86263
#1	.0147554	.0140453	15.89818	.0396816	.2467080	.1998393	-.009817
#2	.0056983	.0134269	15.85517	.0380313	.2469739	.2002723	-.005845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0315789	1.910338
Stddev	.0000247	.017522
%RSD	.0783615	.9172369
#1	.0315614	1.897948
#2	.0315964	1.922728
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1155.270	624.6047	4359.731	3675.848
Stddev	1.040	3.7535	2.912	8.560
%RSD	.0900074	.6009343	.0667949	.2328659
#1	1156.005	621.9506	4361.790	3669.795
#2	1154.534	627.2588	4357.672	3681.900

Sample Name: 500-136532-d-1-a @10 Acquired: 11/1/2017 18:23:44 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008284	1.119274	.0014162	.0409235	.0429123	-.000568	-.001644
Stddev	.0001902	.021204	.0030350	.0003749	.0001986	.000155	.001769
%RSD	22.95992	1.894436	214.3057	.9161728	.4628106	27.23595	107.5959
#1	.0009628	1.134267	.0035623	.0411886	.0430528	-.000458	-.002896
#2	.0006939	1.104280	-.000730	.0406584	.0427719	-.000677	-.000393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.40831	.0008339	.0013339	.0095210	.0931449	5.851216	.6008165
Stddev	.01854	.0001233	.0011530	.0000389	.0006906	.049976	.0114333
%RSD	.1129946	14.78360	86.43997	.4082723	.7414347	.8541171	1.902964
#1	16.39520	.0009211	.0021491	.0095484	.0936332	5.815877	.6089011
#2	16.42142	.0007467	.0005186	.0094935	.0926565	5.886554	.5927319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027987	4.713073	.0476645	.0653207	3.378942	.0057599	.0333564
Stddev	.0001635	.023690	.0006395	.0013991	.031588	.0009485	.0000238
%RSD	5.840777	.5026509	1.341739	2.141945	.9348547	16.46792	.0712262
#1	.0026831	4.729824	.0481167	.0663100	3.401278	.0064306	.0333396
#2	.0029143	4.696321	.0472123	.0643314	3.356606	.0050892	.0333732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136532-d-1-a @10 Acquired: 11/1/2017 18:23:44 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005421	.0028989	1.637535	.0015977	.0263323	.0208757	-.000871
Stddev	.0002104	.0009825	.039154	.0012610	.0001542	.0000553	.000403
%RSD	38.81325	33.89073	2.391059	78.92365	.5854815	.2648667	46.30880
#1	.0006908	.0035936	1.665221	.0024894	.0264413	.0209148	-.000586
#2	.0003933	.0022042	1.609849	.0007061	.0262233	.0208367	-.001156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0043576	.1830004
Stddev	.0005980	.0020121
%RSD	13.72388	1.099480
#1	.0039347	.1844232
#2	.0047805	.1815777
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1375.555	670.6184	4792.819	3810.902
Stddev	4.331	.9232	9.060	3.423
%RSD	.3148216	.1376685	.1890229	.0898090
#1	1378.617	671.2713	4799.225	3813.322
#2	1372.493	669.9656	4786.413	3808.482

Sample Name: 500-136532-d-2-a Acquired: 11/1/2017 18:27:43 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007182	.0804597	.0024977	.1512936	.0313741	-.000638	-.008533
Stddev	.0000709	.0148071	.0021053	.0013363	.0001430	.000153	.000522
%RSD	9.867057	18.40316	84.28834	.8832211	.4556257	23.99589	6.114701
#1	.0007683	.0699895	.0039864	.1503488	.0312730	-.000529	-.008165
#2	.0006681	.0909300	.0010091	.1522385	.0314752	-.000746	-.008902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	51.02419	.0011869	-.000474	-.000078	.0082697	.3962109	5.414133
Stddev	.24502	.0001752	.000811	.000777	.0007252	.0027138	.008905
%RSD	.4801972	14.76380	171.2092	994.5715	8.769497	.6849496	.1644773
#1	51.19745	.0010630	-.001048	-.000627	.0087825	.3981298	5.420430
#2	50.85094	.0013108	.000100	.000471	.0077569	.3942919	5.407837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0121406	17.47480	.0405456	.0073409	71.71791	.0012126	-.000267
Stddev	.0002161	.01623	.0000707	.0002592	.10914	.0001103	.003108
%RSD	1.780334	.0929015	.1744556	3.530553	.1521825	9.095199	1165.658
#1	.0119878	17.48628	.0405956	.0075242	71.64074	.0012905	.001931
#2	.0122934	17.46332	.0404956	.0071576	71.79509	.0011346	-.002464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136532-d-2-a Acquired: 11/1/2017 18:27:43 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061458	.0040793	3.887772	-.001587	.1858218	.0036222	-.004441
Stddev	.0013471	.0017786	.036901	.001099	.0006076	.0000983	.001016
%RSD	21.91879	43.60066	.9491601	69.22961	.3269562	2.712771	22.88368
#1	.0051933	.0053369	3.861679	-.002364	.1862514	.0036916	-.005160
#2	.0070984	.0028216	3.913865	-.000810	.1853922	.0035527	-.003723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0012186	.0353477
Stddev	.0010877	.0000182
%RSD	89.25460	.0514827
#1	.0004495	.0353348
#2	.0019878	.0353605
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1206.906	626.5537	4417.515	3682.788
Stddev	3.267	2.9111	9.281	6.344
%RSD	.2706632	.4646159	.2100988	.1722497
#1	1209.216	628.6121	4410.952	3678.303
#2	1204.597	624.4952	4424.077	3687.274

Sample Name: 500-136516-a-1-a Acquired: 11/1/2017 18:31:43 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000059**	**.0802366**	**.0000752**	**.2550974**	**.1650569**	**-.000730**	**-.008908**
Stddev	.000151	.0024824	.0008389	.0086777	.0005551	.000166	.002443
%RSD	256.4178	3.093847	1116.159	3.401739	.3362927	22.79871	27.41986
#1	.000048	.0819919	.0006683	.2612335	.1646644	-.000612	-.007181
#2	-.000165	.0784812	-.000518	.2489613	.1654494	-.000848	-.010635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**94.34602**	**.0010902**	**-.000011**	**-.001665**	**.0073878**	**.5564207**	**5.767518**
Stddev	.82798	.0000553	.000218	.000432	.0001911	.0248730	.003947
%RSD	.8775957	5.077130	1964.613	25.95196	2.586795	4.470178	.0684362
#1	93.76055	.0011293	-.000165	-.001360	.0075229	.5740085	5.770309
#2	94.93149	.0010511	.000143	-.001971	.0072527	.5388328	5.764727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0346633**	**18.66271**	**.1890295**	**.0013510**	**147.9917**	**.0021280**	**-.002757**
Stddev	.0001282	.08933	.0009386	.0003793	.6803	.0020202	.000756
%RSD	.3699200	.4786364	.4965308	28.07228	.4596986	94.93335	27.42460
#1	.0347540	18.59955	.1883658	.0010828	147.5106	.0035564	-.003292
#2	.0345726	18.72588	.1896932	.0016192	148.4727	.0006995	-.002223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136516-a-1-a Acquired: 11/1/2017 18:31:43 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034619	.0073961	3.113842	-.001941	1.685963	.0020265	-.004529
Stddev	.0005694	.0066924	.092136	.002090	.001457	.0000868	.000219
%RSD	16.44614	90.48542	2.958913	107.6778	.0864010	4.283059	4.830708
#1	.0030594	.0121283	3.178992	-.003419	1.684933	.0020879	-.004683
#2	.0038645	.0026639	3.048692	-.000463	1.686993	.0019651	-.004374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0012496	.0081956
Stddev	.0002137	.0008750
%RSD	17.10044	10.67622
#1	.0014006	.0075769
#2	.0010985	.0088143
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1163.339	637.5608	4366.103	3676.679
Stddev	12.556	22.3418	2.791	9.526
%RSD	1.079313	3.504254	.0639194	.2590872
#1	1154.461	621.7628	4368.077	3683.415
#2	1172.218	653.3588	4364.130	3669.943

Sample Name: 500-136516-a-2-a Acquired: 11/1/2017 18:35:51 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment: 6010C

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002493**	**.0546463**	**.0012739**	**.4925655**	**.0460350**	**-.000546**
Stddev	.0005884	.0092578	.0001743	.1093697	.0044892	.000886
%RSD	236.0500	16.94133	13.68401	22.20408	9.751639	162.3097
#1	.0006653	.0481000	.0011506	.5699016	.0428607	-.001173
#2	-.000167	.0611925	.0013971	.4152295	.0492093	.000081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007356**	**156.9075**	**.0011039**	**-.000166**	**-.000168**	**.0116569**
Stddev	.001835	15.0538	.0003440	.000169	.000073	.0002912
%RSD	24.94948	9.594075	31.16740	101.4639	43.46521	2.497716
#1	-.008654	146.2628	.0013472	-.000286	-.000219	.0118628
#2	-.006058	167.5521	.0008606	-.000047	-.000116	.0114511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.842168**	**24.53121**	**.1707732**	**30.27559**	**.1079240**	**.0000539**
Stddev	.525011	2.15256	.0152231	2.82639	.0098476	.0001679
%RSD	8.986578	8.774779	8.914205	9.335554	9.124582	311.4488
#1	5.470929	23.00912	.1600089	28.27703	.1009607	.0001726
#2	6.213407	26.05330	.1815375	32.27415	.1148873	-.000065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136516-a-2-a Acquired: 11/1/2017 18:35:51 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment: 6010C

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	258.2796	.0006053	-.000858	.0016427	.0026983	6.307349
Stddev	17.3070	.0018448	.000787	.0024016	.0005789	1.421858
%RSD	6.700883	304.7842	91.67829	146.1995	21.45364	22.54289
#1	246.0417	.0019097	-.001415	-.000056	.0022890	7.312755
#2	270.5175	-.000699	-.000302	.003341	.0031077	5.301944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002272	F 2.959667	.0033892	-.004988	.0040286	.0685360
Stddev	.002340	.001065	.0001864	.001665	.0006581	.0088671
%RSD	102.9858	.0359852	5.498621	33.38609	16.33520	12.93782
#1	-.003926	2.960420	.0035210	-.003811	.0044940	.0748059
#2	-.000617	2.958914	.0032574	-.006166	.0035633	.0622660
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.000000				
Low Limit		-.005000				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1203.736	691.1725	4233.851	3466.160
Stddev	167.156	124.5076	26.087	228.785
%RSD	13.88645	18.01397	.6161568	6.600533
#1	1085.538	603.1323	4215.405	3627.935
#2	1321.933	779.2127	4252.298	3304.384

Sample Name: mb 500-407695/1-a Acquired: 11/1/2017 18:42:02 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010566	.0100208	-.001023	.0192405	-.000442	-.000673	-.005968
Stddev	.0001678	.0155245	.000444	.0000774	.000065	.000293	.001113
%RSD	15.88150	154.9237	43.42855	.4024085	14.77860	43.50187	18.65687
#1	.0009380	.0209983	-.000709	.0192953	-.000489	-.000880	-.006756
#2	.0011753	-.000957	-.001337	.0191858	-.000396	-.000466	-.005181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238120	.0007619	-.000477	-.000169	.0202138	.0226312	-.005651
Stddev	.0009008	.0000634	.000417	.000585	.0003386	.0128629	.004242
%RSD	3.782895	8.320649	87.46559	346.7833	1.674938	56.83688	75.06968
#1	.0244489	.0008068	-.000182	-.000582	.0204532	.0135358	-.002651
#2	.0231750	.0007171	-.000772	.000245	.0199744	.0317266	-.008651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007438	.0057086	-.000204	.0001570	.0969239	-.000570	.0028279
Stddev	.0003645	.0083334	.000610	.0007093	.0029936	.000642	.0013137
%RSD	49.00090	145.9808	299.4228	451.8280	3.088566	112.5479	46.45336
#1	.0010015	-.000184	.000227	-.000345	.0990407	-.000116	.0018990
#2	.0004861	.011601	-.000635	.000659	.0948072	-.001024	.0037568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-407695/1-a Acquired: 11/1/2017 18:42:02 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029358	-.000817	.0088689	-.001975	.0000962	-.000168	-.000872
Stddev	.0028176	.002482	.0003870	.002109	.0000071	.000075	.001726
%RSD	95.97438	303.6826	4.363019	106.7803	7.359905	44.88005	197.8134
#1	.0049282	-.002573	.0085953	-.000484	.0001012	-.000222	.000348
#2	.0009434	.000938	.0091425	-.003467	.0000912	-.000115	-.002093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0005419	.0106570
Stddev	.0006350	.0002227
%RSD	117.1685	2.089282
#1	.0000929	.0108145
#2	.0009909	.0104996
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1447.335	689.5897	4908.327	3856.650
Stddev	2.960	1.3923	11.129	.869
%RSD	.2044877	.2019089	.2267396	.0225308
#1	1449.428	690.5742	4900.458	3857.265
#2	1445.242	688.6051	4916.197	3856.036

Sample Name: CCV Acquired: 11/1/2017 18:46:07 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4988585**	**49.42553**	**.4896891**	**.4811643**	**.4604509**	**.4915385**	**.5091827**
Stddev	.0014059	1.06305	.0037802	.0017653	.0104440	.0094228	.0000343
%RSD	.2818170	2.150807	.7719501	.3668896	2.268218	1.916993	.0067432
#1	.4998526	50.17722	.4870162	.4799160	.4678359	.4982014	.5092070
#2	.4978644	48.67384	.4923621	.4824126	.4530658	.4848756	.5091585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.37925**	**.4753541**	**.5076689**	**.4972275**	**.5065476**	**25.20397**	**46.89436**
Stddev	.36600	.0032156	.0033014	.0005696	.0025061	.21801	1.08449
%RSD	1.501257	.6764595	.6503061	.1145555	.4947377	.8649631	2.312621
#1	24.63805	.4730803	.5053344	.4976303	.5083196	25.35813	47.66121
#2	24.12046	.4776278	.5100033	.4968247	.5047755	25.04982	46.12751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.721698**	**23.93759**	**4.663448**	**.4597876**	**24.57814**	**.5200352**	**.5122078**
Stddev	.091095	.40506	.081812	.0013072	.58081	.0039840	.0023204
%RSD	2.447668	1.692149	1.754320	.2842943	2.363099	.7660975	.4530109
#1	3.786111	24.22401	4.721298	.4588633	24.98883	.5172181	.5138486
#2	3.657284	23.65117	4.605598	.4607119	24.16745	.5228523	.5105671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 11/1/2017 18:46:07 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4651802	.4692607	.5030729	.5162159	.4680554	.4677178	.4715389
Stddev	.0032618	.0058309	.0003228	.0053109	.0013070	.0014436	.0002352
%RSD	.7011980	1.242561	.0641693	1.028810	.2792333	.3086446	.0498828
#1	.4628737	.4651377	.5033011	.5124605	.4689796	.4687386	.4717052
#2	.4674866	.4733837	.5028446	.5199712	.4671312	.4666971	.4713725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	4.895105	.5260537
Stddev	.012719	.0027709
%RSD	.2598265	.5267415
#1	4.904098	.5240944
#2	4.886111	.5280130
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1235.198	685.0230	4662.371	3844.676
Stddev	7.233	3.3952	10.420	56.771
%RSD	.5855777	.4956294	.2234882	1.476621
#1	1240.312	687.4237	4655.003	3804.533
#2	1230.083	682.6222	4669.739	3884.820

Sample Name: CCB Acquired: 11/1/2017 18:50:00 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000102**	**.0036908**	**.0035747**	**.0159152**	**-.000525**	**-.000437**	**-.000037**
Stddev	.000547	.0043107	.0010820	.0006934	.000023	.000174	.000560
%RSD	535.6658	116.7949	30.26848	4.356772	4.368414	39.79644	1496.577
#1	.000284	.0067389	.0043398	.0154249	-.000542	-.000560	.000358
#2	-.000489	.0006427	.0028096	.0164055	-.000509	-.000314	-.000433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009911**	**.0002805**	**.0003092**	**-.001276**	**.0012062**	**-.040860**	**-.006808**
Stddev	.000852	.0004126	.0001411	.000437	.0002183	.039684	.008966
%RSD	8.597193	147.1149	45.62110	34.27055	18.10058	97.12353	131.6960
#1	-.010514	.0005722	.0004089	-.001585	.0010518	-.012799	-.000468
#2	-.009309	-.000011	.0002095	-.000967	.0013605	-.068921	-.013148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007792**	**-.020027**	**.0004990**	**.0000777**	**.0396731**	**-.000985**	**.0007647**
Stddev	.0001500	.002492	.0009031	.0004800	.0010080	.000497	.0012797
%RSD	19.25322	12.44478	180.9828	617.5626	2.540737	50.45283	167.3474
#1	.0006731	-.021789	-.000140	-.000262	.0403859	-.001337	-.000140
#2	.0008853	-.018264	.001138	.000417	.0389604	-.000634	.001670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/1/2017 18:50:00 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000895	-.001523	-.001014	-.003488	.0000208	-.000026	-.001112
Stddev	.002617	.002158	.000169	.001946	.0000005	.000114	.001736
%RSD	292.5641	141.7277	16.66689	55.77017	2.251682	435.1692	156.1402
#1	-.002745	.000003	-.001133	-.002113	.0000205	-.000107	.000116
#2	.000956	-.003049	-.000894	-.004864	.0000212	.000055	-.002339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0007949	-.000356
Stddev	.0003290	.000094
%RSD	41.38947	26.40030
#1	.0010276	-.000289
#2	.0005623	-.000422
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1486.540	703.5489	4934.332	3990.674
Stddev	11.956	1.2638	21.313	135.576
%RSD	.8043041	.1796349	.4319385	3.397319
#1	1494.994	704.4425	4949.403	3894.807
#2	1478.085	702.6552	4919.261	4086.541

Sample Name: CCVL Acquired: 11/1/2017 18:54:06 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0051771**	**.1982693**	**.0115207**	**.0627617**	**.0090206**	**.0037197**	**.0481345**
Stddev	.0002032	.0025184	.0032292	.0004693	.0000144	.0002393	.0000195
%RSD	3.924222	1.270212	28.02995	.7477825	.1600678	6.433991	.0404317
#1	.0050334	.2000501	.0092373	.0624298	.0090104	.0035504	.0481482
#2	.0053207	.1964885	.0138041	.0630935	.0090308	.0038889	.0481207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1859664**	**.0023217**	**.0054059**	**.0097934**	**.0111878**	**.2275007**	**.4798564**
Stddev	.0009036	.0000360	.0001870	.0004588	.0001738	.0128557	.0071908
%RSD	.4859085	1.551022	3.458624	4.684683	1.553074	5.650852	1.498533
#1	.1853275	.0022963	.0055381	.0094690	.0110650	.2365911	.4849411
#2	.1866054	.0023472	.0052737	.0101178	.0113107	.2184103	.4747718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104344**	**.0914534**	**.0096450**	**.0097185**	**1.045594**	**.0102753**	**.0065540**
Stddev	.0001312	.0039124	.0004010	.0000865	.005257	.0008554	.0000058
%RSD	1.257590	4.278080	4.157588	.8902271	.5027520	8.324737	.0879767
#1	.0105272	.0886868	.0099285	.0097797	1.049312	.0096705	.0065581
#2	.0103416	.0942199	.0093614	.0096574	1.041877	.0108802	.0065499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCVL Acquired: 11/1/2017 18:54:06 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0196418	.0090581	.1970097	.0373897	.0049762	.0041910	.0102427
Stddev	.0012404	.0021114	.0008719	.0005908	.0000812	.0003398	.0000050
%RSD	6.314934	23.30990	.4425869	1.579993	1.631609	8.107366	.0486452
#1	.0205189	.0105511	.1963931	.0369720	.0049188	.0039508	.0102391
#2	.0187647	.0075651	.1976262	.0378074	.0050336	.0044313	.0102462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0054343	.0194900
Stddev	.0001628	.0003053
%RSD	2.994778	1.566493
#1	.0055494	.0192741
#2	.0053193	.0197059
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1469.192	699.3563	4924.341	3834.921
Stddev	.768	.2056	45.909	.096
%RSD	.0522446	.0294040	.9322795	.0024963
#1	1469.734	699.5017	4956.803	3834.854
#2	1468.649	699.2109	4891.879	3834.989

Sample Name: lcs 500-407695/2-a Acquired: 11/1/2017 18:58:09 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0485646	1.983864	.0977521	.8870235	1.953712	.0503934	.4896156
Stddev	.0003094	.005235	.0031079	.0061073	.002214	.0000744	.0050606
%RSD	.6369957	.2638885	3.179391	.6885144	.1133456	.1477219	1.033592
#1	.0483459	1.980162	.0955545	.8827050	1.955278	.0503407	.4860372
#2	.0487834	1.987566	.0999498	.8913420	1.952147	.0504460	.4931940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.00950	.0485939	.5006647	.2059601	.2634858	1.029649	9.811012
Stddev	.03400	.0001888	.0013137	.0013908	.0021112	.019446	.037081
%RSD	.3396626	.3886088	.2623931	.6752841	.8012643	1.888628	.3779509
#1	9.98546	.0484603	.4997357	.2069435	.2649787	1.015899	9.837232
#2	10.03354	.0487274	.5015936	.2049766	.2619929	1.043400	9.784792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5042504	9.706256	.4892022	.9847935	10.36794	.5144370	.0935787
Stddev	.0036258	.069281	.0009174	.0048480	.01940	.0046464	.0020816
%RSD	.7190373	.7137810	.1875400	.4922860	.1870862	.9032077	2.224406
#1	.5068142	9.755246	.4885535	.9813655	10.38165	.5111515	.0921068
#2	.5016866	9.657267	.4898510	.9882216	10.35422	.5177225	.0950506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-407695/2-a Acquired: 11/1/2017 18:58:09 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4796552	.0908717	4.866984	.9871547	.9707802	.9800380	.0924109
Stddev	.0096670	.0012429	.044836	.0068763	.0042349	.0034371	.0003574
%RSD	2.015414	1.367727	.9212227	.6965756	.4362357	.3507123	.3867875
#1	.4728196	.0899928	4.835280	.9822924	.9737747	.9824684	.0921581
#2	.4864909	.0917505	4.898688	.9920170	.9677857	.9776076	.0926636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5151452	.4841819
Stddev	.0027954	.0025720
%RSD	.5426514	.5312056
#1	.5171218	.4823632
#2	.5131685	.4860006
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1320.070	671.0531	4672.322	3772.297
Stddev	7.512	4.6483	13.556	4.550
%RSD	.5690238	.6926849	.2901362	.1206226
#1	1325.381	674.3400	4662.736	3775.515
#2	1314.758	667.7663	4681.908	3769.079

Sample Name: 500-136371-g-2-b Acquired: 11/1/2017 19:02:04 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008847	.1986849	.0042769	.2684714	.1805551	-.000089
Stddev	.0000330	.0029112	.0001940	.0582995	.0009974	.000439
%RSD	3.729271	1.465234	4.536712	21.71534	.5524065	491.9536
#1	.0009080	.1966263	.0041397	.3096954	.1798498	.000221
#2	.0008613	.2007434	.0044141	.2272475	.1812603	-.000400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009006	144.5197	.0014418	.0008830	.0018634	.0123457
Stddev	.002130	.1973	.0001550	.0002326	.0001218	.0008131
%RSD	23.65342	.1365002	10.75045	26.34627	6.534425	6.585810
#1	-.010512	144.6592	.0015514	.0010475	.0017773	.0117708
#2	-.007499	144.3802	.0013322	.0007185	.0019495	.0129206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1853651	39.08931	.0542064	16.67765	.2398155	.0044332
Stddev	.0627288	.14498	.0000704	.10623	.0001351	.0010922
%RSD	33.84071	.3708839	.1298863	.6369691	.0563493	24.63672
#1	.1410091	38.98679	.0542562	16.60253	.2399110	.0052055
#2	.2297210	39.19182	.0541566	16.75276	.2397199	.0036609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136371-g-2-b Acquired: 11/1/2017 19:02:04 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**150.6421**	**.0090737**	F **-.007133**	**.0030828**	**.0013328**	**19.14651**
Stddev	.5554	.0019380	.004787	.0010950	.0031957	4.14988
%RSD	.3686919	21.35829	67.11474	35.51934	239.7661	21.67435
#1	151.0348	.0104441	-.010518	.0023085	-.000927	22.08092
#2	150.2493	.0077034	-.003748	.0038570	.003593	16.21210
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			100.0000			
Low Limit			-.005000			

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000203**	**1.742133**	**.0086786**	**-.002940**	**.0047163**	**.0039303**
Stddev	.000391	.005956	.0001036	.001280	.0009741	.0001922
%RSD	193.0230	.3418830	1.193228	43.53035	20.65450	4.889076
#1	.000074	1.746345	.0087518	-.002035	.0054051	.0037945
#2	-.000480	1.737922	.0086054	-.003845	.0040275	.0040662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1229.428**	**681.9068**	**4232.341**	**3641.561**
Stddev	160.685	113.7176	40.882	1.884
%RSD	13.06991	16.67641	.9659527	.0517313
#1	1115.806	601.4964	4261.250	3642.893
#2	1343.049	762.3173	4203.433	3640.229

Sample Name: mb 500-407589/1-b Acquired: 11/1/2017 19:06:13 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005190**	**.0155891**	**.0004455**	**.0135222**	**-.000479**	**-.000726**	**-.006553**
Stddev	.0002997	.0131002	.0012340	.0003696	.000016	.000271	.000514
%RSD	57.75591	84.03445	276.9621	2.732986	3.341561	37.29717	7.836591
#1	.0007309	.0063259	-.000427	.0132608	-.000490	-.000534	-.006190
#2	.0003070	.0248523	.001318	.0137835	-.000467	-.000917	-.006917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0217733**	**.0005802**	**-.000663**	**-.001096**	**.0021644**	**-.029356**	**.0002259**
Stddev	.0002298	.0001575	.000579	.000320	.0004197	.003195	.0044529
%RSD	1.055562	27.14542	87.36208	29.23534	19.39082	10.88425	1971.337
#1	.0219359	.0006916	-.000253	-.000869	.0024611	-.027096	-.002923
#2	.0216108	.0004689	-.001072	-.001322	.0018676	-.031615	.003375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007005**	**.0056246**	**.0006654**	**.0002860**	**.0777435**	**-.002058**	**.0006184**
Stddev	.0003409	.0211353	.0006297	.0000336	.0018977	.000254	.0005690
%RSD	48.66863	375.7673	94.62471	11.75133	2.440975	12.34498	92.00601
#1	.0009416	.0205694	.0011107	.0003098	.0764017	-.001878	.0010208
#2	.0004594	-.009320	.0002202	.0002623	.0790854	-.002237	.0002161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-407589/1-b Acquired: 11/1/2017 19:06:13 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037317	.0017486	.0120357	-.002099	.0001025	-.000180	-.001811
Stddev	.0010060	.0019543	.0004947	.000036	.0000054	.000024	.001700
%RSD	26.95846	111.7602	4.110589	1.716093	5.285198	13.57842	93.86708
#1	.0030204	.0031305	.0116859	-.002124	.0000987	-.000163	-.000609
#2	.0044431	.0003668	.0123856	-.002073	.0001063	-.000198	-.003013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0002858	.0070002
Stddev	.0002075	.0001585
%RSD	72.60344	2.263949
#1	.0001391	.0068881
#2	.0004326	.0071122
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1429.081	676.8225	4844.474	3830.188
Stddev	19.714	8.0263	4.278	8.380
%RSD	1.379499	1.185883	.0883055	.2187899
#1	1443.021	682.4980	4841.449	3836.114
#2	1415.141	671.1471	4847.499	3824.263

Sample Name: 500-136407-d-1-b Acquired: 11/1/2017 19:10:17 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012552	.0292521	.0092241	.0145458	.3098350	-.000699	-.008246
Stddev	.0000551	.0056306	.0028148	.0006679	.0025974	.000183	.002219
%RSD	4.389456	19.24856	30.51539	4.591413	.8382996	26.17418	26.90566
#1	.0012942	.0332335	.0112145	.0150180	.3116716	-.000829	-.009815
#2	.0012162	.0252706	.0072338	.0140735	.3079984	-.000570	-.006677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.74335	.0010629	.0025659	-.000717	.0036014	14.20308	5.572887
Stddev	.07535	.0002651	.0002300	.000474	.0000772	.05651	.093541
%RSD	.5110993	24.94304	8.964747	66.06028	2.143879	.3978878	1.678507
#1	14.69007	.0012503	.0027286	-.001053	.0036560	14.24304	5.639031
#2	14.79663	.0008754	.0024033	-.000382	.0035468	14.16312	5.506743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011737	6.302669	1.227555	-.000174	88.08478	.0000880	.0006695
Stddev	.0002859	.091500	.001332	.000704	1.33618	.0018011	.0033971
%RSD	24.36109	1.451763	.1085339	405.0229	1.516926	2046.342	507.4307
#1	.0013759	6.367369	1.228497	-.000672	89.02960	.0013616	.0030716
#2	.0009715	6.237969	1.226613	.000324	87.13995	-.001186	-.001733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136407-d-1-b Acquired: 11/1/2017 19:10:17 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010220	.0007927	1.968933	-.001401	.1989248	.0002177	-.005016
Stddev	.0025200	.0062018	.013216	.001585	.0034121	.0000797	.002968
%RSD	246.5775	782.4007	.6712282	113.1328	1.715274	36.62687	59.17563
#1	-.000760	-.003593	1.978279	-.000280	.2013375	.0002741	-.002917
#2	.002804	.005178	1.959588	-.002522	.1965121	.0001613	-.007114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0025981	.0049838
Stddev	.0002025	.0008882
%RSD	7.793365	17.82179
#1	.0024549	.0043557
#2	.0027413	.0056118
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1233.024	641.9200	4530.779	3737.632
Stddev	7.658	4.7897	50.823	20.714
%RSD	.6210653	.7461460	1.121726	.5542099
#1	1227.609	638.5332	4494.842	3722.985
#2	1238.439	645.3068	4566.716	3752.279

Sample Name: 500-136407-d-4-b @5 Acquired: 11/1/2017 19:14:15 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001242**	**62.08136**	**.0082273**	**.0060292**	**.0086548**	**.0088077**
Stddev	.000130	.40608	.0002592	.0001168	.0000101	.0004428
%RSD	10.45559	.6541049	3.150565	1.936876	.1163845	5.027289
#1	-.001334	61.79422	.0084105	.0061118	.0086619	.0084946
#2	-.001150	62.36850	.0080440	.0059467	.0086477	.0091208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001771**	**20.50891**	**.0019228**	**.0251160**	**.0324810**	**.0847014**
Stddev	.000836	.06894	.0001414	.0005291	.0009434	.0008717
%RSD	47.19927	.3361284	7.352912	2.106664	2.904307	1.029172
#1	-.002363	20.46016	.0020227	.0247418	.0331480	.0840850
#2	-.001180	20.55765	.0018228	.0254901	.0318140	.0853178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.82899**	**3.642872**	**.0065999**	**6.104974**	**1.352981**	**.0005175**
Stddev	.07471	.028002	.0001626	.012217	.009805	.0008889
%RSD	.3272453	.7686823	2.464147	.2001159	.7247137	171.7598
#1	22.77616	3.623071	.0067149	6.096335	1.346048	-.000111
#2	22.88182	3.662672	.0064849	6.113613	1.359915	.001146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136407-d-4-b @5 Acquired: 11/1/2017 19:14:15 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1207.726	.0306025	.0702448	-.000917	.0007074	10.47617
Stddev	8.565	.0011402	.0035950	.000076	.0024050	.10545
%RSD	.7092089	3.725708	5.117807	8.257788	340.0015	1.006537
#1	1201.670	.0314087	.0727869	-.000864	.0024080	10.55073
#2	1213.783	.0297963	.0677028	-.000971	-.000993	10.40160
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1000.000					
Low Limit	-1.00000					

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003269	.2450380	.0007740	-.001097	.0977953	.0939969
Stddev	.0006708	.0012178	.0000572	.001687	.0006221	.0018382
%RSD	205.2264	.4969820	7.383897	153.8574	.6360806	1.955617
#1	-.000147	.2441769	.0008144	.000096	.0973554	.0952967
#2	.000801	.2458991	.0007336	-.002290	.0982352	.0926971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	970.3821	741.9870	4868.938	4203.322
Stddev	.0162	.2137	25.632	21.791
%RSD	.0016664	.0287959	.5264308	.5184299
#1	970.3707	741.8359	4887.062	4218.731
#2	970.3936	742.1381	4850.814	4187.913

Sample Name: 136407-d-4-b @100 Acquired: 11/1/2017 19:18:20 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007806	4.420997	.0020628	.0090063	.0001833	-.000059	.0004927
Stddev	.0005030	.043184	.0007198	.0000100	.0000024	.000424	.0005569
%RSD	64.43389	.9767959	34.89481	.1110460	1.329120	721.7476	113.0421
#1	.0011363	4.390461	.0025718	.0089993	.0001850	.000241	.0008865
#2	.0004250	4.451532	.0015538	.0090134	.0001816	-.000359	.0000989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.466304	.0006852	.0010216	.0014219	.0077298	1.683417	.2469202
Stddev	.019996	.0000287	.0003510	.0006187	.0003101	.001461	.0016441
%RSD	1.363682	4.185768	34.36105	43.51483	4.011599	.0867686	.6658577
#1	1.452165	.0006649	.0012698	.0009844	.0075105	1.682384	.2480828
#2	1.480443	.0007055	.0007734	.0018594	.0079490	1.684450	.2457576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011955	.4653962	.0987589	.0001252	93.01639	.0015595	.0039311
Stddev	.0003169	.0057121	.0001188	.0003751	.08833	.0008742	.0007977
%RSD	26.50502	1.227368	.1202440	299.5789	.0949625	56.05407	20.29179
#1	.0014196	.4613571	.0988429	.0003904	92.95393	.0021776	.0044951
#2	.0009715	.4694353	.0986750	-.000140	93.07885	.0009414	.0033670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 136407-d-4-b @100 Acquired: 11/1/2017 19:18:20 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002319	-.000682	.6595478	-.003322	.0181219	-.000006	.0010932
Stddev	.001930	.004853	.0812070	.000163	.0001742	.000071	.0002798
%RSD	83.19894	711.8102	12.31253	4.896888	.9613114	1161.693	25.59767
#1	-.000955	.002750	.7169698	-.003207	.0182450	-.000056	.0008954
#2	-.003684	-.004113	.6021257	-.003437	.0179987	.000044	.0012911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0079141	.0048595
Stddev	.0002531	.0000360
%RSD	3.197639	.7401655
#1	.0077351	.0048341
#2	.0080930	.0048849
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1305.653	693.5581	4761.676	3840.211
Stddev	1.310	6.9531	26.865	38.604
%RSD	.1003506	1.002533	.5641958	1.005261
#1	1306.579	698.4747	4780.673	3867.508
#2	1304.726	688.6415	4742.680	3812.913

Sample Name: 500-136407-d-5-b @5 Acquired: 11/1/2017 19:22:23 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000651**	**34.31093**	**.0065488**	**.0062639**	**.0074181**	**.0065384**	**-.000518**
Stddev	.0000634	.28814	.0016914	.0000978	.0000972	.0005981	.000471
%RSD	97.41768	.8397935	25.82738	1.561813	1.310467	9.148042	91.00684
#1	.0001100	34.51467	.0077448	.0063331	.0074868	.0061154	-.000851
#2	.0000203	34.10718	.0053528	.0061948	.0073493	.0069613	-.000185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.97217**	**.0017597**	**.0222550**	**.0089917**	**.0419898**	**28.49725**	**3.504893**
Stddev	.15694	.0001514	.0002369	.0003268	.0005991	.09427	.008314
%RSD	.7142793	8.601543	1.064350	3.634653	1.426767	.3307985	.2372057
#1	22.08314	.0018667	.0224225	.0092228	.0415661	28.56391	3.510772
#2	21.86119	.0016527	.0220875	.0087606	.0424134	28.43060	3.499015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042517**	**6.897176**	**1.519222**	**.0000661**	**483.6670**	**.0212709**	**.0301469**
Stddev	.0001709	.039573	.013099	.0001960	3.9478	.0038434	.0003022
%RSD	4.019081	.5737528	.8622170	296.3660	.8162324	18.06882	1.002395
#1	.0041309	6.925159	1.528484	-.000072	480.8754	.0185532	.0299332
#2	.0043726	6.869194	1.509959	.000205	486.4585	.0239886	.0303606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136407-d-5-b @5 Acquired: 11/1/2017 19:22:23 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001187	.0010037	6.586581	.0001561	.2610550	.0002406	.0002573
Stddev	.000634	.0003546	.054728	.0016548	.0001780	.0001179	.0011607
%RSD	53.35738	35.33162	.8309055	1060.042	.0681839	48.98258	451.0933
#1	-.000739	.0012545	6.625280	.0013262	.2611808	.0001573	-.000563
#2	-.001635	.0007530	6.547882	-.001014	.2609291	.0003239	.001078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0221256	.0683668
Stddev	.0013724	.0013524
%RSD	6.202777	1.978092
#1	.0230961	.0674106
#2	.0211552	.0693231
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1091.792	710.8602	4722.818	4027.882
Stddev	7.379	2.7440	18.082	5.461
%RSD	.6759000	.3860094	.3828581	.1355692
#1	1097.010	712.8005	4735.603	4024.021
#2	1086.574	708.9199	4710.032	4031.743

Sample Name: 500-136548-a-1-a Acquired: 11/1/2017 19:26:28 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170751	4.645004	.0693045	F -.086717	.0102037	F -.021111
Stddev	.0004195	.103398	.0016435	.000194	.0003938	.001113
%RSD	2.457087	2.225995	2.371470	.2239299	3.859588	5.270085
#1	.0167784	4.571891	.0681423	-.086579	.0099252	-.020324
#2	.0173717	4.718117	.0704667	-.086854	.0104822	-.021897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				50.00000		10.00000
Low Limit				-.050000		-.004000

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.061366	2.664511	.0599260	.2122228	6.586539	5.725418
Stddev	.009170	.042066	.0055669	.0006920	.016751	.074419
%RSD	14.94328	1.578760	9.289590	.3260593	.2543168	1.299793
#1	-.054882	2.634766	.0638624	.2117335	6.598384	5.778040
#2	-.067850	2.694257	.0559896	.2127121	6.574695	5.672796
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	5.000000					
Low Limit	-.050000					

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 8999.406	F -.986647	.0043431	3.667457	F 62.83623	2.563537
Stddev	219.359	.036073	.0001682	.105532	1.42957	.012971
%RSD	2.437481	3.656154	3.873604	2.877519	2.275080	.5059987
#1	8844.296	-.961139	.0042242	3.592835	61.82537	2.572709
#2	9154.516	-1.01215	.0044621	3.742079	63.84710	2.554365
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit	1000.000	1000.000			20.00000	
Low Limit	-.200000	-.500000			-.010000	

Sample Name: 500-136548-a-1-a Acquired: 11/1/2017 19:26:28 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.030434	.6194285	.0759414	F -.020088	F -.086966	5.024250
Stddev	.035196	.0223109	.0133539	.010273	.016777	.037625
%RSD	3.415693	3.601850	17.58449	51.13748	19.29207	.7488689
#1	1.005547	.6352047	.0853840	-.012824	-.098829	5.050855
#2	1.055322	.6036524	.0664987	-.027352	-.075102	4.997645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit				20.00000	20.00000	
Low Limit				-.020000	-.010000	

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4120131	.0211008	.6075614	F -.022483	.3913333	.1609913
Stddev	.0034767	.0002411	.0042750	.001341	.0108971	.0011565
%RSD	.8438442	1.142424	.7036354	5.966415	2.784603	.7183858
#1	.4095547	.0212713	.6105843	-.021534	.3990387	.1618091
#2	.4144716	.0209304	.6045385	-.023432	.3836279	.1601735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				20.00000		
Low Limit				-.010000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1060.632	456.7880	3479.758	3097.496
Stddev	5.391	3.4530	38.229	64.971
%RSD	.5082692	.7559329	1.098620	2.097533
#1	1056.820	454.3463	3452.726	3143.437
#2	1064.444	459.2296	3506.790	3051.554

Sample Name: 500-136548-a-1-a@100 Acquired: 11/1/2017 19:32:22 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008506	.0671788	.0036409	.0058801	-.000414	-.000438	.0002065
Stddev	.0000541	.0055121	.0005139	.0003373	.000056	.000520	.0009641
%RSD	6.359931	8.205070	14.11462	5.737042	13.41484	118.8001	466.9037
#1	.0008889	.0710764	.0040042	.0061186	-.000375	-.000070	-.000475
#2	.0008124	.0632811	.0032775	.0056416	-.000454	-.000806	.000888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0265732	.0001673	.0027845	.0759059	.0501903	98.86853	-.025361
Stddev	.0046905	.0001191	.0000523	.0001279	.0004977	.92646	.002975
%RSD	17.65141	71.16143	1.877249	.1685044	.9915686	.9370656	11.73141
#1	.0232565	.0002515	.0028215	.0758154	.0505422	99.52364	-.023257
#2	.0298900	.0000831	.0027475	.0759963	.0498384	98.21342	-.027465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008879	.0423876	.7663443	.0267139	.0357045	.0143198	.0023539
Stddev	.0000946	.0069694	.0085896	.0003948	.0001583	.0002429	.0043088
%RSD	10.65574	16.44201	1.120856	1.478050	.4432665	1.696222	183.0491
#1	.0008210	.0374595	.7724180	.0269931	.0355926	.0141481	.0054007
#2	.0009548	.0473157	.7602705	.0264347	.0358164	.0144916	-.000693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136548-a-1-a@100 Acquired: 11/1/2017 19:32:22 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000976	.0001407	.0647673	.0037119	.0002364	.0062899	.0007444
Stddev	.001166	.0020809	.0012796	.0024404	.0000082	.0000903	.0005361
%RSD	119.4450	1479.295	1.975608	65.74450	3.478620	1.434968	72.01664
#1	-.001801	.0016121	.0656720	.0019863	.0002422	.0063537	.0011235
#2	-.000152	-.001331	.0638625	.0054375	.0002306	.0062261	.0003653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0051787	.0027719
Stddev	.0009794	.0002204
%RSD	18.91261	7.950115
#1	.0058712	.0029277
#2	.0044861	.0026161
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1408.544	693.2082	4835.522	3828.902
Stddev	2.902	4.2263	8.044	23.822
%RSD	.2060638	.6096720	.1663507	.6221645
#1	1410.597	696.1967	4841.210	3812.057
#2	1406.492	690.2198	4829.834	3845.747

Sample Name: 500-136508-a-1-b Acquired: 11/1/2017 19:36:26 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002904	.0433056	.0059277	1.053125	.5698223	-.000378
Stddev	.0016925	.0117407	.0033033	.010422	.0001386	.000181
%RSD	582.7290	27.11138	55.72717	.9896157	.0243138	47.93129
#1	-.000906	.0350036	.0035919	1.045756	.5697243	-.000250
#2	.001487	.0516076	.0082635	1.060495	.5699202	-.000506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.008664	518.0296	.0013909	-.000979	-.000034	.0093314
Stddev	.004517	.0377	.0001708	.000555	.001458	.0010540
%RSD	52.13311	.0072849	12.28267	56.64885	4331.572	11.29507
#1	-.005470	518.0563	.0015117	-.000587	.000997	.0100766
#2	-.011857	518.0029	.0012701	-.001371	-.001065	.0085861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1016064	39.25084	.0708685	22.14224	.0018315	1.529639
Stddev	.0453524	.04651	.0006957	.15886	.0000058	.012080
%RSD	44.63544	.1185062	.9816474	.7174535	.3187869	.7897316
#1	.1336754	39.28373	.0703766	22.25457	.0018356	1.521097
#2	.0695373	39.21794	.0713604	22.02991	.0018273	1.538181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136508-a-1-b Acquired: 11/1/2017 19:36:26 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1467.315	.0072170	.0006310	.0271306	.0139511	9.019072
Stddev	9.678	.0004793	.0024755	.0014543	.0028089	.068262
%RSD	.6596025	6.640679	392.3162	5.360382	20.13404	.7568629
#1	1460.471	.0075559	-.001119	.0281590	.0159373	8.970803
#2	1474.159	.0068781	.002381	.0261023	.0119649	9.067341
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1000.000					
Low Limit	-1.00000					

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038727	.9733729	.0006469	F -.011132	.0073533	.0032179
Stddev	.0004793	.0063097	.0002164	.000147	.0008027	.0004624
%RSD	12.37713	.6482294	33.45880	1.321116	10.91569	14.37130
#1	.0035338	.9778345	.0007999	-.011028	.0067857	.0035449
#2	.0042117	.9689113	.0004938	-.011236	.0079209	.0028909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				20.00000		
Low Limit				-.010000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	885.9782	544.4616	3814.311	3379.709
Stddev	5.7157	1.8272	15.271	12.864
%RSD	.6451340	.3355944	.4003698	.3806238
#1	890.0198	545.7536	3803.512	3370.613
#2	881.9366	543.1696	3825.109	3388.806

Sample Name: CCV Acquired: 11/1/2017 19:40:30 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4966576**	**49.78107**	**.4934110**	**.4734428**	**.4650007**	**.4947796**	**.5108433**
Stddev	.0102799	.19663	.0081103	.0108325	.0020694	.0040350	.0130530
%RSD	2.069821	.3949976	1.643719	2.288031	.4450350	.8155061	2.555189
#1	.4893885	49.64203	.4876762	.4657831	.4635374	.4919265	.5016134
#2	.5039265	49.92011	.4991459	.4811026	.4664640	.4976328	.5200731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.41723**	**.4800120**	**.5101315**	**.4955529**	**.4990187**	**25.25900**	**47.62388**
Stddev	.14290	.0098190	.0053074	.0112726	.0081951	.13812	.18365
%RSD	.5852248	2.045575	1.040398	2.274746	1.642245	.5468051	.3856180
#1	24.31619	.4730689	.5063786	.4875820	.4932239	25.16134	47.49402
#2	24.51828	.4869551	.5138844	.5035239	.5048135	25.35667	47.75374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.810534**	**24.19646**	**4.684440**	**.4640428**	**24.98856**	**.5247576**	**.5127853**
Stddev	.012249	.13797	.026432	.0109307	.09596	.0091654	.0117811
%RSD	.3214381	.5702141	.5642519	2.355527	.3840246	1.746596	2.297481
#1	3.801873	24.09890	4.665749	.4563137	24.92071	.5182767	.5044548
#2	3.819195	24.29402	4.703130	.4717719	25.05642	.5312385	.5211159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 11/1/2017 19:40:30 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4642283	.4665194	.5132930	.5193995	.4681619	.4671861	.4738781
Stddev	.0117337	.0105258	.0111819	.0054137	.0098507	.0109416	.0118144
%RSD	2.527582	2.256236	2.178471	1.042301	2.104129	2.342012	2.493122
#1	.4559313	.4590765	.5053862	.5155714	.4611964	.4594493	.4655241
#2	.4725253	.4739622	.5211998	.5232275	.4751274	.4749230	.4822321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	4.838105	.5289850
Stddev	.096692	.0031604
%RSD	1.998555	.5974413
#1	4.769733	.5267503
#2	4.906477	.5312197
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1232.239	681.6574	4691.367	3810.503
Stddev	20.957	17.7513	61.110	5.913
%RSD	1.700688	2.604139	1.302605	.1551696
#1	1247.058	694.2094	4734.578	3814.684
#2	1217.421	669.1053	4648.155	3806.322

Sample Name: CCB Acquired: 11/1/2017 19:44:24 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004455	.0206662	.0006467	.0068576	-.000619	-.000640	.0003855
Stddev	.0003830	.0206705	.0043825	.0000640	.000015	.000272	.0004218
%RSD	85.97547	100.0212	677.6113	.9333419	2.400671	42.45810	109.4423
#1	.0007163	.0060499	.0037456	.0069029	-.000608	-.000448	.0006837
#2	.0001747	.0352825	-.002452	.0068123	-.000629	-.000832	.0000872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.010629	.0005028	.0005343	-.000202	.0014917	.0251271	-.002324
Stddev	.004352	.0001064	.0000233	.000181	.0000743	.0436528	.000715
%RSD	40.94821	21.16754	4.355504	89.85284	4.977747	173.7279	30.76495
#1	-.013706	.0004275	.0005507	-.000330	.0015442	.0559943	-.001818
#2	-.007551	.0005780	.0005178	-.000074	.0014392	-.005740	-.002829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016006	-.016577	-.000012	.0003606	.0677818	.0006808	.0000998
Stddev	.0000944	.015079	.000744	.0002515	.0008724	.0001315	.0039902
%RSD	5.899973	90.95988	6275.582	69.73538	1.287038	19.31169	3999.330
#1	.0016674	-.027240	-.000538	.0005384	.0671649	.0007737	-.002722
#2	.0015338	-.005915	.000514	.0001828	.0683987	.0005878	.002921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/1/2017 19:44:24 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001022**	**.0004296**	**.0044738**	**-.002513**	**.0000225**	**-.000192**	**.0022225**
Stddev	.000905	.0051748	.0004287	.002408	.0000175	.000132	.0004489
%RSD	88.58704	1204.608	9.583671	95.81691	77.77189	69.01685	20.19676
#1	-.001662	.0040888	.0047769	-.000810	.0000101	-.000285	.0025400
#2	-.000382	-.003230	.0041706	-.004216	.0000349	-.000098	.0019052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.0006258**	**.0000898**
Stddev	.0001792	.0000114
%RSD	28.63289	12.70387
#1	.0007526	.0000978
#2	.0004991	.0000817
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1481.450**	**695.5847**	**4922.423**	**3807.423**
Stddev	3.160	.5869	11.031	8.557
%RSD	.2132739	.0843788	.2241064	.2247399
#1	1483.685	695.1697	4930.224	3813.474
#2	1479.216	695.9998	4914.623	3801.373

Sample Name: CCVL Acquired: 11/1/2017 19:48:29 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0058750**	**.2004430**	**.0106122**	**.0543186**	**.0092245**	**.0035185**	**.0493186**
Stddev	.0012429	.0091579	.0014226	.0002189	.0000742	.0004960	.0008034
%RSD	21.15595	4.568845	13.40517	.4030033	.8044741	14.09718	1.629037
#1	.0049961	.2069186	.0116181	.0541638	.0092769	.0038693	.0487505
#2	.0067538	.1939674	.0096063	.0544733	.0091720	.0031678	.0498867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1901402**	**.0019984**	**.0049632**	**.0098257**	**.0117395**	**.2524346**	**.4579147**
Stddev	.0017059	.0000853	.0002005	.0001715	.0002415	.0230616	.0022197
%RSD	.8971736	4.266223	4.039596	1.745859	2.057372	9.135652	.4847446
#1	.1889340	.0020587	.0051050	.0097044	.0119103	.2687416	.4563451
#2	.1913465	.0019381	.0048214	.0099470	.0115687	.2361277	.4594843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0109430**	**.1016189**	**.0103279**	**.0096573**	**1.062107**	**.0107829**	**.0049077**
Stddev	.0000696	.0032018	.0003255	.0002498	.006745	.0009659	.0018430
%RSD	.6360066	3.150818	3.151234	2.587166	.6350287	8.958027	37.55339
#1	.0108938	.1038830	.0100978	.0094807	1.066876	.0100998	.0036045
#2	.0109923	.0993549	.0105580	.0098340	1.057338	.0114659	.0062109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCVL Acquired: 11/1/2017 19:48:29 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0181089	.0099755	.1978572	.0376573	.0049740	.0044856	.0088671
Stddev	.0003502	.0019042	.0005763	.0001598	.0000181	.0000115	.0002153
%RSD	1.933782	19.08912	.2912685	.4243404	.3642294	.2566049	2.427610
#1	.0183565	.0113221	.1982647	.0375444	.0049612	.0044775	.0087149
#2	.0178613	.0086290	.1974497	.0377704	.0049868	.0044938	.0090193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0059266	.0193024
Stddev	.0002002	.0001209
%RSD	3.377318	.6262159
#1	.0060682	.0193879
#2	.0057851	.0192169
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1480.693	706.1283	4940.757	3813.458
Stddev	1.896	1.6173	1.924	31.436
%RSD	.1280298	.2290320	.0389378	.8243514
#1	1482.034	707.2719	4939.397	3791.229
#2	1479.353	704.9848	4942.118	3835.687

Sample Name: 136508-a-1-b SD@5 Acquired: 11/1/2017 19:52:32 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008766	.0176889	.0044074	.2595095	.1281158	-.000603	-.001582
Stddev	.0011079	.0214171	.0009528	.0019426	.0003118	.000187	.001087
%RSD	126.3779	121.0768	21.61856	.7485567	.2433754	30.93077	68.72432
#1	.0000933	.0328331	.0050812	.2581359	.1283363	-.000735	-.000813
#2	.0016600	.0025447	.0037337	.2608832	.1278953	-.000471	-.002351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	117.0392	.0005358	.0002531	-.001372	.0044347	-.002873	8.424794
Stddev	.0246	.0000922	.0006055	.000473	.0005104	.024875	.032886
%RSD	.0209852	17.20567	239.2086	34.48763	11.51011	865.6849	.3903438
#1	117.0218	.0006010	-.000175	-.001037	.0040738	-.020462	8.448047
#2	117.0566	.0004706	.000681	-.001706	.0047956	.014716	8.401540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156987	5.006885	.0005871	.3525235	335.7554	.0027174	.0005712
Stddev	.0002358	.018751	.0001557	.0044462	5.0792	.0001672	.0004517
%RSD	1.501868	.3745003	26.51836	1.261248	1.512757	6.153791	79.07210
#1	.0158654	5.020144	.0004770	.3493796	332.1639	.0028356	.0002518
#2	.0155320	4.993626	.0006972	.3556675	339.3469	.0025991	.0008906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 136508-a-1-b SD@5 Acquired: 11/1/2017 19:52:32 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056968	.0022354	1.980429	-.001203	.2243457	.0007811	-.003740
Stddev	.0018132	.0003372	.014900	.000948	.0014725	.0003380	.001193
%RSD	31.82796	15.08400	.7523735	78.78760	.6563443	43.26828	31.90391
#1	.0044147	.0019970	1.969893	-.000533	.2253869	.0005421	-.004583
#2	.0069789	.0024739	1.990965	-.001873	.2233045	.0010201	-.002896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0011278	.0006974
Stddev	.0001734	.0000426
%RSD	15.37512	6.103738
#1	.0010052	.0007275
#2	.0012504	.0006673
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1081.966	605.2559	4320.058	3647.360
Stddev	15.248	10.0120	15.165	3.463
%RSD	1.409281	1.654179	.3510394	.0949467
#1	1092.748	612.3355	4309.335	3644.911
#2	1071.184	598.1763	4330.782	3649.809

Sample Name: 500-136508-a-1-c du Acquired: 11/1/2017 19:56:40 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000444**	**.0210578**	**.0065965**	**.9788664**	**.5335037**	**-.000574**
Stddev	.000669	.0137982	.0019424	.0147449	.0007948	.000471
%RSD	150.7942	65.52500	29.44568	1.506321	.1489759	82.00612
#1	-.000917	.0113011	.0079700	.9684402	.5340657	-.000907
#2	.000029	.0308146	.0052230	.9892926	.5329417	-.000241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008351**	**477.8457**	**.0010611**	**-.000461**	**.0002324**	**.0085139**
Stddev	.000680	.6462	.0002642	.001131	.0001432	.0003258
%RSD	8.141230	.1352265	24.89546	244.9809	61.63108	3.826178
#1	-.007870	477.3888	.0008743	-.001261	.0001311	.0082835
#2	-.008831	478.3026	.0012479	.000338	.0003336	.0087442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0673289**	**36.75327**	**.0672370**	**20.66815**	**.0020574**	**1.426443**
Stddev	.0003866	.01346	.0005451	.00364	.0001241	.020172
%RSD	.5742655	.0366266	.8106846	.0175992	6.031820	1.414121
#1	.0676023	36.74375	.0668516	20.66558	.0019696	1.412180
#2	.0670555	36.76279	.0676224	20.67072	.0021451	1.440707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136508-a-1-c du Acquired: 11/1/2017 19:56:40 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1362.460	.0044818	-.001122	.0269413	.0113426	8.335508
Stddev	31.560	.0008381	.002018	.0012631	.0023452	.123046
%RSD	2.316385	18.70117	179.7875	4.688471	20.67598	1.476172
#1	1340.144	.0050745	.000304	.0260481	.0130009	8.248502
#2	1384.777	.0038891	-.002549	.0278344	.0096843	8.422515
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1000.000					
Low Limit	-1.00000					

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002357	.9111866	.0005942	F -.011074	.0066503	.0054817
Stddev	.0046078	.0028748	.0002316	.005249	.0002193	.0001863
%RSD	1955.322	.3154952	38.97764	47.40236	3.297577	3.397674
#1	-.003023	.9132193	.0007579	-.007362	.0068054	.0056134
#2	.003494	.9091538	.0004304	-.014785	.0064953	.0053500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				20.00000		
Low Limit				-.010000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	897.5074	546.7336	3808.787	3396.355
Stddev	9.8035	4.9974	7.339	.789
%RSD	1.092306	.9140540	.1926882	.0232395
#1	904.4395	550.2673	3803.598	3396.913
#2	890.5752	543.1999	3813.977	3395.797

Sample Name: 500-136508-a-1-d ms Acquired: 11/1/2017 20:00:42 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0606693	2.141016	.1269403	1.967559	2.500305	.0527824
Stddev	.0014804	.015009	.0047128	.024341	.010956	.0000244
%RSD	2.440182	.7010305	3.712600	1.237121	.4381890	.0462765
#1	.0617161	2.151629	.1236078	1.950347	2.508052	.0527997
#2	.0596224	2.130402	.1302727	1.984770	2.492558	.0527651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6391295	545.1607	.0585182	.5376277	.1934990	.3054529
Stddev	.0105489	2.1226	.0005766	.0078114	.0015228	.0032383
%RSD	1.650510	.3893599	.9853575	1.452943	.7870012	1.060169
#1	.6316703	543.6598	.0581105	.5321042	.1945758	.3077427
#2	.6465887	546.6617	.0589259	.5431512	.1924222	.3031630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.255426	52.41798	.5883924	32.73565	.5025717	2.497682
Stddev	.001004	.36250	.0049257	.04075	.0026690	.025422
%RSD	.0799710	.6915614	.8371433	.1244782	.5310712	1.017825
#1	1.256135	52.67431	.5918754	32.70684	.5006845	2.479706
#2	1.254716	52.16166	.5849094	32.76447	.5044590	2.515658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136508-a-1-d ms Acquired: 11/1/2017 20:00:42 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1510.036	.5490787	.0960098	.5586646	.1121608	14.16531
Stddev	3.019	.0065581	.0043412	.0049825	.0072851	.16641
%RSD	.1999428	1.194386	4.521595	.8918680	6.495195	1.174764
#1	1507.901	.5444414	.0929401	.5551414	.1070095	14.04764
#2	1512.170	.5537160	.0990794	.5621878	.1173122	14.28298
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1000.000					
Low Limit	-1.00000					

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.077434	1.867778	.9447471	.0724647	.5054451	.5807581
Stddev	.016165	.008170	.0056667	.0001712	.0020583	.0044718
%RSD	1.500339	.4374402	.5998106	.2363256	.4072337	.7699905
#1	1.066004	1.873556	.9487540	.0725858	.5069006	.5775960
#2	1.088865	1.862001	.9407401	.0723437	.5039897	.5839201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	871.4747	543.2778	3853.562	3396.374
Stddev	12.4846	6.6498	27.606	13.102
%RSD	1.432579	1.224010	.7163774	.3857602
#1	880.3027	547.9799	3834.041	3387.109
#2	862.6468	538.5757	3873.082	3405.638

Sample Name: 500-136133-a-5-b Acquired: 11/1/2017 20:04:48 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012115	1.285123	.0433316	.0561080	.0506921	-.000083
Stddev	.0005752	.009476	.0039559	.0005065	.0002052	.000012
%RSD	47.48047	.7373709	9.129417	.9027214	.4048610	14.66571
#1	.0008047	1.278422	.0461288	.0557498	.0508372	-.000075
#2	.0016182	1.291824	.0405343	.0564661	.0505469	-.000092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024795	31.02473	.0031681	.1685872	.2557412	.7750065
Stddev	.0011973	.05207	.0000805	.0003382	.0010487	.0064301
%RSD	48.28726	.1678436	2.541369	.2006132	.4100679	.8296788
#1	.0033261	30.98791	.0031111	.1683481	.2564827	.7704598
#2	.0016329	31.06155	.0032250	.1688264	.2549997	.7795533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.14230	.0787161	.0015929	1.026593	1.752984	.0066304
Stddev	.10354	.0017194	.0000889	.032266	.004894	.0001522
%RSD	1.020860	2.184334	5.583942	3.143049	.2791884	2.296193
#1	10.21551	.0799319	.0015300	1.003777	1.756445	.0067381
#2	10.06909	.0775003	.0016558	1.049409	1.749524	.0065228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136133-a-5-b Acquired: 11/1/2017 20:04:48 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6780700**	**.4832713**	**12.25459**	**-.009066**	**.0860078**	**.9943614**
Stddev	.0144623	.0024435	.07706	.000359	.0048439	.0046413
%RSD	2.132867	.5056233	.6288641	3.961588	5.631929	.4667587
#1	.6882964	.4815434	12.20009	-.008812	.0825826	.9976432
#2	.6678436	.4849991	12.30908	-.009320	.0894329	.9910795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0675474**	**.1378292**	**.0073885**	F **-.038684**	**.0037078**	**6.449162**
Stddev	.0011907	.0004814	.0000877	.001946	.0000058	.062492
%RSD	1.762765	.3492645	1.186564	5.031527	.1565522	.9689928
#1	.0667055	.1374888	.0073266	-.037308	.0037119	6.404974
#2	.0683894	.1381696	.0074505	-.040061	.0037037	6.493351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				20.00000		
Low Limit				-.010000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1292.270**	**558.2908**	**4282.546**	**3771.599**
Stddev	1.768	.1699	23.740	9.567
%RSD	.1368480	.0304326	.5543359	.2536578
#1	1293.521	558.4109	4299.332	3764.834
#2	1291.020	558.1707	4265.759	3778.364

Sample Name: 500-136133-a-5-b @5 Acquired: 11/1/2017 20:08:46 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011841**	**.3084434**	**.0084898**	**.0190117**	**.0110237**	**-.000214**
Stddev	.0008095	.0030401	.0027951	.0001294	.0000400	.000215
%RSD	68.36344	.9856318	32.92241	.6806256	.3628585	100.2641
#1	.0017565	.3105931	.0065134	.0191032	.0110520	-.000366
#2	.0006117	.3062937	.0104662	.0189202	.0109954	-.000062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000789**	**7.573213**	**.0009675**	**.0402561**	**.0582778**	**.1820039**
Stddev	.000786	.046196	.0000194	.0008156	.0023299	.0028573
%RSD	99.64277	.6099908	2.009547	2.026080	3.997960	1.569917
#1	-.000233	7.540547	.0009813	.0408328	.0599254	.1840244
#2	-.001345	7.605878	.0009538	.0396794	.0566303	.1799835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.400981**	**.0095220**	**.0012306**	**.2490243**	**.4202701**	**.0012152**
Stddev	.032026	.0060284	.0000200	.0109471	.0023951	.0000676
%RSD	1.333862	63.31034	1.625616	4.395991	.5698831	5.561383
#1	2.423627	.0137848	.0012165	.2567651	.4185765	.0012630
#2	2.378335	.0052593	.0012448	.2412836	.4219636	.0011674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136133-a-5-b @5 Acquired: 11/1/2017 20:08:46 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2025051	.1164209	3.404970	-.000828	.0218243	.2157419
Stddev	.0014708	.0058198	.088979	.002906	.0024094	.0057622
%RSD	.7263230	4.998932	2.613198	350.9597	11.03979	2.670889
#1	.2035451	.1205361	3.467888	.001227	.0235280	.2198164
#2	.2014651	.1123057	3.342053	-.002883	.0201206	.2116674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0173845	.0320931	.0017599	F -.010325	.0009848	1.537820
Stddev	.0003594	.0005113	.0001858	.000049	.0003620	.035729
%RSD	2.067559	1.593182	10.55833	.4779889	36.75948	2.323324
#1	.0171303	.0324547	.0018914	-.010360	.0012408	1.563084
#2	.0176386	.0317316	.0016286	-.010290	.0007288	1.512556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				20.00000		
Low Limit				-.010000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1426.397	646.4792	4700.657	3835.255
Stddev	11.278	6.0963	37.186	.670
%RSD	.7906619	.9430034	.7910731	.0174724
#1	1418.422	642.1684	4674.363	3834.781
#2	1434.372	650.7899	4726.951	3835.729

Sample Name: 500-136390-a-1-b @20 Acquired: 11/1/2017 20:12:46 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040478	.3324122	.0185831	.2151857	.0011129	-.003912
Stddev	.0005955	.0255192	.0036391	.0003814	.0001389	.001147
%RSD	14.71123	7.676973	19.58264	.1772216	12.47922	29.31131
#1	.0044689	.3504570	.0160099	.2154553	.0012111	-.004722
#2	.0036268	.3143674	.0211563	.2149160	.0010147	-.003101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115819	10.01504	.0016334	.1277304	12.57666	.5053770
Stddev	.0057308	.13724	.0000877	.0014248	.17000	.0016706
%RSD	49.48089	1.370304	5.368259	1.115433	1.351742	.3305599
#1	.0156342	10.11208	.0016954	.1287378	12.69687	.5065582
#2	.0075296	9.91800	.0015714	.1267230	12.45645	.5041957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1515.763	.2720786	.0027561	3.608994	11.10631	4.465274
Stddev	21.844	.0032441	.0000761	.057042	.16040	.002730
%RSD	1.441106	1.192323	2.761393	1.580543	1.444215	.0611336
#1	1531.209	.2743725	.0028099	3.649328	11.21973	4.467204
#2	1500.317	.2697848	.0027023	3.568659	10.99289	4.463343
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	1000.000					
Low Limit	-.200000					

Sample Name: 500-136390-a-1-b @20 Acquired: 11/1/2017 20:12:46 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.93253**	**3.437659**	**.0197069**	**.0140676**	**-.006360**	**1.490192**
Stddev	.24251	.013181	.0028265	.0058354	.006782	.000286
%RSD	1.522122	.3834224	14.34284	41.48132	106.6415	.0192235
#1	16.10401	3.446980	.0217056	.0099414	-.001564	1.490394
#2	15.76105	3.428339	.0177082	.0181939	-.011155	1.489989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3134659**	**.0281517**	**.0750979**	**.0021052**	**.0785354**	F **81.98977**
Stddev	.0002494	.0001282	.0004991	.0011575	.0003587	.77548
%RSD	.0795551	.4553680	.6646113	54.98547	.4566851	.9458251
#1	.3136423	.0282423	.0754509	.0012867	.0787890	82.53812
#2	.3132896	.0280611	.0747450	.0029237	.0782818	81.44142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						20.00000
Low Limit						-.020000

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1168.208**	**538.8223**	**4267.740**	**3557.885**
Stddev	5.476	5.2662	2.524	37.269
%RSD	.4687922	.9773516	.0591388	1.047509
#1	1172.080	542.5461	4269.525	3531.532
#2	1164.335	535.0986	4265.956	3584.239

Sample Name: 500-136390-a-1-b@100 Acquired: 11/1/2017 20:17:42 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010746	.0835782	.0047853	.0484849	-.000269	-.001205	.0030419
Stddev	.0001395	.0077423	.0001206	.0005643	.000043	.000213	.0011643
%RSD	12.98242	9.263528	2.519724	1.163809	15.87595	17.70591	38.27358
#1	.0011733	.0890528	.0048706	.0480858	-.000299	-.001356	.0038652
#2	.0009759	.0781035	.0047000	.0488839	-.000239	-.001054	.0022187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.985754	.0001223	.0261134	2.527284	.0968931	290.6600	.0490094
Stddev	.025741	.0004711	.0000583	.038201	.0010515	1.3135	.0045177
%RSD	1.296268	385.2976	.2233111	1.511538	1.085163	.4519131	9.218025
#1	1.967553	.0004554	.0261546	2.554296	.0976366	289.7312	.0458149
#2	2.003955	-.000211	.0260721	2.500272	.0961496	291.5888	.0522038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012156	.6954925	2.180569	.8213712	3.023540	.7395719	.0050945
Stddev	.0000641	.0103054	.000030	.0003752	.038485	.0019577	.0024789
%RSD	5.269752	1.481743	.0013746	.0456852	1.272861	.2647097	48.65805
#1	.0011703	.7027796	2.180547	.8211059	3.050753	.7381876	.0068473
#2	.0012609	.6882055	2.180590	.8216365	2.996326	.7409562	.0033416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136390-a-1-b@100 Acquired: 11/1/2017 20:17:42 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002879	-.002471	.2863275	.0655407	.0054613	.0145352	.0015684
Stddev	.0004484	.000096	.0014711	.0006419	.0000498	.0000298	.0009521
%RSD	155.7800	3.872157	.5137814	.9794171	.9118405	.2052890	60.70695
#1	-.000029	-.002539	.2873678	.0659946	.0054965	.0145141	.0022417
#2	.000605	-.002404	.2852873	.0650868	.0054261	.0145562	.0008951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0155788	19.37214
Stddev	.0004530	.09800
%RSD	2.907733	.5058649
#1	.0158991	19.30284
#2	.0152585	19.44143
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1315.743	648.0153	4655.293	3765.664
Stddev	1.041	2.9825	13.755	5.491
%RSD	.0791288	.4602438	.2954654	.1458273
#1	1315.007	645.9063	4645.567	3761.781
#2	1316.479	650.1242	4665.020	3769.547

Sample Name: 136390-a-1-b @1000 Acquired: 11/1/2017 20:22:41 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006919**	**.0124488**	**.0022747**	**.0085325**	**-.000530**	**-.000787**	**-.000829**
Stddev	.0006571	.0079403	.0012534	.0002564	.000039	.000632	.000669
%RSD	94.97448	63.78317	55.09824	3.005324	7.376030	80.31484	80.71401
#1	.0002272	.0180635	.0013885	.0087138	-.000502	-.001233	-.000356
#2	.0011565	.0068342	.0031610	.0083511	-.000557	-.000340	-.001302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2077479**	**.0001245**	**.0025673**	**.2538568**	**.0108562**	**29.85032**	**-.003418**
Stddev	.0019186	.0000089	.0003012	.0015992	.0007213	.07715	.006033
%RSD	.9235290	7.124466	11.73190	.6299501	6.644413	.2584671	176.5054
#1	.2091046	.0001308	.0023543	.2549875	.0103462	29.79576	-.007684
#2	.2063913	.0001182	.0027803	.2527260	.0113663	29.90487	.000848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009522**	**.0888404**	**.2253509**	**.0833297**	**.3477872**	**.0746074**	**.0009011**
Stddev	.0000323	.0067182	.0003171	.0008206	.0022439	.0004213	.0000938
%RSD	3.387297	7.562095	.1407055	.9847832	.6451955	.5646462	10.40400
#1	.0009750	.0935909	.2255751	.0827494	.3493738	.0749053	.0009674
#2	.0009294	.0840899	.2251267	.0839099	.3462005	.0743095	.0008348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 136390-a-1-b @1000 Acquired: 11/1/2017 20:22:41 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002722	-.000970	.0314130	.0059323	.0005838	.0012990	.0010555
Stddev	.000280	.001608	.0016531	.0001300	.0000040	.0001337	.0016858
%RSD	10.27742	165.8229	5.262320	2.190881	.6876321	10.29119	159.7202
#1	-.002920	-.002107	.0302441	.0060242	.0005810	.0012045	.0022476
#2	-.002525	.000167	.0325819	.0058404	.0005866	.0013935	-.000137
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0020724	2.000383
Stddev	.0002476	.005865
%RSD	11.94993	.2931834
#1	.0018973	1.996236
#2	.0022475	2.004530
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1442.947	689.4094	4906.829	3796.061
Stddev	6.387	3.5108	10.310	16.981
%RSD	.4426306	.5092542	.2101127	.4473334
#1	1447.464	691.8920	4899.539	3808.069
#2	1438.431	686.9269	4914.119	3784.054

Sample Name: 500-136438-a-1-c Acquired: 11/1/2017 20:26:44 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012007	.1697822	.0014759	.4097404	.5502487	-.000695	-.005900
Stddev	.0002203	.0097601	.0014443	.0009783	.0000895	.000310	.001520
%RSD	18.34475	5.748625	97.86126	.2387672	.0162594	44.58150	25.76820
#1	.0010449	.1628808	.0004546	.4104322	.5501854	-.000476	-.004825
#2	.0013564	.1766837	.0024971	.4090486	.5503119	-.000914	-.006975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.182084	.0007630	-.000010	.0100053	.0206937	3.200310	19.74989
Stddev	.000827	.0001535	.000058	.0006779	.0001953	.087266	.06692
%RSD	.0699791	20.12146	557.9645	6.775709	.9435551	2.726785	.3388300
#1	1.182669	.0006544	-.000051	.0095259	.0208317	3.262016	19.70258
#2	1.181499	.0008715	.000030	.0104847	.0205556	3.138604	19.79721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014818	.2565874	.7350269	.0040025	2.280721	.0032946	.0020422
Stddev	.0000548	.0195510	.0014640	.0001507	.004596	.0013001	.0022895
%RSD	3.695662	7.619632	.1991742	3.765340	.2015269	39.46264	112.1091
#1	.0015205	.2427627	.7339917	.0038959	2.277471	.0042139	.0036612
#2	.0014431	.2704120	.7360621	.0041091	2.283971	.0023752	.0004233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136438-a-1-c Acquired: 11/1/2017 20:26:44 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032186	.0030779	.2740131	-.002954	.0097288	-.000016	-.005192
Stddev	.0017068	.0046186	.0009375	.000193	.0000236	.000045	.002979
%RSD	53.02896	150.0591	.3421223	6.543631	.2424800	285.2184	57.37430
#1	.0020117	-.000188	.2746760	-.003091	.0097455	.000016	-.007298
#2	.0044255	.006344	.2733502	-.002818	.0097121	-.000048	-.003086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0010525	.2906643
Stddev	.0004994	.0002449
%RSD	47.45312	.0842476
#1	.0006993	.2908375
#2	.0014056	.2904912
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1353.448	651.7457	4625.166	3709.079
Stddev	3.063	1.7072	23.204	5.922
%RSD	.2263223	.2619468	.5016991	.1596531
#1	1351.282	650.5385	4608.758	3713.267
#2	1355.614	652.9529	4641.574	3704.892

Sample Name: 500-136504-a-1-a Acquired: 11/1/2017 20:30:45 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009046	.0168664	2.390495	.0673581	.0617040	-.000272
Stddev	.0005939	.0033480	.066791	.0013794	.0000118	.000525
%RSD	65.65494	19.84992	2.794035	2.047899	.0190536	193.0720
#1	.0013246	.0144991	2.343266	.0663827	.0617123	-.000644
#2	.0004846	.0192338	2.437723	.0683335	.0616956	.000099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007410	134.0867	F -.008020	-.000468	.0062527	.0175653
Stddev	.000406	.5592	.000324	.000548	.0001693	.0001967
%RSD	5.479583	.4170173	4.034228	117.2350	2.707583	1.119632
#1	-.007123	133.6913	-.007792	-.000080	.0061329	.0174262
#2	-.007697	134.4821	-.008249	-.000855	.0063724	.0177043
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			10.00000			
Low Limit			-.002000			

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189737	4.815401	.0101129	31.35260	.0256614	.0008294
Stddev	.0171687	.009826	.0000437	.03524	.0001900	.0000256
%RSD	90.48691	.2040599	.4323768	.1124014	.7403332	3.087354
#1	.0068336	4.822349	.0100819	31.32768	.0257957	.0008113
#2	.0311137	4.808453	.0101438	31.37751	.0255270	.0008475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136504-a-1-a Acquired: 11/1/2017 20:30:45 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.692728**	**.0016953**	**-.001267**	**.1149160**	**.0001107**	**5.613385**
Stddev	.049338	.0002100	.001357	.0034809	.0012694	.151739
%RSD	.5090210	12.38960	107.1085	3.029098	1147.238	2.703166
#1	9.727615	.0015468	-.002227	.1124546	-.000787	5.506090
#2	9.657840	.0018438	-.000307	.1173774	.001008	5.720681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003130**	**.4090380**	**.0011246**	**-.003941**	**.0015451**	**.0137245**
Stddev	.001254	.0001996	.0000615	.001104	.0000268	.0000395
%RSD	40.04622	.0488018	5.466942	28.02687	1.733741	.2875609
#1	-.002244	.4088969	.0010811	-.003160	.0015640	.0137524
#2	-.004017	.4091792	.0011680	-.004722	.0015262	.0136966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1205.748**	**622.0687**	**4418.472**	**3663.359**
Stddev	22.563	14.1633	4.103	1.679
%RSD	1.871295	2.276813	.0928683	.0458422
#1	1221.702	632.0837	4421.373	3662.172
#2	1189.793	612.0537	4415.570	3664.547

Sample Name: CCV Acquired: 11/1/2017 20:34:46 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5001387**	**50.47409**	**.4971118**	**.4702897**	**.4736622**	**.5036619**	**.5040441**
Stddev	.0037602	.08632	.0066228	.0080135	.0001924	.0030421	.0021920
%RSD	.7518308	.1710228	1.332247	1.703959	.0406217	.6039880	.4348779
#1	.5027976	50.41305	.4924288	.4646232	.4737983	.5058130	.5024942
#2	.4974799	50.53513	.5017948	.4759561	.4735262	.5015108	.5055941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.41056**	**.4730079**	**.4965021**	**.4917583**	**.5068407**	**25.51528**	**48.66955**
Stddev	.16768	.0061377	.0043130	.0013332	.0035230	.14879	.00774
%RSD	.6868979	1.297595	.8686863	.2711065	.6950893	.5831420	.0159128
#1	24.52912	.4686679	.4934523	.4927010	.5093318	25.62049	48.66407
#2	24.29199	.4773480	.4995519	.4908155	.5043495	25.41007	48.67502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.933660**	**24.50378**	**4.712489**	**.4596395**	**25.50823**	**.5129020**	**.5039517**
Stddev	.006044	.03122	.021111	.0042994	.01161	.0056246	.0003460
%RSD	.1536585	.1273887	.4479707	.9353839	.0455218	1.096622	.0686507
#1	3.929386	24.48171	4.727416	.4565993	25.50002	.5089248	.5041963
#2	3.937934	24.52585	4.697561	.4626796	25.51644	.5168792	.5037070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 11/1/2017 20:34:46 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4637596	.4678574	.5045407	.5053781	.4749363	.4702447	.4663621
Stddev	.0085522	.0094605	.0093702	.0058582	.0040736	.0040377	.0062296
%RSD	1.844105	2.022096	1.857176	1.159169	.8577230	.8586332	1.335784
#1	.4577123	.4611678	.4979150	.5012357	.4778168	.4730998	.4619571
#2	.4698069	.4745470	.5111665	.5095204	.4720558	.4673897	.4707671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	4.829302	.5072842
Stddev	.051216	.0024523
%RSD	1.060526	.4834258
#1	4.865517	.5055501
#2	4.793087	.5090183
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1233.772	672.8314	4622.348	3771.600
Stddev	13.027	9.9392	32.461	6.488
%RSD	1.055895	1.477218	.7022606	.1720205
#1	1242.983	679.8594	4599.395	3767.012
#2	1224.560	665.8033	4645.302	3776.187

Sample Name: CCB Acquired: 11/1/2017 20:38:39 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005081**	**.0027130**	**.0012074**	**.0031849**	**-.000587**	**-.000586**	**-.000990**
Stddev	.0000060	.0049816	.0019548	.0000021	.000044	.000111	.001840
%RSD	1.173345	183.6187	161.8972	.0653567	7.573675	18.87190	185.8132
#1	.0005123	.0062356	-.000175	.0031863	-.000619	-.000508	-.002292
#2	.0005039	-.000810	.002590	.0031834	-.000556	-.000665	.000311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.009782**	**.0001415**	**.0001840**	**-.001809**	**.0009717**	**-.028449**	**-.001789**
Stddev	.000358	.0001629	.0002538	.000449	.0004595	.011856	.011753
%RSD	3.656804	115.1518	137.9237	24.81316	47.28388	41.67473	656.9772
#1	-.009529	.0000263	.0003635	-.002126	.0012966	-.036832	.006521
#2	-.010035	.0002567	.0000045	-.001491	.0006468	-.020066	-.010099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011580**	**.0084436**	**.0002932**	**.0000674**	**.0332178**	**.0002635**	**.0022513**
Stddev	.0001461	.0147815	.0000120	.0005609	.0004955	.0021787	.0015301
%RSD	12.61764	175.0607	4.081637	832.4128	1.491640	826.9131	67.96764
#1	.0012613	.0188957	.0003017	-.000329	.0335681	.0018040	.0011693
#2	.0010547	-.002008	.0002848	.000464	.0328674	-.001277	.0033332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/1/2017 20:38:39 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009170	.0007978	-.002007	-.003817	.0000152	-.000140	-.001384
Stddev	.0020394	.0037654	.000499	.001479	.0000150	.000148	.000921
%RSD	222.4040	471.9609	24.84928	38.73981	98.59123	105.8014	66.57708
#1	-.000525	.0034604	-.001654	-.002771	.0000259	-.000035	-.002035
#2	.002359	-.001865	-.002360	-.004862	.0000046	-.000245	-.000732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0006947	.0002185
Stddev	.0004036	.0004235
%RSD	58.10127	193.8444
#1	.0004093	-.000081
#2	.0009801	.000518
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1501.426	708.2080	4937.422	3825.465
Stddev	5.876	.6212	7.018	12.379
%RSD	.3913880	.0877142	.1421326	.3235852
#1	1497.271	707.7687	4942.385	3816.713
#2	1505.582	708.6472	4932.460	3834.218

Sample Name: 500-136504-a-1-a @10 Acquired: 11/1/2017 20:42:46 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009672**	**.0215632**	**.2869520**	**.0122691**	**.0071513**	**-.000390**	**-.003351**
Stddev	.0004652	.0005263	.0007267	.0000275	.0000586	.000415	.000774
%RSD	48.10214	2.440757	.2532395	.2242459	.8188774	106.5478	23.09349
#1	.0006382	.0219353	.2874659	.0122497	.0071099	-.000096	-.002804
#2	.0012962	.0211910	.2864382	.0122886	.0071927	-.000683	-.003898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.84179**	**-.000750**	**.0003224**	**.0000414**	**.0033540**	**-.013902**	**.5745905**
Stddev	.08980	.000012	.0004410	.0002956	.0007071	.004984	.0047176
%RSD	.5331859	1.550449	136.7812	714.6931	21.08289	35.85358	.8210348
#1	16.90528	-.000758	.0006342	-.000168	.0028540	-.010378	.5779264
#2	16.77829	-.000741	.0000106	.000250	.0038540	-.017427	.5712547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018978**	**3.908327**	**.0032063**	**.0008938**	**1.201460**	**-.000225**	**.0011784**
Stddev	.0000552	.026674	.0000017	.0000310	.000799	.000472	.0012329
%RSD	2.909931	.6824953	.0524498	3.472013	.0665311	209.2960	104.6278
#1	.0019369	3.889465	.0032075	.0008719	1.200895	.000108	.0020502
#2	.0018588	3.927188	.0032051	.0009158	1.202025	-.000559	.0003066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136504-a-1-a @10 Acquired: 11/1/2017 20:42:46 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0136320	.0015568	.6722130	-.002325	.0513252	.0000963	-.000612
Stddev	.0015411	.0009454	.0030296	.000693	.0002390	.0000927	.001210
%RSD	11.30475	60.72551	.4506889	29.81366	.4656816	96.28893	197.5984
#1	.0147216	.0022252	.6700707	-.001835	.0511562	.0000307	.000243
#2	.0125423	.0008883	.6743552	-.002815	.0514942	.0001619	-.001468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0005448	.0024455
Stddev	.0000234	.0001636
%RSD	4.302227	6.691642
#1	.0005614	.0023297
#2	.0005282	.0025612
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1412.808	686.0302	4788.934	3794.742
Stddev	21.007	14.3647	33.553	1.501
%RSD	1.486864	2.093887	.7006372	.0395530
#1	1427.662	696.1876	4812.659	3793.681
#2	1397.954	675.8728	4765.208	3795.804

Sample Name: 500-136504-a-2-a Acquired: 11/1/2017 20:46:50 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004911	.0260849	.6863872	.0795162	.0790456	-.000284	-.006130
Stddev	.0005328	.0208283	.0039781	.0007420	.0001760	.000330	.002784
%RSD	108.4860	79.84804	.5795666	.9331451	.2226457	116.3771	45.41147
#1	.0008679	.0113571	.6835743	.0789915	.0791700	-.000050	-.004162
#2	.0001144	.0408127	.6892002	.0800408	.0789211	-.000517	-.008098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	145.0555	-.001473	-.000369	.0134625	.0045890	.0628889	7.377481
Stddev	.3975	.000111	.000005	.0001741	.0000138	.0530072	.027612
%RSD	.2740520	7.549054	1.440718	1.293221	.3005935	84.28709	.3742703
#1	144.7744	-.001552	-.000365	.0135856	.0045988	.0254071	7.397005
#2	145.3366	-.001394	-.000372	.0133394	.0045793	.1003706	7.357956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073589	25.78953	.0627615	.0007229	7.798045	.0003587	-.003982
Stddev	.0001957	.01656	.0009306	.0003576	.039197	.0007081	.002051
%RSD	2.658653	.0642188	1.482775	49.47339	.5026555	197.4045	51.50609
#1	.0072206	25.80125	.0621035	.0004700	7.825762	.0008594	-.002532
#2	.0074973	25.77782	.0634196	.0009757	7.770328	-.000142	-.005432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136504-a-2-a Acquired: 11/1/2017 20:46:50 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0307439	.0059622	5.393374	-.002777	.8948999	.0007946	-.003361
Stddev	.0002453	.0058893	.041846	.000767	.0073746	.0001122	.001546
%RSD	.7980009	98.77783	.7758838	27.61779	.8240660	14.12159	45.99943
#1	.0309174	.0101265	5.363785	-.003319	.8896852	.0007153	-.004454
#2	.0305704	.0017978	5.422964	-.002234	.9001145	.0008740	-.002268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0007884	.0075101
Stddev	.0000843	.0006406
%RSD	10.69649	8.530064
#1	.0007287	.0070571
#2	.0008480	.0079631
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1204.839	630.3085	4455.811	3648.812
Stddev	4.670	3.5773	12.312	20.954
%RSD	.3875792	.5675396	.2763226	.5742825
#1	1208.141	632.8380	4464.517	3633.995
#2	1201.537	627.7790	4447.105	3663.629

Sample Name: 500-136504-d-3-a Acquired: 11/1/2017 20:50:49 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008953	.0333520	.2317251	.0574578	.0506566	-.000757	-.007686
Stddev	.0005370	.0237070	.0032186	.0007098	.0001999	.000133	.000579
%RSD	59.98748	71.08130	1.388974	1.235271	.3946765	17.59483	7.534651
#1	.0012750	.0501154	.2294492	.0569559	.0505152	-.000852	-.008096
#2	.0005155	.0165886	.2340010	.0579596	.0507980	-.000663	-.007277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	127.4501	.0004577	.0025815	.0218046	.0039645	2.179513	5.141634
Stddev	.4567	.0000423	.0000315	.0003287	.0003830	.034210	.010498
%RSD	.3583558	9.239470	1.221279	1.507465	9.660866	1.569622	.2041797
#1	127.1271	.0004278	.0025592	.0220370	.0042353	2.203703	5.134211
#2	127.7730	.0004876	.0026038	.0215721	.0036936	2.155323	5.149057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115578	31.03500	.8473986	-.000370	14.85306	.0239194	-.003753
Stddev	.0002459	.01317	.0067677	.000060	.02562	.0014479	.001992
%RSD	2.127912	.0424360	.7986451	16.32918	.1724792	6.053393	53.07136
#1	.0113839	31.04431	.8426131	-.000327	14.83495	.0228956	-.005162
#2	.0117317	31.02569	.8521841	-.000412	14.87118	.0249432	-.002345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136504-d-3-a Acquired: 11/1/2017 20:50:49 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043951	-.002144	6.033723	-.001361	.8750911	.0012176	-.004410
Stddev	.0002413	.001571	.099928	.001629	.0111952	.0001820	.002172
%RSD	5.490784	73.26130	1.656157	119.6713	1.279321	14.94753	49.25102
#1	.0042245	-.003255	5.963063	-.002512	.8671749	.0010889	-.005945
#2	.0045658	-.001033	6.104383	-.000209	.8830073	.0013463	-.002874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0013153	.1928920
Stddev	.0011714	.0003287
%RSD	89.05563	.1703997
#1	.0004870	.1931244
#2	.0021436	.1926596
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1213.988	635.2221	4458.177	3690.974
Stddev	12.131	9.8578	33.463	10.116
%RSD	.9992883	1.551865	.7506061	.2740832
#1	1222.566	642.1926	4481.839	3698.127
#2	1205.409	628.2516	4434.515	3683.821

Sample Name: 500-136504-d-4-a Acquired: 11/1/2017 20:54:48 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003546	.0344901	-.001239	.1454628	.0354346	-.000550	-.009927
Stddev	.0007915	.0162711	.002083	.0001329	.0000884	.000128	.002218
%RSD	223.2111	47.17619	168.1937	.0913525	.2494668	23.28417	22.33986
#1	.0009143	.0229847	.000235	.1455568	.0354971	-.000460	-.008359
#2	-.000205	.0459955	-.002712	.1453688	.0353721	-.000641	-.011495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	111.2581	.0011152	-.000447	-.001081	.0046368	.7076988	5.624678
Stddev	.6228	.0003530	.000125	.000511	.0000383	.0470954	.027077
%RSD	.5597662	31.65098	27.90309	47.27537	.8261009	6.654720	.4813932
#1	110.8178	.0008656	-.000535	-.001442	.0046097	.6743973	5.643824
#2	111.6985	.0013648	-.000359	-.000720	.0046639	.7410002	5.605532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0264351	53.59217	.4373289	.0012962	29.93859	.0000424	-.003334
Stddev	.0000868	.03230	.0015215	.0005010	.08442	.0005452	.001352
%RSD	.3282959	.0602787	.3478991	38.65052	.2819786	1285.309	40.56116
#1	.0264965	53.56932	.4362530	.0016504	29.99828	-.000343	-.002378
#2	.0263737	53.61501	.4384047	.0009419	29.87889	.000428	-.004290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136504-d-4-a Acquired: 11/1/2017 20:54:48 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033796	-.000957	7.334502	-.002628	1.471413	.0012002	-.002641
Stddev	.0001747	.003111	.008924	.001286	.006117	.0000933	.000543
%RSD	5.169764	325.0645	.1216706	48.94099	.4157095	7.772159	20.55294
#1	.0032561	-.003157	7.340812	-.001719	1.475738	.0011343	-.003024
#2	.0035032	.001243	7.328192	-.003538	1.467088	.0012662	-.002257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0013096	.2424471
Stddev	.0001456	.0031427
%RSD	11.11969	1.296233
#1	.0014126	.2402249
#2	.0012067	.2446693
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1192.141	631.9186	4452.676	3680.660
Stddev	2.342	3.7593	23.794	2.047
%RSD	.1964527	.5949067	.5343691	.0556123
#1	1190.485	629.2604	4435.851	3682.107
#2	1193.797	634.5769	4469.501	3679.212

Sample Name: 500-136504-d-5-a Acquired: 11/1/2017 20:58:53 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006473	.0970402	.1928089	.5060919	.0099106	-.000155	-.010583
Stddev	.0006187	.0051694	.0005419	.0000920	.0000442	.000527	.001198
%RSD	95.58222	5.327078	.2810426	.0181808	.4462320	339.9772	11.31791
#1	.0010847	.0933849	.1924257	.5060268	.0099419	.000218	-.011430
#2	.0002098	.1006955	.1931920	.5061569	.0098793	-.000528	-.009736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	89.67268	.0009385	.0043942	.0012976	.0091566	7.289197	3.079804
Stddev	.18407	.0001870	.0004162	.0006052	.0004230	.106607	.016610
%RSD	.2052665	19.92367	9.470925	46.64362	4.619138	1.462528	.5393105
#1	89.80284	.0010708	.0041000	.0008696	.0088575	7.364579	3.091548
#2	89.54252	.0008063	.0046885	.0017256	.0094557	7.213815	3.068059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0325452	447.3022	.4280085	.0048424	42.85460	.0057756	-.002543
Stddev	.0002656	2.6063	.0016738	.0001964	.43659	.0005842	.000447
%RSD	.8160950	.5826702	.3910663	4.056606	1.018774	10.11538	17.57646
#1	.0327331	449.1451	.4291921	.0047035	43.16331	.0061887	-.002227
#2	.0323574	445.4593	.4268250	.0049813	42.54588	.0053625	-.002859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136504-d-5-a Acquired: 11/1/2017 20:58:53 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032888	.0014099	7.118358	-.002347	1.481864	.0095975	-.005121
Stddev	.0013926	.0014520	.027671	.000672	.009163	.0000594	.002326
%RSD	42.34329	102.9861	.3887236	28.63469	.6183301	.6190185	45.40998
#1	.0042735	.0003832	7.137924	-.001872	1.475384	.0095555	-.006766
#2	.0023041	.0024366	7.098792	-.002822	1.488343	.0096395	-.003477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0074185	.6682181
Stddev	.0007857	.0023329
%RSD	10.59171	.3491307
#1	.0068629	.6665685
#2	.0079741	.6698678
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1073.229	587.3934	4250.948	3572.123
Stddev	.600	1.8443	34.183	10.372
%RSD	.0558854	.3139836	.8041369	.2903733
#1	1072.805	586.0893	4275.120	3564.788
#2	1073.653	588.6975	4226.777	3579.457

Sample Name: 500-136504-b-1-a Acquired: 11/1/2017 21:02:57 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005736**	**.0236924**	**2.465446**	**.0674645**	**.0617245**	**-.000814**
Stddev	.0002877	.0016517	.011673	.0007513	.0012357	.000143
%RSD	50.16133	6.971342	.4734579	1.113653	2.001994	17.53377
#1	.0007771	.0248604	2.457192	.0669333	.0625983	-.000915
#2	.0003702	.0225245	2.473700	.0679958	.0608508	-.000713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.008832**	**136.3762**	F **-.008807**	**-.000045**	**.0045378**	**.0068183**
Stddev	.001266	3.4756	.000192	.000189	.0003316	.0003292
%RSD	14.33448	2.548551	2.176473	418.3971	7.308347	4.828253
#1	-.007937	138.8338	-.008943	.000089	.0043033	.0065855
#2	-.009727	133.9186	-.008672	-.000179	.0047723	.0070511
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			10.00000			
Low Limit			-.002000			

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0545785**	**4.792374**	**.0101195**	**31.69826**	**.0242020**	**.0010540**
Stddev	.0008758	.071160	.0002173	.47590	.0003017	.0003870
%RSD	1.604760	1.484859	2.146805	1.501355	1.246419	36.71993
#1	.0551979	4.842691	.0099659	32.03478	.0244153	.0007803
#2	.0539592	4.742056	.0102731	31.36175	.0239887	.0013277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136504-b-1-a Acquired: 11/1/2017 21:02:57 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.595208	.0018187	-.001965	.1167805	.0060929	5.721667
Stddev	.127171	.0008488	.000519	.0009270	.0063949	.032883
%RSD	1.325357	46.66955	26.41821	.7938097	104.9563	.5747084
#1	9.685131	.0012185	-.001598	.1161250	.0106147	5.698416
#2	9.505285	.0024188	-.002332	.1174360	.0015710	5.744919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002052	.4189853	.0007255	-.003136	.0016954	.0075928
Stddev	.000908	.0031311	.0000970	.001119	.0003088	.0000161
%RSD	44.24340	.7473006	13.37402	35.69303	18.21317	.2121951
#1	-.001410	.4211993	.0006569	-.002345	.0019137	.0076042
#2	-.002694	.4167713	.0007941	-.003928	.0014770	.0075814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1209.211	632.3276	4437.372	3708.275
Stddev	3.799	3.3652	20.354	42.323
%RSD	.3141385	.5321903	.4586887	1.141317
#1	1211.897	634.7071	4422.980	3678.348
#2	1206.525	629.9480	4451.764	3738.202

Sample Name: 500-136504-b-2-a Acquired: 11/1/2017 21:06:57 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003991**	**.0422443**	**.6876832**	**.0805034**	**.0805396**	**.0000966**	**-.008455**
Stddev	.0000646	.0058369	.0016532	.0011947	.0004846	.0000346	.000358
%RSD	16.17622	13.81689	.2404021	1.484079	.6016476	35.82897	4.235764
#1	.0004448	.0463716	.6888521	.0796586	.0801969	.0001211	-.008709
#2	.0003535	.0381170	.6865142	.0813482	.0808822	.0000721	-.008202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**146.1763**	**-.001806**	**-.000636**	**.0127551**	**.0052251**	**.0165801**	**7.420295**
Stddev	1.2334	.000339	.000607	.0006236	.0000495	.0493979	.006944
%RSD	.8437700	18.77148	95.36006	4.889348	.9470734	297.9346	.0935818
#1	145.3041	-.002045	-.001066	.0123141	.0052601	-.018349	7.415385
#2	147.0484	-.001566	-.000207	.0131960	.0051901	.051510	7.425205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0073520**	**26.02775**	**.0633015**	**.0009954**	**7.908920**	**.0005630**	**-.002460**
Stddev	.0002514	.14914	.0005305	.0000209	.017110	.0004267	.000935
%RSD	3.419833	.5730129	.8381170	2.097030	.2163379	75.79690	37.99124
#1	.0071743	25.92229	.0629263	.0010102	7.896821	.0008647	-.001799
#2	.0075298	26.13321	.0636766	.0009807	7.921019	.0002612	-.003121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136504-b-2-a Acquired: 11/1/2017 21:06:57 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0344199	.0075979	5.457909	-.000783	.9096532	.0011346	-.002468
Stddev	.0010432	.0007675	.011715	.000734	.0060086	.0000813	.000662
%RSD	3.030734	10.10095	.2146438	93.81235	.6605432	7.169400	26.83820
#1	.0351575	.0070552	5.449625	-.001302	.9054044	.0010771	-.001999
#2	.0336822	.0081406	5.466192	-.000263	.9139019	.0011921	-.002936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0012539	.0082970
Stddev	.0001965	.0009144
%RSD	15.66889	11.02100
#1	.0013928	.0076504
#2	.0011150	.0089436
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1206.263	626.8521	4471.789	3682.349
Stddev	2.056	1.7565	9.810	19.809
%RSD	.1704756	.2802088	.2193751	.5379415
#1	1207.717	628.0941	4478.726	3696.356
#2	1204.809	625.6100	4464.853	3668.342

Sample Name: 500-136504-e-3-a Acquired: 11/1/2017 21:10:57 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006703	.0023233	.1737037	.0564726	.0498542	-.000767	-.006941
Stddev	.0006900	.0051258	.0006661	.0010049	.0002107	.000727	.000461
%RSD	102.9334	220.6276	.3834620	1.779519	.4227183	94.74873	6.646141
#1	.0011582	-.001301	.1732327	.0571832	.0497051	-.001282	-.007267
#2	.0001824	.005948	.1741746	.0557620	.0500032	-.000253	-.006614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	127.5284	.0003161	.0019902	-.000111	.0035575	1.779129	5.155965
Stddev	.1271	.0001475	.0004300	.000007	.0000812	.012368	.039091
%RSD	.0996632	46.66817	21.60400	6.432335	2.281882	.6951783	.7581671
#1	127.4385	.0002118	.0022942	-.000106	.0036149	1.787874	5.128324
#2	127.6183	.0004205	.0016862	-.000116	.0035001	1.770383	5.183606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116516	31.13272	.8430011	.0006662	14.74055	.0241128	-.003102
Stddev	.0003544	.08432	.0005389	.0002597	.06691	.0011057	.002131
%RSD	3.041938	.2708550	.0639254	38.98418	.4539008	4.585526	68.67897
#1	.0114010	31.07310	.8433822	.0004825	14.69324	.0233310	-.001596
#2	.0119023	31.19235	.8426201	.0008498	14.78786	.0248946	-.004609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136504-e-3-a Acquired: 11/1/2017 21:10:57 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034323	.0013073	5.911301	-.000872	.8633253	.0010261	-.005150
Stddev	.0005585	.0012534	.067963	.000453	.0084473	.0002274	.000279
%RSD	16.27109	95.88366	1.149721	51.88997	.9784564	22.15698	5.425779
#1	.0038273	.0021936	5.959359	-.001192	.8692984	.0011869	-.004953
#2	.0030375	.0004209	5.863244	-.000552	.8573522	.0008654	-.005348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0010898	.0883567
Stddev	.0007126	.0004827
%RSD	65.38775	.5462916
#1	.0005859	.0880154
#2	.0015936	.0886980
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1229.515	645.7991	4495.862	3685.275
Stddev	7.958	5.8628	40.312	8.850
%RSD	.6472287	.9078420	.8966486	.2401370
#1	1223.888	641.6534	4467.357	3691.532
#2	1235.142	649.9447	4524.367	3679.017

Sample Name: 500-136504-e-4-a Acquired: 11/1/2017 21:14:56 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000088**	**.0188218**	**.0022308**	**.1469679**	**.0358806**	**-.000501**	**-.008108**
Stddev	.000298	.0079271	.0001993	.0004961	.0000562	.000735	.000636
%RSD	339.7609	42.11658	8.932417	.3375690	.1564851	146.8282	7.848918
#1	-.000298	.0132165	.0023717	.1466171	.0358409	.000019	-.007658
#2	.000123	.0244271	.0020899	.1473187	.0359203	-.001020	-.008558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**112.7868**	**.0012438**	**-.000081**	**-.000929**	**.0040938**	**.2606990**	**5.765603**
Stddev	.1972	.0001266	.000633	.000401	.0002441	.0151615	.017269
%RSD	.1748278	10.17381	786.5815	43.10689	5.963322	5.815697	.2995139
#1	112.6473	.0011544	-.000528	-.000646	.0039211	.2499782	5.753392
#2	112.9262	.0013333	.000367	-.001213	.0042664	.2714198	5.777814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0276021**	**54.70756**	**.3617840**	**.0014448**	**30.54827**	**.0018512**	**-.001928**
Stddev	.0001618	.01943	.0015803	.0001382	.01325	.0001166	.002988
%RSD	.5860779	.0355150	.4368172	9.563889	.0433677	6.297220	154.9854
#1	.0274878	54.72130	.3606666	.0013471	30.53890	.0019336	.000185
#2	.0277165	54.69382	.3629015	.0015425	30.55764	.0017687	-.004040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136504-e-4-a Acquired: 11/1/2017 21:14:56 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011523	.0042035	7.344470	-.001950	1.499446	.0009048	-.003462
Stddev	.0021457	.0002889	.005913	.002845	.005192	.0001058	.000665
%RSD	186.2126	6.873240	.0805155	145.9055	.3462791	11.69755	19.21554
#1	-.000365	.0039992	7.340289	.000062	1.503117	.0009797	-.003932
#2	.002670	.0044078	7.348652	-.003962	1.495775	.0008300	-.002991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0011105	.2367494
Stddev	.0001227	.0003619
%RSD	11.04418	.1528770
#1	.0010238	.2370054
#2	.0011973	.2364935
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1185.042	628.0335	4429.716	3648.172
Stddev	6.248	2.6690	7.447	.383
%RSD	.5272128	.4249796	.1681256	.0104897
#1	1180.624	626.1462	4424.450	3647.902
#2	1189.460	629.9208	4434.982	3648.443

Sample Name: 500-136504-e-5-a Acquired: 11/1/2017 21:19:03 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008195	.0759889	.1997289	.5219680	.0101400	-.000207	-.008876
Stddev	.0008929	.0055858	.0030588	.0002755	.0000705	.000704	.000232
%RSD	108.9666	7.350816	1.531466	.0527808	.6949050	339.4102	2.611201
#1	.0001881	.0720391	.2018918	.5217732	.0101898	.000290	-.008712
#2	.0014509	.0799387	.1975660	.5221628	.0100902	-.000705	-.009039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	90.47934	.0010139	.0053371	.0024591	.0081253	7.359501	3.208974
Stddev	.44633	.0001844	.0006054	.0002446	.0006113	.084775	.004970
%RSD	.4932963	18.18306	11.34323	9.948270	7.523102	1.151917	.1548870
#1	90.79495	.0011443	.0049090	.0026321	.0076931	7.419446	3.212489
#2	90.16374	.0008835	.0057652	.0022861	.0085576	7.299555	3.205460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0337582	456.5946	.4359923	.0049971	44.14919	.0069524	-.002818
Stddev	.0002851	2.0453	.0026554	.0006912	.17718	.0004866	.002393
%RSD	.8445526	.4479489	.6090454	13.83226	.4013297	6.999775	84.89705
#1	.0339598	458.0408	.4378699	.0054858	44.27447	.0072965	-.001127
#2	.0335566	455.1483	.4341146	.0045083	44.02390	.0066083	-.004510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136504-e-5-a Acquired: 11/1/2017 21:19:03 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033081	.0031435	7.322628	-.002717	1.521930	.0096623	-.006209
Stddev	.0030947	.0003040	.003845	.003951	.003619	.0003470	.001033
%RSD	93.55141	9.670635	.0525050	145.3979	.2377714	3.591165	16.63019
#1	.0011198	.0033584	7.319910	.000076	1.524489	.0094169	-.006939
#2	.0054964	.0029285	7.325347	-.005511	1.519371	.0099076	-.005479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0068636	.5198919
Stddev	.0002654	.0031663
%RSD	3.866011	.6090248
#1	.0066759	.5176530
#2	.0070512	.5221308
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1060.849	577.0119	4217.350	3577.258
Stddev	.214	.2463	5.907	14.323
%RSD	.0201920	.0426919	.1400564	.4003891
#1	1060.698	576.8377	4213.173	3567.130
#2	1061.001	577.1861	4221.526	3587.386

Sample Name: CCV Acquired: 11/1/2017 21:23:08 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4990749**	**50.61347**	**.4954266**	**.4666681**	**.4720759**	**.5100888**	**.5085785**
Stddev	.0037588	.01536	.0050170	.0013700	.0008334	.0052676	.0026822
%RSD	.7531499	.0303535	1.012661	.2935729	.1765383	1.032679	.5273908
#1	.4964170	50.62434	.4989741	.4676368	.4726652	.5138135	.5066819
#2	.5017327	50.60261	.4918790	.4656993	.4714866	.5063640	.5104751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.05102**	**.4742730**	**.5054170**	**.4956461**	**.4964352**	**25.77368**	**48.28556**
Stddev	.21054	.0018994	.0005617	.0063024	.0018144	.10482	.06532
%RSD	.8404400	.4004775	.1111268	1.271561	.3654899	.4066978	.1352705
#1	25.19989	.4756160	.5058142	.4911896	.4951522	25.84780	48.33174
#2	24.90215	.4729299	.5050199	.5001026	.4977182	25.69956	48.23937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.860659**	**24.60793**	**4.786669**	**.4580143**	**25.21405**	**.5219609**	**.5097749**
Stddev	.005874	.06649	.041217	.0020272	.03638	.0019940	.0016482
%RSD	.1521456	.2701939	.8610839	.4426091	.1442813	.3820196	.3233109
#1	3.856506	24.65494	4.815814	.4594477	25.18832	.5205509	.5086095
#2	3.864813	24.56092	4.757524	.4565808	25.23977	.5233709	.5109404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 11/1/2017 21:23:08 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4608485	.4663532	.5032245	.5143182	.4673251	.4676317	.4721631
Stddev	.0027401	.0072766	.0037792	.0057306	.0034677	.0048998	.0008370
%RSD	.5945858	1.560327	.7509927	1.114214	.7420401	1.047785	.1772683
#1	.4627860	.4714985	.5058967	.5102660	.4648731	.4641671	.4727550
#2	.4589109	.4612078	.5005522	.5183703	.4697772	.4710964	.4715713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	4.838946	.5241900
Stddev	.042738	.0025462
%RSD	.8832161	.4857431
#1	4.808726	.5223895
#2	4.869167	.5259905
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1244.021	688.5294	4713.347	3772.606
Stddev	.096	4.0271	9.970	6.711
%RSD	.0077485	.5848820	.2115297	.1778907
#1	1244.089	685.6818	4720.397	3767.860
#2	1243.953	691.3770	4706.297	3777.351

Sample Name: CCB Acquired: 11/1/2017 21:27:02 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007997**	**.0061687**	**.0001825**	**.0023325**	**-.000501**	**-.000590**	**.0002956**
Stddev	.0005294	.0110759	.0015434	.0006642	.000030	.000238	.0003192
%RSD	66.20661	179.5494	845.6163	28.47641	5.887908	40.35190	107.9701
#1	.0011740	.0140005	-.000909	.0028021	-.000522	-.000759	.0000699
#2	.0004253	-.001663	.001274	.0018628	-.000480	-.000422	.0005213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.010134**	**.0000085**	**.0004962**	**-.000834**	**.0008701**	**-.043358**	**-.011916**
Stddev	.005237	.0001884	.0001964	.000481	.0000700	.056574	.006899
%RSD	51.68302	2215.369	39.57572	57.63618	8.042555	130.4812	57.90038
#1	-.006430	-.000125	.0003573	-.001173	.0009195	-.083362	-.016795
#2	-.013837	.000142	.0006350	-.000494	.0008206	-.003354	-.007037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011256**	**.0125461**	**.0002035**	**.0002766**	**.0636561**	**-.000330**	**.0011569**
Stddev	.0000023	.0010278	.0002749	.0008202	.0003359	.000132	.0001566
%RSD	.2030296	8.192387	135.0591	296.5741	.5277114	40.15065	13.53565
#1	.0011273	.0118194	.0003979	-.000303	.0638936	-.000423	.0012676
#2	.0011240	.0132729	.0000092	.000857	.0634185	-.000236	.0010461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/1/2017 21:27:02 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010339	.0025288	-.001765	-.002037	.0000353	.0000444	-.000147
Stddev	.0007150	.0015907	.000129	.000888	.0000128	.0000497	.002324
%RSD	69.15033	62.90445	7.323532	43.61118	36.20207	111.7622	1579.790
#1	.0005284	.0014040	-.001857	-.002665	.0000443	.0000795	.001496
#2	.0015395	.0036536	-.001674	-.001409	.0000263	.0000093	-.001790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0006560	-.000038
Stddev	.0004309	.001456
%RSD	65.68508	3810.614
#1	.0009607	-.001068
#2	.0003513	.000991
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1492.396	704.0896	4951.752	3842.258
Stddev	2.160	3.5965	27.253	12.253
%RSD	.1447281	.5108056	.5503631	.3189128
#1	1493.924	706.6327	4932.481	3850.923
#2	1490.869	701.5465	4971.022	3833.594

Sample Name: 500-136522-m-1-a Acquired: 11/1/2017 21:31:08 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014447**	**.4842727**	**-.000008**	**.0741922**	**.0306832**	**-.000191**	**-.008043**
Stddev	.0004975	.0046544	.000272	.0001739	.0000033	.000153	.000299
%RSD	34.43309	.9611086	3326.866	.2344424	.0108267	80.20890	3.715088
#1	.0017965	.4809815	-.000200	.0743152	.0306855	-.000083	-.007832
#2	.0010930	.4875638	.000184	.0740692	.0306808	-.000299	-.008254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.12831**	**.0009057**	**-.000131**	**.0001028**	**.0078054**	**1.629052**	**4.038618**
Stddev	.10474	.0002564	.000087	.0003289	.0004609	.103065	.022311
%RSD	.2131986	28.31288	66.52191	319.8090	5.905401	6.326677	.5524323
#1	49.20237	.0010870	-.000192	.0003354	.0081314	1.556175	4.022842
#2	49.05425	.0007243	-.000069	-.000130	.0074795	1.701930	4.054394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042336**	**19.62541**	**.0569967**	**.0099510**	**43.07713**	**.0089355**	**-.001569**
Stddev	.0001713	.02629	.0003108	.0005195	.18926	.0009782	.000938
%RSD	4.046567	.1339383	.5453538	5.220136	.4393506	10.94797	59.79484
#1	.0043547	19.60682	.0567769	.0103183	42.94330	.0082437	-.000906
#2	.0041125	19.64399	.0572165	.0095837	43.21095	.0096272	-.002233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136522-m-1-a Acquired: 11/1/2017 21:31:08 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030855	.0019136	5.010068	-.002462	.3388911	.0097661	-.003658
Stddev	.0014368	.0002091	.023758	.001420	.0010482	.0003889	.000156
%RSD	46.56468	10.92741	.4741992	57.69000	.3092974	3.981758	4.259291
#1	.0041015	.0017657	4.993269	-.003466	.3381499	.0100411	-.003768
#2	.0020696	.0020614	5.026867	-.001458	.3396323	.0094912	-.003548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0020783	.0165028
Stddev	.0000936	.0003066
%RSD	4.502352	1.857725
#1	.0021445	.0162860
#2	.0020121	.0167195
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1242.615	644.6858	4514.785	3696.708
Stddev	3.770	.2356	12.265	5.035
%RSD	.3033955	.0365492	.2716695	.1361892
#1	1245.281	644.5192	4523.458	3700.268
#2	1239.949	644.8524	4506.112	3693.148

Sample Name: 500-136522-m-4-a Acquired: 11/1/2017 21:35:10 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006240	.7079006	.0020268	.0755712	.0309485	-.000257	-.008151
Stddev	.0000202	.0427177	.0012359	.0004767	.0017243	.000120	.002544
%RSD	3.240265	6.034418	60.97686	.6307550	5.571546	46.58269	31.20778
#1	.0006383	.7381066	.0011529	.0752341	.0321677	-.000342	-.006352
#2	.0006097	.6776946	.0029006	.0759082	.0297292	-.000172	-.009950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	50.78254	.0010959	.0004306	.0000955	.0069308	1.387492	4.087553
Stddev	2.67644	.0000608	.0002274	.0006655	.0001714	.104907	.186841
%RSD	5.270398	5.547157	52.81002	696.6503	2.472793	7.560902	4.570967
#1	52.67508	.0011389	.0002698	.0005661	.0068096	1.461672	4.219669
#2	48.89001	.0010530	.0005915	-.000375	.0070520	1.313312	3.955437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041880	20.19509	.0553686	.0086865	42.67996	.0036670	-.001831
Stddev	.0001632	1.00875	.0032845	.0004481	2.10298	.0006672	.000020
%RSD	3.897213	4.995042	5.932075	5.158404	4.927315	18.19455	1.088599
#1	.0040726	20.90839	.0576911	.0090033	44.16699	.0041388	-.001817
#2	.0043034	19.48180	.0530461	.0083696	41.19294	.0031952	-.001845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136522-m-4-a Acquired: 11/1/2017 21:35:10 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009411	-.000253	5.681356	-.002680	.3418545	.0154170	-.001629
Stddev	.0026280	.002366	.038936	.000379	.0025331	.0000299	.001460
%RSD	279.2493	933.6849	.6853250	14.13292	.7409906	.1938851	89.61602
#1	.0027994	-.001927	5.653824	-.002948	.3400633	.0154381	-.002662
#2	-.000917	.001420	5.708887	-.002412	.3436457	.0153959	-.000597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0026358	.0131383
Stddev	.0001095	.0000426
%RSD	4.155722	.3239968
#1	.0025583	.0131684
#2	.0027132	.0131082
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1248.891	650.4355	4535.585	3805.547
Stddev	10.539	3.5558	24.859	143.021
%RSD	.8438663	.5466845	.5480959	3.758221
#1	1256.343	652.9498	4553.163	3704.416
#2	1241.438	647.9211	4518.007	3906.678

Sample Name: 500-136522-h-6-a Acquired: 11/1/2017 21:39:10 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006496	.0233812	-.002137	.0017472	-.000435	-.001115	-.007097
Stddev	.0000338	.0073041	.001591	.0001721	.000035	.000076	.000010
%RSD	5.206501	31.23913	74.41769	9.849560	7.968731	6.833989	.1351371
#1	.0006736	.0285460	-.001013	.0016255	-.000460	-.001061	-.007104
#2	.0006257	.0182164	-.003262	.0018689	-.000411	-.001169	-.007090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0395908	.0009266	-.000511	.0124606	.0019065	.1336717	-.006309
Stddev	.0014256	.0003828	.000265	.0005936	.0001232	.0613163	.001089
%RSD	3.600840	41.31307	51.77872	4.763718	6.459274	45.87077	17.26645
#1	.0385828	.0006559	-.000698	.0120409	.0018195	.0903146	-.005539
#2	.0405989	.0011972	-.000324	.0128804	.0019936	.1770289	-.007079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005624	.0120091	.0020570	.0005189	.1019268	.0075109	-.000897
Stddev	.0004795	.0007964	.0007730	.0008165	.0004227	.0007266	.002291
%RSD	85.25626	6.631217	37.57738	157.3466	.4147430	9.674381	255.4711
#1	.0009014	.0125722	.0015104	-.000058	.1022258	.0069971	.000723
#2	.0002234	.0114460	.0026036	.001096	.1016279	.0080247	-.002517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136522-h-6-a Acquired: 11/1/2017 21:39:10 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047745	.0028971	.0175383	-.001807	.0002260	-.000052	-.003611
Stddev	.0006378	.0051451	.0018713	.001427	.0000059	.000071	.000930
%RSD	13.35933	177.5931	10.66977	78.94020	2.630633	134.7014	25.76658
#1	.0043235	-.000741	.0188616	-.000799	.0002302	-.000002	-.002953
#2	.0052255	.006535	.0162151	-.002816	.0002218	-.000102	-.004269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0007944	.0031711
Stddev	.0000420	.0002136
%RSD	5.286915	6.736715
#1	.0007647	.0033222
#2	.0008241	.0030201
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1436.096	683.3932	4888.441	3795.150
Stddev	.403	1.3859	36.426	7.872
%RSD	.0280916	.2027993	.7451439	.2074216
#1	1435.811	682.4132	4862.684	3800.717
#2	1436.381	684.3732	4914.198	3789.584

Sample Name: 500-136522-m-9-a Acquired: 11/1/2017 21:43:15 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009454	.3326527	.0015841	.0447934	.0197249	-.000147	-.007769
Stddev	.0000489	.0040311	.0016464	.0014869	.0000009	.000362	.002721
%RSD	5.175107	1.211791	103.9342	3.319447	.0046488	246.2835	35.03005
#1	.0009108	.3298023	.0004199	.0437420	.0197255	.000109	-.005844
#2	.0009800	.3355031	.0027483	.0458447	.0197242	-.000402	-.009693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.30842	.0009187	.0000272	-.000146	.0061372	1.018912	16.37543
Stddev	.19923	.0000797	.0002949	.000177	.0002651	.000428	.06959
%RSD	.6797602	8.673273	1084.787	121.8355	4.319521	.0419931	.4249893
#1	29.16754	.0008624	.0002357	-.000271	.0059498	1.018609	16.32622
#2	29.44929	.0009751	-.000181	-.000020	.0063247	1.019214	16.42464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027226	12.37467	.0471268	.0044718	10.93939	.0014649	.0019215
Stddev	.0000463	.01028	.0005262	.0003727	.02493	.0005284	.0039829
%RSD	1.701013	.0830554	1.116487	8.335416	.2278735	36.07355	207.2815
#1	.0027553	12.36740	.0467547	.0047353	10.92176	.0010912	-.000895
#2	.0026898	12.38193	.0474989	.0042082	10.95702	.0018385	.004738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136522-m-9-a Acquired: 11/1/2017 21:43:15 Type: Unk
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018470	.0003700	3.929344	-.001791	.1111803	.0091688	-.005201
Stddev	.0018667	.0019511	.137682	.000599	.0003091	.0005421	.001645
%RSD	101.0650	527.2567	3.503955	33.45176	.2780486	5.912724	31.63991
#1	.0031670	.0017496	3.831988	-.001368	.1113989	.0087855	-.004037
#2	.0005271	-.001010	4.026700	-.002215	.1109617	.0095522	-.006364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0022206	.0092815
Stddev	.0001579	.0008260
%RSD	7.111745	8.899188
#1	.0021089	.0086974
#2	.0023322	.0098655
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1279.600	648.2634	4634.995	3757.947
Stddev	34.469	17.9419	6.299	11.811
%RSD	2.693764	2.767694	.1358919	.3143068
#1	1303.974	660.9503	4630.541	3766.298
#2	1255.227	635.5766	4639.449	3749.595

Sample Name: CCV Acquired: 11/1/2017 21:47:17 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5001502**	**49.98011**	**.4913171**	**.4653814**	**.4670193**	**.4992686**	**.5051674**
Stddev	.0034006	.37378	.0005180	.0025726	.0044471	.0001428	.0051603
%RSD	.6799051	.7478613	.1054291	.5527861	.9522202	.0285949	1.021498
#1	.4977456	49.71581	.4916834	.4635624	.4638747	.4993696	.5015186
#2	.5025547	50.24441	.4909508	.4672005	.4701638	.4991677	.5088163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.59664**	**.4718186**	**.5023805**	**.4955279**	**.5043816**	**25.43850**	**47.73362**
Stddev	.11519	.0016020	.0012804	.0059201	.0020371	.23809	.44848
%RSD	.4683267	.3395458	.2548693	1.194709	.4038777	.9359324	.9395431
#1	24.51519	.4706857	.5014751	.4913418	.5029412	25.27014	47.41650
#2	24.67809	.4729514	.5032859	.4997141	.5058221	25.60685	48.05075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.832160**	**24.20258**	**4.709545**	**.4571997**	**25.00700**	**.5192752**	**.5056566**
Stddev	.032635	.16395	.029899	.0004567	.20767	.0040079	.0023685
%RSD	.8516200	.6773949	.6348658	.0998982	.8304398	.7718172	.4684012
#1	3.809083	24.08665	4.688403	.4568767	24.86016	.5164412	.5039818
#2	3.855237	24.31851	4.730687	.4575226	25.15384	.5221092	.5073314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 11/1/2017 21:47:17 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4581991	.4633743	.4998496	.5118076	.4724270	.4703853	.4717703
Stddev	.0034130	.0033330	.0028591	.0022342	.0026763	.0035048	.0057634
%RSD	.7448725	.7192892	.5719834	.4365312	.5664952	.7450917	1.221665
#1	.4557858	.4610175	.4978279	.5102278	.4705346	.4679071	.4676949
#2	.4606125	.4657311	.5018712	.5133875	.4743194	.4728636	.4758456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	4.867540	.5189600
Stddev	.045078	.0007293
%RSD	.9260881	.1405291
#1	4.835665	.5184444
#2	4.899415	.5194757
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1243.064	685.5334	4670.144	3808.512
Stddev	8.047	3.7486	21.201	15.897
%RSD	.6473543	.5468174	.4539598	.4174079
#1	1248.754	688.1841	4685.136	3819.753
#2	1237.374	682.8827	4655.153	3797.271

Sample Name: CCB Acquired: 11/1/2017 21:51:09 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005122	.0086433	.0022461	.0020446	-.000487	-.000521	-.000273
Stddev	.0005194	.0136618	.0005767	.0002742	.000020	.000165	.000817
%RSD	101.4029	158.0618	25.67644	13.40936	4.115460	31.70344	299.2410
#1	.0001449	-.001017	.0026539	.0022385	-.000473	-.000637	.000305
#2	.0008795	.018304	.0018383	.0018508	-.000501	-.000404	-.000851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007755	.0004812	-.000485	-.000952	.0010400	-.053789	-.004773
Stddev	.002745	.0001925	.000612	.001160	.0001538	.026632	.014237
%RSD	35.39162	40.01268	126.1500	121.9413	14.78593	49.51076	298.3087
#1	-.009696	.0003451	-.000052	-.000131	.0011487	-.072621	-.014840
#2	-.005814	.0006174	-.000918	-.001772	.0009313	-.034958	.005295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007120	-.016014	.0007000	.0003458	.0282456	-.000490	.0020924
Stddev	.0004040	.017985	.0002886	.0002986	.0008950	.000979	.0003288
%RSD	56.73792	112.3101	41.22410	86.33119	3.168455	200.0287	15.71553
#1	.0009977	-.003296	.0009041	.0005570	.0276128	-.001182	.0018599
#2	.0004264	-.028732	.0004960	.0001347	.0288784	.000203	.0023250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/1/2017 21:51:09 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000578	-.000450	-.000728	-.001117	.0000181	-.000247	.0008592
Stddev	.001397	.003831	.000300	.001034	.0000238	.000116	.0008603
%RSD	241.4410	852.0404	41.27998	92.50370	130.9448	46.87893	100.1358
#1	.000409	-.003159	-.000940	-.001848	.0000349	-.000329	.0014675
#2	-.001566	.002260	-.000515	-.000387	.0000013	-.000165	.0002508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0001939	.0002135
Stddev	.0006759	.0005187
%RSD	348.5941	242.9055
#1	.0006719	.0005803
#2	-.000284	-.000153
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1487.408	701.1284	4927.789	3844.836
Stddev	10.985	5.1624	61.719	22.276
%RSD	.7385485	.7362959	1.252471	.5793657
#1	1495.176	704.7788	4884.147	3860.587
#2	1479.640	697.4781	4971.431	3829.084

Sample Name: CCVL Acquired: 11/1/2017 21:55:14 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056216	.1869030	.0099802	.0505869	.0092102	.0037548	.0487670
Stddev	.0003181	.0131805	.0012840	.0002543	.0000625	.0004746	.0016826
%RSD	5.657786	7.052073	12.86584	.5026583	.6787417	12.63981	3.450176
#1	.0058465	.1775830	.0108882	.0507667	.0092544	.0034192	.0475773
#2	.0053967	.1962231	.0090723	.0504071	.0091660	.0040904	.0499567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1909143	.0022438	.0050961	.0091632	.0108883	.1786082	.4763005
Stddev	.0029051	.0001118	.0000609	.0000676	.0001649	.0129618	.0021056
%RSD	1.521694	4.983820	1.195853	.7376005	1.514422	7.257109	.4420778
#1	.1929685	.0021647	.0050530	.0091154	.0107717	.1877736	.4777894
#2	.1888600	.0023228	.0051392	.0092110	.0110049	.1694428	.4748116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108593	.1096374	.0101148	.0097614	1.054723	.0089522	.0060033
Stddev	.0000800	.0056558	.0005057	.0002258	.004162	.0001464	.0006346
%RSD	.7368512	5.158665	4.999573	2.313731	.3946070	1.635459	10.57074
#1	.0108027	.1136367	.0104724	.0096017	1.057666	.0088487	.0055546
#2	.0109159	.1056382	.0097572	.0099211	1.051780	.0090558	.0064520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCVL Acquired: 11/1/2017 21:55:14 Type: QC
Method: P6110117B Mode: CONC Corr. Factor: 1.000000
User: lacyk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194635	.0105171	.1951693	.0366023	.0049670	.0044559	.0085181
Stddev	.0012422	.0013113	.0002440	.0004050	.0000545	.0000727	.0001577
%RSD	6.382080	12.46836	.1250129	1.106354	1.097333	1.631649	1.850969
#1	.0203419	.0114444	.1953418	.0368886	.0049285	.0044045	.0084066
#2	.0185852	.0095899	.1949968	.0363159	.0050056	.0045073	.0086296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0059135	.0197484
Stddev	.0010590	.0001281
%RSD	17.90781	.6486102
#1	.0066623	.0198390
#2	.0051647	.0196578
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1483.715	709.1940	4970.492	3819.451
Stddev	5.427	3.1424	39.252	.074
%RSD	.3657420	.4430961	.7896938	.0019280
#1	1479.878	706.9720	4998.247	3819.503
#2	1487.552	711.4161	4942.737	3819.399

Metals Worksheet

Batch Number: 500-408141
Method: 245.1
Analyst: Noon, Erin E

Date Open: Nov 02 2017 8:00AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
blank						
0.2ppb						
0.5ppb						
1.0ppb						
3.0ppb						
5.0ppb						
ICV~500-408141/7		7470A		25 mL	0.00005 mL	
ICB~500-408141/8		7470A				
CRA~500-408141/9		7470A		25 mL		0.000005 mL
MB~500-407943/12-A		7470A				
LCS~500-407943/13-A		7470A				
LB3~500-407740/1-C		7470A				
500-136133-A-5-C		7470A	P			
500-136390-A-1-C		7470A	P			
500-136438-A-1-D		7470A	P			
500-136480-E-2-D		7470A	P			
500-136481-E-1-F		7470A	P			
LB~500-407789/1-C		7470A				
CCV~500-408141/19		7470A		25 mL	0.000025 mL	
CCB~500-408141/20		7470A				
500-136508-A-1-E		7470A	P			
500-136480-B-1-C		7470A	P			
500-136503-F-1-E		7470A	D			
500-136532-D-1-B		7470A	T			
500-136532-D-2-B		7470A	T			

Metals Worksheet

Batch Number: 500-408141
Method: 245.1
Analyst: Noon, Erin E

Date Open: Nov 02 2017 8:00AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
500-136548-A-1-B		7470A	T			
500-136436-F-7-B		7470A	T			
500-136436-F-7-C~DU		7470A	T			
500-136436-F-7-D~MS		7470A	T			
500-136436-F-7-E~MSD		7470A	T			
CCV~500-408141/31		7470A		25 mL	0.000025 mL	
CCB~500-408141/32		7470A				
500-136360-D-22-B		7470A	D			
500-136360-D-23-B		7470A	D			
500-136360-D-24-B		7470A	D			
500-136360-D-25-B		7470A	D			
500-136360-D-26-B		7470A	D			
500-136360-D-27-B		7470A	D			
500-136360-D-28-B		7470A	D			
500-136360-D-29-B		7470A	D			
MB~500-407945/12-A		245.1				
LCS~500-407945/13-A		245.1				
CCV~500-408141/43		7470A		25 mL	0.000025 mL	
CCB~500-408141/44		7470A				
500-136333-B-1-B		245.1	T			
500-136378-A-1-A		245.1	T			
500-136380-A-1-C		245.1	T			
500-136384-A-1-B		245.1	T			
x500-136388-B-1-A~(500-4514388)						
500-136388-B-2-A		245.1	T			

Metals Worksheet

Batch Number: 500-408141
Method: 245.1
Analyst: Noon, Erin E

Date Open: Nov 02 2017 8:00AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
500-136388-B-3-A		245.1	T			
500-136538-B-1-B		245.1	T			
500-136371-G-1-F		7470A	T			
500-136371-G-2-C		7470A	T			
CCV~500-408141/55		245.1		25 mL	0.000025 mL	
CCB~500-408141/56		245.1				
500-136371-G-3-C		7470A	T			
500-136371-G-4-C		7470A	T			
500-136371-G-5-F		7470A	T			
500-136371-G-6-C		7470A	T			
500-136382-L-5-B		7470A	T			
500-136382-L-5-C~DUP		7470A	T			
500-136382-L-5-D~MS		7470A	T			
500-136382-L-5-E~MSD		7470A	T			
500-136433-K-2-E		7470A	T			
500-136431-F-1-B		7470A	T			
CCV~500-408141/67		7470A		25 mL	0.000025 mL	
CCB~500-408141/68		7470A				
x500-136431-G-1-B~(500-4514404)						
x500-136431-F-2-B~(500-4514405)						
x500-136431-G-2-B~(500-4514406)						
x500-136388-B-1-A~^5~(500-4514388)						
xMB~500-407944/12-A~(500-4514346)						
xLCS~500-407944/13-A~(500-4514347)						
x500-136360-D-1-B~(500-4514348)						

Metals Worksheet

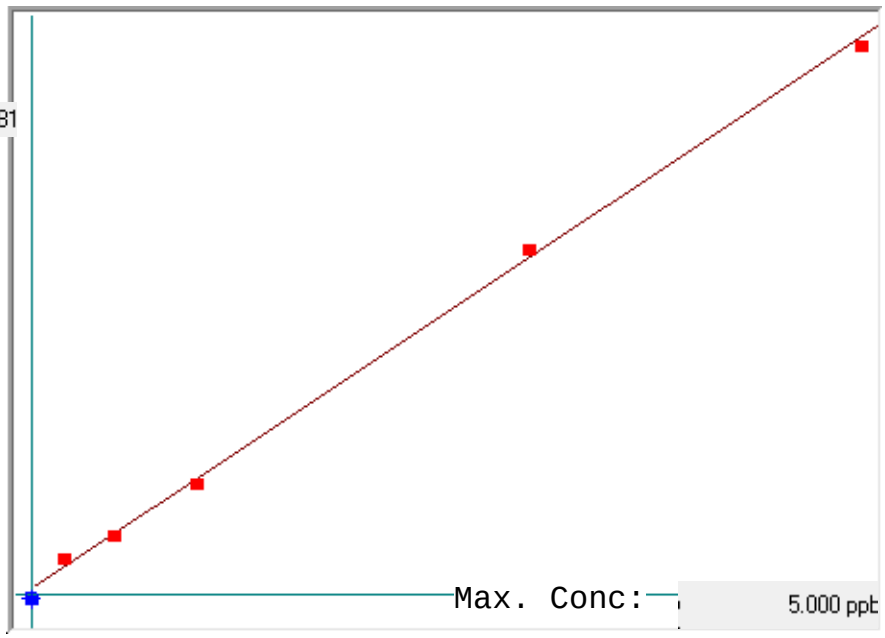
Batch Number: 500-408141
Method: 245.1
Analyst: Noon, Erin E

Date Open: Nov 02 2017 8:00AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
x500-136360-D-1-C ~DU~(500-4514349)						
x500-136360-D-1-D ~MS~(500-4514350)						
x500-136360-D-1-E~ MSD~(500-4514351)						
xCCV~500-408141/ 79						
xCCB~500-408141/ 80						
xCCV~500-408141/ 81						

Hg

Linear



A= 0.0000e+000

B= 1.7455e-004

C= -4.7997e-002

Rho= 0.9992755

Accept= Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	-0.087	-0.087	-225	0.000	-225				
0.2ppb	0.200	0.287	0.087	1917	0.0 %	1917				
0.5ppb	0.500	0.496	-0.004	3116	0.0 %	3116				
1.0ppb	1.000	0.970	-0.030	5831	0.0 %	5831				
3.0ppb	3.000	3.094	0.094	18001	0.0 %	18001				
5.0ppb	5.000	4.941	-0.059	28581	0.0 %	28581				

100217R

Method: Hg Operator: Admin Date of Analysis: 02 Nov 2017 08:00:57

Type	Sample ID	Conc.	µ Abs.	Units	Date	Integration Time	Seq ID
S	blank - 1	-	-225	ppb	02 Nov 2017 08:00:58	44.0000	3063
S	0.2ppb - 1	-	1917	ppb	02 Nov 2017 08:02:27	44.0000	3064
S	0.5ppb - 1	-	3116	ppb	02 Nov 2017 08:03:55	44.0000	3065
S	1.0ppb - 1	-	5831	ppb	02 Nov 2017 08:05:23	44.0000	3066
S	3.0ppb - 1	-	18001	ppb	02 Nov 2017 08:06:53	44.0000	3067
S	5.0ppb - 1	-	28581	ppb	02 Nov 2017 08:08:23	44.0000	3068
U	ICV - 1	1.9932	11694	ppb	02 Nov 2017 08:12:48	44.0000	3069
U	ICB - 1	-0.0780	-172	ppb	02 Nov 2017 08:14:13	44.0000	3070
U	CRA - 1	0.2419	1661	ppb	02 Nov 2017 08:15:51	44.0000	3071
U	mb 500-407943/12-a - 1	0.0044	300	ppb	02 Nov 2017 08:40:54	44.0000	3072
U	lcs 500-407943/13-a - 1	2.2439	13130	ppb	02 Nov 2017 08:42:19	44.0000	3073
U	lb3 500-407740/1-c - 1	-0.0702	-127	ppb	02 Nov 2017 08:43:45	44.0000	3074
U	500-136133-a-5-c - 1	0.0098	331	ppb	02 Nov 2017 08:45:25	44.0000	3075
U	500-136390-a-1-c - 1	0.1480	1123	ppb	02 Nov 2017 08:46:52	44.0000	3076
U	500-136438-a-1-d - 1	-0.0529	-28	ppb	02 Nov 2017 08:48:19	44.0000	3077
U	500-136480-e-2-d - 1	0.1684	1240	ppb	02 Nov 2017 08:49:45	44.0000	3078
U	500-136481-e-1-f - 1	0.0765	713	ppb	02 Nov 2017 08:51:13	44.0000	3079
U	lb 500-407789/1-c - 1	0.0000	275	ppb	02 Nov 2017 08:52:42	44.0000	3080
U	CCV - 1	1.0066	6042	ppb	02 Nov 2017 08:54:10	44.0000	3081
U	CCB - 1	-0.0710	-132	ppb	02 Nov 2017 08:55:35	44.0000	3082
U	500-136508-a-1-e - 1	0.0120	344	ppb	02 Nov 2017 08:57:12	44.0000	3083
U	500-136480-b-1-c - 1	0.0094	329	ppb	02 Nov 2017 08:58:38	44.0000	3084
U	500-136503-f-1-e - 1	0.0098	331	ppb	02 Nov 2017 09:00:04	44.0000	3085
U	500-136532-d-1-b - 1	1.2983	7713	ppb	02 Nov 2017 09:01:30	44.0000	3086
U	500-136532-d-2-b - 1	-0.0283	113	ppb	02 Nov 2017 09:02:56	44.0000	3087
U	500-136548-a-1-b - 1	-0.0801	-184	ppb	02 Nov 2017 09:04:29	44.0000	3088
U	500-136436-f-7-b - 1	0.0190	384	ppb	02 Nov 2017 09:05:55	44.0000	3089
U	500-136436-f-7-c du - 1	-0.0480	0	ppb	02 Nov 2017 09:07:24	44.0000	3090
U	500-136436-f-7-d ms - 1	0.5884	3646	ppb	02 Nov 2017 09:08:52	44.0000	3091
U	500-136436-f-7-e msd - 1	0.6610	4062	ppb	02 Nov 2017 09:10:18	44.0000	3092
U	CCV - 1	1.0112	6068	ppb	02 Nov 2017 09:11:59	44.0000	3093
U	CCB - 1	-0.0855	-215	ppb	02 Nov 2017 09:13:41	44.0000	3094
U	500-136360-d-22-b - 1	-0.0031	257	ppb	02 Nov 2017 09:15:14	44.0000	3095
U	500-136360-d-23-b - 1	-0.0031	257	ppb	02 Nov 2017 09:16:40	44.0000	3096
U	500-136360-d-24-b - 1	-0.0030	258	ppb	02 Nov 2017 09:18:06	44.0000	3097
U	500-136360-d-25-b - 1	0.0154	363	ppb	02 Nov 2017 09:19:32	44.0000	3098
U	500-136360-d-26-b - 1	0.0230	407	ppb	02 Nov 2017 09:20:58	44.0000	3099
U	500-136360-d-27-b - 1	0.0269	429	ppb	02 Nov 2017 09:22:24	44.0000	3100
U	500-136360-d-28-b - 1	-0.0061	240	ppb	02 Nov 2017 09:23:50	44.0000	3101
U	500-136360-d-29-b - 1	0.0120	344	ppb	02 Nov 2017 09:25:18	44.0000	3102
U	mb 500-407945/12-a - 1	0.0005	278	ppb	02 Nov 2017 09:26:44	44.0000	3103
U	lcs 500-407945/13-a - 1	1.9663	11540	ppb	02 Nov 2017 09:28:12	44.0000	3104
U	CCV - 1	0.9508	5722	ppb	02 Nov 2017 09:29:39	44.0000	3105
U	CCB - 1	-0.0545	-37	ppb	02 Nov 2017 09:31:20	44.0000	3106
U	500-136333-b-1-b - 1	0.0353	477	ppb	02 Nov 2017 09:32:55	44.0000	3107
U	500-136378-a-1-a - 1	-0.0140	195	ppb	02 Nov 2017 09:34:21	44.0000	3108
U	500-136380-a-1-c - 1	0.0101	333	ppb	02 Nov 2017 09:35:49	44.0000	3109
U	500-136384-a-1-b - 1	0.0134	352	ppb	02 Nov 2017 09:37:15	44.0000	3110
U	500-136388-b-1-a - 1	5.9794	34531	ppb	02 Nov 2017 09:38:41	44.0000	3111
U	500-136388-b-2-a - 1	0.1842	1330	ppb	02 Nov 2017 09:40:07	44.0000	3112
U	500-136388-b-3-a - 1	-0.0373	61	ppb	02 Nov 2017 09:42:01	44.0000	3113
U	500-136538-b-1-b - 1	0.1505	1137	ppb	02 Nov 2017 09:43:29	44.0000	3114
U	500-136371-g-1-f - 1	-0.0342	79	ppb	02 Nov 2017 09:44:55	44.0000	3115
U	500-136371-g-2-c - 1	0.0216	399	ppb	02 Nov 2017 09:46:23	44.0000	3116
U	CCV - 1	1.0492	6286	ppb	02 Nov 2017 09:47:53	44.0000	3117
U	CCB - 1	-0.1011	-304	ppb	02 Nov 2017 09:49:19	44.0000	3118
U	500-136371-g-3-c - 1	0.0625	633	ppb	02 Nov 2017 09:50:54	44.0000	3119
U	500-136371-g-4-c - 1	-0.0257	128	ppb	02 Nov 2017 09:52:20	44.0000	3120
U	500-136371-g-5-f - 1	-0.0145	192	ppb	02 Nov 2017 09:53:47	44.0000	3121
U	500-136371-g-6-c - 1	0.0007	279	ppb	02 Nov 2017 09:55:13	44.0000	3122
U	500-136382-l-5-b - 1	0.0299	446	ppb	02 Nov 2017 09:56:40	44.0000	3123
U	500-136382-l-5-c du - 1	0.0260	424	ppb	02 Nov 2017 09:58:06	44.0000	3124
U	500-136382-l-5-d ms - 1	1.0169	6101	ppb	02 Nov 2017 09:59:32	44.0000	3125
U	500-136382-l-5-e msd - 1	0.9112	5495	ppb	02 Nov 2017 10:00:58	44.0000	3126
U	500-136433-k-2-e - 1	-0.0965	-278	ppb	02 Nov 2017 10:02:33	44.0000	3127
U	500-136431-f-1-b - 1	0.0133	351	ppb	02 Nov 2017 10:04:09	44.0000	3128
U	CCV - 1	1.0955	6551	ppb	02 Nov 2017 10:08:11	44.0000	3129
U	CCB - 1	0.0012	282	ppb	02 Nov 2017 10:09:36	44.0000	3130
U	500-136431-g-1-b - 1	0.0431	522	ppb	02 Nov 2017 10:11:12	44.0000	3131
U	500-136431-f-2-b - 1	0.0180	378	ppb	02 Nov 2017 10:12:38	44.0000	3132
U	500-136431-g-2-b - 1	0.0094	329	ppb	02 Nov 2017 10:14:04	44.0000	3133
U	500-136388-b-1-a@5 - 1	1.1653	6951	ppb	02 Nov 2017 10:15:29	44.0000	3134
U	mb 500-407944/12-a - 1	-0.0380	57	ppb	02 Nov 2017 10:16:54	44.0000	3135
U	lcs 500-407944/13-a - 1	1.9558	11480	ppb	02 Nov 2017 10:18:35	44.0000	3136
U	500-136360-d-1-b - 1	-0.0506	-15	ppb	02 Nov 2017 10:20:01	44.0000	3137
U	500-136360-d-1-c du - 1	-0.0087	225	ppb	02 Nov 2017 10:21:43	44.0000	3138

100217R

Method: Hg Operator: Admin Date of Analysis: 02 Nov 2017 08:00:57

Type	Sample ID	Conc.	µ Abs.	Units	Date	Integration Time	Seq ID
U	500-136360-d-1-d ms - 1	0.9754	5863	ppb	02 Nov 2017 10:23:10	44.0000	3139
U	500-136360-d-1-e msd - 1	-0.0784	-174	ppb	02 Nov 2017 10:24:37	44.0000	3140
U	CCV - 1	-0.0569	-51	ppb	02 Nov 2017 10:26:11	44.0000	3141
U	CCB - 1	-0.0480	0	ppb	02 Nov 2017 10:27:37	44.0000	3142
U	CCV - 1	-0.0480	0	ppb	02 Nov 2017 10:30:17	44.0000	3143

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

500-136532 COC

500-136532

PROJ. NO.	PROJECT NAME	Activity Code:
	CHICAGO RIVER MYSTERY SPILL	

SAMPLERS: *(Print Name and Sign)*
MATT VILLICANA

STA. NO.	DATE	TIME	COMP.	GRAB	~~STATION LOCATION~~ SAMPLE NAME	NO. OF CONTAINERS	Analyte: VOC	SVOC	Metals - RCRA8	PCB			TAG NUMBERS
1	10/31/17	0805	X		CRMS-SW-02-103117	7	X	X	X	X			7-DAY TAT
2	10/31/17	~~0825~~ 0825	X		CRMS-SW-03-103117	7	X	X	X	X			7-DAY TAT
3					Trip Blank								Added by TA

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
	10/31/17 10:30	
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)* / Date / Time
		10/31/17 1030

~~Ship To:~~ CLIENT:
MATT VILLICANA - TETRA TECH
1 S. WACKER DR.
37TH FLOOR
CHICAGO, IL 60606
MATT.VILLICANA@TETRATECH.COM
ATTN: (708) 502-1513

Airbill Number: N/A

Chain of Custody Seal Numbers: N/A

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

5-63684

Login Sample Receipt Checklist

Client: Tetra Tech EM Inc.

Job Number: 500-136532-1

Login Number: 136532
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-136788-1

Job Description: Chicago River Mystery Spill

For:
Tetra Tech EM Inc.
1 South Wacker Drive 37 Floor
Ste. 3700
Chicago, IL 60606

Attention: Mr. Matt Villicana

Approved for release.
Therese M Hargraves
Project Manager I
11/14/2017 5:04 PM

Therese M Hargraves, Project Manager I
2417 Bond Street, University Park, IL, 60484
therese.hargraves@testamericainc.com
11/14/2017

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID# is 100201.

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

Table of Contents

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
500-136788-1

Comments
No additional comments.

Receipt
The sample was received on 11/3/2017 5:56 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for 409330 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: CRMS-SW-04-110317 (500-136788-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following analyte has been identified, in the reference method and/or via historical data, to be poor and/or erratic performer: Benzaldehyde. This analyte may have a %D>60% if the average %D of all the analytes in the initial calibration verification (ICV) is 30%. ICV 500-407173/13 had Benzaldehyde at 62.4%D, biased low.

Method(s) 8270D: The continuing calibration verification (CCVIS) associated with batch 500-408793 recovered above the upper control limit for 2,4-Dinitrophenol. The samples associated with this CCVIS were non-detect for the affected analyte; therefore, the data has been reported. The following sample is impacted: (CCVIS 500-408793/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: %D fell below the control limit for PCB-1260 peak 1, PCB-1260 peak 2, and PCB-1260 peak 3 in the following continuing calibration verification (CCVIS): (CCVIS 500-408581/1). This CCVIS was used for retention time only.

Method(s) 8082A: %D fell below the control limit for PCB-1260 peak 1 (-24.4%) and PCB-1260 peak 3 (-23.7%) in the following continuing calibration verification (CCV): (CCV 500-408581/43); however, all other peaks were within control limits. Data has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The following sample was diluted due to the nature of the sample matrix: CRMS-SW-04-110317 (500-136788-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136788-1

Client Sample ID: CRMS-SW-04-110317

Lab Sample ID: 500-136788-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.9		5.0	1.7	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	1.6	J	16	0.52	ug/L	10		8270D	Total/NA
Phenanthrene	3.6	J	8.0	2.4	ug/L	10		8270D	Total/NA
Pyrene	5.2	J	8.0	3.4	ug/L	10		8270D	Total/NA
Barium	0.12		0.050	0.0062	mg/L	5		6010C	Total/NA
Cadmium	0.0035	J B	0.010	0.0022	mg/L	5		6010C	Total/NA
Chromium	0.022	J	0.050	0.0085	mg/L	5		6010C	Total/NA
Lead	0.061		0.025	0.014	mg/L	5		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: CRMS-SW-04-110317

Date Collected: 11/03/17 15:35
Date Received: 11/03/17 17:56

Lab Sample ID: 500-136788-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0	0.38	ug/L			11/10/17 17:48	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40	ug/L			11/10/17 17:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46	ug/L			11/10/17 17:48	1
1,1,2-Trichloroethane	<1.0		1.0	0.35	ug/L			11/10/17 17:48	1
1,1-Dichloroethane	<1.0		1.0	0.41	ug/L			11/10/17 17:48	1
1,1-Dichloroethene	<1.0		1.0	0.39	ug/L			11/10/17 17:48	1
1,2,4-Trichlorobenzene	<1.0		1.0	0.34	ug/L			11/10/17 17:48	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0	ug/L			11/10/17 17:48	1
1,2-Dibromoethane	<1.0		1.0	0.39	ug/L			11/10/17 17:48	1
1,2-Dichlorobenzene	<1.0		1.0	0.33	ug/L			11/10/17 17:48	1
1,2-Dichloroethane	<1.0		1.0	0.39	ug/L			11/10/17 17:48	1
1,2-Dichloropropane	<1.0		1.0	0.43	ug/L			11/10/17 17:48	1
1,3-Dichlorobenzene	<1.0		1.0	0.40	ug/L			11/10/17 17:48	1
1,4-Dichlorobenzene	<1.0		1.0	0.36	ug/L			11/10/17 17:48	1
2-Hexanone	<5.0		5.0	1.6	ug/L			11/10/17 17:48	1
Acetone	**6.9**		5.0	1.7	ug/L			11/10/17 17:48	1
Benzene	<0.50		0.50	0.15	ug/L			11/10/17 17:48	1
Bromodichloromethane	<1.0		1.0	0.37	ug/L			11/10/17 17:48	1
Bromoform	<1.0		1.0	0.48	ug/L			11/10/17 17:48	1
Bromomethane	<2.0	* F1 F2	2.0	0.80	ug/L			11/10/17 17:48	1
Carbon disulfide	<2.0		2.0	0.45	ug/L			11/10/17 17:48	1
Carbon tetrachloride	<1.0		1.0	0.38	ug/L			11/10/17 17:48	1
Chlorobenzene	<1.0		1.0	0.39	ug/L			11/10/17 17:48	1
Chloroethane	<1.0	* F1 F2	1.0	0.51	ug/L			11/10/17 17:48	1
Chloroform	<2.0		2.0	0.37	ug/L			11/10/17 17:48	1
Chloromethane	<1.0	F2	1.0	0.32	ug/L			11/10/17 17:48	1
cis-1,2-Dichloroethene	<1.0		1.0	0.41	ug/L			11/10/17 17:48	1
cis-1,3-Dichloropropene	<1.0		1.0	0.42	ug/L			11/10/17 17:48	1
Cyclohexane	<1.0		1.0	0.49	ug/L			11/10/17 17:48	1
Dibromochloromethane	<1.0		1.0	0.49	ug/L			11/10/17 17:48	1
Dichlorodifluoromethane	<2.0	F2	2.0	0.67	ug/L			11/10/17 17:48	1
Ethylbenzene	<0.50		0.50	0.18	ug/L			11/10/17 17:48	1
Isopropylbenzene	<1.0		1.0	0.39	ug/L			11/10/17 17:48	1
Methyl acetate	<5.0		5.0	2.0	ug/L			11/10/17 17:48	1
Methyl Ethyl Ketone	<5.0		5.0	2.1	ug/L			11/10/17 17:48	1
methyl isobutyl ketone	<5.0		5.0	2.2	ug/L			11/10/17 17:48	1
Methyl tert-butyl ether	<1.0		1.0	0.39	ug/L			11/10/17 17:48	1
Methylcyclohexane	<1.0		1.0	0.32	ug/L			11/10/17 17:48	1
Methylene Chloride	<5.0		5.0	1.6	ug/L			11/10/17 17:48	1
Styrene	<1.0		1.0	0.39	ug/L			11/10/17 17:48	1
Tetrachloroethene	<1.0		1.0	0.37	ug/L			11/10/17 17:48	1
Toluene	<0.50		0.50	0.15	ug/L			11/10/17 17:48	1
trans-1,2-Dichloroethene	<1.0		1.0	0.35	ug/L			11/10/17 17:48	1
trans-1,3-Dichloropropene	<1.0		1.0	0.36	ug/L			11/10/17 17:48	1
Trichloroethene	<0.50		0.50	0.16	ug/L			11/10/17 17:48	1
Trichlorofluoromethane	<1.0	F2	1.0	0.43	ug/L			11/10/17 17:48	1
Vinyl chloride	<0.50	F2	0.50	0.20	ug/L			11/10/17 17:48	1
Xylenes, Total	<1.0		1.0	0.22	ug/L			11/10/17 17:48	1

Client Sample ID: CRMS-SW-04-110317 Lab Sample ID: 500-136788-1

Date Collected: 11/03/17 15:35 **Matrix: Water**
Date Received: 11/03/17 17:56

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*11/10/17 17:48*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*11/10/17 17:48*	*1*
Dibromofluoromethane	*90*		*75 - 120*		*11/10/17 17:48*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*11/10/17 17:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<320	^	320	120	ug/L		11/07/17 08:30	11/07/17 18:50	10
Phenol	<40		40	5.4	ug/L		11/07/17 08:30	11/07/17 18:50	10
Bis(2-chloroethyl)ether	<16		16	2.3	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Chlorophenol	<40		40	4.5	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Methylphenol	<16		16	2.4	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,2'-oxybis[1-chloropropane]	<16		16	3.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
Acetophenone	<40		40	5.3	ug/L		11/07/17 08:30	11/07/17 18:50	10
N-Nitrosodi-n-propylamine	<4.0		4.0	1.2	ug/L		11/07/17 08:30	11/07/17 18:50	10
Hexachloroethane	<40		40	4.8	ug/L		11/07/17 08:30	11/07/17 18:50	10
Nitrobenzene	<8.0		8.0	3.6	ug/L		11/07/17 08:30	11/07/17 18:50	10
Isophorone	<16		16	3.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Nitrophenol	<80		80	20	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4-Dimethylphenol	<80		80	14	ug/L		11/07/17 08:30	11/07/17 18:50	10
Bis(2-chloroethoxy)methane	<16		16	2.3	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4-Dichlorophenol	<80		80	21	ug/L		11/07/17 08:30	11/07/17 18:50	10
Naphthalene	<8.0		8.0	2.5	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Chloroaniline	<80		80	16	ug/L		11/07/17 08:30	11/07/17 18:50	10
Hexachlorobutadiene	<40		40	4.1	ug/L		11/07/17 08:30	11/07/17 18:50	10
Caprolactam	<80		80	12	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Chloro-3-methylphenol	<80		80	18	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Methylnaphthalene	**1.6**	**J**	16	0.52	ug/L		11/07/17 08:30	11/07/17 18:50	10
Hexachlorocyclopentadiene	<160		160	51	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4,6-Trichlorophenol	<40		40	5.7	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4,5-Trichlorophenol	<80		80	21	ug/L		11/07/17 08:30	11/07/17 18:50	10
1,1'-Biphenyl	<40		40	2.9	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Chloronaphthalene	<16		16	1.9	ug/L		11/07/17 08:30	11/07/17 18:50	10
2-Nitroaniline	<40		40	10	ug/L		11/07/17 08:30	11/07/17 18:50	10
Dimethyl phthalate	<40		40	2.5	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,6-Dinitrotoluene	<8.0		8.0	0.59	ug/L		11/07/17 08:30	11/07/17 18:50	10
Acenaphthylene	<8.0		8.0	2.1	ug/L		11/07/17 08:30	11/07/17 18:50	10
3-Nitroaniline	<80		80	14	ug/L		11/07/17 08:30	11/07/17 18:50	10
Acenaphthene	<8.0		8.0	2.5	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4-Dinitrophenol	<160		160	69	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Nitrophenol	<160		160	59	ug/L		11/07/17 08:30	11/07/17 18:50	10
Dibenzofuran	<16		16	2.1	ug/L		11/07/17 08:30	11/07/17 18:50	10
2,4-Dinitrotoluene	<8.0		8.0	2.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
Diethyl phthalate	<40		40	2.9	ug/L		11/07/17 08:30	11/07/17 18:50	10
Fluorene	<8.0		8.0	2.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Chlorophenyl phenyl ether	<40		40	5.1	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Nitroaniline	<80		80	13	ug/L		11/07/17 08:30	11/07/17 18:50	10
4,6-Dinitro-2-methylphenol	<160		160	47	ug/L		11/07/17 08:30	11/07/17 18:50	10
N-Nitrosodiphenylamine	<16		16	3.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
4-Bromophenyl phenyl ether	<40		40	4.3	ug/L		11/07/17 08:30	11/07/17 18:50	10

Client Sample ID: CRMS-SW-04-110317 **Lab Sample ID: 500-136788-1**
Date Collected: 11/03/17 15:35 **Matrix: Water**
Date Received: 11/03/17 17:56

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<4.0		4.0	0.64	ug/L		11/07/17 08:30	11/07/17 18:50	10
Atrazine	<40		40	5.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
Pentachlorophenol	<160		160	32	ug/L		11/07/17 08:30	11/07/17 18:50	10
Phenanthrene	**3.6**	**J**	8.0	2.4	ug/L		11/07/17 08:30	11/07/17 18:50	10
Anthracene	<8.0		8.0	2.7	ug/L		11/07/17 08:30	11/07/17 18:50	10
Carbazole	<40		40	2.8	ug/L		11/07/17 08:30	11/07/17 18:50	10
Di-n-butyl phthalate	<40		40	5.8	ug/L		11/07/17 08:30	11/07/17 18:50	10
Fluoranthene	<8.0		8.0	3.6	ug/L		11/07/17 08:30	11/07/17 18:50	10
Pyrene	**5.2**	**J**	8.0	3.4	ug/L		11/07/17 08:30	11/07/17 18:50	10
Butyl benzyl phthalate	<16		16	3.8	ug/L		11/07/17 08:30	11/07/17 18:50	10
3,3'-Dichlorobenzidine	<40		40	14	ug/L		11/07/17 08:30	11/07/17 18:50	10
Benzo[a]anthracene	<1.6		1.6	0.45	ug/L		11/07/17 08:30	11/07/17 18:50	10
Chrysene	<1.6		1.6	0.55	ug/L		11/07/17 08:30	11/07/17 18:50	10
Bis(2-ethylhexyl) phthalate	<80		80	14	ug/L		11/07/17 08:30	11/07/17 18:50	10
Di-n-octyl phthalate	<80		80	8.4	ug/L		11/07/17 08:30	11/07/17 18:50	10
Benzo[b]fluoranthene	<1.6		1.6	0.65	ug/L		11/07/17 08:30	11/07/17 18:50	10
Benzo[k]fluoranthene	<1.6		1.6	0.51	ug/L		11/07/17 08:30	11/07/17 18:50	10
Benzo[a]pyrene	<1.6		1.6	0.79	ug/L		11/07/17 08:30	11/07/17 18:50	10
Indeno[1,2,3-cd]pyrene	<1.6		1.6	0.60	ug/L		11/07/17 08:30	11/07/17 18:50	10
Dibenz(a,h)anthracene	<2.4		2.4	0.41	ug/L		11/07/17 08:30	11/07/17 18:50	10
Benzo[g,h,i]perylene	<8.0		8.0	3.0	ug/L		11/07/17 08:30	11/07/17 18:50	10
3 & 4 Methylphenol	<16		16	3.6	ug/L		11/07/17 08:30	11/07/17 18:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*94*		*27 - 110*	*11/07/17 08:30*	*11/07/17 18:50*	*10*
Phenol-d5 (Surr)	*53*		*20 - 100*	*11/07/17 08:30*	*11/07/17 18:50*	*10*
Nitrobenzene-d5 (Surr)	*88*		*36 - 120*	*11/07/17 08:30*	*11/07/17 18:50*	*10*
2-Fluorobiphenyl (Surr)	*93*		*34 - 110*	*11/07/17 08:30*	*11/07/17 18:50*	*10*
2,4,6-Tribromophenol (Surr)	*92*		*40 - 145*	*11/07/17 08:30*	*11/07/17 18:50*	*10*
Terphenyl-d14 (Surr)	*99*		*40 - 145*	*11/07/17 08:30*	*11/07/17 18:50*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.40		0.40	0.067	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1221	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1232	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1242	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1248	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1254	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/07/17 01:40	1
PCB-1260	<0.40		0.40	0.070	ug/L		11/06/17 08:38	11/07/17 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*30 - 120*	*11/06/17 08:38*	*11/07/17 01:40*	*1*
DCB Decachlorobiphenyl	*107*		*30 - 140*	*11/06/17 08:38*	*11/07/17 01:40*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.018	mg/L		11/07/17 07:38	11/07/17 18:06	5
Barium	**0.12**		0.050	0.0062	mg/L		11/07/17 07:38	11/07/17 18:06	5
Cadmium	**0.0035**	**J B**	0.010	0.0022	mg/L		11/07/17 07:38	11/07/17 18:06	5

Client Sample ID: CRMS-SW-04-110317 **Lab Sample ID: 500-136788-1**
Date Collected: 11/03/17 15:35 **Matrix: Water**
Date Received: 11/03/17 17:56

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.022**	**J**	0.050	0.0085	mg/L		11/07/17 07:38	11/07/17 18:06	5
Lead	**0.061**		0.025	0.014	mg/L		11/07/17 07:38	11/07/17 18:06	5
Selenium	<0.050		0.050	0.027	mg/L		11/07/17 07:38	11/07/17 18:06	5
Silver	<0.025		0.025	0.0074	mg/L		11/07/17 07:38	11/07/17 18:06	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.098	ug/L		11/06/17 14:30	11/07/17 07:08	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	RL	MDL	Units	Method
1,1,1-Trichloroethane	1.0	0.38	ug/L	8260B
1,1,2,2-Tetrachloroethane	1.0	0.40	ug/L	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	0.46	ug/L	8260B
1,1,2-Trichloroethane	1.0	0.35	ug/L	8260B
1,1-Dichloroethane	1.0	0.41	ug/L	8260B
1,1-Dichloroethene	1.0	0.39	ug/L	8260B
1,2,4-Trichlorobenzene	1.0	0.34	ug/L	8260B
1,2-Dibromo-3-Chloropropane	5.0	2.0	ug/L	8260B
1,2-Dibromoethane	1.0	0.39	ug/L	8260B
1,2-Dichlorobenzene	1.0	0.33	ug/L	8260B
1,2-Dichloroethane	1.0	0.39	ug/L	8260B
1,2-Dichloropropane	1.0	0.43	ug/L	8260B
1,3-Dichlorobenzene	1.0	0.40	ug/L	8260B
1,4-Dichlorobenzene	1.0	0.36	ug/L	8260B
2-Hexanone	5.0	1.6	ug/L	8260B
Acetone	5.0	1.7	ug/L	8260B
Benzene	0.50	0.15	ug/L	8260B
Bromodichloromethane	1.0	0.37	ug/L	8260B
Bromoform	1.0	0.48	ug/L	8260B
Bromomethane	2.0	0.80	ug/L	8260B
Carbon disulfide	2.0	0.45	ug/L	8260B
Carbon tetrachloride	1.0	0.38	ug/L	8260B
Chlorobenzene	1.0	0.39	ug/L	8260B
Chloroethane	1.0	0.51	ug/L	8260B
Chloroform	2.0	0.37	ug/L	8260B
Chloromethane	1.0	0.32	ug/L	8260B
cis-1,2-Dichloroethene	1.0	0.41	ug/L	8260B
cis-1,3-Dichloropropene	1.0	0.42	ug/L	8260B
Cyclohexane	1.0	0.49	ug/L	8260B
Dibromochloromethane	1.0	0.49	ug/L	8260B
Dichlorodifluoromethane	2.0	0.67	ug/L	8260B
Ethylbenzene	0.50	0.18	ug/L	8260B
Isopropylbenzene	1.0	0.39	ug/L	8260B
Methyl acetate	5.0	2.0	ug/L	8260B
Methyl Ethyl Ketone	5.0	2.1	ug/L	8260B
methyl isobutyl ketone	5.0	2.2	ug/L	8260B
Methyl tert-butyl ether	1.0	0.39	ug/L	8260B
Methylcyclohexane	1.0	0.32	ug/L	8260B
Methylene Chloride	5.0	1.6	ug/L	8260B
Styrene	1.0	0.39	ug/L	8260B
Tetrachloroethene	1.0	0.37	ug/L	8260B
Toluene	0.50	0.15	ug/L	8260B
trans-1,2-Dichloroethene	1.0	0.35	ug/L	8260B
trans-1,3-Dichloropropene	1.0	0.36	ug/L	8260B
Trichloroethene	0.50	0.16	ug/L	8260B
Trichlorofluoromethane	1.0	0.43	ug/L	8260B
Vinyl chloride	0.50	0.20	ug/L	8260B
Xylenes, Total	1.0	0.22	ug/L	8260B

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Prep: 3510C

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Prep: 3510C

Analyte	RL	MDL	Units	Method
1,1'-Biphenyl	4.0	0.29	ug/L	8270D
2,2'-oxybis[1-chloropropane]	1.6	0.30	ug/L	8270D
2,4,5-Trichlorophenol	8.0	2.1	ug/L	8270D
2,4,6-Trichlorophenol	4.0	0.57	ug/L	8270D
2,4-Dichlorophenol	8.0	2.1	ug/L	8270D
2,4-Dimethylphenol	8.0	1.4	ug/L	8270D
2,4-Dinitrophenol	16	6.9	ug/L	8270D
2,4-Dinitrotoluene	0.80	0.20	ug/L	8270D
2,6-Dinitrotoluene	0.80	0.059	ug/L	8270D
2-Chloronaphthalene	1.6	0.19	ug/L	8270D
2-Chlorophenol	4.0	0.45	ug/L	8270D
2-Methylnaphthalene	1.6	0.052	ug/L	8270D
2-Methylphenol	1.6	0.24	ug/L	8270D
2-Nitroaniline	4.0	1.0	ug/L	8270D
2-Nitrophenol	8.0	2.0	ug/L	8270D
3 & 4 Methylphenol	1.6	0.36	ug/L	8270D
3,3'-Dichlorobenzidine	4.0	1.4	ug/L	8270D
3-Nitroaniline	8.0	1.4	ug/L	8270D
4,6-Dinitro-2-methylphenol	16	4.7	ug/L	8270D
4-Bromophenyl phenyl ether	4.0	0.43	ug/L	8270D
4-Chloro-3-methylphenol	8.0	1.8	ug/L	8270D
4-Chloroaniline	8.0	1.6	ug/L	8270D
4-Chlorophenyl phenyl ether	4.0	0.51	ug/L	8270D
4-Nitroaniline	8.0	1.3	ug/L	8270D
4-Nitrophenol	16	5.9	ug/L	8270D
Acenaphthene	0.80	0.25	ug/L	8270D
Acenaphthylene	0.80	0.21	ug/L	8270D
Acetophenone	4.0	0.53	ug/L	8270D
Anthracene	0.80	0.27	ug/L	8270D
Atrazine	4.0	0.50	ug/L	8270D
Benzaldehyde	32	12	ug/L	8270D
Benzo[a]anthracene	0.16	0.045	ug/L	8270D
Benzo[a]pyrene	0.16	0.079	ug/L	8270D
Benzo[b]fluoranthene	0.16	0.065	ug/L	8270D
Benzo[g,h,i]perylene	0.80	0.30	ug/L	8270D
Benzo[k]fluoranthene	0.16	0.051	ug/L	8270D
Bis(2-chloroethoxy)methane	1.6	0.23	ug/L	8270D
Bis(2-chloroethyl)ether	1.6	0.23	ug/L	8270D
Bis(2-ethylhexyl) phthalate	8.0	1.4	ug/L	8270D
Butyl benzyl phthalate	1.6	0.38	ug/L	8270D
Caprolactam	8.0	1.2	ug/L	8270D
Carbazole	4.0	0.28	ug/L	8270D
Chrysene	0.16	0.055	ug/L	8270D
Dibenz(a,h)anthracene	0.24	0.041	ug/L	8270D
Dibenzofuran	1.6	0.21	ug/L	8270D
Diethyl phthalate	4.0	0.29	ug/L	8270D
Dimethyl phthalate	4.0	0.25	ug/L	8270D
Di-n-butyl phthalate	4.0	0.58	ug/L	8270D
Di-n-octyl phthalate	8.0	0.84	ug/L	8270D
Fluoranthene	0.80	0.36	ug/L	8270D
Fluorene	0.80	0.20	ug/L	8270D

Default Detection Limits

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136788-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Prep: 3510C

Analyte	RL	MDL	Units	Method
Hexachlorobenzene	0.40	0.064	ug/L	8270D
Hexachlorobutadiene	4.0	0.41	ug/L	8270D
Hexachlorocyclopentadiene	16	5.1	ug/L	8270D
Hexachloroethane	4.0	0.48	ug/L	8270D
Indeno[1,2,3-cd]pyrene	0.16	0.060	ug/L	8270D
Isophorone	1.6	0.30	ug/L	8270D
Naphthalene	0.80	0.25	ug/L	8270D
Nitrobenzene	0.80	0.36	ug/L	8270D
N-Nitrosodi-n-propylamine	0.40	0.12	ug/L	8270D
N-Nitrosodiphenylamine	1.6	0.30	ug/L	8270D
Pentachlorophenol	16	3.2	ug/L	8270D
Phenanthrene	0.80	0.24	ug/L	8270D
Phenol	4.0	0.54	ug/L	8270D
Pyrene	0.80	0.34	ug/L	8270D

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Prep: 3510C

Analyte	RL	MDL	Units	Method
PCB-1016	0.40	0.067	ug/L	8082A
PCB-1221	0.40	0.20	ug/L	8082A
PCB-1232	0.40	0.20	ug/L	8082A
PCB-1242	0.40	0.20	ug/L	8082A
PCB-1248	0.40	0.20	ug/L	8082A
PCB-1254	0.40	0.20	ug/L	8082A
PCB-1260	0.40	0.070	ug/L	8082A

Method: 6010C - Metals (ICP)

Prep: 3010A

Analyte	RL	MDL	Units	Method
Arsenic	0.010	0.0037	mg/L	6010C
Barium	0.010	0.0012	mg/L	6010C
Cadmium	0.0020	0.00043	mg/L	6010C
Chromium	0.010	0.0017	mg/L	6010C
Lead	0.0050	0.0027	mg/L	6010C
Selenium	0.010	0.0053	mg/L	6010C
Silver	0.0050	0.0015	mg/L	6010C

Method: 7470A - Mercury (CVAA)

Prep: 7470A

Analyte	RL	MDL	Units	Method
Mercury	0.20	0.098	ug/L	7470A

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136788-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-136788-1	CRMS-SW-04-110317	84	95	90	88
500-136788-1 MS	CRMS-SW-04-110317	81	89	97	87
500-136788-1 MSD	CRMS-SW-04-110317	83	88	91	92
LCS 500-409330/21	Lab Control Sample	80	83	90	94
MB 500-409330/6	Method Blank	80	96	89	86

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPH
Lab Sample ID	Client Sample ID	(27-110)	(20-100)	(36-120)	(34-110)	(40-145)	(40-145)
500-136788-1	CRMS-SW-04-110317	94	53	88	93	92	99
LCS 500-408755/2-A	Lab Control Sample	78	58	85	79	92	94
LCSD 500-408755/3-A	Lab Control Sample Dup	75	57	85	78	91	100
MB 500-408755/1-A	Method Blank	77	50	83	74	80	95

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(30-120)	(30-140)
500-136788-1	CRMS-SW-04-110317	65	107
LCS 500-408564/2-A	Lab Control Sample	77	53
LCSD 500-408564/3-A	Lab Control Sample Dup	72	50
MB 500-408564/1-A	Method Blank	73	52

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-409330/6
Matrix: Water
Analysis Batch: 409330

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0	0.38	ug/L			11/10/17 10:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40	ug/L			11/10/17 10:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46	ug/L			11/10/17 10:41	1
1,1,2-Trichloroethane	<1.0		1.0	0.35	ug/L			11/10/17 10:41	1
1,1-Dichloroethane	<1.0		1.0	0.41	ug/L			11/10/17 10:41	1
1,1-Dichloroethene	<1.0		1.0	0.39	ug/L			11/10/17 10:41	1
1,2,4-Trichlorobenzene	<1.0		1.0	0.34	ug/L			11/10/17 10:41	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0	ug/L			11/10/17 10:41	1
1,2-Dibromoethane	<1.0		1.0	0.39	ug/L			11/10/17 10:41	1
1,2-Dichlorobenzene	<1.0		1.0	0.33	ug/L			11/10/17 10:41	1
1,2-Dichloroethane	<1.0		1.0	0.39	ug/L			11/10/17 10:41	1
1,2-Dichloropropane	<1.0		1.0	0.43	ug/L			11/10/17 10:41	1
1,3-Dichlorobenzene	<1.0		1.0	0.40	ug/L			11/10/17 10:41	1
1,4-Dichlorobenzene	<1.0		1.0	0.36	ug/L			11/10/17 10:41	1
2-Hexanone	<5.0		5.0	1.6	ug/L			11/10/17 10:41	1
Acetone	<5.0		5.0	1.7	ug/L			11/10/17 10:41	1
Benzene	<0.50		0.50	0.15	ug/L			11/10/17 10:41	1
Bromodichloromethane	<1.0		1.0	0.37	ug/L			11/10/17 10:41	1
Bromoform	<1.0		1.0	0.48	ug/L			11/10/17 10:41	1
Bromomethane	<2.0		2.0	0.80	ug/L			11/10/17 10:41	1
Carbon disulfide	<2.0		2.0	0.45	ug/L			11/10/17 10:41	1
Carbon tetrachloride	<1.0		1.0	0.38	ug/L			11/10/17 10:41	1
Chlorobenzene	<1.0		1.0	0.39	ug/L			11/10/17 10:41	1
Chloroethane	<1.0		1.0	0.51	ug/L			11/10/17 10:41	1
Chloroform	<2.0		2.0	0.37	ug/L			11/10/17 10:41	1
Chloromethane	<1.0		1.0	0.32	ug/L			11/10/17 10:41	1
cis-1,2-Dichloroethene	<1.0		1.0	0.41	ug/L			11/10/17 10:41	1
cis-1,3-Dichloropropene	<1.0		1.0	0.42	ug/L			11/10/17 10:41	1
Cyclohexane	<1.0		1.0	0.49	ug/L			11/10/17 10:41	1
Dibromochloromethane	<1.0		1.0	0.49	ug/L			11/10/17 10:41	1
Dichlorodifluoromethane	<2.0		2.0	0.67	ug/L			11/10/17 10:41	1
Ethylbenzene	<0.50		0.50	0.18	ug/L			11/10/17 10:41	1
Isopropylbenzene	<1.0		1.0	0.39	ug/L			11/10/17 10:41	1
Methyl acetate	<5.0		5.0	2.0	ug/L			11/10/17 10:41	1
Methyl Ethyl Ketone	<5.0		5.0	2.1	ug/L			11/10/17 10:41	1
methyl isobutyl ketone	<5.0		5.0	2.2	ug/L			11/10/17 10:41	1
Methyl tert-butyl ether	<1.0		1.0	0.39	ug/L			11/10/17 10:41	1
Methylcyclohexane	<1.0		1.0	0.32	ug/L			11/10/17 10:41	1
Methylene Chloride	<5.0		5.0	1.6	ug/L			11/10/17 10:41	1
Styrene	<1.0		1.0	0.39	ug/L			11/10/17 10:41	1
Tetrachloroethene	<1.0		1.0	0.37	ug/L			11/10/17 10:41	1
Toluene	<0.50		0.50	0.15	ug/L			11/10/17 10:41	1
trans-1,2-Dichloroethene	<1.0		1.0	0.35	ug/L			11/10/17 10:41	1
trans-1,3-Dichloropropene	<1.0		1.0	0.36	ug/L			11/10/17 10:41	1
Trichloroethene	<0.50		0.50	0.16	ug/L			11/10/17 10:41	1
Trichlorofluoromethane	<1.0		1.0	0.43	ug/L			11/10/17 10:41	1
Vinyl chloride	<0.50		0.50	0.20	ug/L			11/10/17 10:41	1
Xylenes, Total	<1.0		1.0	0.22	ug/L			11/10/17 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 126*		*11/10/17 10:41*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*11/10/17 10:41*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*11/10/17 10:41*	*1*
Toluene-d8 (Surr)	*86*		*75 - 120*		*11/10/17 10:41*	*1*

Lab Sample ID: LCS 500-409330/21
Matrix: Water
Analysis Batch: 409330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	57.1		ug/L		114	70 - 125
1,1,2,2-Tetrachloroethane	50.0	39.5		ug/L		79	67 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.6		ug/L		115	70 - 123
1,1,2-Trichloroethane	50.0	41.9		ug/L		84	70 - 122
1,1-Dichloroethane	50.0	50.7		ug/L		101	70 - 125
1,1-Dichloroethene	50.0	56.0		ug/L		112	67 - 122
1,2,4-Trichlorobenzene	50.0	43.2		ug/L		86	66 - 127
1,2-Dibromo-3-Chloropropane	50.0	33.6		ug/L		67	56 - 123
1,2-Dibromoethane	50.0	40.6		ug/L		81	70 - 125
1,2-Dichlorobenzene	50.0	46.3		ug/L		93	70 - 125
1,2-Dichloroethane	50.0	43.3		ug/L		87	68 - 127
1,2-Dichloropropane	50.0	47.8		ug/L		96	67 - 130
1,3-Dichlorobenzene	50.0	48.0		ug/L		96	70 - 125
1,4-Dichlorobenzene	50.0	48.6		ug/L		97	70 - 120
2-Hexanone	50.0	44.4		ug/L		89	56 - 135
Acetone	50.0	53.8		ug/L		108	40 - 143
Benzene	50.0	53.9		ug/L		108	70 - 120
Bromodichloromethane	50.0	45.2		ug/L		90	69 - 120
Bromoform	50.0	39.5		ug/L		79	56 - 132
Bromomethane	50.0	70.8	*	ug/L		142	40 - 130
Carbon disulfide	50.0	56.0		ug/L		112	66 - 120
Carbon tetrachloride	50.0	57.8		ug/L		116	65 - 122
Chlorobenzene	50.0	50.5		ug/L		101	70 - 120
Chloroethane	50.0	68.8	*	ug/L		138	45 - 127
Chloroform	50.0	50.7		ug/L		101	70 - 120
Chloromethane	50.0	56.7		ug/L		113	54 - 147
cis-1,2-Dichloroethene	50.0	53.7		ug/L		107	70 - 125
cis-1,3-Dichloropropene	50.0	41.7		ug/L		83	64 - 127
Cyclohexane	50.0	60.3		ug/L		121	69 - 142
Dibromochloromethane	50.0	41.5		ug/L		83	68 - 125
Dichlorodifluoromethane	50.0	50.7		ug/L		101	40 - 150
Ethylbenzene	50.0	52.1		ug/L		104	70 - 120
Isopropylbenzene	50.0	51.5		ug/L		103	70 - 126
Methyl acetate	100	88.5		ug/L		88	56 - 150
Methyl Ethyl Ketone	50.0	44.3		ug/L		89	53 - 141
methyl isobutyl ketone	50.0	46.1		ug/L		92	56 - 133
Methyl tert-butyl ether	50.0	43.0		ug/L		86	70 - 120
Methylcyclohexane	50.0	58.4		ug/L		117	70 - 120
Methylene Chloride	50.0	52.6		ug/L		105	69 - 125
Styrene	50.0	51.7		ug/L		103	70 - 120
Tetrachloroethene	50.0	55.3		ug/L		111	70 - 128
Toluene	50.0	53.3		ug/L		107	70 - 125
trans-1,2-Dichloroethene	50.0	55.2		ug/L		110	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-409330/21
Matrix: Water
Analysis Batch: 409330

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	40.0		ug/L		80	62 - 128
Trichloroethene	50.0	53.3		ug/L		107	70 - 125
Trichlorofluoromethane	50.0	54.3		ug/L		109	70 - 126
Vinyl chloride	50.0	55.9		ug/L		112	64 - 126
Xylenes, Total	100	108		ug/L		108	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*75 - 126*
4-Bromofluorobenzene (Surr)	*83*		*72 - 124*
Dibromofluoromethane	*90*		*75 - 120*
Toluene-d8 (Surr)	*94*		*75 - 120*

Lab Sample ID: 500-136788-1 MS
Matrix: Water
Analysis Batch: 409330

Client Sample ID: CRMS-SW-04-110317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<1.0		50.0	53.1		ug/L		106	70 - 125
1,1,2,2-Tetrachloroethane	<1.0		50.0	45.6		ug/L		91	67 - 127
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		50.0	59.0		ug/L		118	70 - 123
1,1,2-Trichloroethane	<1.0		50.0	44.4		ug/L		89	70 - 122
1,1-Dichloroethane	<1.0		50.0	53.1		ug/L		106	70 - 125
1,1-Dichloroethene	<1.0		50.0	55.6		ug/L		111	67 - 122
1,2,4-Trichlorobenzene	<1.0		50.0	43.7		ug/L		87	66 - 127
1,2-Dibromo-3-Chloropropane	<5.0		50.0	34.2		ug/L		68	56 - 123
1,2-Dibromoethane	<1.0		50.0	43.2		ug/L		86	70 - 125
1,2-Dichlorobenzene	<1.0		50.0	47.4		ug/L		95	70 - 125
1,2-Dichloroethane	<1.0		50.0	44.5		ug/L		89	68 - 127
1,2-Dichloropropane	<1.0		50.0	49.5		ug/L		99	67 - 130
1,3-Dichlorobenzene	<1.0		50.0	46.8		ug/L		94	70 - 125
1,4-Dichlorobenzene	<1.0		50.0	48.1		ug/L		96	70 - 120
2-Hexanone	<5.0		50.0	49.0		ug/L		98	56 - 135
Acetone	6.9		50.0	71.6		ug/L		129	40 - 143
Benzene	<0.50		50.0	53.2		ug/L		106	70 - 120
Bromodichloromethane	<1.0		50.0	47.3		ug/L		95	69 - 120
Bromoform	<1.0		50.0	40.5		ug/L		81	56 - 132
Bromomethane	<2.0	* F1 F2	50.0	70.0	F1	ug/L		140	40 - 130
Carbon disulfide	<2.0		50.0	53.5		ug/L		107	66 - 120
Carbon tetrachloride	<1.0		50.0	52.5		ug/L		105	65 - 122
Chlorobenzene	<1.0		50.0	49.3		ug/L		99	70 - 120
Chloroethane	<1.0	* F1 F2	50.0	71.8	F1	ug/L		144	45 - 127
Chloroform	<2.0		50.0	50.7		ug/L		101	70 - 120
Chloromethane	<1.0	F2	50.0	62.0		ug/L		124	54 - 147
cis-1,2-Dichloroethene	<1.0		50.0	54.0		ug/L		108	70 - 125
cis-1,3-Dichloropropene	<1.0		50.0	41.2		ug/L		82	64 - 127
Cyclohexane	<1.0		50.0	57.3		ug/L		115	69 - 142
Dibromochloromethane	<1.0		50.0	42.0		ug/L		84	68 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-136788-1 MS
Matrix: Water
Analysis Batch: 409330

Client Sample ID: CRMS-SW-04-110317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	<2.0	F2	50.0	52.4		ug/L		105	40 - 150
Ethylbenzene	<0.50		50.0	48.7		ug/L		97	70 - 120
Isopropylbenzene	<1.0		50.0	50.3		ug/L		101	70 - 126
Methyl acetate	<5.0		100	93.9		ug/L		94	56 - 150
Methyl Ethyl Ketone	<5.0		50.0	54.6		ug/L		109	53 - 141
methyl isobutyl ketone	<5.0		50.0	47.9		ug/L		96	56 - 133
Methyl tert-butyl ether	<1.0		50.0	48.2		ug/L		96	70 - 120
Methylcyclohexane	<1.0		50.0	54.0		ug/L		108	70 - 120
Methylene Chloride	<5.0		50.0	56.6		ug/L		113	69 - 125
Styrene	<1.0		50.0	49.8		ug/L		100	70 - 120
Tetrachloroethene	<1.0		50.0	49.2		ug/L		98	70 - 128
Toluene	<0.50		50.0	49.3		ug/L		99	70 - 125
trans-1,2-Dichloroethene	<1.0		50.0	54.6		ug/L		109	70 - 125
trans-1,3-Dichloropropene	<1.0		50.0	39.9		ug/L		80	62 - 128
Trichloroethene	<0.50		50.0	51.4		ug/L		103	70 - 125
Trichlorofluoromethane	<1.0	F2	50.0	55.4		ug/L		111	70 - 126
Vinyl chloride	<0.50	F2	50.0	55.1		ug/L		110	64 - 126
Xylenes, Total	<1.0		100	101		ug/L		101	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*81*		*75 - 126*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*
Dibromofluoromethane	*97*		*75 - 120*
Toluene-d8 (Surr)	*87*		*75 - 120*

Lab Sample ID: 500-136788-1 MSD
Matrix: Water
Analysis Batch: 409330

Client Sample ID: CRMS-SW-04-110317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<1.0		50.0	52.9		ug/L		106	70 - 125	0	20
1,1,2,2-Tetrachloroethane	<1.0		50.0	48.0		ug/L		96	67 - 127	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		50.0	56.0		ug/L		112	70 - 123	5	20
1,1,2-Trichloroethane	<1.0		50.0	44.0		ug/L		88	70 - 122	1	20
1,1-Dichloroethane	<1.0		50.0	50.2		ug/L		100	70 - 125	6	20
1,1-Dichloroethene	<1.0		50.0	52.8		ug/L		106	67 - 122	5	20
1,2,4-Trichlorobenzene	<1.0		50.0	45.6		ug/L		91	66 - 127	4	20
1,2-Dibromo-3-Chloropropane	<5.0		50.0	36.4		ug/L		73	56 - 123	6	20
1,2-Dibromoethane	<1.0		50.0	44.1		ug/L		88	70 - 125	2	20
1,2-Dichlorobenzene	<1.0		50.0	49.4		ug/L		99	70 - 125	4	20
1,2-Dichloroethane	<1.0		50.0	46.1		ug/L		92	68 - 127	4	20
1,2-Dichloropropane	<1.0		50.0	51.4		ug/L		103	67 - 130	4	20
1,3-Dichlorobenzene	<1.0		50.0	49.2		ug/L		98	70 - 125	5	20
1,4-Dichlorobenzene	<1.0		50.0	50.1		ug/L		100	70 - 120	4	20
2-Hexanone	<5.0		50.0	45.2		ug/L		90	56 - 135	8	20
Acetone	6.9		50.0	59.9		ug/L		106	40 - 143	18	20
Benzene	<0.50		50.0	55.4		ug/L		111	70 - 120	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-136788-1 MSD
Matrix: Water
Analysis Batch: 409330

Client Sample ID: CRMS-SW-04-110317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	<1.0		50.0	48.6		ug/L		97	69 - 120	3	20
Bromoform	<1.0		50.0	43.3		ug/L		87	56 - 132	7	20
Bromomethane	<2.0	* F1 F2	50.0	55.4	F2	ug/L		111	40 - 130	23	20
Carbon disulfide	<2.0		50.0	52.6		ug/L		105	66 - 120	2	20
Carbon tetrachloride	<1.0		50.0	55.0		ug/L		110	65 - 122	5	20
Chlorobenzene	<1.0		50.0	51.8		ug/L		104	70 - 120	5	20
Chloroethane	<1.0	* F1 F2	50.0	55.2	F2	ug/L		110	45 - 127	26	20
Chloroform	<2.0		50.0	50.6		ug/L		101	70 - 120	0	20
Chloromethane	<1.0	F2	50.0	47.0	F2	ug/L		94	54 - 147	27	20
cis-1,2-Dichloroethene	<1.0		50.0	53.4		ug/L		107	70 - 125	1	20
cis-1,3-Dichloropropene	<1.0		50.0	43.5		ug/L		87	64 - 127	5	20
Cyclohexane	<1.0		50.0	58.6		ug/L		117	69 - 142	2	20
Dibromochloromethane	<1.0		50.0	44.1		ug/L		88	68 - 125	5	20
Dichlorodifluoromethane	<2.0	F2	50.0	40.6	F2	ug/L		81	40 - 150	25	20
Ethylbenzene	<0.50		50.0	52.2		ug/L		104	70 - 120	7	20
Isopropylbenzene	<1.0		50.0	53.4		ug/L		107	70 - 126	6	20
Methyl acetate	<5.0		100	86.7		ug/L		87	56 - 150	8	20
Methyl Ethyl Ketone	<5.0		50.0	48.0		ug/L		96	53 - 141	13	20
methyl isobutyl ketone	<5.0		50.0	47.5		ug/L		95	56 - 133	1	20
Methyl tert-butyl ether	<1.0		50.0	44.5		ug/L		89	70 - 120	8	20
Methylcyclohexane	<1.0		50.0	56.2		ug/L		112	70 - 120	4	20
Methylene Chloride	<5.0		50.0	53.0		ug/L		106	69 - 125	6	20
Styrene	<1.0		50.0	52.4		ug/L		105	70 - 120	5	20
Tetrachloroethene	<1.0		50.0	51.6		ug/L		103	70 - 128	5	20
Toluene	<0.50		50.0	50.9		ug/L		102	70 - 125	3	20
trans-1,2-Dichloroethene	<1.0		50.0	51.6		ug/L		103	70 - 125	6	20
trans-1,3-Dichloropropene	<1.0		50.0	40.6		ug/L		81	62 - 128	2	20
Trichloroethene	<0.50		50.0	54.1		ug/L		108	70 - 125	5	20
Trichlorofluoromethane	<1.0	F2	50.0	42.8	F2	ug/L		86	70 - 126	26	20
Vinyl chloride	<0.50	F2	50.0	41.7	F2	ug/L		83	64 - 126	28	20
Xylenes, Total	<1.0		100	108		ug/L		108	70 - 125	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*75 - 126*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*
Dibromofluoromethane	*91*		*75 - 120*
Toluene-d8 (Surr)	*92*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-408755/1-A
Matrix: Water
Analysis Batch: 408793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 408755

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	<32		32	12	ug/L		11/07/17 08:30	11/07/17 17:52	1
Phenol	<4.0		4.0	0.54	ug/L		11/07/17 08:30	11/07/17 17:52	1
Bis(2-chloroethyl)ether	<1.6		1.6	0.23	ug/L		11/07/17 08:30	11/07/17 17:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-408755/1-A
Matrix: Water
Analysis Batch: 408793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 408755

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<4.0		4.0	0.45	ug/L		11/07/17 08:30	11/07/17 17:52	1
2-Methylphenol	<1.6		1.6	0.24	ug/L		11/07/17 08:30	11/07/17 17:52	1
2,2'-oxybis[1-chloropropane]	<1.6		1.6	0.30	ug/L		11/07/17 08:30	11/07/17 17:52	1
Acetophenone	<4.0		4.0	0.53	ug/L		11/07/17 08:30	11/07/17 17:52	1
N-Nitrosodi-n-propylamine	<0.40		0.40	0.12	ug/L		11/07/17 08:30	11/07/17 17:52	1
Hexachloroethane	<4.0		4.0	0.48	ug/L		11/07/17 08:30	11/07/17 17:52	1
Nitrobenzene	<0.80		0.80	0.36	ug/L		11/07/17 08:30	11/07/17 17:52	1
Isophorone	<1.6		1.6	0.30	ug/L		11/07/17 08:30	11/07/17 17:52	1
2-Nitrophenol	<8.0		8.0	2.0	ug/L		11/07/17 08:30	11/07/17 17:52	1
2,4-Dimethylphenol	<8.0		8.0	1.4	ug/L		11/07/17 08:30	11/07/17 17:52	1
Bis(2-chloroethoxy)methane	<1.6		1.6	0.23	ug/L		11/07/17 08:30	11/07/17 17:52	1
2,4-Dichlorophenol	<8.0		8.0	2.1	ug/L		11/07/17 08:30	11/07/17 17:52	1
Naphthalene	<0.80		0.80	0.25	ug/L		11/07/17 08:30	11/07/17 17:52	1
4-Chloroaniline	<8.0		8.0	1.6	ug/L		11/07/17 08:30	11/07/17 17:52	1
Hexachlorobutadiene	<4.0		4.0	0.41	ug/L		11/07/17 08:30	11/07/17 17:52	1
Caprolactam	<8.0		8.0	1.2	ug/L		11/07/17 08:30	11/07/17 17:52	1
4-Chloro-3-methylphenol	<8.0		8.0	1.8	ug/L		11/07/17 08:30	11/07/17 17:52	1
2-Methylnaphthalene	<1.6		1.6	0.052	ug/L		11/07/17 08:30	11/07/17 17:52	1
Hexachlorocyclopentadiene	<16		16	5.1	ug/L		11/07/17 08:30	11/07/17 17:52	1
2,4,6-Trichlorophenol	<4.0		4.0	0.57	ug/L		11/07/17 08:30	11/07/17 17:52	1
2,4,5-Trichlorophenol	<8.0		8.0	2.1	ug/L		11/07/17 08:30	11/07/17 17:52	1
1,1'-Biphenyl	<4.0		4.0	0.29	ug/L		11/07/17 08:30	11/07/17 17:52	1
2-Chloronaphthalene	<1.6		1.6	0.19	ug/L		11/07/17 08:30	11/07/17 17:52	1
2-Nitroaniline	<4.0		4.0	1.0	ug/L		11/07/17 08:30	11/07/17 17:52	1
Dimethyl phthalate	<4.0		4.0	0.25	ug/L		11/07/17 08:30	11/07/17 17:52	1
2,6-Dinitrotoluene	<0.80		0.80	0.059	ug/L		11/07/17 08:30	11/07/17 17:52	1
Acenaphthylene	<0.80		0.80	0.21	ug/L		11/07/17 08:30	11/07/17 17:52	1
3-Nitroaniline	<8.0		8.0	1.4	ug/L		11/07/17 08:30	11/07/17 17:52	1
Acenaphthene	<0.80		0.80	0.25	ug/L		11/07/17 08:30	11/07/17 17:52	1
2,4-Dinitrophenol	<16		16	6.9	ug/L		11/07/17 08:30	11/07/17 17:52	1
4-Nitrophenol	<16		16	5.9	ug/L		11/07/17 08:30	11/07/17 17:52	1
Dibenzofuran	<1.6		1.6	0.21	ug/L		11/07/17 08:30	11/07/17 17:52	1
2,4-Dinitrotoluene	<0.80		0.80	0.20	ug/L		11/07/17 08:30	11/07/17 17:52	1
Diethyl phthalate	<4.0		4.0	0.29	ug/L		11/07/17 08:30	11/07/17 17:52	1
Fluorene	<0.80		0.80	0.20	ug/L		11/07/17 08:30	11/07/17 17:52	1
4-Chlorophenyl phenyl ether	<4.0		4.0	0.51	ug/L		11/07/17 08:30	11/07/17 17:52	1
4-Nitroaniline	<8.0		8.0	1.3	ug/L		11/07/17 08:30	11/07/17 17:52	1
4,6-Dinitro-2-methylphenol	<16		16	4.7	ug/L		11/07/17 08:30	11/07/17 17:52	1
N-Nitrosodiphenylamine	<1.6		1.6	0.30	ug/L		11/07/17 08:30	11/07/17 17:52	1
4-Bromophenyl phenyl ether	<4.0		4.0	0.43	ug/L		11/07/17 08:30	11/07/17 17:52	1
Hexachlorobenzene	<0.40		0.40	0.064	ug/L		11/07/17 08:30	11/07/17 17:52	1
Atrazine	<4.0		4.0	0.50	ug/L		11/07/17 08:30	11/07/17 17:52	1
Pentachlorophenol	<16		16	3.2	ug/L		11/07/17 08:30	11/07/17 17:52	1
Phenanthrene	<0.80		0.80	0.24	ug/L		11/07/17 08:30	11/07/17 17:52	1
Anthracene	<0.80		0.80	0.27	ug/L		11/07/17 08:30	11/07/17 17:52	1
Carbazole	<4.0		4.0	0.28	ug/L		11/07/17 08:30	11/07/17 17:52	1
Di-n-butyl phthalate	<4.0		4.0	0.58	ug/L		11/07/17 08:30	11/07/17 17:52	1
Fluoranthene	<0.80		0.80	0.36	ug/L		11/07/17 08:30	11/07/17 17:52	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-408755/1-A
Matrix: Water
Analysis Batch: 408793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 408755

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<0.80		0.80	0.34	ug/L		11/07/17 08:30	11/07/17 17:52	1
Butyl benzyl phthalate	<1.6		1.6	0.38	ug/L		11/07/17 08:30	11/07/17 17:52	1
3,3'-Dichlorobenzidine	<4.0		4.0	1.4	ug/L		11/07/17 08:30	11/07/17 17:52	1
Benzo[a]anthracene	<0.16		0.16	0.045	ug/L		11/07/17 08:30	11/07/17 17:52	1
Chrysene	<0.16		0.16	0.055	ug/L		11/07/17 08:30	11/07/17 17:52	1
Bis(2-ethylhexyl) phthalate	<8.0		8.0	1.4	ug/L		11/07/17 08:30	11/07/17 17:52	1
Di-n-octyl phthalate	<8.0		8.0	0.84	ug/L		11/07/17 08:30	11/07/17 17:52	1
Benzo[b]fluoranthene	<0.16		0.16	0.065	ug/L		11/07/17 08:30	11/07/17 17:52	1
Benzo[k]fluoranthene	<0.16		0.16	0.051	ug/L		11/07/17 08:30	11/07/17 17:52	1
Benzo[a]pyrene	<0.16		0.16	0.079	ug/L		11/07/17 08:30	11/07/17 17:52	1
Indeno[1,2,3-cd]pyrene	<0.16		0.16	0.060	ug/L		11/07/17 08:30	11/07/17 17:52	1
Dibenz(a,h)anthracene	<0.24		0.24	0.041	ug/L		11/07/17 08:30	11/07/17 17:52	1
Benzo[g,h,i]perylene	<0.80		0.80	0.30	ug/L		11/07/17 08:30	11/07/17 17:52	1
3 & 4 Methylphenol	<1.6		1.6	0.36	ug/L		11/07/17 08:30	11/07/17 17:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*77*		*27 - 110*	*11/07/17 08:30*	*11/07/17 17:52*	*1*
Phenol-d5 (Surr)	*50*		*20 - 100*	*11/07/17 08:30*	*11/07/17 17:52*	*1*
Nitrobenzene-d5 (Surr)	*83*		*36 - 120*	*11/07/17 08:30*	*11/07/17 17:52*	*1*
2-Fluorobiphenyl (Surr)	*74*		*34 - 110*	*11/07/17 08:30*	*11/07/17 17:52*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*40 - 145*	*11/07/17 08:30*	*11/07/17 17:52*	*1*
Terphenyl-d14 (Surr)	*95*		*40 - 145*	*11/07/17 08:30*	*11/07/17 17:52*	*1*

Lab Sample ID: LCS 500-408755/2-A
Matrix: Water
Analysis Batch: 408793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 408755

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	32.0	19.4		ug/L		61	33 - 100
Bis(2-chloroethyl)ether	32.0	27.0		ug/L		84	49 - 110
2-Chlorophenol	32.0	27.2		ug/L		85	59 - 110
2-Methylphenol	32.0	27.7		ug/L		87	53 - 110
2,2'-oxybis[1-chloropropane]	32.0	25.5		ug/L		80	38 - 110
Acetophenone	32.0	26.4		ug/L		83	60 - 110
N-Nitrosodi-n-propylamine	32.0	28.0		ug/L		87	58 - 110
Hexachloroethane	32.0	18.2		ug/L		57	20 - 100
Nitrobenzene	32.0	29.2		ug/L		91	53 - 110
Isophorone	32.0	29.5		ug/L		92	57 - 110
2-Nitrophenol	32.0	28.1		ug/L		88	58 - 110
2,4-Dimethylphenol	32.0	27.3		ug/L		85	51 - 110
Bis(2-chloroethoxy)methane	32.0	30.2		ug/L		94	60 - 110
2,4-Dichlorophenol	32.0	27.7		ug/L		87	62 - 110
Naphthalene	32.0	22.2		ug/L		69	36 - 110
4-Chloroaniline	32.0	27.9		ug/L		87	35 - 128
Hexachlorobutadiene	32.0	16.8		ug/L		53	20 - 100
Caprolactam	32.0	19.1		ug/L		60	32 - 100
4-Chloro-3-methylphenol	32.0	30.4		ug/L		95	64 - 120
2-Methylnaphthalene	32.0	21.8		ug/L		68	34 - 110

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-408755/2-A
Matrix: Water
Analysis Batch: 408793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 408755

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	32.0	16.1		ug/L		50	10 - 100
2,4,6-Trichlorophenol	32.0	27.7		ug/L		87	62 - 110
2,4,5-Trichlorophenol	32.0	28.4		ug/L		89	63 - 120
1,1'-Biphenyl	32.0	24.6		ug/L		77	40 - 110
2-Chloronaphthalene	32.0	23.6		ug/L		74	39 - 110
2-Nitroaniline	32.0	33.8		ug/L		106	59 - 122
Dimethyl phthalate	32.0	30.8		ug/L		96	63 - 120
2,6-Dinitrotoluene	32.0	32.5		ug/L		102	63 - 119
Acenaphthylene	32.0	25.5		ug/L		80	47 - 110
3-Nitroaniline	32.0	31.2		ug/L		98	47 - 123
Acenaphthene	32.0	27.7		ug/L		86	46 - 110
2,4-Dinitrophenol	64.0	69.7		ug/L		109	37 - 130
4-Nitrophenol	64.0	43.3		ug/L		68	20 - 110
Dibenzofuran	32.0	26.5		ug/L		83	51 - 110
2,4-Dinitrotoluene	32.0	32.2		ug/L		101	63 - 122
Diethyl phthalate	32.0	31.5		ug/L		98	62 - 120
Fluorene	32.0	27.7		ug/L		87	53 - 120
4-Chlorophenyl phenyl ether	32.0	25.0		ug/L		78	47 - 112
4-Nitroaniline	32.0	29.2		ug/L		91	52 - 147
4,6-Dinitro-2-methylphenol	64.0	63.3		ug/L		99	50 - 117
N-Nitrosodiphenylamine	32.0	28.5		ug/L		89	66 - 110
4-Bromophenyl phenyl ether	32.0	24.7		ug/L		77	58 - 120
Hexachlorobenzene	32.0	25.0		ug/L		78	61 - 120
Atrazine	32.0	25.9		ug/L		81	58 - 118
Pentachlorophenol	64.0	51.2		ug/L		80	23 - 129
Phenanthrene	32.0	28.2		ug/L		88	65 - 120
Anthracene	32.0	29.2		ug/L		91	67 - 110
Carbazole	32.0	28.9		ug/L		90	61 - 145
Di-n-butyl phthalate	32.0	31.1		ug/L		97	70 - 120
Fluoranthene	32.0	29.5		ug/L		92	68 - 120
Pyrene	32.0	31.4		ug/L		98	70 - 110
Butyl benzyl phthalate	32.0	33.8		ug/L		106	68 - 120
3,3'-Dichlorobenzidine	32.0	26.9		ug/L		84	60 - 132
Benzo[a]anthracene	32.0	29.3		ug/L		92	70 - 120
Chrysene	32.0	30.8		ug/L		96	68 - 120
Bis(2-ethylhexyl) phthalate	32.0	34.6		ug/L		108	69 - 120
Di-n-octyl phthalate	32.0	32.0		ug/L		100	70 - 122
Benzo[b]fluoranthene	32.0	30.8		ug/L		96	69 - 123
Benzo[k]fluoranthene	32.0	30.7		ug/L		96	70 - 120
Benzo[a]pyrene	32.0	30.0		ug/L		94	70 - 120
Indeno[1,2,3-cd]pyrene	32.0	30.9		ug/L		97	65 - 133
Dibenz(a,h)anthracene	32.0	30.0		ug/L		94	70 - 127
Benzo[g,h,i]perylene	32.0	30.0		ug/L		94	70 - 120
3 & 4 Methylphenol	32.0	27.4		ug/L		86	53 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*78*		*27 - 110*
Phenol-d5 (Surr)	*58*		*20 - 100*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-408755/2-A
Matrix: Water
Analysis Batch: 408793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 408755

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	*85*		*36 - 120*
2-Fluorobiphenyl (Surr)	*79*		*34 - 110*
2,4,6-Tribromophenol (Surr)	*92*		*40 - 145*
Terphenyl-d14 (Surr)	*94*		*40 - 145*

Lab Sample ID: LCSD 500-408755/3-A
Matrix: Water
Analysis Batch: 408793

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 408755

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	32.0	17.8		ug/L		56	33 - 100	9	20
Bis(2-chloroethyl)ether	32.0	25.5		ug/L		80	49 - 110	6	20
2-Chlorophenol	32.0	25.1		ug/L		79	59 - 110	8	20
2-Methylphenol	32.0	26.1		ug/L		82	53 - 110	6	20
2,2'-oxybis[1-chloropropane]	32.0	24.3		ug/L		76	38 - 110	5	20
Acetophenone	32.0	24.3		ug/L		76	60 - 110	8	20
N-Nitrosodi-n-propylamine	32.0	25.8		ug/L		81	58 - 110	8	20
Hexachloroethane	32.0	16.8		ug/L		53	20 - 100	8	20
Nitrobenzene	32.0	28.0		ug/L		88	53 - 110	4	20
Isophorone	32.0	28.2		ug/L		88	57 - 110	5	20
2-Nitrophenol	32.0	26.6		ug/L		83	58 - 110	6	20
2,4-Dimethylphenol	32.0	26.6		ug/L		83	51 - 110	3	20
Bis(2-chloroethoxy)methane	32.0	29.0		ug/L		91	60 - 110	4	20
2,4-Dichlorophenol	32.0	26.2		ug/L		82	62 - 110	5	20
Naphthalene	32.0	21.4		ug/L		67	36 - 110	4	20
4-Chloroaniline	32.0	26.6		ug/L		83	35 - 128	5	20
Hexachlorobutadiene	32.0	15.8		ug/L		49	20 - 100	6	20
Caprolactam	32.0	18.2		ug/L		57	32 - 100	5	20
4-Chloro-3-methylphenol	32.0	29.7		ug/L		93	64 - 120	2	20
2-Methylnaphthalene	32.0	20.9		ug/L		65	34 - 110	4	20
Hexachlorocyclopentadiene	32.0	15.0	J	ug/L		47	10 - 100	7	20
2,4,6-Trichlorophenol	32.0	25.5		ug/L		80	62 - 110	8	20
2,4,5-Trichlorophenol	32.0	27.1		ug/L		85	63 - 120	4	20
1,1'-Biphenyl	32.0	23.6		ug/L		74	40 - 110	4	20
2-Chloronaphthalene	32.0	22.3		ug/L		70	39 - 110	5	20
2-Nitroaniline	32.0	33.1		ug/L		104	59 - 122	2	20
Dimethyl phthalate	32.0	30.1		ug/L		94	63 - 120	2	20
2,6-Dinitrotoluene	32.0	30.8		ug/L		96	63 - 119	5	20
Acenaphthylene	32.0	24.3		ug/L		76	47 - 110	5	20
3-Nitroaniline	32.0	33.4		ug/L		104	47 - 123	7	20
Acenaphthene	32.0	26.9		ug/L		84	46 - 110	3	20
2,4-Dinitrophenol	64.0	67.0		ug/L		105	37 - 130	4	20
4-Nitrophenol	64.0	43.4		ug/L		68	20 - 110	0	20
Dibenzofuran	32.0	25.4		ug/L		79	51 - 110	4	20
2,4-Dinitrotoluene	32.0	31.8		ug/L		99	63 - 122	1	20
Diethyl phthalate	32.0	30.4		ug/L		95	62 - 120	3	20
Fluorene	32.0	27.2		ug/L		85	53 - 120	2	20
4-Chlorophenyl phenyl ether	32.0	24.3		ug/L		76	47 - 112	3	20

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-408755/3-A
Matrix: Water
Analysis Batch: 408793

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 408755

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Nitroaniline	32.0	28.1		ug/L		88	52 - 147	4	20
4,6-Dinitro-2-methylphenol	64.0	65.3		ug/L		102	50 - 117	3	20
N-Nitrosodiphenylamine	32.0	29.6		ug/L		92	66 - 110	4	20
4-Bromophenyl phenyl ether	32.0	24.4		ug/L		76	58 - 120	1	20
Hexachlorobenzene	32.0	25.8		ug/L		81	61 - 120	3	20
Atrazine	32.0	26.3		ug/L		82	58 - 118	2	20
Pentachlorophenol	64.0	53.8		ug/L		84	23 - 129	5	20
Phenanthrene	32.0	29.8		ug/L		93	65 - 120	5	20
Anthracene	32.0	30.7		ug/L		96	67 - 110	5	20
Carbazole	32.0	31.2		ug/L		98	61 - 145	8	20
Di-n-butyl phthalate	32.0	32.8		ug/L		102	70 - 120	5	20
Fluoranthene	32.0	30.7		ug/L		96	68 - 120	4	20
Pyrene	32.0	32.1		ug/L		100	70 - 110	2	20
Butyl benzyl phthalate	32.0	34.3		ug/L		107	68 - 120	1	20
3,3'-Dichlorobenzidine	32.0	28.9		ug/L		90	60 - 132	7	20
Benzo[a]anthracene	32.0	29.8		ug/L		93	70 - 120	2	20
Chrysene	32.0	31.3		ug/L		98	68 - 120	2	20
Bis(2-ethylhexyl) phthalate	32.0	34.9		ug/L		109	69 - 120	1	20
Di-n-octyl phthalate	32.0	33.5		ug/L		105	70 - 122	5	20
Benzo[b]fluoranthene	32.0	30.6		ug/L		96	69 - 123	1	20
Benzo[k]fluoranthene	32.0	28.4		ug/L		89	70 - 120	8	20
Benzo[a]pyrene	32.0	29.6		ug/L		93	70 - 120	1	20
Indeno[1,2,3-cd]pyrene	32.0	30.9		ug/L		96	65 - 133	0	20
Dibenz(a,h)anthracene	32.0	30.4		ug/L		95	70 - 127	2	20
Benzo[g,h,i]perylene	32.0	29.8		ug/L		93	70 - 120	1	20
3 & 4 Methylphenol	32.0	25.7		ug/L		80	53 - 110	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*75*		*27 - 110*
Phenol-d5 (Surr)	*57*		*20 - 100*
Nitrobenzene-d5 (Surr)	*85*		*36 - 120*
2-Fluorobiphenyl (Surr)	*78*		*34 - 110*
2,4,6-Tribromophenol (Surr)	*91*		*40 - 145*
Terphenyl-d14 (Surr)	*100*		*40 - 145*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-408564/1-A
Matrix: Water
Analysis Batch: 408581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 408564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.40		0.40	0.067	ug/L		11/06/17 08:38	11/06/17 22:09	1
PCB-1221	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/06/17 22:09	1
PCB-1232	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/06/17 22:09	1
PCB-1242	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/06/17 22:09	1
PCB-1248	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/06/17 22:09	1
PCB-1254	<0.40		0.40	0.20	ug/L		11/06/17 08:38	11/06/17 22:09	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-408564/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408581 — **Prep Batch: 408564**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<0.40		0.40	0.070	ug/L		11/06/17 08:38	11/06/17 22:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*30 - 120*	*11/06/17 08:38*	*11/06/17 22:09*	*1*
DCB Decachlorobiphenyl	*52*		*30 - 140*	*11/06/17 08:38*	*11/06/17 22:09*	*1*

Lab Sample ID: LCS 500-408564/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408581 — **Prep Batch: 408564**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	3.35		ug/L		84	56 - 120		
PCB-1260			4.00	2.93		ug/L		73	53 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*30 - 120*
DCB Decachlorobiphenyl	*53*		*30 - 140*

Lab Sample ID: LCSD 500-408564/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408581 — **Prep Batch: 408564**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			4.00	3.29		ug/L		82	56 - 120	2	20
PCB-1260			4.00	2.68		ug/L		67	53 - 137	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*30 - 120*
DCB Decachlorobiphenyl	*50*		*30 - 140*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-408743/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 408958 — **Prep Batch: 408743**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.010	0.0037	mg/L		11/07/17 07:38	11/07/17 17:06	1
Barium	<0.010		0.010	0.0012	mg/L		11/07/17 07:38	11/07/17 17:06	1
Cadmium	0.000546	J	0.0020	0.00043	mg/L		11/07/17 07:38	11/07/17 17:06	1
Chromium	<0.010		0.010	0.0017	mg/L		11/07/17 07:38	11/07/17 17:06	1
Lead	<0.0050		0.0050	0.0027	mg/L		11/07/17 07:38	11/07/17 17:06	1
Selenium	<0.010		0.010	0.0053	mg/L		11/07/17 07:38	11/07/17 17:06	1
Silver	<0.0050		0.0050	0.0015	mg/L		11/07/17 07:38	11/07/17 17:06	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-408743/2-A
Matrix: Water
Analysis Batch: 408958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 408743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.103		mg/L		103	80 - 120
Barium	2.00	2.14		mg/L		107	80 - 120
Cadmium	0.0500	0.0530		mg/L		106	80 - 120
Chromium	0.200	0.211		mg/L		106	80 - 120
Lead	0.100	0.0991		mg/L		99	80 - 120
Selenium	0.100	0.0992		mg/L		99	80 - 120
Silver	0.0500	0.0506		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-408621/12-A
Matrix: Water
Analysis Batch: 408771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 408621

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20	0.098	ug/L		11/06/17 14:30	11/07/17 07:03	1

Lab Sample ID: LCS 500-408621/13-A
Matrix: Water
Analysis Batch: 408771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 408621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.00	2.05		ug/L		103	80 - 120

GC/MS VOA

Analysis Batch: 409330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136788-1	CRMS-SW-04-110317	Total/NA	Water	8260B	
MB 500-409330/6	Method Blank	Total/NA	Water	8260B	
LCS 500-409330/21	Lab Control Sample	Total/NA	Water	8260B	
500-136788-1 MS	CRMS-SW-04-110317	Total/NA	Water	8260B	
500-136788-1 MSD	CRMS-SW-04-110317	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 408755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136788-1	CRMS-SW-04-110317	Total/NA	Water	3510C	
MB 500-408755/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-408755/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-408755/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 408793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136788-1	CRMS-SW-04-110317	Total/NA	Water	8270D	408755
MB 500-408755/1-A	Method Blank	Total/NA	Water	8270D	408755
LCS 500-408755/2-A	Lab Control Sample	Total/NA	Water	8270D	408755
LCSD 500-408755/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	408755

GC Semi VOA

Prep Batch: 408564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136788-1	CRMS-SW-04-110317	Total/NA	Water	3510C	
MB 500-408564/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-408564/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-408564/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 408581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136788-1	CRMS-SW-04-110317	Total/NA	Water	8082A	408564
MB 500-408564/1-A	Method Blank	Total/NA	Water	8082A	408564
LCS 500-408564/2-A	Lab Control Sample	Total/NA	Water	8082A	408564
LCSD 500-408564/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	408564

Metals

Prep Batch: 408621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136788-1	CRMS-SW-04-110317	Total/NA	Water	7470A	
MB 500-408621/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-408621/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 408743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136788-1	CRMS-SW-04-110317	Total/NA	Water	3010A	
MB 500-408743/1-A	Method Blank	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 408743 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-408743/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 408771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136788-1	CRMS-SW-04-110317	Total/NA	Water	7470A	408621
MB 500-408621/12-A	Method Blank	Total/NA	Water	7470A	408621
LCS 500-408621/13-A	Lab Control Sample	Total/NA	Water	7470A	408621

Analysis Batch: 408958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-136788-1	CRMS-SW-04-110317	Total/NA	Water	6010C	408743
MB 500-408743/1-A	Method Blank	Total/NA	Water	6010C	408743
LCS 500-408743/2-A	Lab Control Sample	Total/NA	Water	6010C	408743

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136788-1

Client Sample ID: CRMS-SW-04-110317

Date Collected: 11/03/17 15:35
Date Received: 11/03/17 17:56

Lab Sample ID: 500-136788-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	409330	11/10/17 17:48	JJH	TAL CHI
Total/NA	Prep	3510C			408755	11/07/17 08:30	DX	TAL CHI
Total/NA	Analysis	8270D		10	408793	11/07/17 18:50	AJD	TAL CHI
Total/NA	Prep	3510C			408564	11/06/17 08:38	BSO	TAL CHI
Total/NA	Analysis	8082A		1	408581	11/07/17 01:40	BJH	TAL CHI
Total/NA	Prep	3010A			408743	11/07/17 07:38	JEF	TAL CHI
Total/NA	Analysis	6010C		5	408958	11/07/17 18:06	PJ1	TAL CHI
Total/NA	Prep	7470A			408621	11/06/17 14:30	EEN	TAL CHI
Total/NA	Analysis	7470A		1	408771	11/07/17 07:08	EEN	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Tetra Tech EM Inc. TestAmerica Job ID: 500-136788-1
Project/Site: Chicago River Mystery Spill

Laboratory: TestAmerica Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2903	04-30-18 *
Georgia	State Program	4	N/A	04-30-18
Georgia	State Program	4	939	04-30-18
Hawaii	State Program	9	N/A	04-30-18
Illinois	NELAP	5	100201	04-30-18
Indiana	State Program	5	C-IL-02	04-30-18 *
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	12-31-17 *
Kentucky (UST)	State Program	4	66	04-30-18
Kentucky (WW)	State Program	4	KY90023	12-31-17 *
Mississippi	State Program	4	N/A	04-30-18
New York	NELAP	2	12019	04-01-18 *
North Carolina (WW/SW)	State Program	4	291	12-31-17 *
North Dakota	State Program	8	R-194	04-30-18
Oklahoma	State Program	6	8908	08-31-18
South Carolina	State Program	4	77001	04-30-18
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-18
Wyoming	State Program	8	8TMS-Q	04-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech EM Inc. TestAmerica Job ID: 500-136788-1
Project/Site: Chicago River Mystery Spill

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Chicago River Mystery Spill

TestAmerica Job ID: 500-136788-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-136788-1	CRMS-SW-04-110317	Water	11/03/17 15:35	11/03/17 17:56

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: CMS18 Analysis Batch Number: 409330

Lab Sample ID: CCVIS 500-409330/7 Client Sample ID:

Date Analyzed: 11/10/17 09:00 Lab File ID: 18C1110A.d GC Column: DB624 ID: 0.2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl Ethyl Ketone	4.99	Incomplete Integration	huntjj	11/10/17 09:22

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: INST31-32 Analysis Batch Number: 407585

Lab Sample ID: IC 500-407585/6 Client Sample ID:

Date Analyzed: 10/30/17 13:23 Lab File ID: 103017_006.D GC Column: ZB-5 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.44	Peak not integrated	hamnerb	10/30/17 16:05
PCB-1016 Peak 2	3.61	Peak not integrated	hamnerb	10/30/17 16:05
PCB-1016 Peak 3	3.82	Peak not integrated	hamnerb	10/30/17 16:05
PCB-1016 Peak 4	3.91	Peak not integrated	hamnerb	10/30/17 16:05
PCB-1016 Peak 5	4.36	Peak not integrated	hamnerb	10/30/17 16:05

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
1660-LVI-4_00007	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-4_00029	2 mL	PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
							DCB Decachlorobiphenyl	0.008 ug/mL
							Tetrachloro-m-xylene	0.008 ug/mL
.AR1660-4_00029	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	AR1660PAR_00034	10 mL	PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					TCX/DCBPAR_00028	2 mL	DCB Decachlorobiphenyl	0.04 ug/mL
							Tetrachloro-m-xylene	0.04 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18		RESTEK, Lot A084195		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22		RESTEK, Lot A0117947		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloro-m-xylene	200 ug/mL
8260 GAS SPK_00129	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260 GASSPKPT_00033	40 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.8260 GASSPKPT_00033	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	GASES SPK STK_00011	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..GASES SPK STK_00011	11/30/18		Restek, Lot A0115484		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260 KET SPK_00100	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260KETSPKPT_00028	8 uL	2-Hexanone	50 ug/mL
							Acetone	50 ug/mL
							Methyl Ethyl Ketone	50 ug/mL
							methyl isobutyl ketone	50 ug/mL
.8260KETSPKPT_00028	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	KET SPK STK_00010	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..KET SPK STK_00010	03/31/19		Restek, Lot A0118013		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260 LOWIS1_00108	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	1,4DIOX-d8 IS_00012	1000 uL	1,4-Dioxane-d8	1000 ug/mL
					8260A IS PT_00026	40 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
					T-BUOH-d9 PT_00026	100 uL	TBA-d9 (IS)	1000 ug/mL
.1,4DIOX-d8 IS_00012	06/30/19		Restek, Lot A0120108		(Purchased Reagent)		1,4-Dioxane-d8	2000 ug/mL
.8260A IS PT_00026	09/30/17	06/26/17	n/a, Lot NA	1 mL	8260A IS SK_00007	1 mL	1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
..8260A IS SK_00007	02/28/21		Restek, Lot A0117358		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
.T-BUOH-d9 PT_00026	09/26/17	06/26/17	n/a, Lot NA	1 mL	T-BUOH-d9 IS_00006	1 mL	TBA-d9 (IS)	20000 ug/mL
..T-BUOH-d9 IS_00006	03/31/19		Restek, Lot A0117777		(Purchased Reagent)		TBA-d9 (IS)	20000 ug/mL
8260 LOWSS1_00133	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260/624 SSPT_00002	40 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260/624 SSPT_00002	09/26/17	06/26/17	na, Lot NA	5 mL	8260 SS PT_00040	5 mL	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
..8260 SS PT_00040	10/31/20	Restek, Lot A0114901			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260 MEGA SPK_00104	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260MEGASPKPT_00029	40 uL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Benzene	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
.8260MEGASPKPT_00029	08/04/17	05/04/17	METHANOL, Lot NA	1 mL	MEGA SPK STK_00011	1 mL	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..MEGA SPK STK_00011	07/31/18		Restek, Lot A0120604		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260/624ACRWK_00334	07/12/17	07/05/17	Water, Lot NA	2 mL	8260 ACRPTSPK_00032	400 uL	Acrolein	4000 ug/mL
.8260 ACRPTSPK_00032	08/23/17	05/23/17	Water, Lot NA	1 mL	ACROLN SK STK_00026	1 mL	Acrolein	20000 ug/mL
..ACROLN SK STK_00026	09/30/17	Restek, Lot A0125594			(Purchased Reagent)		Acrolein	20000 ug/mL
8260/624GASWK_00457	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASPT_00084	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00084	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 GAS_00015	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00015	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624GASWK_00481	11/12/17	11/05/17	METHANOL, Lot 177891	2 mL	8260/624GASPT_00089	80 uL	Bromomethane	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
.8260/624GASPT_00089	01/27/18	10/27/17	na, Lot na	1 mL	8260/624 GAS_00016	1 mL	Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..8260/624 GAS_00016	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
8260/624KETWK_00262	07/10/17	06/26/17	METHANOL, Lot 147462	2 mL	8260/624KETPT_00045	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00045	08/06/17	05/06/17	na, Lot na	1 mL	8260/624 KET_00011	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00011	11/30/18		Restek, Lot A0115554		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260/624KETWK_00285	11/20/17	11/06/17	METHANOL, Lot 177891	2 mL	8260/624KETPT_00051	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
.8260/624KETPT_00051	01/04/18	10/04/17	na, Lot na	1 mL	8260/624 KET_00013	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
..8260/624 KET_00013	01/31/20	Restek, Lot A0123890			(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromodichloromethane	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
.8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..8260/624 Mega_00016	03/31/18		Restek, Lot A0108177		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	Xylenes, Total	200 ug/mL
.8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	Xylenes, Total	5000 ug/mL
..8260/624 Mega_00016	03/31/18		Restek, Lot A0108177		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
8260/624MEGWK_00418	11/20/17	11/06/17	METHANOL, Lot 177891	2 mL	8260/624MEGPT_00078	80 uL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							Benzene	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Ethylbenzene	100 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							o-Xylene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.8260/624MEGPT_00078	01/23/18	10/23/17	na, Lot na	1 mL	8260/624 Mega_00017	1 mL	1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
..8260/624 Mega_00017	12/31/18		Restek, Lot A01237		(Purchased Reagent)		1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
8260LOW IS/SS_00146	07/14/17	06/30/17	METHANOL, Lot 147462	20 mL	8260 IS/SS SK_00034	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00034	01/31/22		Restek, Lot A0124018		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00146	07/14/17	06/30/17	METHANOL, Lot 147462	20 mL	8260 IS/SS SK_00034	4000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00034	01/31/22		Restek, Lot A0124018		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260LOW IS/SS_00156	11/17/17	11/03/17	METHANOL, Lot 177891	20 mL	8260 IS/SS SK_00037	4000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							1,4-Dioxane-d8	1000 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							TBA-d9 (IS)	1000 ug/mL
.8260 IS/SS SK_00037	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							1,4-Dioxane-d8	5000 ug/mL
							Chlorobenzene-d5	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene (IS)	250 ug/mL
							TBA-d9 (IS)	5000 ug/mL
8260LOW IS/SS_00156	11/17/17	11/03/17	METHANOL, Lot 177891	20 mL	8260 IS/SS SK_00037	4000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.8260 IS/SS SK_00037	04/30/22		Restek, Lot A0126559		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
8260VA/2CEVE_00276	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624 VAPT_00051	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00044	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
.8260/624 VAPT_00051	09/30/17	05/30/17	METHANOL, Lot NA	1 mL	8260/624 VA_00023	1 mL	Vinyl acetate	5000 ug/mL
..8260/624 VA_00023	09/30/17		Restek, Lot A0125716		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.8260/624CEVPT_00044	09/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260/624 CEVE_00011	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
..8260/624 CEVE_00011	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
AR1248-4 LVI_00005	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1248-4_00039	2 mL	PCB-1248 Peak 1	0.1 ug/mL
							PCB-1248 Peak 2	0.1 ug/mL
							PCB-1248 Peak 3	0.1 ug/mL
							PCB-1248 Peak 4	0.1 ug/mL
							PCB-1248 Peak 5	0.1 ug/mL
.AR1248-4_00039	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCBAR1248_00011	0.05 mL	PCB-1248 Peak 1	0.5 ug/mL
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
..PCBAR1248_00011	06/30/22		RESTEK, Lot A0118166		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
AR1660-1 LVI_00003	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-1_00033	2 mL	PCB-1016 Peak 1	0.008 ug/mL
							PCB-1016 Peak 2	0.008 ug/mL
							PCB-1016 Peak 3	0.008 ug/mL
							PCB-1016 Peak 4	0.008 ug/mL
							PCB-1016 Peak 5	0.008 ug/mL
							PCB-1260 Peak 1	0.008 ug/mL
							PCB-1260 Peak 2	0.008 ug/mL
							PCB-1260 Peak 3	0.008 ug/mL
							PCB-1260 Peak 4	0.008 ug/mL
							PCB-1260 Peak 5	0.008 ug/mL
							DCB Decachlorobiphenyl	0.0008 ug/mL
							Tetrachloro-m-xylene	0.0008 ug/mL
.AR1660-1_00033	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	AR1660PAR_00034	0.8 mL	PCB-1016 Peak 1	0.04 ug/mL
							PCB-1016 Peak 2	0.04 ug/mL
							PCB-1016 Peak 3	0.04 ug/mL
							PCB-1016 Peak 4	0.04 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 5	0.04 ug/mL
							PCB-1260 Peak 1	0.04 ug/mL
							PCB-1260 Peak 2	0.04 ug/mL
							PCB-1260 Peak 3	0.04 ug/mL
							PCB-1260 Peak 4	0.04 ug/mL
							PCB-1260 Peak 5	0.04 ug/mL
					TCX/DCBPAR_00028	0.2 mL	DCB Decachlorobiphenyl	0.004 ug/mL
							Tetrachloro-m-xylene	0.004 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18		RESTEK, Lot A084195		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22		RESTEK, Lot A0117947		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-2 LVI_00003	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-2_00033	2 mL	PCB-1016 Peak 1	0.02 ug/mL
							PCB-1016 Peak 2	0.02 ug/mL
							PCB-1016 Peak 3	0.02 ug/mL
							PCB-1016 Peak 4	0.02 ug/mL
							PCB-1016 Peak 5	0.02 ug/mL
							PCB-1260 Peak 1	0.02 ug/mL
							PCB-1260 Peak 2	0.02 ug/mL
							PCB-1260 Peak 3	0.02 ug/mL
							PCB-1260 Peak 4	0.02 ug/mL
							PCB-1260 Peak 5	0.02 ug/mL
							DCB Decachlorobiphenyl	0.0016 ug/mL
							Tetrachloro-m-xylene	0.0016 ug/mL
.AR1660-2_00033	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	AR1660PAR_00034	2 mL	PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
					TCX/DCBPAR_00028	0.4 mL	DCB Decachlorobiphenyl	0.008 ug/mL
							Tetrachloro-m-xylene	0.008 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18	RESTEK, Lot A084195			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22	RESTEK, Lot A0117947			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-3 LVI_00004	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-3_00032	2 mL	PCB-1016 Peak 1	0.05 ug/mL
							PCB-1016 Peak 2	0.05 ug/mL
							PCB-1016 Peak 3	0.05 ug/mL
							PCB-1016 Peak 4	0.05 ug/mL
							PCB-1016 Peak 5	0.05 ug/mL
							PCB-1260 Peak 1	0.05 ug/mL
							PCB-1260 Peak 2	0.05 ug/mL
							PCB-1260 Peak 3	0.05 ug/mL
							PCB-1260 Peak 4	0.05 ug/mL
							PCB-1260 Peak 5	0.05 ug/mL
							DCB Decachlorobiphenyl	0.004 ug/mL
							Tetrachloro-m-xylene	0.004 ug/mL
.AR1660-3_00032	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	AR1660PAR_00034	5 mL	PCB-1016 Peak 1	0.25 ug/mL
							PCB-1016 Peak 2	0.25 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 3	0.25 ug/mL
							PCB-1016 Peak 4	0.25 ug/mL
							PCB-1016 Peak 5	0.25 ug/mL
							PCB-1260 Peak 1	0.25 ug/mL
							PCB-1260 Peak 2	0.25 ug/mL
							PCB-1260 Peak 3	0.25 ug/mL
							PCB-1260 Peak 4	0.25 ug/mL
							PCB-1260 Peak 5	0.25 ug/mL
					TCX/DCBPAR_00028	1 mL	DCB Decachlorobiphenyl	0.02 ug/mL
							Tetrachloro-m-xylene	0.02 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18		RESTEK, Lot A084195		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22		RESTEK, Lot A0117947		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-5 LVI_00003	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-5_00032	2 mL	PCB-1016 Peak 1	0.15 ug/mL
							PCB-1016 Peak 2	0.15 ug/mL
							PCB-1016 Peak 3	0.15 ug/mL
							PCB-1016 Peak 4	0.15 ug/mL
							PCB-1016 Peak 5	0.15 ug/mL
							PCB-1260 Peak 1	0.15 ug/mL
							PCB-1260 Peak 2	0.15 ug/mL
							PCB-1260 Peak 3	0.15 ug/mL
							PCB-1260 Peak 4	0.15 ug/mL
							PCB-1260 Peak 5	0.15 ug/mL
							DCB Decachlorobiphenyl	0.012 ug/mL
							Tetrachloro-m-xylene	0.012 ug/mL
.AR1660-5_00032	03/07/18	09/07/17	HEXANE, Lot 173156	50 mL	AR1660PAR_00034	7.5 mL	PCB-1016 Peak 1	0.75 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 2	0.75 ug/mL
							PCB-1016 Peak 3	0.75 ug/mL
							PCB-1016 Peak 4	0.75 ug/mL
							PCB-1016 Peak 5	0.75 ug/mL
							PCB-1260 Peak 1	0.75 ug/mL
							PCB-1260 Peak 2	0.75 ug/mL
							PCB-1260 Peak 3	0.75 ug/mL
							PCB-1260 Peak 4	0.75 ug/mL
							PCB-1260 Peak 5	0.75 ug/mL
					TCX/DCBPAR_00028	1.5 mL	DCB Decachlorobiphenyl	0.06 ug/mL
							Tetrachloro-m-xylene	0.06 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18		RESTEK, Lot A084195		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22		RESTEK, Lot A0117947		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660-6 LVI_00004	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR1660-6_00033	2 mL	PCB-1016 Peak 1	0.2 ug/mL
							PCB-1016 Peak 2	0.2 ug/mL
							PCB-1016 Peak 3	0.2 ug/mL
							PCB-1016 Peak 4	0.2 ug/mL
							PCB-1016 Peak 5	0.2 ug/mL
							PCB-1260 Peak 1	0.2 ug/mL
							PCB-1260 Peak 2	0.2 ug/mL
							PCB-1260 Peak 3	0.2 ug/mL
							PCB-1260 Peak 4	0.2 ug/mL
							PCB-1260 Peak 5	0.2 ug/mL
							DCB Decachlorobiphenyl	0.016 ug/mL
							Tetrachloro-m-xylene	0.016 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.AR1660-6_00033	03/07/18	09/07/17	HEXANE, Lot 173156	50 mL	AR1660PAR_00034	10 mL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					TCX/DCBPAR_00028	2 mL	DCB Decachlorobiphenyl	0.08 ug/mL
							Tetrachloro-m-xylene	0.08 ug/mL
..AR1660PAR_00034	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCB1660STK_00010	0.5 mL	PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
...PCB1660STK_00010	10/31/18		RESTEK, Lot A084195		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..TCX/DCBPAR_00028	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22		RESTEK, Lot A0117947		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR1660CCV4LVI_00051	12/15/17	10/24/17	HEXANE, Lot 175756	50 mL	AR1660CCV4_00193	10 mL	PCB-1016	0.1 ug/mL
							PCB-1260	0.1 ug/mL
							DCB Decachlorobiphenyl	0.008 ug/mL
							Tetrachloro-m-xylene	0.008 ug/mL
.AR1660CCV4_00193	12/15/17	08/01/17	HEXANE, Lot 173156	100 mL	AR1660PAR_00033	10 mL	PCB-1016	0.5 ug/mL
							PCB-1260	0.5 ug/mL
					TCX/DCBPAR_00027	2 mL	DCB Decachlorobiphenyl	0.04 ug/mL
							Tetrachloro-m-xylene	0.04 ug/mL
..AR1660PAR_00033	12/15/17	06/15/17	HEXANE, Lot 172855	100 mL	PCB1660STK_00022	0.5 mL	PCB-1016	5 ug/mL
							PCB-1260	5 ug/mL
...PCB1660STK_00022	04/30/19		RESTEK, Lot A092844		(Purchased Reagent)		PCB-1016	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260	1000 ug/mL
..TCX/DCBPAR_00027	02/01/18	08/01/17	HEXANE, Lot 173156	100 mL	TCX/DCBSTK_00015	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
...TCX/DCBSTK_00015	06/30/22	RESTEK, Lot A0117947			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
AR2154-4 LVI_00003	03/07/18	09/07/17	HEXANE, Lot 172156	10 mL	AR2154-4_00002	2 mL	PCB-1221 Peak 1	0.1 ug/mL
							PCB-1221 Peak 2	0.1 ug/mL
							PCB-1221 Peak 3	0.1 ug/mL
							PCB-1254 Peak 1	0.1 ug/mL
							PCB-1254 Peak 2	0.1 ug/mL
							PCB-1254 Peak 3	0.1 ug/mL
							PCB-1254 Peak 4	0.1 ug/mL
							PCB-1254 Peak 5	0.1 ug/mL
.AR2154-4_00002	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCBAR12211254_00001	0.05 mL	PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
..PCBAR12211254_00001	02/28/22	RESTEK, Lot A0115555			(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
AR3262-4 LVI_00002	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR3262-4_00002	2 mL	PCB-1232 Peak 1	0.1 ug/mL
							PCB-1232 Peak 2	0.1 ug/mL
							PCB-1232 Peak 3	0.1 ug/mL
							PCB-1232 Peak 4	0.1 ug/mL
							PCB-1232 Peak 5	0.1 ug/mL
							PCB-1262 Peak 1	0.1 ug/mL
							PCB-1262 Peak 2	0.1 ug/mL
							PCB-1262 Peak 3	0.1 ug/mL
							PCB-1262 Peak 4	0.1 ug/mL
.AR3262-4_00002	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCBAR12621232_00002	0.05 mL	PCB-1232 Peak 1	0.5 ug/mL
							PCB-1232 Peak 2	0.5 ug/mL
							PCB-1232 Peak 3	0.5 ug/mL
							PCB-1232 Peak 4	0.5 ug/mL
							PCB-1232 Peak 5	0.5 ug/mL
							PCB-1262 Peak 1	0.5 ug/mL
							PCB-1262 Peak 2	0.5 ug/mL
							PCB-1262 Peak 3	0.5 ug/mL
							PCB-1262 Peak 4	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PCBAR12621232_00002	10/31/21		RESTEK, Lot A0112323		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
							PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
AR4268-4 LVI_00003	03/07/18	09/07/17	HEXANE, Lot 173156	10 mL	AR4268-4_00002	2 mL	PCB-1242 Peak 1	0.1 ug/mL
							PCB-1242 Peak 2	0.1 ug/mL
							PCB-1242 Peak 3	0.1 ug/mL
							PCB-1242 Peak 4	0.1 ug/mL
							PCB-1242 Peak 5	0.1 ug/mL
							PCB-1268 Peak 1	0.1 ug/mL
							PCB-1268 Peak 2	0.1 ug/mL
							PCB-1268 Peak 3	0.1 ug/mL
							PCB-1268 Peak 4	0.1 ug/mL
							PCB-1268 Peak 5	0.1 ug/mL
.AR4268-4_00002	03/07/18	09/07/17	HEXANE, Lot 173156	100 mL	PCBAR12421268_00001	0.05 mL	PCB-1242 Peak 1	0.5 ug/mL
							PCB-1242 Peak 2	0.5 ug/mL
							PCB-1242 Peak 3	0.5 ug/mL
							PCB-1242 Peak 4	0.5 ug/mL
							PCB-1242 Peak 5	0.5 ug/mL
							PCB-1268 Peak 1	0.5 ug/mL
							PCB-1268 Peak 2	0.5 ug/mL
							PCB-1268 Peak 3	0.5 ug/mL
							PCB-1268 Peak 4	0.5 ug/mL
							PCB-1268 Peak 5	0.5 ug/mL
..PCBAR12421268_00001	04/30/22		RESTEK, Lot A0116616		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
							PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
BFB STD WK_00154							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
					BFB WK PT_00040	25 uL	BFB	25 ug/mL
.BFB WK PT_00040	08/17/17	05/17/17	1, Lot NA	1 mL	BFB STD SK_00008	1 mL	BFB	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..BFB STD SK_00008	11/30/17	ultra scientific, Lot CH-3248A			(Purchased Reagent)		BFB	2000 ug/mL
BFB STD WK_00168							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Trihalomethanes, Total	
							Trimethylbenzene, Total	
							Xylenes, Total	
					BFB WK PT_00043	25 uL	BFB	25 ug/mL
.BFB WK PT_00043	11/30/17	10/08/17	1, Lot NA	1 mL	BFB STD SK_00008	1 mL	BFB	2000 ug/mL
..BFB STD SK_00008	11/30/17	ultra scientific, Lot CH-3248A			(Purchased Reagent)		BFB	2000 ug/mL
EXBNAL1SPW_00190	03/19/18	09/19/17	MEOH, Lot 4415828	50 mL	SMcaLs1S11_ST_00005	1000 uL	Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
					SMcaLs1St1_ST_00032	2000 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
					SMcaLs1St10_00018	2000 uL	Benzoic acid	80 ug/mL
							Indene	80 ug/mL
					SMcaLs1St9_ST_00018	1000 uL	3,3'-Dichlorobenzidine	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	40 ug/mL
.SMcaLs1S11_ST_00005	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.SMcaLs1St1_ST_00032	09/30/18		RESTEK, Lot A0125805		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.SMcaLs1St10_00018	06/30/18		Restek, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.SMcaLs1St9_ST_00018	06/30/18		Restek, Lot A0123497		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
EXBNASURTS_00042	06/30/20		Restek, Lot A0128636		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
							Terphenyl-d14 (Surr)	100 ug/mL
EXCPPSUW_00936	04/24/18	10/30/17	ACETONE, Lot 4390356	100 mL	EXCPPSUP_00160	10 mL	DCB Decachlorobiphenyl	0.4 ug/mL
							Tetrachloro-m-xylene	0.4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.EXCPPSUP_00160	04/24/18	10/24/17	ACETONE, Lot 4451855	100 mL	EGCPPSUST_00044	2 mL	DCB Decachlorobiphenyl	4 ug/mL
							Tetrachloro-m-xylene	4 ug/mL
..EGCPPSUST_00044	06/30/23		Restek, Lot A0125833		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
EXPCBSPW66_00156	05/06/18	11/06/17	MEOH, Lot 4415827	100 mL	EXPCBSPP66_00036	10 mL	1260 Res 1	5 ug/mL
							1260 Res 2	5 ug/mL
							1260 Res 3	5 ug/mL
							PCB-1016	5 ug/mL
							PCB-1016 Peak 1	5 ug/mL
							PCB-1016 Peak 2	5 ug/mL
							PCB-1016 Peak 3	5 ug/mL
							PCB-1016 Peak 4	5 ug/mL
							PCB-1016 Peak 5	5 ug/mL
							PCB-1260	5 ug/mL
							PCB-1260 Peak 1	5 ug/mL
							PCB-1260 Peak 2	5 ug/mL
							PCB-1260 Peak 3	5 ug/mL
							PCB-1260 Peak 4	5 ug/mL
							PCB-1260 Peak 5	5 ug/mL
.EXPCBSPP66_00036	05/06/18	11/06/17	MEOH, Lot 4415827	50 mL	PCB1660STK_00018	2.5 mL	1260 Res 1	50 ug/mL
							1260 Res 2	50 ug/mL
							1260 Res 3	50 ug/mL
							PCB-1016	50 ug/mL
							PCB-1016 Peak 1	50 ug/mL
							PCB-1016 Peak 2	50 ug/mL
							PCB-1016 Peak 3	50 ug/mL
							PCB-1016 Peak 4	50 ug/mL
							PCB-1016 Peak 5	50 ug/mL
							PCB-1260	50 ug/mL
							PCB-1260 Peak 1	50 ug/mL
							PCB-1260 Peak 2	50 ug/mL
							PCB-1260 Peak 3	50 ug/mL
							PCB-1260 Peak 4	50 ug/mL
							PCB-1260 Peak 5	50 ug/mL
..PCB1660STK_00018	02/28/22		RESTEK, Lot A0115663		(Purchased Reagent)		1260 Res 1	1000 ug/mL
							1260 Res 2	1000 ug/mL
							1260 Res 3	1000 ug/mL
							PCB-1016	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
HIVOL_DFTPPWK_00069							4,4'-DDD	
							4,4'-DDE	
							Aramite, Total	
							Creosote	
							Diallate	
							Isosafrole	
							Methyl Phenols,Total	
							Tentatively Identified Compound	
							Total Cresols, TCEQ Definition	
					SMDFTPPWK_00103	200 uL	4,4'-DDT	10 ug/mL
							Benzidine	10 ug/mL
							DFTPP	10 ug/mL
							Pentachlorophenol	10 ug/mL
.SMDFTPPWK_00103	02/15/18	02/15/17	Methylene Chloride, Lot 158443	1000 uL	SMTUNEWKS_00015	50 uL	4,4'-DDT	50 ug/mL
							Benzidine	50 ug/mL
							DFTPP	50 ug/mL
							Pentachlorophenol	50 ug/mL
..SMTUNEWKS_00015	02/15/18	02/15/17	n/a, Lot n/a	1000 uL	SMTUNESTK_00012	1000 uL	4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
...SMTUNESTK_00012	12/31/19	RESTEK, Lot A0123348			(Purchased Reagent)		4,4'-DDT	1000 ug/mL
							Benzidine	1000 ug/mL
							DFTPP	1000 ug/mL
							Pentachlorophenol	1000 ug/mL
ICV1660-3_00044	01/31/18	09/07/17	HEXANE, Lot 173156	10 mL	ICV1660-3_00041	2 mL	PCB-1016	0.05 ug/mL
							PCB-1260	0.05 ug/mL
.ICV1660-3_00041	01/31/18	07/31/17	HEXANE, Lot 173156	100 mL	ICV1660PAR_00024	5 mL	PCB-1016	0.25 ug/mL
							PCB-1260	0.25 ug/mL
..ICV1660PAR_00024	01/31/18	07/31/17	HEXANE, Lot 173156	100 mL	PCB1660ICVSTK_00003	0.5 mL	PCB-1016	5 ug/mL
							PCB-1260	5 ug/mL
...PCB1660ICVSTK_00003	01/31/22	RESTEK, Lot A0114674			(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1260	1000 ug/mL
IS8000WRK_00017	03/07/18	09/07/17	HEXANE, Lot 173156	100 ug/mL	IS 8000 STK_00003	0.2 mL	1-Bromo-2-nitrobenzene	2 ug/mL
.IS 8000 STK_00003	12/31/19	RESTEK, Lot A0121535			(Purchased Reagent)		1-Bromo-2-nitrobenzene	1000 ug/mL
LEVEL1 8260_00001	12/31/17	01/15/13	1, Lot DH247	1 mL	8260/624STD_00001	5 uL	Vinyl chloride	0.5 ug/mL
							Benzene	0.5 ug/mL
							Ethylbenzene	0.5 ug/mL
							m-Xylene & p-Xylene	0.5 ug/mL
							o-Xylene	0.5 ug/mL
							Toluene	0.5 ug/mL
							Trichloroethene	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260/624STD_00001	12/31/17	01/15/13	METHANOL, Lot DH247	2 mL	8260/624L1GAS_00001	100 uL	Vinyl chloride	100 ug/mL
					8260/624L1MEG_00001	100 uL	Benzene	100 ug/mL
							Ethylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							o-Xylene	100 ug/mL
							Toluene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624L1GAS_00001	12/31/17		Restek, Lot A092242		(Purchased Reagent)		Vinyl chloride	2000 ug/mL
..8260/624L1MEG_00001	12/31/17		Restek, Lot A092262		(Purchased Reagent)		Benzene	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							o-Xylene	2000 ug/mL
							Toluene	2000 ug/mL
							Trichloroethene	2000 ug/mL
LO8260/624STD_00259	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASWK_00457	100 uL	Bromomethane	5 ug/mL
							Butadiene	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					8260/624KETWK_00263	100 uL	2-Hexanone	5 ug/mL
							Acetone	5 ug/mL
							Methyl Ethyl Ketone	5 ug/mL
							methyl isobutyl ketone	5 ug/mL
					8260/624MEGWK_00391	100 uL	1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dibromoethane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							3-Chloro-1-propene	5 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromodichloromethane	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromochloromethane	5 ug/mL
							Dibromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	25 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
					8260VA/2CEVE_00276	100 uL	Vinyl acetate	5 ug/mL
							2-Chloroethyl vinyl ether	5 ug/mL
.8260/624GASWK_00457	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624GASPT_00084	80 uL	Bromomethane	100 ug/mL
							Butadiene	100 ug/mL
							Chloroethane	100 ug/mL
							Chloromethane	100 ug/mL
							Dichlorodifluoromethane	100 ug/mL
							Dichlorofluoromethane	100 ug/mL
							Trichlorofluoromethane	100 ug/mL
							Vinyl chloride	100 ug/mL
..8260/624GASPT_00084	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 GAS_00015	1 mL	Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
...8260/624 GAS_00015	01/31/20		Restek, Lot A0124278		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260/624KETWK_00263	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624KETPT_00046	16 uL	2-Hexanone	100 ug/mL
							Acetone	100 ug/mL
							Methyl Ethyl Ketone	100 ug/mL
							methyl isobutyl ketone	100 ug/mL
..8260/624KETPT_00046	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 KET_00012	1 mL	2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
...8260/624 KET_00012	11/30/18		Restek, Lot A0115554		(Purchased Reagent)		2-Hexanone	12500 ug/mL
							Acetone	12500 ug/mL
							Methyl Ethyl Ketone	12500 ug/mL
							methyl isobutyl ketone	12500 ug/mL
.8260/624MEGWK_00391	07/19/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624MEGPT_00072	80 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							3-Chloro-1-propene	100 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromodichloromethane	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromochloromethane	100 ug/mL
							Dibromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	500 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
..8260/624MEGPT_00072	10/05/17	07/05/17	na, Lot na	1 mL	8260/624 Mega_00016	1 mL	1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
...8260/624 Mega_00016	03/31/18		Restek, Lot A0108177		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VA/2CEVE_00276	07/12/17	07/05/17	METHANOL, Lot 147462	2 mL	8260/624 VAPT_00051	40 uL	Vinyl acetate	100 ug/mL
					8260/624CEVPT_00044	80 uL	2-Chloroethyl vinyl ether	100 ug/mL
..8260/624 VAPT_00051	09/30/17	05/30/17	METHANOL, Lot NA	1 mL	8260/624 VA_00023	1 mL	Vinyl acetate	5000 ug/mL
...8260/624 VA_00023	09/30/17		Restek, Lot A0125716		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..8260/624CEVPT_00044	09/26/17	06/26/17	METHANOL, Lot NA	1 mL	8260/624 CEVE_00011	1 mL	2-Chloroethyl vinyl ether	2500 ug/mL
...8260/624 CEVE_00011	11/30/18		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
LOW8260ACR_00173	07/12/17	07/05/17	Water, Lot NA	1 mL	8260/624ACRWK_00334	50 uL	Acrolein	200 ug/mL
.8260/624ACRWK_00334	07/12/17	07/05/17	Water, Lot NA	2 mL	8260 ACRPTSPK_00032	400 uL	Acrolein	4000 ug/mL
..8260 ACRPTSPK_00032	08/23/17	05/23/17	Water, Lot NA	1 mL	ACROLN SK STK_00026	1 mL	Acrolein	20000 ug/mL
...ACROLN SK STK_00026	09/30/17		Restek, Lot A0125594		(Purchased Reagent)		Acrolein	20000 ug/mL
M15HSTKHG_00001	06/30/21		ULTRA, Lot T00602		(Purchased Reagent)		Mercury	1000 ug/mL
M17BSTKHG_00001	02/27/18		Inorganic Ventures, Lot J2-HG02134		(Purchased Reagent)		Mercury	1000 ug/mL
M17ISPKIC_00001	11/16/17	09/27/17	Nitric Acid Water, Lot 165099	1000 mL	M16LSTKIC_00004	100 mL	Al	200 ug/mL
							Barium	200 ug/mL
							Ca	1000 ug/mL
							K	1000 ug/mL
							Mg	1000 ug/mL
							Na	1000 ug/mL
					M16LSTKIC_00005	100 mL	Arsenic	10 ug/mL
							B	100 ug/mL
							Be	5 ug/mL
							Bi	50 ug/mL
							Cadmium	5 ug/mL
							Chromium	20 ug/mL
							Co	50 ug/mL
							Cu	25 ug/mL
							Fe	100 ug/mL
							Lead	10 ug/mL
							Li	50 ug/mL
							Mn	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ni	50 ug/mL
							Selenium	10 ug/mL
							Sr	100 ug/mL
							Tl	10 ug/mL
							V	50 ug/mL
							Zn	50 ug/mL
					M16LSTKIC_00006	100 mL	Mo	100 ug/mL
							Sb	50 ug/mL
							Si	500 ug/mL
							Silver	5 ug/mL
							Sn	100 ug/mL
							Ti	100 ug/mL
					M17ASTKIC_00003	5 mL	Tl	10 ug/mL
					M17GSTKIC_00007	9 mL	Selenium	10 ug/mL
					M17GSTKIC_00008	8 mL	Lead	10 ug/mL
					M17HSTKIC_00002	6 mL	Arsenic	10 ug/mL
.M16LSTKIC_00004	11/16/17	Environ. Express, Lot 1631619			(Purchased Reagent)		Al	2000 ug/mL
							Barium	2000 ug/mL
							Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
.M16LSTKIC_00005	11/16/17	Environ.l Express, Lot 1631620			(Purchased Reagent)		Arsenic	40 ug/mL
							B	1000 ug/mL
							Be	50 ug/mL
							Bi	500 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Cu	250 ug/mL
							Fe	1000 ug/mL
							Lead	20 ug/mL
							Li	500 ug/mL
							Mn	500 ug/mL
							Ni	500 ug/mL
							Selenium	10 ug/mL
							Sr	1000 ug/mL
							Tl	50 ug/mL
							V	500 ug/mL
							Zn	500 ug/mL
.M16LSTKIC_00006	11/16/17	Environ. Express, Lot 1631621			(Purchased Reagent)		Mo	1000 ug/mL
							Sb	500 ug/mL
							Si	5000 ug/mL
							Silver	50 ug/mL
							Sn	1000 ug/mL
							Ti	1000 ug/mL
.M17ASTKIC_00003	01/13/18	Inorganic Ventures, Lot K2-TL651554			(Purchased Reagent)		Tl	1000 ug/mL
.M17GSTKIC_00007	07/25/18	Inorganic Ventures, Lot M2-SE02058R			(Purchased Reagent)		Selenium	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.M17GSTKIC_00008	07/25/18	Inorganic Ventures, Lot M2-PB656988			(Purchased Reagent)		Lead	1000 ug/mL
.M17HSTKIC_00002	08/18/18	Inorganic Ventures, Lot M2-AS657780			(Purchased Reagent)		Arsenic	1000 ug/mL
M17JCCVIC_00003	06/01/18	10/30/17	acidic water, Lot 166089/175648	1000 mL	M17GSTKIC_00003	10 mL	Arsenic	0.5 ug/mL
							Barium	0.5 ug/mL
							Cadmium	0.5 ug/mL
							Chromium	0.5 ug/mL
							Lead	0.5 ug/mL
							Selenium	0.5 ug/mL
					M17GSTKIC_00005	10 mL	Silver	0.5 ug/mL
.M17GSTKIC_00003	06/01/18	High Purity Standards, Lot 1718019			(Purchased Reagent)		Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
.M17GSTKIC_00005	06/01/18	High Purity Standards, Lot 1718016			(Purchased Reagent)		Silver	50 ug/mL
M17JCCVLIC_00001	03/08/18	10/05/17	acidic water, Lot 166089/175648	1000 mL	M17CSTKIC_00002	1 mL	Arsenic	0.01 ug/mL
							Barium	0.01 ug/mL
							Cadmium	0.002 ug/mL
							Chromium	0.01 ug/mL
							Lead	0.005 ug/mL
							Selenium	0.01 ug/mL
							Silver	0.005 ug/mL
.M17CSTKIC_00002	03/08/18	Inorganic Ventures, Lot M2-MEB656086			(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	10 ug/mL
							Cadmium	2 ug/mL
							Chromium	10 ug/mL
							Lead	5 ug/mL
							Selenium	10 ug/mL
							Silver	5 ug/mL
M17JCRIIC_00001	12/02/17	10/05/17	acidic water, Lot 166089/175648	1000 mL	M17CSTKIC_00002	2 mL	Arsenic	20 ug/L
							Barium	20 ug/L
							Cadmium	4 ug/L
							Chromium	20 ug/L
							Lead	10 ug/L
							Selenium	20 ug/L
							Silver	10 ug/L
.M17CSTKIC_00002	03/08/18	Inorganic Ventures, Lot M2-MEB656086			(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	10 ug/mL
							Cadmium	2 ug/mL
							Chromium	10 ug/mL
							Lead	5 ug/mL
							Selenium	10 ug/mL
							Silver	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
M17JICVIC_00002	06/01/18	10/30/17	acidic water, Lot 166089/175648	1000 mL	M17GSTKIC_00003	8 mL	Arsenic	0.4 ug/mL
							Barium	0.4 ug/mL
							Cadmium	0.4 ug/mL
							Chromium	0.4 ug/mL
							Lead	0.4 ug/mL
							Selenium	0.4 ug/mL
					M17GSTKIC_00005	8 mL	Silver	0.4 ug/mL
.M17GSTKIC_00003	06/01/18	High Purity Standards, Lot 1718019			(Purchased Reagent)		Arsenic	50 ug/mL
							Barium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	50 ug/mL
							Lead	50 ug/mL
							Selenium	50 ug/mL
.M17GSTKIC_00005	06/01/18	High Purity Standards, Lot 1718016			(Purchased Reagent)		Silver	50 ug/mL
M17JISAIC_00002	10/04/18	10/30/17	acidic water, Lot 166089/175648	1000 mL	M17JSTKIC_00005	100 mL	Al	500 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.M17JSTKIC_00005	10/04/18	Inorganic Ventures, Lot K2-MEB643109			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
M17JISBIC_00002	07/17/18	10/30/17	acidic water, Lot 166089/175648	1000 mL	M17GSTKIC_00002	10 mL	Arsenic	0.1 ug/mL
							Barium	0.5 ug/mL
							Be	0.5 ug/mL
							Cadmium	1 ug/mL
							Chromium	0.5 ug/mL
							Co	0.5 ug/mL
							Cu	0.5 ug/mL
							Lead	0.05 ug/mL
							Mn	0.5 ug/mL
							Ni	1 ug/mL
							Sb	0.6 ug/mL
							Selenium	0.05 ug/mL
							Silver	0.2 ug/mL
							Tl	0.1 ug/mL
							V	0.5 ug/mL
							Zn	1 ug/mL
					M17JSTKIC_00005	100 mL	Al	500 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.M17GSTKIC_00002	07/17/18	Inorganic Ventures, Lot K2-MEB627074			(Purchased Reagent)		Arsenic	10 ug/mL
							Barium	50 ug/mL
							Be	50 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cadmium	100 ug/mL
							Chromium	50 ug/mL
							Co	50 ug/mL
							Cu	50 ug/mL
							Lead	5 ug/mL
							Mn	50 ug/mL
							Ni	100 ug/mL
							Sb	60 ug/mL
							Selenium	5 ug/mL
							Silver	20 ug/mL
							Tl	10 ug/mL
							V	50 ug/mL
							Zn	100 ug/mL
.M17JSTKIC_00005	10/04/18	Inorganic Ventures, Lot K2-MEB643109			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
SM_HIVOLISTD_00158	12/16/17	06/16/17	Methylene Chloride, Lot 173138	4000 uL	SMISTDWORK_00347	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
.SMISTDWORK_00347	06/05/18	06/05/17	Methylene Chloride, Lot 164544	4000 uL	SMISTD_WK_00038	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
..SMISTD_WK_00038	06/05/18	06/05/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
...SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMlst1_5uLICV_00037	12/28/17	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SM_HIVOLISTD_00172	10 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMlst1_5uLICV_00037	12/28/17	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMICV_L1_W5uL_00016	250 uL	Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							1,1'-Biphenyl	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
.SMICV_L1_W5uL_00016	12/28/17	07/06/17	Methylene Chloride, Lot 173138	1000 uL	SMICVL1_WKG_00019	200 uL	Atrazine	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							1,1'-Biphenyl	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
..SMICVL1_WKG_00019	12/28/17	07/06/17	Methylene Chloride, Lot 173138	1000 uL	SMicLs1S11_WK_00005	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMicvLs1S1_WK_00008	200 uL	1,1'-Biphenyl	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
					SMicvLs1S9_WK_00005	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
...SMicLs1S11_WK_00005	12/28/17	06/28/17	Methylene Chloride, Lot n/a	5000 uL	SMicLs1S11_ST_00006	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMicLs1S11_ST_00006	06/30/18	RESTEK, Lot A0123649			(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMicvLs1S1_WK_00008	07/06/18	07/06/17	n/a, Lot n/a	5000 uL	SMicvLs1S1_ST_00017	5000 uL	1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
....SMicvLs1S1_ST_00017	11/30/18		RESTEK, Lot A0127347		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
...SMicvLs1S9_WK_00005	06/30/18	05/02/17	Methylene Chloride, Lot n/a	5000 uL	SMicvLs1S9_ST_00006	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
....SMicvLs1S9_ST_00006	06/30/18	RESTEK, Lot A0123493			(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
SMlst1_5uLL1_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5WKG_00054	20 uL	Benzo[a]anthracene	0.04 ug/mL
							Benzo[a]pyrene	0.04 ug/mL
							Benzo[b]fluoranthene	0.04 ug/mL
							Benzo[k]fluoranthene	0.04 ug/mL
							Chrysene	0.04 ug/mL
							Dibenz(a,h)anthracene	0.04 ug/mL
							Indeno[1,2,3-cd]pyrene	0.04 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
......SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
SMlst1_5uLL10_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	150 uL	1,1'-Biphenyl	12 ug/mL
							1,2,4,5-Tetrachlorobenzene	12 ug/mL
							1,2,4-Trichlorobenzene	12 ug/mL
							1,2-Dichlorobenzene	12 ug/mL
							1,2-Diphenylhydrazine	12 ug/mL
							1,3-Dichlorobenzene	12 ug/mL
							1,3-Dinitrobenzene	12 ug/mL
							1,4-Dichlorobenzene	12 ug/mL
							1,4-Dioxane	12 ug/mL
							1-Methylnaphthalene	12 ug/mL
							2,2'-oxybis[1-chloropropane]	12 ug/mL
							2,3,4,6-Tetrachlorophenol	12 ug/mL
							2,4,5-Trichlorophenol	12 ug/mL
							2,4,6-Trichlorophenol	12 ug/mL
							2,4-Dichlorophenol	12 ug/mL
							2,4-Dimethylphenol	12 ug/mL
							2,4-Dinitrophenol	24 ug/mL
							2,4-Dinitrotoluene	12 ug/mL
							2,6-Dichlorophenol	12 ug/mL
							2,6-Dinitrotoluene	12 ug/mL
							2-Chloronaphthalene	12 ug/mL
							2-Chlorophenol	12 ug/mL
							2-Methylnaphthalene	12 ug/mL
							2-Methylphenol	12 ug/mL
							2-Nitroaniline	12 ug/mL
							2-Nitrophenol	12 ug/mL
							3 & 4 Methylphenol	12 ug/mL
							3-Nitroaniline	12 ug/mL
							4,6-Dinitro-2-methylphenol	24 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromophenyl phenyl ether	12 ug/mL
							4-Chloro-3-methylphenol	12 ug/mL
							4-Chloroaniline	12 ug/mL
							4-Chlorophenyl phenyl ether	12 ug/mL
							4-Nitroaniline	12 ug/mL
							4-Nitrophenol	24 ug/mL
							Acenaphthene	12 ug/mL
							Acenaphthylene	12 ug/mL
							Acetophenone	12 ug/mL
							Aniline	12 ug/mL
							Anthracene	12 ug/mL
							Benzo[a]anthracene	12 ug/mL
							Benzo[a]pyrene	12 ug/mL
							Benzo[b]fluoranthene	12 ug/mL
							Benzo[g,h,i]perylene	12 ug/mL
							Benzo[k]fluoranthene	12 ug/mL
							Benzyl alcohol	12 ug/mL
							Bis(2-chloroethoxy)methane	12 ug/mL
							Bis(2-chloroethyl)ether	12 ug/mL
							Bis(2-ethylhexyl) phthalate	12 ug/mL
							Butyl benzyl phthalate	12 ug/mL
							Carbazole	12 ug/mL
							Chrysene	12 ug/mL
							Di-n-butyl phthalate	12 ug/mL
							Di-n-octyl phthalate	12 ug/mL
							Dibenz(a,h)anthracene	12 ug/mL
							Dibenzofuran	12 ug/mL
							Diethyl phthalate	12 ug/mL
							Dimethyl phthalate	12 ug/mL
							Diphenylamine	10.2 ug/mL
							Fluoranthene	12 ug/mL
							Fluorene	12 ug/mL
							Hexachlorobenzene	12 ug/mL
							Hexachlorobutadiene	12 ug/mL
							Hexachlorocyclopentadiene	12 ug/mL
							Hexachloroethane	12 ug/mL
							Hexadecane	12 ug/mL
							Indeno[1,2,3-cd]pyrene	12 ug/mL
							Isophorone	12 ug/mL
							n-Decane	12 ug/mL
							N-Nitrosodi-n-propylamine	12 ug/mL
							N-Nitrosodimethylamine	12 ug/mL
							N-Nitrosodiphenylamine	12 ug/mL
							n-Octadecane	12 ug/mL
							Naphthalene	12 ug/mL
							Nitrobenzene	12 ug/mL
							Pentachlorophenol	24 ug/mL
							Phenanthrene	12 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol	12 ug/mL
							Pyrene	12 ug/mL
							Pyridine	24 ug/mL
							Benzoic acid	24 ug/mL
							Indene	24 ug/mL
							Atrazine	12 ug/mL
							Benzaldehyde	12 ug/mL
							Caprolactam	12 ug/mL
							3,3'-Dichlorobenzidine	12 ug/mL
							Benzidine	12 ug/mL
					SMSURR5uLWKG_00060	150 uL	2,4,6-Tribromophenol (Surr)	12 ug/mL
							2-Fluorobiphenyl (Surr)	12 ug/mL
							2-Fluorophenol (Surr)	12 ug/mL
							Nitrobenzene-d5 (Surr)	12 ug/mL
							Phenol-d5 (Surr)	12 ug/mL
							Terphenyl-d14 (Surr)	12 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added	Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18	RESTEK, Lot A0123819			(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL11_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	175 uL	1,1'-Biphenyl	14 ug/mL
							1,2,4,5-Tetrachlorobenzene	14 ug/mL
							1,2,4-Trichlorobenzene	14 ug/mL
							1,2-Dichlorobenzene	14 ug/mL
							1,2-Diphenylhydrazine	14 ug/mL
							1,3-Dichlorobenzene	14 ug/mL
							1,3-Dinitrobenzene	14 ug/mL
							1,4-Dichlorobenzene	14 ug/mL
							1,4-Dioxane	14 ug/mL
							1-Methylnaphthalene	14 ug/mL
							2,2'-oxybis[1-chloropropane]	14 ug/mL
							2,3,4,6-Tetrachlorophenol	14 ug/mL
							2,4,5-Trichlorophenol	14 ug/mL
							2,4,6-Trichlorophenol	14 ug/mL
							2,4-Dichlorophenol	14 ug/mL
							2,4-Dimethylphenol	14 ug/mL
							2,4-Dinitrophenol	28 ug/mL
							2,4-Dinitrotoluene	14 ug/mL
							2,6-Dichlorophenol	14 ug/mL
							2,6-Dinitrotoluene	14 ug/mL
							2-Chloronaphthalene	14 ug/mL
							2-Chlorophenol	14 ug/mL
							2-Methylnaphthalene	14 ug/mL
							2-Methylphenol	14 ug/mL
							2-Nitroaniline	14 ug/mL
							2-Nitrophenol	14 ug/mL
							3 & 4 Methylphenol	14 ug/mL
							3-Nitroaniline	14 ug/mL
							4,6-Dinitro-2-methylphenol	28 ug/mL
							4-Bromophenyl phenyl ether	14 ug/mL
							4-Chloro-3-methylphenol	14 ug/mL
							4-Chloroaniline	14 ug/mL
							4-Chlorophenyl phenyl ether	14 ug/mL
							4-Nitroaniline	14 ug/mL
							4-Nitrophenol	28 ug/mL
							Acenaphthene	14 ug/mL
							Acenaphthylene	14 ug/mL
							Acetophenone	14 ug/mL
							Aniline	14 ug/mL
							Anthracene	14 ug/mL
							Benzo[a]anthracene	14 ug/mL
							Benzo[a]pyrene	14 ug/mL
							Benzo[b]fluoranthene	14 ug/mL
							Benzo[g,h,i]perylene	14 ug/mL
							Benzo[k]fluoranthene	14 ug/mL
							Benzyl alcohol	14 ug/mL
							Bis(2-chloroethoxy)methane	14 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethyl)ether	14 ug/mL
							Bis(2-ethylhexyl) phthalate	14 ug/mL
							Butyl benzyl phthalate	14 ug/mL
							Carbazole	14 ug/mL
							Chrysene	14 ug/mL
							Di-n-butyl phthalate	14 ug/mL
							Di-n-octyl phthalate	14 ug/mL
							Dibenz(a,h)anthracene	14 ug/mL
							Dibenzofuran	14 ug/mL
							Diethyl phthalate	14 ug/mL
							Dimethyl phthalate	14 ug/mL
							Diphenylamine	11.9 ug/mL
							Fluoranthene	14 ug/mL
							Fluorene	14 ug/mL
							Hexachlorobenzene	14 ug/mL
							Hexachlorobutadiene	14 ug/mL
							Hexachlorocyclopentadiene	14 ug/mL
							Hexachloroethane	14 ug/mL
							Hexadecane	14 ug/mL
							Indeno[1,2,3-cd]pyrene	14 ug/mL
							Isophorone	14 ug/mL
							n-Decane	14 ug/mL
							N-Nitrosodi-n-propylamine	14 ug/mL
							N-Nitrosodimethylamine	14 ug/mL
							N-Nitrosodiphenylamine	14 ug/mL
							n-Octadecane	14 ug/mL
							Naphthalene	14 ug/mL
							Nitrobenzene	14 ug/mL
							Pentachlorophenol	28 ug/mL
							Phenanthrene	14 ug/mL
							Phenol	14 ug/mL
							Pyrene	14 ug/mL
							Pyridine	28 ug/mL
							Benzoic acid	28 ug/mL
							Indene	28 ug/mL
							Atrazine	14 ug/mL
							Benzaldehyde	14 ug/mL
							Caprolactam	14 ug/mL
							3,3'-Dichlorobenzidine	14 ug/mL
							Benzidine	14 ug/mL
					SMSURR5uLWKG_00060	175 uL	2,4,6-Tribromophenol (Surr)	14 ug/mL
							2-Fluorobiphenyl (Surr)	14 ug/mL
							2-Fluorophenol (Surr)	14 ug/mL
							Nitrobenzene-d5 (Surr)	14 ug/mL
							Phenol-d5 (Surr)	14 ug/mL
							Terphenyl-d14 (Surr)	14 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL2_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5WKG_00054	50 uL	2,6-Dinitrotoluene	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							N-Nitrosodi-n-propylamine	0.1 ug/mL
							Phenol	0.1 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	2,6-Dinitrotoluene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							Phenol	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	2,6-Dinitrotoluene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							Phenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	2,6-Dinitrotoluene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							Phenol	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	2,6-Dinitrotoluene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							Phenol	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Phenol	1000 ug/mL
......SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-propylamine	1000 ug/mL
							Phenol	1000 ug/mL
SMlst1_5uLL3_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5WKG_00054	100 uL	1-Methylnaphthalene	0.2 ug/mL
							2,4-Dinitrotoluene	0.2 ug/mL
							2,6-Dinitrotoluene	0.2 ug/mL
							2-Methylnaphthalene	0.2 ug/mL
							Acenaphthene	0.2 ug/mL
							Acenaphthylene	0.2 ug/mL
							Acetophenone	0.2 ug/mL
							Anthracene	0.2 ug/mL
							Benzo[a]anthracene	0.2 ug/mL
							Benzo[a]pyrene	0.2 ug/mL
							Benzo[b]fluoranthene	0.2 ug/mL
							Benzo[g,h,i]perylene	0.2 ug/mL
							Benzo[k]fluoranthene	0.2 ug/mL
							Chrysene	0.2 ug/mL
							Dibenz(a,h)anthracene	0.2 ug/mL
							Fluoranthene	0.2 ug/mL
							Fluorene	0.2 ug/mL
							Hexachlorobenzene	0.2 ug/mL
							Indeno[1,2,3-cd]pyrene	0.2 ug/mL
							n-Decane	0.2 ug/mL
							N-Nitrosodi-n-propylamine	0.2 ug/mL
							N-Nitrosodiphenylamine	0.2 ug/mL
							Naphthalene	0.2 ug/mL
							Nitrobenzene	0.2 ug/mL
							Phenanthrene	0.2 ug/mL
							Pyrene	0.2 ug/mL
							2,4,6-Tribromophenol (Surr)	0.2 ug/mL
							2-Fluorobiphenyl (Surr)	0.2 ug/mL
							2-Fluorophenol (Surr)	0.2 ug/mL
							Nitrobenzene-d5 (Surr)	0.2 ug/mL
							Phenol-d5 (Surr)	0.2 ug/mL
							Terphenyl-d14 (Surr)	0.2 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	1-Methylnaphthalene	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Chrysene	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1-Methylnaphthalene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Chrysene	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Phenanthrene	4 ug/mL
							Pyrene	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1-Methylnaphthalene	40 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Chrysene	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1-Methylnaphthalene	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Chrysene	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
.....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1-Methylnaphthalene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
....SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
......SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.......SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL4_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5WKG_00054	200 uL	1,2,4-Trichlorobenzene	0.4 ug/mL
							1,2-Dichlorobenzene	0.4 ug/mL
							1,3-Dichlorobenzene	0.4 ug/mL
							1,4-Dichlorobenzene	0.4 ug/mL
							1-Methylnaphthalene	0.4 ug/mL
							2,2'-oxybis[1-chloropropane]	0.4 ug/mL
							2,4-Dinitrotoluene	0.4 ug/mL
							2,6-Dinitrotoluene	0.4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloronaphthalene	0.4 ug/mL
							2-Methylnaphthalene	0.4 ug/mL
							2-Methylphenol	0.4 ug/mL
							3 & 4 Methylphenol	0.4 ug/mL
							Acenaphthene	0.4 ug/mL
							Acenaphthylene	0.4 ug/mL
							Acetophenone	0.4 ug/mL
							Anthracene	0.4 ug/mL
							Benzo[a]anthracene	0.4 ug/mL
							Benzo[a]pyrene	0.4 ug/mL
							Benzo[b]fluoranthene	0.4 ug/mL
							Benzo[g,h,i]perylene	0.4 ug/mL
							Benzo[k]fluoranthene	0.4 ug/mL
							Bis(2-chloroethoxy)methane	0.4 ug/mL
							Bis(2-chloroethyl)ether	0.4 ug/mL
							Bis(2-ethylhexyl) phthalate	0.4 ug/mL
							Butyl benzyl phthalate	0.4 ug/mL
							Carbazole	0.4 ug/mL
							Chrysene	0.4 ug/mL
							Di-n-butyl phthalate	0.4 ug/mL
							Dibenz(a,h)anthracene	0.4 ug/mL
							Dibenzofuran	0.4 ug/mL
							Diethyl phthalate	0.4 ug/mL
							Dimethyl phthalate	0.4 ug/mL
							Fluoranthene	0.4 ug/mL
							Fluorene	0.4 ug/mL
							Hexachlorobenzene	0.4 ug/mL
							Hexachlorobutadiene	0.4 ug/mL
							Indeno[1,2,3-cd]pyrene	0.4 ug/mL
							Isophorone	0.4 ug/mL
							n-Decane	0.4 ug/mL
							N-Nitrosodi-n-propylamine	0.4 ug/mL
							N-Nitrosodiphenylamine	0.4 ug/mL
							n-Octadecane	0.4 ug/mL
							Naphthalene	0.4 ug/mL
							Nitrobenzene	0.4 ug/mL
							Phenanthrene	0.4 ug/mL
							Pyrene	0.4 ug/mL
							2,4,6-Tribromophenol (Surr)	0.4 ug/mL
							2-Fluorobiphenyl (Surr)	0.4 ug/mL
							2-Fluorophenol (Surr)	0.4 ug/mL
							Nitrobenzene-d5 (Surr)	0.4 ug/mL
							Phenol-d5 (Surr)	0.4 ug/mL
							Terphenyl-d14 (Surr)	0.4 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5WKG_00054	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLST_1_5ULWK_00042	250 uL	1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Phenanthrene	1 ug/mL
							Pyrene	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
..SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Phenanthrene	4 ug/mL
							Pyrene	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
...SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Phenanthrene	40 ug/mL
							Pyrene	40 ug/mL
....SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Phenanthrene	200 ug/mL
							Pyrene	200 ug/mL
.....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
.....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
...SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
....SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
.....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
......SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL5_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5ULWK_00042	125 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,3-Dinitrobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							1-Methylnaphthalene	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dichlorophenol	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Diphenylamine	0.85 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Hexadecane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1 ug/mL
							Pyridine	2 ug/mL
							Benzoic acid	2 ug/mL
							Indene	2 ug/mL
							Atrazine	1 ug/mL
							Benzaldehyde	1 ug/mL
							Caprolactam	1 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							2,4,6-Tribromophenol (Surr)	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	1 ug/mL
							Terphenyl-d14 (Surr)	1 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
..SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
...SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added	Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	2000 ug/mL
....SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.....SMcaLs1S9_ST_00004	01/31/18	RESTEK, Lot A0120168			(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
...SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
.....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
......SMSURROGAT_ST_00009	06/30/19	RESTEK, Lot A0103960			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL6_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLST_1_5ULWK_00042	250 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,3,4,6-Tetrachlorophenol	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dichlorophenol	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Diphenylamine	1.7 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Hexadecane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	4 ug/mL
							Benzoic acid	4 ug/mL
							Indene	4 ug/mL
							Atrazine	2 ug/mL
							Benzaldehyde	2 ug/mL
							Caprolactam	2 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							2,4,6-Tribromophenol (Surr)	2 ug/mL
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	2 ug/mL
							Terphenyl-d14 (Surr)	2 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLST_1_5ULWK_00042	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W5uL_00058	100 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
..SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
...SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
....SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
...SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
.....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
......SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL7_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	50 uL	1,1'-Biphenyl	4 ug/mL
							1,2,4,5-Tetrachlorobenzene	4 ug/mL
							1,2,4-Trichlorobenzene	4 ug/mL
							1,2-Dichlorobenzene	4 ug/mL
							1,2-Diphenylhydrazine	4 ug/mL
							1,3-Dichlorobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							1,4-Dichlorobenzene	4 ug/mL
							1,4-Dioxane	4 ug/mL
							1-Methylnaphthalene	4 ug/mL
							2,2'-oxybis[1-chloropropane]	4 ug/mL
							2,3,4,6-Tetrachlorophenol	4 ug/mL
							2,4,5-Trichlorophenol	4 ug/mL
							2,4,6-Trichlorophenol	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dimethylphenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2,6-Dichlorophenol	4 ug/mL
							2,6-Dinitrotoluene	4 ug/mL
							2-Chloronaphthalene	4 ug/mL
							2-Chlorophenol	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							2-Nitroaniline	4 ug/mL
							2-Nitrophenol	4 ug/mL
							3 & 4 Methylphenol	4 ug/mL
							3-Nitroaniline	4 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Bromophenyl phenyl ether	4 ug/mL
							4-Chloro-3-methylphenol	4 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Chlorophenyl phenyl ether	4 ug/mL
							4-Nitroaniline	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Aniline	4 ug/mL
							Anthracene	4 ug/mL
							Benzo[a]anthracene	4 ug/mL
							Benzo[a]pyrene	4 ug/mL
							Benzo[b]fluoranthene	4 ug/mL
							Benzo[g,h,i]perylene	4 ug/mL
							Benzo[k]fluoranthene	4 ug/mL
							Benzyl alcohol	4 ug/mL
							Bis(2-chloroethoxy)methane	4 ug/mL
							Bis(2-chloroethyl)ether	4 ug/mL
							Bis(2-ethylhexyl) phthalate	4 ug/mL
							Butyl benzyl phthalate	4 ug/mL
							Carbazole	4 ug/mL
							Chrysene	4 ug/mL
							Di-n-butyl phthalate	4 ug/mL
							Di-n-octyl phthalate	4 ug/mL
							Dibenz(a,h)anthracene	4 ug/mL
							Dibenzofuran	4 ug/mL
							Diethyl phthalate	4 ug/mL
							Dimethyl phthalate	4 ug/mL
							Diphenylamine	3.4 ug/mL
							Fluoranthene	4 ug/mL
							Fluorene	4 ug/mL
							Hexachlorobenzene	4 ug/mL
							Hexachlorobutadiene	4 ug/mL
							Hexachlorocyclopentadiene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Hexadecane	4 ug/mL
							Indeno[1,2,3-cd]pyrene	4 ug/mL
							Isophorone	4 ug/mL
							n-Decane	4 ug/mL
							N-Nitrosodi-n-propylamine	4 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							n-Octadecane	4 ug/mL
							Naphthalene	4 ug/mL
							Nitrobenzene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Phenanthrene	4 ug/mL
							Phenol	4 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
							Benzoic acid	8 ug/mL
							Indene	8 ug/mL
							Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
							Caprolactam	4 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
					SMSURR5uLWKG_00060	50 uL	2,4,6-Tribromophenol (Surr)	4 ug/mL
							2-Fluorobiphenyl (Surr)	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	4 ug/mL
							Terphenyl-d14 (Surr)	4 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL8_00034	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	100 uL	1,1'-Biphenyl	8 ug/mL
							1,2,4,5-Tetrachlorobenzene	8 ug/mL
							1,2,4-Trichlorobenzene	8 ug/mL
							1,2-Dichlorobenzene	8 ug/mL
							1,2-Diphenylhydrazine	8 ug/mL
							1,3-Dichlorobenzene	8 ug/mL
							1,3-Dinitrobenzene	8 ug/mL
							1,4-Dichlorobenzene	8 ug/mL
							1,4-Dioxane	8 ug/mL
							1-Methylnaphthalene	8 ug/mL
							2,2'-oxybis[1-chloropropane]	8 ug/mL
							2,3,4,6-Tetrachlorophenol	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dichlorophenol	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3 & 4 Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Aniline	8 ug/mL
							Anthracene	8 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Benzyl alcohol	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl)ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Diphenylamine	6.8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Hexadecane	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL
							Isophorone	8 ug/mL
							n-Decane	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodimethylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							n-Octadecane	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Pyridine	16 ug/mL
							Benzoic acid	16 ug/mL
							Indene	16 ug/mL
							Atrazine	8 ug/mL
							Benzaldehyde	8 ug/mL
							Caprolactam	8 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
							Benzidine	8 ug/mL
					SMSURR5uLWKG_00060	100 uL	2,4,6-Tribromophenol (Surr)	8 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl (Surr)	8 ug/mL
							2-Fluorophenol (Surr)	8 ug/mL
							Nitrobenzene-d5 (Surr)	8 ug/mL
							Phenol-d5 (Surr)	8 ug/mL
							Terphenyl-d14 (Surr)	8 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	80 ug/mL
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	40 ug/mL
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octadecane	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added	Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
SMlst1_5uLL8X_00107	12/07/17	07/13/17	Methylene Chloride, Lot 173138	500 uL	SM_HIVOLISTD_00162	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
.SM_HIVOLISTD_00162	12/30/17	07/12/17	Methylene Chloride, Lot 173138	4000 uL	SMISTDWORK_00348	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00348	06/05/18	06/21/17	Methylene Chloride, Lot 173138	4000 uL	SMISTD_WK_00038	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00038	06/05/18	06/05/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21	RESTEK, Lot A0121898			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
SMlst1_5uLL8X_00107	12/07/17	07/13/17	Methylene Chloride, Lot 173138	500 uL	SMLIST_1_W5uL_00055	100 uL	1,1'-Biphenyl	8 ug/mL
							2,2'-oxybis[1-chloropropane]	8 ug/mL
							2,4,5-Trichlorophenol	8 ug/mL
							2,4,6-Trichlorophenol	8 ug/mL
							2,4-Dichlorophenol	8 ug/mL
							2,4-Dimethylphenol	8 ug/mL
							2,4-Dinitrophenol	16 ug/mL
							2,4-Dinitrotoluene	8 ug/mL
							2,6-Dinitrotoluene	8 ug/mL
							2-Chloronaphthalene	8 ug/mL
							2-Chlorophenol	8 ug/mL
							2-Methylnaphthalene	8 ug/mL
							2-Methylphenol	8 ug/mL
							2-Nitroaniline	8 ug/mL
							2-Nitrophenol	8 ug/mL
							3 & 4 Methylphenol	8 ug/mL
							3-Nitroaniline	8 ug/mL
							4,6-Dinitro-2-methylphenol	16 ug/mL
							4-Bromophenyl phenyl ether	8 ug/mL
							4-Chloro-3-methylphenol	8 ug/mL
							4-Chloroaniline	8 ug/mL
							4-Chlorophenyl phenyl ether	8 ug/mL
							4-Nitroaniline	8 ug/mL
							4-Nitrophenol	16 ug/mL
							Acenaphthene	8 ug/mL
							Acenaphthylene	8 ug/mL
							Acetophenone	8 ug/mL
							Anthracene	8 ug/mL
							Benzo[a]anthracene	8 ug/mL
							Benzo[a]pyrene	8 ug/mL
							Benzo[b]fluoranthene	8 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	8 ug/mL
							Benzo[k]fluoranthene	8 ug/mL
							Bis(2-chloroethoxy)methane	8 ug/mL
							Bis(2-chloroethyl)ether	8 ug/mL
							Bis(2-ethylhexyl) phthalate	8 ug/mL
							Butyl benzyl phthalate	8 ug/mL
							Carbazole	8 ug/mL
							Chrysene	8 ug/mL
							Di-n-butyl phthalate	8 ug/mL
							Di-n-octyl phthalate	8 ug/mL
							Dibenz(a,h)anthracene	8 ug/mL
							Dibenzofuran	8 ug/mL
							Diethyl phthalate	8 ug/mL
							Dimethyl phthalate	8 ug/mL
							Fluoranthene	8 ug/mL
							Fluorene	8 ug/mL
							Hexachlorobenzene	8 ug/mL
							Hexachlorobutadiene	8 ug/mL
							Hexachlorocyclopentadiene	8 ug/mL
							Hexachloroethane	8 ug/mL
							Indeno[1,2,3-cd]pyrene	8 ug/mL
							Isophorone	8 ug/mL
							N-Nitrosodi-n-propylamine	8 ug/mL
							N-Nitrosodiphenylamine	8 ug/mL
							Naphthalene	8 ug/mL
							Nitrobenzene	8 ug/mL
							Pentachlorophenol	16 ug/mL
							Phenanthrene	8 ug/mL
							Phenol	8 ug/mL
							Pyrene	8 ug/mL
							Atrazine	8 ug/mL
							Benzaldehyde	8 ug/mL
							Caprolactam	8 ug/mL
							3,3'-Dichlorobenzidine	8 ug/mL
					SMSURR5uLWKG_00057	100 uL	2,4,6-Tribromophenol (Surr)	8 ug/mL
							2-Fluorobiphenyl (Surr)	8 ug/mL
							2-Fluorophenol (Surr)	8 ug/mL
							Nitrobenzene-d5 (Surr)	8 ug/mL
							Phenol-d5 (Surr)	8 ug/mL
							Terphenyl-d14 (Surr)	8 ug/mL
.SMLIST_1_W5uL_00055	12/07/17	07/12/17	Methylene Chloride, Lot 173138	1000 uL	SMLIST_1_W200_00054	200 uL	1,1'-Biphenyl	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
..SMLIST_1_W200_00054	12/07/17	06/07/17	Methylene Chloride, Lot 164544	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
.SMSURR5uLWKG_00057	12/07/17	07/12/17	Methylene Chloride, Lot 173138	1000 uL	SMSURRWORK_00112	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00112	12/07/17	06/07/17	Methylene Chloride, Lot 164544	1000 uL	SMSURROG_2WK_00025	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00025	12/07/17	06/07/17	Methylene Chloride, Lot 164544	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SMlst1_5uLL9_00033	01/19/18	09/20/17	Methylene Chloride, Lot 176171	500 uL	SM_HIVOLISTD_00172	5 uL	1,4-Dichlorobenzene-d4	3.2 ug/mL
							Acenaphthene-d10	3.2 ug/mL
							Chrysene-d12	3.2 ug/mL
							Naphthalene-d8	3.2 ug/mL
							Perylene-d12	3.2 ug/mL
							Phenanthrene-d10	3.2 ug/mL
					SMLIST_1_W5uL_00058	125 uL	1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							1-Methylnaphthalene	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,3,4,6-Tetrachlorophenol	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dichlorophenol	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Diphenylamine	8.5 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Hexadecane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	20 ug/mL
							Benzoic acid	20 ug/mL
							Indene	20 ug/mL
							Atrazine	10 ug/mL
							Benzaldehyde	10 ug/mL
							Caprolactam	10 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
					SMSURR5uLWKG_00060	125 uL	2,4,6-Tribromophenol (Surr)	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol (Surr)	10 ug/mL
							Nitrobenzene-d5 (Surr)	10 ug/mL
							Phenol-d5 (Surr)	10 ug/mL
							Terphenyl-d14 (Surr)	10 ug/mL
.SM_HIVOLISTD_00172	03/19/18	09/19/17	Methylene Chloride, Lot 176171	4000 uL	SMISTDWORK_00352	1600 uL	1,4-Dichlorobenzene-d4	320 ug/mL
							Acenaphthene-d10	320 ug/mL
							Chrysene-d12	320 ug/mL
							Naphthalene-d8	320 ug/mL
							Perylene-d12	320 ug/mL
							Phenanthrene-d10	320 ug/mL
..SMISTDWORK_00352	09/12/18	09/12/17	Methylene Chloride, Lot 176171	4000 uL	SMISTD_WK_00040	1600 uL	1,4-Dichlorobenzene-d4	800 ug/mL
							Acenaphthene-d10	800 ug/mL
							Chrysene-d12	800 ug/mL
							Naphthalene-d8	800 ug/mL
							Perylene-d12	800 ug/mL
							Phenanthrene-d10	800 ug/mL
...SMISTD_WK_00040	09/12/18	09/12/17	n/a, Lot n/a	5000 uL	SMISTD_ST_00013	5000 uL	1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
....SMISTD_ST_00013	10/31/21		RESTEK, Lot A0121898		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST_1_W5uL_00058	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMLIST_1_W200_00056	200 uL	1,1'-Biphenyl	40 ug/mL
							1,2,4,5-Tetrachlorobenzene	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Diphenylhydrazine	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dinitrobenzene	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							1,4-Dioxane	40 ug/mL
							1-Methylnaphthalene	40 ug/mL
							2,2'-oxybis[1-chloropropane]	40 ug/mL
							2,3,4,6-Tetrachlorophenol	40 ug/mL
							2,4,5-Trichlorophenol	40 ug/mL
							2,4,6-Trichlorophenol	40 ug/mL
							2,4-Dichlorophenol	40 ug/mL
							2,4-Dimethylphenol	40 ug/mL
							2,4-Dinitrophenol	80 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	40 ug/mL
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL
							2-Chloronaphthalene	40 ug/mL
							2-Chlorophenol	40 ug/mL
							2-Methylnaphthalene	40 ug/mL
							2-Methylphenol	40 ug/mL
							2-Nitroaniline	40 ug/mL
							2-Nitrophenol	40 ug/mL
							3 & 4 Methylphenol	40 ug/mL
							3-Nitroaniline	40 ug/mL
							4,6-Dinitro-2-methylphenol	80 ug/mL
							4-Bromophenyl phenyl ether	40 ug/mL
							4-Chloro-3-methylphenol	40 ug/mL
							4-Chloroaniline	40 ug/mL
							4-Chlorophenyl phenyl ether	40 ug/mL
							4-Nitroaniline	40 ug/mL
							4-Nitrophenol	80 ug/mL
							Acenaphthene	40 ug/mL
							Acenaphthylene	40 ug/mL
							Acetophenone	40 ug/mL
							Aniline	40 ug/mL
							Anthracene	40 ug/mL
							Benzo[a]anthracene	40 ug/mL
							Benzo[a]pyrene	40 ug/mL
							Benzo[b]fluoranthene	40 ug/mL
							Benzo[g,h,i]perylene	40 ug/mL
							Benzo[k]fluoranthene	40 ug/mL
							Benzyl alcohol	40 ug/mL
							Bis(2-chloroethoxy)methane	40 ug/mL
							Bis(2-chloroethyl)ether	40 ug/mL
							Bis(2-ethylhexyl) phthalate	40 ug/mL
							Butyl benzyl phthalate	40 ug/mL
							Carbazole	40 ug/mL
							Chrysene	40 ug/mL
							Di-n-butyl phthalate	40 ug/mL
							Di-n-octyl phthalate	40 ug/mL
							Dibenz(a,h)anthracene	40 ug/mL
							Dibenzofuran	40 ug/mL
							Diethyl phthalate	40 ug/mL
							Dimethyl phthalate	40 ug/mL
							Diphenylamine	34 ug/mL
							Fluoranthene	40 ug/mL
							Fluorene	40 ug/mL
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexadecane	40 ug/mL
							Indeno[1,2,3-cd]pyrene	40 ug/mL
							Isophorone	40 ug/mL
							n-Decane	40 ug/mL
							N-Nitrosodi-n-propylamine	40 ug/mL
							N-Nitrosodimethylamine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							n-Octadecane	40 ug/mL
							Naphthalene	40 ug/mL
							Nitrobenzene	40 ug/mL
							Pentachlorophenol	80 ug/mL
							Phenanthrene	40 ug/mL
							Phenol	40 ug/mL
							Pyrene	40 ug/mL
							Pyridine	80 ug/mL
							Benzoic acid	80 ug/mL
							Indene	80 ug/mL
							Atrazine	40 ug/mL
							Benzaldehyde	40 ug/mL
							Caprolactam	40 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
..SMLIST_1_W200_00056	01/19/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMcaLs1S1_WK_00009	200 uL	1,1'-Biphenyl	200 ug/mL
							1,2,4,5-Tetrachlorobenzene	200 ug/mL
							1,2,4-Trichlorobenzene	200 ug/mL
							1,2-Dichlorobenzene	200 ug/mL
							1,2-Diphenylhydrazine	200 ug/mL
							1,3-Dichlorobenzene	200 ug/mL
							1,3-Dinitrobenzene	200 ug/mL
							1,4-Dichlorobenzene	200 ug/mL
							1,4-Dioxane	200 ug/mL
							1-Methylnaphthalene	200 ug/mL
							2,2'-oxybis[1-chloropropane]	200 ug/mL
							2,3,4,6-Tetrachlorophenol	200 ug/mL
							2,4,5-Trichlorophenol	200 ug/mL
							2,4,6-Trichlorophenol	200 ug/mL
							2,4-Dichlorophenol	200 ug/mL
							2,4-Dimethylphenol	200 ug/mL
							2,4-Dinitrophenol	400 ug/mL
							2,4-Dinitrotoluene	200 ug/mL
							2,6-Dichlorophenol	200 ug/mL
							2,6-Dinitrotoluene	200 ug/mL
							2-Chloronaphthalene	200 ug/mL
							2-Chlorophenol	200 ug/mL
							2-Methylnaphthalene	200 ug/mL
							2-Methylphenol	200 ug/mL
							2-Nitroaniline	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitrophenol	200 ug/mL
							3 & 4 Methylphenol	200 ug/mL
							3-Nitroaniline	200 ug/mL
							4,6-Dinitro-2-methylphenol	400 ug/mL
							4-Bromophenyl phenyl ether	200 ug/mL
							4-Chloro-3-methylphenol	200 ug/mL
							4-Chloroaniline	200 ug/mL
							4-Chlorophenyl phenyl ether	200 ug/mL
							4-Nitroaniline	200 ug/mL
							4-Nitrophenol	400 ug/mL
							Acenaphthene	200 ug/mL
							Acenaphthylene	200 ug/mL
							Acetophenone	200 ug/mL
							Aniline	200 ug/mL
							Anthracene	200 ug/mL
							Benzo[a]anthracene	200 ug/mL
							Benzo[a]pyrene	200 ug/mL
							Benzo[b]fluoranthene	200 ug/mL
							Benzo[g,h,i]perylene	200 ug/mL
							Benzo[k]fluoranthene	200 ug/mL
							Benzyl alcohol	200 ug/mL
							Bis(2-chloroethoxy)methane	200 ug/mL
							Bis(2-chloroethyl)ether	200 ug/mL
							Bis(2-ethylhexyl) phthalate	200 ug/mL
							Butyl benzyl phthalate	200 ug/mL
							Carbazole	200 ug/mL
							Chrysene	200 ug/mL
							Di-n-butyl phthalate	200 ug/mL
							Di-n-octyl phthalate	200 ug/mL
							Dibenz(a,h)anthracene	200 ug/mL
							Dibenzofuran	200 ug/mL
							Diethyl phthalate	200 ug/mL
							Dimethyl phthalate	200 ug/mL
							Diphenylamine	170 ug/mL
							Fluoranthene	200 ug/mL
							Fluorene	200 ug/mL
							Hexachlorobenzene	200 ug/mL
							Hexachlorobutadiene	200 ug/mL
							Hexachlorocyclopentadiene	200 ug/mL
							Hexachloroethane	200 ug/mL
							Hexadecane	200 ug/mL
							Indeno[1,2,3-cd]pyrene	200 ug/mL
							Isophorone	200 ug/mL
							n-Decane	200 ug/mL
							N-Nitrosodi-n-propylamine	200 ug/mL
							N-Nitrosodimethylamine	200 ug/mL
							N-Nitrosodiphenylamine	200 ug/mL
							n-Octadecane	200 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	200 ug/mL
							Nitrobenzene	200 ug/mL
							Pentachlorophenol	400 ug/mL
							Phenanthrene	200 ug/mL
							Phenol	200 ug/mL
							Pyrene	200 ug/mL
							Pyridine	400 ug/mL
					SMcaLs1S10_WK_00004	200 uL	Benzoic acid	400 ug/mL
							Indene	400 ug/mL
					SMcaLs1S11_WK_00004	100 uL	Atrazine	200 ug/mL
							Benzaldehyde	200 ug/mL
							Caprolactam	200 ug/mL
					SMcaLs1S9_WK_00006	100 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
...SMcaLs1S1_WK_00009	02/16/18	02/16/17	n/a, Lot n/a	5000 uL	SMcaLs1S1_ST_00007	5000 uL	1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
....SMcaLs1S1_ST_00007	06/30/18		RESTEK, Lot A0123736		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Diphenylamine	850 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...SMcaLs1S10_WK_00004	01/19/18	01/19/17	na, Lot na	5000 uL	SMcaLs1S10_ST_00004	5000 uL	Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
....SMcaLs1S10_ST_00004	06/30/18		RESTEK, Lot A0123819		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
...SMcaLs1S11_WK_00004	01/19/18	01/19/17	n/a, Lot n/a	5000 uL	SMcaLs1S11_ST_00004	5000 uL	Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
....SMcaLs1S11_ST_00004	06/30/18		RESTEK, Lot A0123718		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
...SMcaLs1S9_WK_00006	01/19/18	01/19/17	Methylene Chloride, Lot na	5000 uL	SMcaLs1S9_ST_00004	5000 uL	3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
....SMcaLs1S9_ST_00004	01/31/18		RESTEK, Lot A0120168		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.SMSURR5uLWKG_00060	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURRWORK_00114	200 uL	2,4,6-Tribromophenol (Surr)	40 ug/mL
							2-Fluorobiphenyl (Surr)	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol (Surr)	40 ug/mL
							Nitrobenzene-d5 (Surr)	40 ug/mL
							Phenol-d5 (Surr)	40 ug/mL
							Terphenyl-d14 (Surr)	40 ug/mL
..SMSURRWORK_00114	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROG_2WK_00027	400 uL	2,4,6-Tribromophenol (Surr)	200 ug/mL
							2-Fluorobiphenyl (Surr)	200 ug/mL
							2-Fluorophenol (Surr)	200 ug/mL
							Nitrobenzene-d5 (Surr)	200 ug/mL
							Phenol-d5 (Surr)	200 ug/mL
							Terphenyl-d14 (Surr)	200 ug/mL
...SMSURROG_2WK_00027	01/20/18	09/19/17	Methylene Chloride, Lot 176171	1000 uL	SMSURROGAT_WK_00008	100 uL	2,4,6-Tribromophenol (Surr)	500 ug/mL
							2-Fluorobiphenyl (Surr)	500 ug/mL
							2-Fluorophenol (Surr)	500 ug/mL
							Nitrobenzene-d5 (Surr)	500 ug/mL
							Phenol-d5 (Surr)	500 ug/mL
							Terphenyl-d14 (Surr)	500 ug/mL
....SMSURROGAT_WK_00008	01/20/18	01/20/17	n/a, Lot n/a	5000 uL	SMSURROGAT_ST_00009	5000 uL	2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL
.....SMSURROGAT_ST_00009	06/30/19		RESTEK, Lot A0103960		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14 (Surr)	5000 ug/mL

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
CRMS-SW-04-110317	500-136788-1	90	84	88	95
	MB 500-409330/6	89	80	86	96
	LCS 500-409330/21	90	80	94	83
CRMS-SW-04-110317 MS	500-136788-1 MS	97	81	87	89
CRMS-SW-04-110317 MSD	500-136788-1 MSD	91	83	92	88

	QC LIMITS
DBFM = Dibromofluoromethane	75-120
DCA = 1,2-Dichloroethane-d4 (Surr)	75-126
TOL = Toluene-d8 (Surr)	75-120
BFB = 4-Bromofluorobenzene (Surr)	72-124

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 18S1110A.d

Lab ID: LCS 500-409330/21 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	57.1	114	70-125	
1,1,2,2-Tetrachloroethane	50.0	39.5	79	67-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.6	115	70-123	
1,1,2-Trichloroethane	50.0	41.9	84	70-122	
1,1-Dichloroethane	50.0	50.7	101	70-125	
1,1-Dichloroethene	50.0	56.0	112	67-122	
1,2,4-Trichlorobenzene	50.0	43.2	86	66-127	
1,2-Dibromo-3-Chloropropane	50.0	33.6	67	56-123	
1,2-Dibromoethane	50.0	40.6	81	70-125	
1,2-Dichlorobenzene	50.0	46.3	93	70-125	
1,2-Dichloroethane	50.0	43.3	87	68-127	
1,2-Dichloropropane	50.0	47.8	96	67-130	
1,3-Dichlorobenzene	50.0	48.0	96	70-125	
1,4-Dichlorobenzene	50.0	48.6	97	70-120	
2-Hexanone	50.0	44.4	89	56-135	
Acetone	50.0	53.8	108	40-143	
Benzene	50.0	53.9	108	70-120	
Bromodichloromethane	50.0	45.2	90	69-120	
Bromoform	50.0	39.5	79	56-132	
Bromomethane	50.0	70.8	142	40-130	*
Carbon disulfide	50.0	56.0	112	66-120	
Carbon tetrachloride	50.0	57.8	116	65-122	
Chlorobenzene	50.0	50.5	101	70-120	
Chloroethane	50.0	68.8	138	45-127	*
Chloroform	50.0	50.7	101	70-120	
Chloromethane	50.0	56.7	113	54-147	
cis-1,2-Dichloroethene	50.0	53.7	107	70-125	
cis-1,3-Dichloropropene	50.0	41.7	83	64-127	
Cyclohexane	50.0	60.3	121	69-142	
Dibromochloromethane	50.0	41.5	83	68-125	
Dichlorodifluoromethane	50.0	50.7	101	40-150	
Ethylbenzene	50.0	52.1	104	70-120	
Isopropylbenzene	50.0	51.5	103	70-126	
Methyl acetate	100	88.5	88	56-150	
Methyl Ethyl Ketone	50.0	44.3	89	53-141	
methyl isobutyl ketone	50.0	46.1	92	56-133	
Methyl tert-butyl ether	50.0	43.0	86	70-120	
Methylcyclohexane	50.0	58.4	117	70-120	
Methylene Chloride	50.0	52.6	105	69-125	
Styrene	50.0	51.7	103	70-120	
Tetrachloroethene	50.0	55.3	111	70-128	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 18S1110A.d

Lab ID: LCS 500-409330/21 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	53.3	107	70-125	
trans-1,2-Dichloroethene	50.0	55.2	110	70-125	
trans-1,3-Dichloropropene	50.0	40.0	80	62-128	
Trichloroethene	50.0	53.3	107	70-125	
Trichlorofluoromethane	50.0	54.3	109	70-126	
Vinyl chloride	50.0	55.9	112	64-126	
Xylenes, Total	100	108	108	70-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 500-136788-a-1 ms.d

Lab ID: 500-136788-1 MS Client ID: CRMS-SW-04-110317 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	<1.0	53.1	106	70-125	
1,1,2,2-Tetrachloroethane	50.0	<1.0	45.6	91	67-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	<1.0	59.0	118	70-123	
1,1,2-Trichloroethane	50.0	<1.0	44.4	89	70-122	
1,1-Dichloroethane	50.0	<1.0	53.1	106	70-125	
1,1-Dichloroethene	50.0	<1.0	55.6	111	67-122	
1,2,4-Trichlorobenzene	50.0	<1.0	43.7	87	66-127	
1,2-Dibromo-3-Chloropropane	50.0	<5.0	34.2	68	56-123	
1,2-Dibromoethane	50.0	<1.0	43.2	86	70-125	
1,2-Dichlorobenzene	50.0	<1.0	47.4	95	70-125	
1,2-Dichloroethane	50.0	<1.0	44.5	89	68-127	
1,2-Dichloropropane	50.0	<1.0	49.5	99	67-130	
1,3-Dichlorobenzene	50.0	<1.0	46.8	94	70-125	
1,4-Dichlorobenzene	50.0	<1.0	48.1	96	70-120	
2-Hexanone	50.0	<5.0	49.0	98	56-135	
Acetone	50.0	6.9	71.6	129	40-143	
Benzene	50.0	<0.50	53.2	106	70-120	
Bromodichloromethane	50.0	<1.0	47.3	95	69-120	
Bromoform	50.0	<1.0	40.5	81	56-132	
Bromomethane	50.0	<2.0	70.0	140	40-130	F1
Carbon disulfide	50.0	<2.0	53.5	107	66-120	
Carbon tetrachloride	50.0	<1.0	52.5	105	65-122	
Chlorobenzene	50.0	<1.0	49.3	99	70-120	
Chloroethane	50.0	<1.0	71.8	144	45-127	F1
Chloroform	50.0	<2.0	50.7	101	70-120	
Chloromethane	50.0	<1.0	62.0	124	54-147	
cis-1,2-Dichloroethene	50.0	<1.0	54.0	108	70-125	
cis-1,3-Dichloropropene	50.0	<1.0	41.2	82	64-127	
Cyclohexane	50.0	<1.0	57.3	115	69-142	
Dibromochloromethane	50.0	<1.0	42.0	84	68-125	
Dichlorodifluoromethane	50.0	<2.0	52.4	105	40-150	
Ethylbenzene	50.0	<0.50	48.7	97	70-120	
Isopropylbenzene	50.0	<1.0	50.3	101	70-126	
Methyl acetate	100	<5.0	93.9	94	56-150	
Methyl Ethyl Ketone	50.0	<5.0	54.6	109	53-141	
methyl isobutyl ketone	50.0	<5.0	47.9	96	56-133	
Methyl tert-butyl ether	50.0	<1.0	48.2	96	70-120	
Methylcyclohexane	50.0	<1.0	54.0	108	70-120	
Methylene Chloride	50.0	<5.0	56.6	113	69-125	
Styrene	50.0	<1.0	49.8	100	70-120	
Tetrachloroethene	50.0	<1.0	49.2	98	70-128	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 500-136788-a-1 ms.d

Lab ID: 500-136788-1 MS Client ID: CRMS-SW-04-110317 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	50.0	<0.50	49.3	99	70-125	
trans-1,2-Dichloroethene	50.0	<1.0	54.6	109	70-125	
trans-1,3-Dichloropropene	50.0	<1.0	39.9	80	62-128	
Trichloroethene	50.0	<0.50	51.4	103	70-125	
Trichlorofluoromethane	50.0	<1.0	55.4	111	70-126	
Vinyl chloride	50.0	<0.50	55.1	110	64-126	
Xylenes, Total	100	<1.0	101	101	70-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 500-136788-a-1 msd.d

Lab ID: 500-136788-1 MSD Client ID: CRMS-SW-04-110317 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	52.9	106	0	20	70-125	
1,1,2,2-Tetrachloroethane	50.0	48.0	96	5	20	67-127	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.0	112	5	20	70-123	
1,1,2-Trichloroethane	50.0	44.0	88	1	20	70-122	
1,1-Dichloroethane	50.0	50.2	100	6	20	70-125	
1,1-Dichloroethene	50.0	52.8	106	5	20	67-122	
1,2,4-Trichlorobenzene	50.0	45.6	91	4	20	66-127	
1,2-Dibromo-3-Chloropropane	50.0	36.4	73	6	20	56-123	
1,2-Dibromoethane	50.0	44.1	88	2	20	70-125	
1,2-Dichlorobenzene	50.0	49.4	99	4	20	70-125	
1,2-Dichloroethane	50.0	46.1	92	4	20	68-127	
1,2-Dichloropropane	50.0	51.4	103	4	20	67-130	
1,3-Dichlorobenzene	50.0	49.2	98	5	20	70-125	
1,4-Dichlorobenzene	50.0	50.1	100	4	20	70-120	
2-Hexanone	50.0	45.2	90	8	20	56-135	
Acetone	50.0	59.9	106	18	20	40-143	
Benzene	50.0	55.4	111	4	20	70-120	
Bromodichloromethane	50.0	48.6	97	3	20	69-120	
Bromoform	50.0	43.3	87	7	20	56-132	
Bromomethane	50.0	55.4	111	23	20	40-130	F2
Carbon disulfide	50.0	52.6	105	2	20	66-120	
Carbon tetrachloride	50.0	55.0	110	5	20	65-122	
Chlorobenzene	50.0	51.8	104	5	20	70-120	
Chloroethane	50.0	55.2	110	26	20	45-127	F2
Chloroform	50.0	50.6	101	0	20	70-120	
Chloromethane	50.0	47.0	94	27	20	54-147	F2
cis-1,2-Dichloroethene	50.0	53.4	107	1	20	70-125	
cis-1,3-Dichloropropene	50.0	43.5	87	5	20	64-127	
Cyclohexane	50.0	58.6	117	2	20	69-142	
Dibromochloromethane	50.0	44.1	88	5	20	68-125	
Dichlorodifluoromethane	50.0	40.6	81	25	20	40-150	F2
Ethylbenzene	50.0	52.2	104	7	20	70-120	
Isopropylbenzene	50.0	53.4	107	6	20	70-126	
Methyl acetate	100	86.7	87	8	20	56-150	
Methyl Ethyl Ketone	50.0	48.0	96	13	20	53-141	
methyl isobutyl ketone	50.0	47.5	95	1	20	56-133	
Methyl tert-butyl ether	50.0	44.5	89	8	20	70-120	
Methylcyclohexane	50.0	56.2	112	4	20	70-120	
Methylene Chloride	50.0	53.0	106	6	20	69-125	
Styrene	50.0	52.4	105	5	20	70-120	
Tetrachloroethene	50.0	51.6	103	5	20	70-128	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 500-136788-a-1 msd.d

Lab ID: 500-136788-1 MSD Client ID: CRMS-SW-04-110317 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	50.0	50.9	102	3	20	70-125	
trans-1,2-Dichloroethene	50.0	51.6	103	6	20	70-125	
trans-1,3-Dichloropropene	50.0	40.6	81	2	20	62-128	
Trichloroethene	50.0	54.1	108	5	20	70-125	
Trichlorofluoromethane	50.0	42.8	86	26	20	70-126	F2
Vinyl chloride	50.0	41.7	83	28	20	64-126	F2
Xylenes, Total	100	108	108	7	20	70-125	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab File ID: 18M1110.d Lab Sample ID: MB 500-409330/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CMS18 Date Analyzed: 11/10/2017 10:41

GC Column: DB624 ID: 0.2(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-409330/21	18S1110A.d	11/10/2017 10:16
CRMS-SW-04-110317	500-136788-1	500-136788-a-1.d	11/10/2017 17:48
CRMS-SW-04-110317 MS	500-136788-1 MS	500-136788-a-1 ms.d	11/10/2017 18:13
CRMS-SW-04-110317 MSD	500-136788-1 MSD	500-136788-a-1 msd.d	11/10/2017 18:38

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab File ID: 18B0705C.d BFB Injection Date: 07/05/2017

Instrument ID: CMS18 BFB Injection Time: 12:47

Analysis Batch No.: 391894

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.1	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	87.6	
175	5.0 - 9.0 % of mass 174	7.3	(8.3) 1
176	95.0 - 101.0 % of mass 174	86.5	(98.7) 1
177	5.0 - 9.0 % of mass 176	6.5	(7.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD01 500-391894/2	18I0705A.d	07/05/2017	13:26
	STD02 500-391894/3	18I0705B.d	07/05/2017	13:52
	STD03 500-391894/4	18I0705C.d	07/05/2017	14:16
	STD04 500-391894/5	18I0705D.d	07/05/2017	14:41
	STD05 500-391894/6	18I0705E.d	07/05/2017	15:06
	STD06 500-391894/7	18I0705F.d	07/05/2017	15:31
	STD07 500-391894/8	18I0705G.d	07/05/2017	15:56
	STD08 500-391894/9	18I0705H.d	07/05/2017	16:21
	STD09 500-391894/10	18I0705I.d	07/05/2017	16:46
	STD10 500-391894/11	18I0705J.d	07/05/2017	17:12
	ICV 500-391894/14	18S0705ICV1.d	07/05/2017	18:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab File ID: 18B1110.d BFB Injection Date: 11/10/2017

Instrument ID: CMS18 BFB Injection Time: 07:44

Analysis Batch No.: 409330

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	25.1	
75	30.0 - 60.0 % of mass 95	49.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.1	
173	Less than 2.0 % of mass 174	0.9	(1.0) 1
174	50.0 - 120.00 % of mass 95	90.5	
175	5.0 - 9.0 % of mass 174	7.3	(8.1) 1
176	95.0 - 101.0 % of mass 174	90.3	(99.8) 1
177	5.0 - 9.0 % of mass 176	6.5	(7.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 500-409330/3	18D1110.d	11/10/2017	08:34
	CCVIS 500-409330/7	18C1110A.d	11/10/2017	09:00
	LCS 500-409330/21	18S1110A.d	11/10/2017	10:16
	MB 500-409330/6	18M1110.d	11/10/2017	10:41
CRMS-SW-04-110317	500-136788-1	500-136788-a-1.d	11/10/2017	17:48
CRMS-SW-04-110317 MS	500-136788-1 MS	500-136788-a-1 ms.d	11/10/2017	18:13
CRMS-SW-04-110317 MSD	500-136788-1 MSD	500-136788-a-1 msd.d	11/10/2017	18:38

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Sample No.: STD07 500-391894/8 Date Analyzed: 07/05/2017 15:56

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18I0705G.d Heated Purge: (Y/N) N

Calibration ID: 24901

		TBAd9		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		180389	3.75	801683	6.14	18119	6.83
UPPER LIMIT		360778	4.25	1603366	6.64	36238	7.33
LOWER LIMIT		90195	3.25	400842	5.64	9060	6.33
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-391894/14		175585	3.75	774889	6.14	18363	6.83
CCV 500-409330/3		100094	3.74	769530	6.14	14050	6.83
CCVIS 500-409330/7		109053	3.74	798854	6.14	15213	6.83
LCS 500-409330/21		107148	3.74	757381	6.14	14358	6.83
MB 500-409330/6		127892	3.74	862567	6.14	17291	6.83
500-136788-1	CRMS-SW-04-110317	142531	3.74	800065	6.14	19356	6.83
500-136788-1 MS	CRMS-SW-04-110317 MS	128630	3.74	709362	6.14	17555	6.83
500-136788-1 MSD	CRMS-SW-04-110317 MSD	122083	3.74	793193	6.14	16471	6.83

TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
DXE = 1,4-Dioxane-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Sample No.: STD07 500-391894/8 Date Analyzed: 07/05/2017 15:56

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18I0705G.d Heated Purge: (Y/N) N

Calibration ID: 24901

		CBNZd5		DCBd4			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		569472	9.41	326186	12.83		
UPPER LIMIT		1138944	9.91	652372	13.33		
LOWER LIMIT		284736	8.91	163093	12.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-391894/14		555755	9.41	311287	12.84		
CCV 500-409330/3		609394	9.41	311352	12.83		
CCVIS 500-409330/7		632751	9.41	348276	12.83		
LCS 500-409330/21		564126	9.41	330919	12.83		
MB 500-409330/6		732445	9.41	344048	12.83		
500-136788-1	CRMS-SW-04-110317	648691	9.41	338678	12.83		
500-136788-1 MS	CRMS-SW-04-110317 MS	578466	9.41	319511	12.83		
500-136788-1 MSD	CRMS-SW-04-110317 MSD	596969	9.41	330817	12.83		

CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Sample No.: CCVIS 500-409330/7 Date Analyzed: 11/10/2017 09:00

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18C1110A.d Heated Purge: (Y/N) N

Calibration ID: 24901

		TBAd9		FB		DXE	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		109053	3.74	798854	6.14	15213	6.83
UPPER LIMIT		218106	4.24	1597708	6.64	30426	7.33
LOWER LIMIT		54527	3.24	399427	5.64	7607	6.33
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 500-409330/21		107148	3.74	757381	6.14	14358	6.83
MB 500-409330/6		127892	3.74	862567	6.14	17291	6.83
500-136788-1	CRMS-SW-04-110317	142531	3.74	800065	6.14	19356	6.83
500-136788-1 MS	CRMS-SW-04-110317 MS	128630	3.74	709362	6.14	17555	6.83
500-136788-1 MSD	CRMS-SW-04-110317 MSD	122083	3.74	793193	6.14	16471	6.83

TBAd9 = TBA-d9 (IS)
TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
DXE = 1,4-Dioxane-d8
Area Limit = 50%-200% of internal standard area
DXE = 1,4-Dioxane-d8
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Sample No.: CCVIS 500-409330/7 Date Analyzed: 11/10/2017 09:00

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm)

Lab File ID (Standard): 18C1110A.d Heated Purge: (Y/N) N

Calibration ID: 24901

		CBNZd5		DCBd4			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		632751	9.41	348276	12.83		
UPPER LIMIT		1265502	9.91	696552	13.33		
LOWER LIMIT		316376	8.91	174138	12.33		
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 500-409330/21		564126	9.41	330919	12.83		
MB 500-409330/6		732445	9.41	344048	12.83		
500-136788-1	CRMS-SW-04-110317	648691	9.41	338678	12.83		
500-136788-1 MS	CRMS-SW-04-110317 MS	578466	9.41	319511	12.83		
500-136788-1 MSD	CRMS-SW-04-110317 MSD	596969	9.41	330817	12.83		

CBNZd5 = Chlorobenzene-d5
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: CRMS-SW-04-110317 | Lab Sample ID: 500-136788-1

Matrix: Water | Lab File ID: 500-136788-a-1.d

Analysis Method: 8260B | Date Collected: 11/03/2017 15:35

Sample wt/vol: 5(mL) | Date Analyzed: 11/10/2017 17:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 409330 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	<1.0		1.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46
79-00-5	1,1,2-Trichloroethane	<1.0		1.0	0.35
75-34-3	1,1-Dichloroethane	<1.0		1.0	0.41
75-35-4	1,1-Dichloroethene	<1.0		1.0	0.39
120-82-1	1,2,4-Trichlorobenzene	<1.0		1.0	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0
106-93-4	1,2-Dibromoethane	<1.0		1.0	0.39
95-50-1	1,2-Dichlorobenzene	<1.0		1.0	0.33
107-06-2	1,2-Dichloroethane	<1.0		1.0	0.39
78-87-5	1,2-Dichloropropane	<1.0		1.0	0.43
541-73-1	1,3-Dichlorobenzene	<1.0		1.0	0.40
106-46-7	1,4-Dichlorobenzene	<1.0		1.0	0.36
591-78-6	2-Hexanone	<5.0		5.0	1.6
67-64-1	Acetone	6.9		5.0	1.7
71-43-2	Benzene	<0.50		0.50	0.15
75-27-4	Bromodichloromethane	<1.0		1.0	0.37
75-25-2	Bromoform	<1.0		1.0	0.48
74-83-9	Bromomethane	<2.0	* F1 F2	2.0	0.80
75-15-0	Carbon disulfide	<2.0		2.0	0.45
56-23-5	Carbon tetrachloride	<1.0		1.0	0.38
108-90-7	Chlorobenzene	<1.0		1.0	0.39
75-00-3	Chloroethane	<1.0	* F1 F2	1.0	0.51
67-66-3	Chloroform	<2.0		2.0	0.37
74-87-3	Chloromethane	<1.0	F2	1.0	0.32
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0	0.42
110-82-7	Cyclohexane	<1.0		1.0	0.49
124-48-1	Dibromochloromethane	<1.0		1.0	0.49
75-71-8	Dichlorodifluoromethane	<2.0	F2	2.0	0.67
100-41-4	Ethylbenzene	<0.50		0.50	0.18
98-82-8	Isopropylbenzene	<1.0		1.0	0.39
79-20-9	Methyl acetate	<5.0		5.0	2.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: CRMS-SW-04-110317 | Lab Sample ID: 500-136788-1

Matrix: Water | Lab File ID: 500-136788-a-1.d

Analysis Method: 8260B | Date Collected: 11/03/2017 15:35

Sample wt/vol: 5(mL) | Date Analyzed: 11/10/2017 17:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 409330 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
78-93-3	Methyl Ethyl Ketone	<5.0		5.0	2.1
108-10-1	methyl isobutyl ketone	<5.0		5.0	2.2
1634-04-4	Methyl tert-butyl ether	<1.0		1.0	0.39
108-87-2	Methylcyclohexane	<1.0		1.0	0.32
75-09-2	Methylene Chloride	<5.0		5.0	1.6
100-42-5	Styrene	<1.0		1.0	0.39
127-18-4	Tetrachloroethene	<1.0		1.0	0.37
108-88-3	Toluene	<0.50		0.50	0.15
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0	0.35
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0	0.36
79-01-6	Trichloroethene	<0.50		0.50	0.16
75-69-4	Trichlorofluoromethane	<1.0	F2	1.0	0.43
75-01-4	Vinyl chloride	<0.50	F2	0.50	0.20
1330-20-7	Xylenes, Total	<1.0		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		75-126
460-00-4	4-Bromofluorobenzene (Surr)	95		72-124
1868-53-7	Dibromofluoromethane	90		75-120
2037-26-5	Toluene-d8 (Surr)	88		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\500-136788-a-1.d
Lims ID: 500-136788-A-1
Client ID: CRMS-SW-04-110317
Sample Type: Client
Inject. Date: 10-Nov-2017 17:48:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136788-a-1
Misc. Info.: 500-0048968-025
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 11-Nov-2017 15:07:57 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: huntjj Date: 11-Nov-2017 15:07:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
14 Acetone	43	3.261	3.256	0.005	81	5033	6.88	
* 22 TBA-d9 (IS)	65	3.737	3.742	-0.005	0	142531	1000.0	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	191499	45.2	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.791	5.797	-0.006	0	174634	42.2	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	800065	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	19356	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.798	-0.001	94	782021	44.0	
* 81 Chlorobenzene-d5	117	9.407	9.408	-0.001	87	648691	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.141	0.005	93	316063	47.3	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	95	338678	50.0	

Reagents:

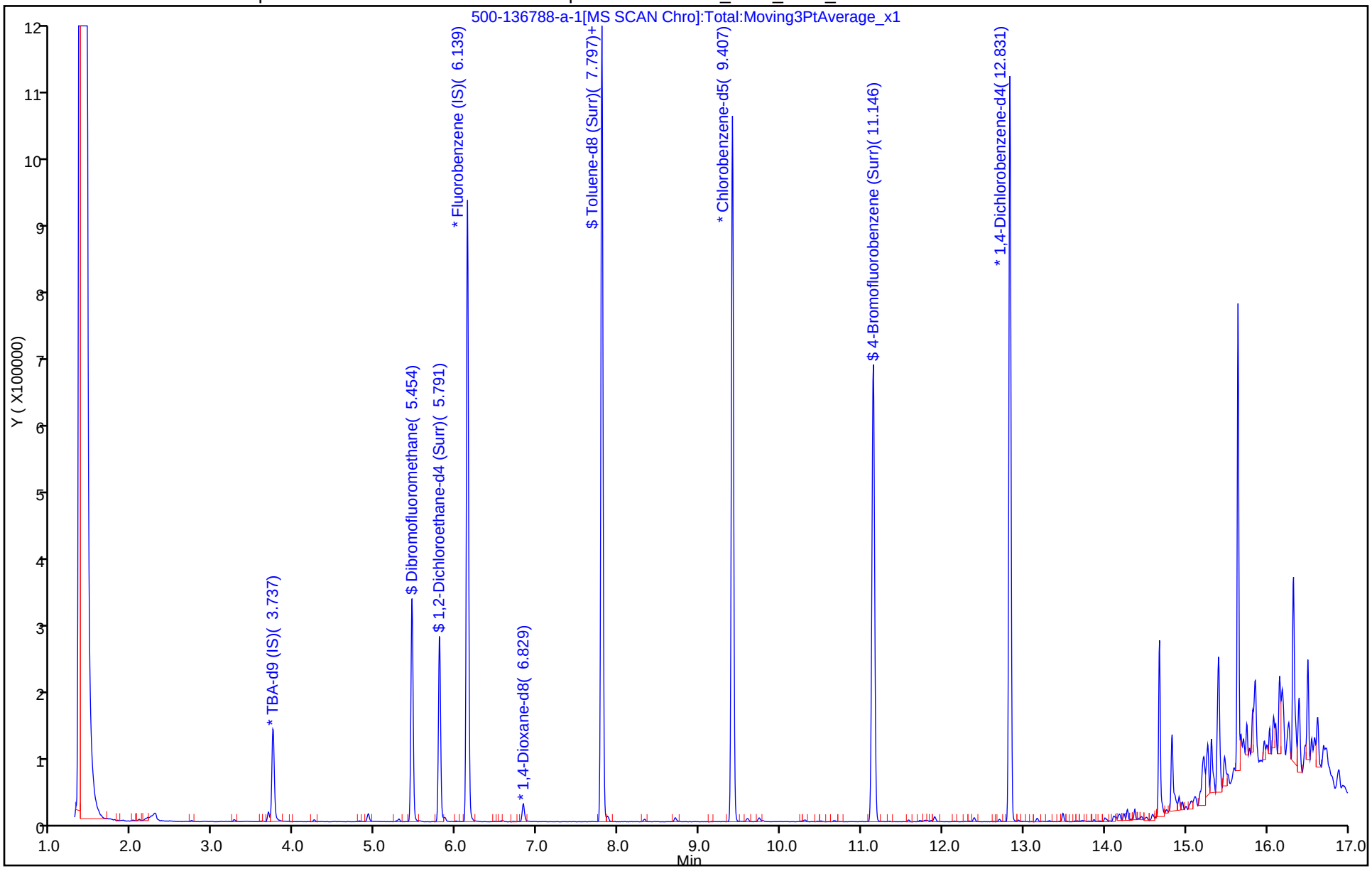
8260LOW IS/SS_00156 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 11-Nov-2017 15:07:57 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\500-136788-a-1.d

Injection Date:	10-Nov-2017 17:48:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	500-136788-A-1	Lab Sample ID:	500-136788-1	Worklist Smp#:	25
Client ID:	CRMS-SW-04-110317				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\500-136788-a-1.d
Lims ID: 500-136788-A-1
Client ID: CRMS-SW-04-110317
Sample Type: Client
Inject. Date: 10-Nov-2017 17:48:30 ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136788-a-1
Misc. Info.: 500-0048968-025
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 11-Nov-2017 15:07:57 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK015

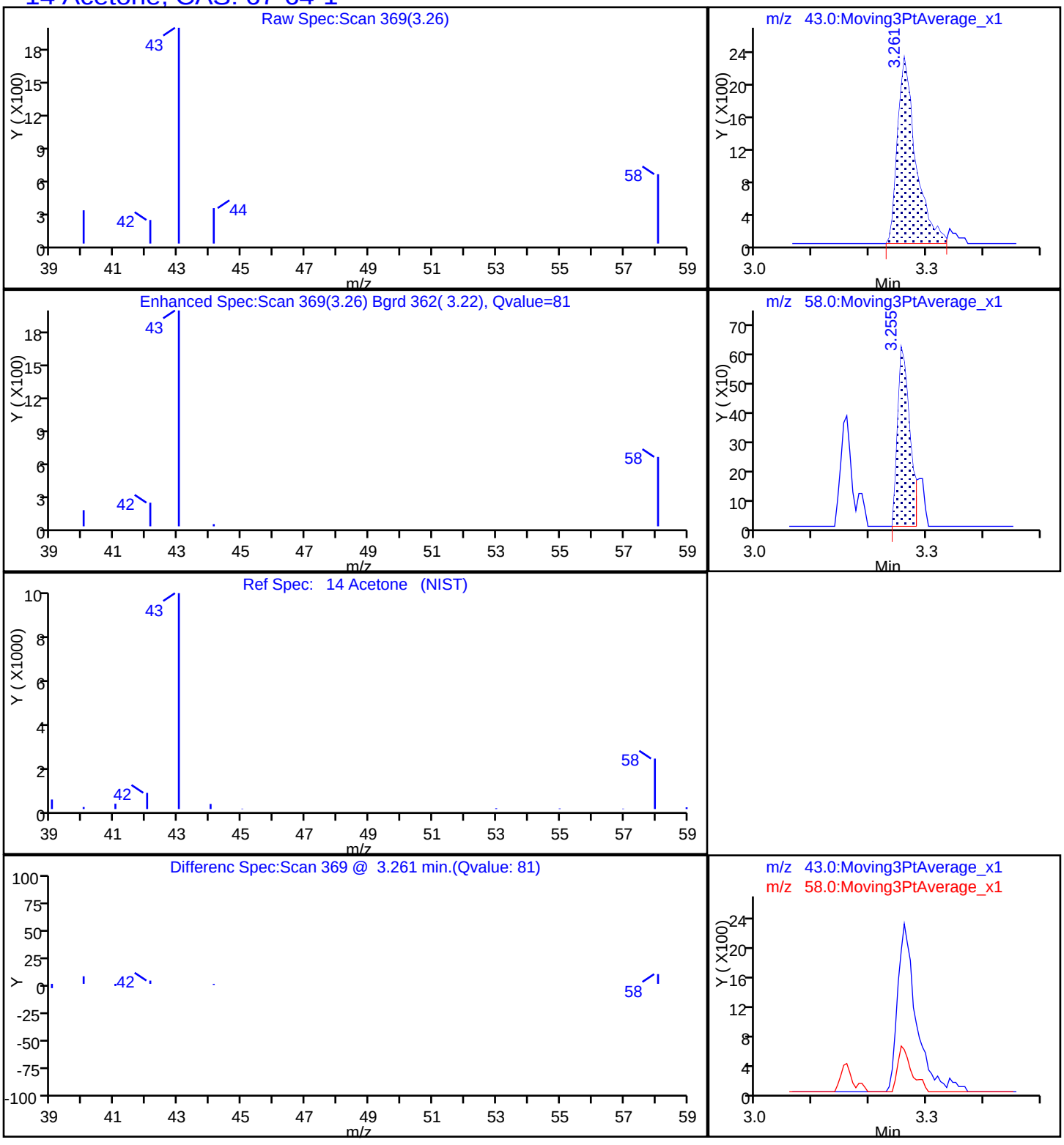
First Level Reviewer: huntjj Date: 11-Nov-2017 15:07:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	45.2	90.45
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	42.2	84.38
$ 70 Toluene-d8 (Surr)	50.0	44.0	88.02
$ 92 4-Bromofluorobenzene (Surr)	50.0	47.3	94.58

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\500-136788-a-1.d		
Injection Date:	10-Nov-2017 17:48:30	Instrument ID:	CMS18
Lims ID:	500-136788-A-1	Lab Sample ID:	500-136788-1
Client ID:	CRMS-SW-04-110317		
Operator ID:	JH	ALS Bottle#:	25 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER
Column:		Detector	MS SCAN

14 Acetone, CAS: 67-64-1



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	0.2563	0.3394	0.2763 0.3309	0.2725 0.3258	0.2605 0.3368	Ave		0.2998			0.0100	12.2		15.0			
Chloromethane	0.3769	0.4202	0.5183 0.4228	0.4479 0.4168	0.3821 0.4398	Ave		0.4281			0.1000	10.3		15.0			
Vinyl chloride	0.6443 0.3447	0.4478 0.3806	0.4231 0.3794	0.4209 0.3772	0.3436 0.3894	Lin2	0.0640	0.3653			0.0100				0.9940		0.9900
Butadiene	0.3715	0.4146	0.5076 0.4187	0.4019 0.4189	0.3750 0.4354	Ave		0.4180			0.0100	10.2		15.0			
Bromomethane	0.1180	0.1199	0.1885 0.1216	0.1622 0.1212	0.1298 0.1320	Lin2	0.0692	0.1212			0.0100				0.9970		0.9900
Chloroethane	0.1749	0.1689	0.2198 0.1741	0.1800 0.1747	0.1802 0.1902	Ave		0.1829			0.0100	8.9		15.0			
Dichlorofluoromethane	0.4823	0.4879	0.6069 0.4844	0.5329 0.4748	0.5092 0.4956	Ave		0.5092			0.0100	8.6		15.0			
Trichlorofluoromethane	0.4318	0.4583	0.5418 0.4475	0.5271 0.4452	0.4317 0.4600	Ave		0.4679			0.0100	9.1		15.0			
Ethyl ether	0.1981	0.2033	0.1950 0.2129	0.2077 0.2103	0.1937 0.2122	Ave		0.2041			0.0100	3.8		15.0			
Acrolein	0.0190	0.0199	0.0198 0.0201	0.0184 0.0201	0.0176 0.0207	Ave		0.0195			0.0010	5.2		15.0			
1,1-Dichloroethene	0.2811	0.2854	0.2795 0.2861	0.3079 0.2913	0.2831 0.2900	Ave		0.2881			0.0100	3.1		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2975	0.3087	0.3166 0.3021	0.3127 0.3007	0.2820 0.3045	Ave		0.3031			0.0100	3.5		15.0			
Acetone	0.0420	0.0428	+++++ 0.0444	+++++ 0.0442	0.0552 0.0457	Ave		0.0457			0.0100	10.6		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Iodomethane	0.5137	0.5304	0.5282 0.5377	0.5743 0.5391	0.4895 0.5375	Ave		0.5313			0.0100	4.5		15.0			
Carbon disulfide	0.8819	0.9435	0.9975 0.9654	0.9479 0.9576	0.8528 0.9591	Ave		0.9382			0.0100	5.0		15.0			
3-Chloropropene	0.1683	0.1745	0.1800 0.1677	0.1803 0.1700	0.1660 0.1632	Ave		0.1713			0.0100	3.7		15.0			
Methyl acetate	0.1148	0.1152	0.1275 0.1234	0.1294 0.1211	0.1098 0.1242	Ave		0.1207			0.0100	5.7		15.0			
Methylene Chloride	0.2756	0.2786	+++++ 0.2767	+++++ 0.2768	0.2792 0.2744	Ave		0.2769			0.0100	0.7		15.0			
tert-Butyl alcohol	1.2676	1.1675	+++++ 1.2540	1.2936 1.2208	1.0837 1.2206	Ave		1.2154			0.0100	5.8		15.0			
Acrylonitrile	0.0591	0.0607	0.0724 0.0632	0.0682 0.0629	0.0552 0.0645	Ave		0.0633			0.0010	8.4		15.0			
trans-1,2-Dichloroethene	0.3031	0.3087	0.3351 0.3038	0.3406 0.3015	0.2951 0.3003	Ave		0.3110			0.0100	5.5		15.0			
Methyl tert-butyl ether	0.5218	0.5246	0.6455 0.5374	0.5494 0.5315	0.4843 0.5384	Ave		0.5416			0.0100	8.5		15.0			
Hexane	0.5291	0.5580	0.6150 0.5602	0.5928 0.5693	0.5108 0.5700	Ave		0.5632			0.0100	5.8		15.0			
1,1-Dichloroethane	0.5784	0.5787	0.6132 0.5921	0.6273 0.5989	0.5447 0.5980	Ave		0.5914			0.1000	4.2		15.0			
Vinyl acetate	0.3416	0.3428	0.3961 0.3572	0.3940 0.3799	0.3243 0.3902	Ave		0.3658			0.0100	7.6		15.0			
2,2-Dichloropropane	0.3427	0.3427	0.3777 0.3327	0.3861 0.3232	0.3438 0.3157	Ave		0.3456			0.0100	7.1		15.0			
cis-1,2-Dichloroethene	0.3196	0.3198	0.3554 0.3221	0.3319 0.3216	0.3023 0.3211	Ave		0.3242			0.0100	4.6		15.0			
Methyl Ethyl Ketone	0.0656	0.0666	+++++ 0.0640	+++++ 0.0649	0.0663 0.0669	Ave		0.0657			0.0100	1.7		15.0			
Bromochloromethane	0.1287	0.1275	0.1387 0.1347	0.1375 0.1326	0.1258 0.1340	Ave		0.1324			0.0100	3.6		15.0			
Tetrahydrofuran	0.0459	0.0425	+++++ 0.0440	0.0737 0.0442	0.0481 0.0454	Lin2	0.1149	0.0426			0.0100				0.9940		0.9900
Chloroform	0.4647	0.4647	0.5717 0.4716	0.5087 0.4801	0.4443 0.4794	Ave		0.4856			0.0100	8.1		15.0			
1,1,1-Trichloroethane	0.4212	0.4351	0.4907 0.4387	0.4556 0.4322	0.4060 0.4354	Ave		0.4394			0.0100	5.7		15.0			
Cyclohexane	0.6788	0.7017	0.7423 0.7013	0.7140 0.7053	0.6763 0.7151	Ave		0.7044			0.0100	3.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,1-Dichloropropene	0.3718	0.3763	0.3969 0.3746	0.4013 0.3796	0.3616 0.3760	Ave		0.3798			0.0100	3.5		15.0			
Carbon tetrachloride	0.3723	0.3948	0.4093 0.4005	0.3837 0.4026	0.3594 0.4022	Ave		0.3906			0.0100	4.4		15.0			
Isobutyl alcohol	0.5452	0.5399	+++++ 0.5804	0.6087 0.5609	0.4962 0.5732	Ave		0.5578			0.0010	6.4		15.0			
Benzene	1.1020 1.0510	1.1090 1.0571	1.1657 1.0765	1.1478 1.0894	1.0160 1.0740	Ave		1.0889			0.0100	4.1		15.0			
1,2-Dichloroethane	0.3228	0.3237	0.3511 0.3362	0.3456 0.3373	0.2954 0.3409	Ave		0.3316			0.0100	5.3		15.0			
Heptane	0.5198	0.5448	0.6117 0.5457	0.5860 0.5655	0.5250 0.5600	Ave		0.5573			0.0100	5.5		15.0			
Trichloroethene	0.3246 0.3035	0.3380 0.3050	0.3393 0.3093	0.3082 0.3136	0.2826 0.3125	Ave		0.3137			0.0100	5.4		15.0			
Methylcyclohexane	0.5798	0.5851	0.6265 0.5773	0.6212 0.5767	0.5645 0.5727	Ave		0.5880			0.0100	3.9		15.0			
1,2-Dichloropropane	0.2730	0.2780	0.3336 0.2831	0.2936 0.2914	0.2640 0.2899	Ave		0.2883			0.0100	7.2		15.0			
Dibromomethane	0.1115	0.1136	0.1308 0.1162	0.1249 0.1176	0.1027 0.1175	Ave		0.1168			0.0100	7.2		15.0			
1,4-Dioxane	1.2278	1.0540	+++++ 1.1060	+++++ 1.1021	1.1710 0.9575	Ave		1.1030			0.0010	8.5		15.0			
Bromodichloromethane	0.2711	0.2819	0.3396 0.2925	0.2705 0.3049	0.2618 0.3052	Ave		0.2909			0.0100	8.7		15.0			
2-Chloroethyl vinyl ether	0.1297	0.1258	0.1590 0.1316	0.1414 0.1343	0.1200 0.1368	Ave		0.1348			0.0100	8.7		15.0			
cis-1,3-Dichloropropene	0.4831	0.4864	0.5389 0.5056	0.4865 0.5178	0.4376 0.5133	Ave		0.4961			0.0100	6.1		15.0			
methyl isobutyl ketone	0.2069	0.2044	+++++ 0.2063	+++++ 0.2068	0.2041 0.2110	Ave		0.2066			0.0100	1.2		15.0			
Toluene	1.0019 0.8786	0.8502 0.8647	1.1068 0.9041	0.9279 0.9146	0.8261 0.9009	Ave		0.9176			0.0100	9.0		15.0			
trans-1,3-Dichloropropene	0.3841	0.3771	0.4853 0.3941	0.4035 0.3975	0.3709 0.3974	Ave		0.4013			0.0100	8.9		15.0			
Ethyl methacrylate	0.2716	0.2543	0.3947 0.2639	0.2953 0.2609	0.2680 0.2612	Lin2	0.1255	0.2556			0.0100				0.9970		0.9900
1,1,2-Trichloroethane	0.2049	0.1972	0.2899 0.2111	0.2231 0.2111	0.2052 0.2119	Ave		0.2193			0.0100	13.4		15.0			
Tetrachloroethene	0.4383	0.4390	0.4991 0.4407	0.4633 0.4517	0.4079 0.4402	Ave		0.4475			0.0100	5.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,3-Dichloropropane	0.3646	0.3527	0.4398 0.3661	0.4053 0.3689	0.3567 0.3613	Ave		0.3769			0.0100	8.0		15.0			
2-Hexanone	0.1399	0.1394	+++++ 0.1347	+++++ 0.1331	0.1395 0.1350	Ave		0.1369			0.0100	2.2		15.0			
Dibromochloromethane	0.2520	0.2659	0.3108 0.2845	0.2706 0.2908	0.2380 0.2922	Ave		0.2756			0.0100	8.6		15.0			
1,2-Dibromoethane	0.2115	0.2080	0.2577 0.2165	0.2505 0.2169	0.2056 0.2169	Ave		0.2229			0.0100	8.9		15.0			
Chlorobenzene	1.0275	1.0319	1.4344 1.0408	1.1391 1.0662	1.0054 1.0331	Ave		1.0973			0.3000	12.9		15.0			
1,1,1,2-Tetrachloroethane	0.3664	0.3669	0.4798 0.3878	0.3734 0.3981	0.3308 0.3897	Ave		0.3866			0.0100	11.1		15.0			
Ethylbenzene	0.6855 0.5923	0.5705 0.5878	0.8053 0.5894	0.6239 0.5994	0.5487 0.5817	Ave		0.6185			0.0100	12.1		15.0			
m&p-Xylene	1.5249 1.4150	1.3655 1.4041	1.9679 1.4145	1.5125 1.4143	1.3553 1.3797	Ave		1.4754			0.0100	12.3		15.0			
o-Xylene	1.5071 1.4515	1.4731 1.4611	2.0033 1.4713	1.5498 1.4727	1.4190 1.4309	Ave		1.5240			0.0100	11.3		15.0			
Styrene	1.1285	1.1116	1.5211 1.1310	1.2539 1.1347	1.0477 1.1052	Ave		1.1792			0.0100	12.7		15.0			
Bromoform	0.1413	0.1480	0.1741 0.1675	0.1455 0.1674	0.1252 0.1731	Ave		0.1553			0.1000	11.5		15.0			
Isopropylbenzene	3.4858	3.4318	4.7871 3.5483	3.8520 3.6788	3.4508 3.5404	Ave		3.7219			0.0100	12.1		15.0			
Bromobenzene	0.8249	0.7952	1.1282 0.8286	0.9218 0.8614	0.8321 0.8369	Ave		0.8786			0.0100	12.2		15.0			
1,1,2,2-Tetrachloroethane	0.4176	0.3950	0.6101 0.4272	0.5029 0.4304	0.4246 0.4286	Lin2	0.1908	0.4118			0.3000				0.9980		0.9900
1,2,3-Trichloropropane	0.4598	0.4474	0.4833 0.4716	0.5363 0.4916	0.4380 0.4934	Ave		0.4777			0.0100	6.5		15.0			
trans-1,4-Dichloro-2-butene	0.1557	0.1572	0.2023 0.1661	0.1751 0.1725	0.1549 0.1686	Ave		0.1690			0.0100	9.2		15.0			
N-Propylbenzene	4.1730	4.0181	5.9603 4.1230	4.5582 4.2110	4.1286 4.0344	Ave		4.4008			0.0100	14.8		15.0			
2-Chlorotoluene	2.3608	2.2755	3.5155 2.3483	2.6681 2.4381	2.3146 2.3571	Lin2	1.1057	2.2871			0.0100				0.9960		0.9900
1,3,5-Trimethylbenzene	3.0006	2.9176	4.0621 2.9766	3.1731 3.0475	2.9517 2.9124	Ave		3.1302			0.0100	12.3		15.0			
4-Chlorotoluene	2.7397	2.6230	3.8726 2.6788	3.2077 2.7557	2.7267 2.6632	Ave		2.9084			0.0100	14.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
tert-Butylbenzene	2.7957	2.7280	3.8556 2.8292	3.0764 2.8711	2.7159 2.7740	Ave		2.9557			0.0100	12.9		15.0			
1,2,4-Trimethylbenzene	3.0510	2.9799	4.0948 3.0662	3.3442 3.1285	3.0123 3.0075	Ave		3.2106			0.0100	11.7		15.0			
sec-Butylbenzene	4.0434	3.9618	5.5245 4.0653	4.3376 4.0750	3.9862 3.8786	Ave		4.2340			0.0100	12.7		15.0			
1,3-Dichlorobenzene	1.6954	1.6204	2.3626 1.7009	1.9612 1.7423	1.6346 1.6838	Ave		1.8001			0.0100	13.9		15.0			
p-Isopropyltoluene	3.5794	3.5003	4.7008 3.6040	3.7244 3.6277	3.4852 3.4269	Ave		3.7061			0.0100	11.1		15.0			
1,4-Dichlorobenzene	1.6607	1.5874	2.3665 1.6551	1.7827 1.6954	1.5578 1.6453	Ave		1.7439			0.0100	14.9		15.0			
1,2-Dichlorobenzene	1.4458	1.3925	2.0122 1.4527	1.6010 1.4736	1.3839 1.4169	Ave		1.5223			0.0100	13.7		15.0			
n-Butylbenzene	3.0890	3.0487	4.1233 3.1541	3.3676 3.1271	2.9788 2.9340	Ave		3.2278			0.0100	11.9		15.0			
1,2-Dibromo-3-Chloropropane	0.0616	0.0604	+++++ 0.0679	0.0605 0.0666	0.0687 0.0672	Ave		0.0647			0.0100	5.7		15.0			
1,2,4-Trichlorobenzene	0.9906	0.9766	1.2998 1.0368	1.0997 1.0207	0.9163 0.9451	Ave		1.0357			0.0100	11.7		15.0			
Hexachlorobutadiene	0.6766	0.6718	0.9377 0.6861	0.7609 0.6653	0.6604 0.6196	Ave		0.7098			0.0100	14.1		15.0			
Naphthalene	1.3507	1.3955	1.7701 1.5273	1.4909 1.4907	1.2240 1.4032	Ave		1.4566			0.0100	10.9		15.0			
1,2,3-Trichlorobenzene	0.7587	0.7559	1.0106 0.8093	0.8590 0.7879	0.6934 0.7184	Ave		0.7991			0.0100	12.5		15.0			
Dibromofluoromethane	0.2532	0.2633	0.2680	0.2726	0.2660	Ave		0.2646			0.0100	2.7		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2506	0.2542	0.2589	0.2646	0.2651	Ave		0.2587			0.0100	2.5		15.0			
Toluene-d8 (Surr)	1.3204	1.3563	1.3963	1.4034	1.3716	Ave		1.3696			0.0100	2.4		15.0			
4-Bromofluorobenzene (Surr)	0.9932	0.9432	0.9876	1.0243	0.9854	Ave		0.9867			0.0100	2.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Dichlorodifluoromethane	FB	Ave	81700	272116	4494 527601	8617 775138	20730 1061995	20.0	50.0	1.00 100	2.00 150	5.00 200
Chloromethane	FB	Ave	120142	336875	8429 674171	14166 991831	30407 1386497	20.0	50.0	1.00 100	2.00 150	5.00 200
Vinyl chloride	FB	Lin2	2527 109889	3516 305131	6881 604942	13310 897571	27348 1227798	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
Butadiene	FB	Ave	118412	332358	8254 667705	12711 996872	29843 1372905	20.0	50.0	1.00 100	2.00 150	5.00 200
Bromomethane	FB	Lin2	37607	96111	3065 193959	5130 288419	10328 416245	20.0	50.0	1.00 100	2.00 150	5.00 200
Chloroethane	FB	Ave	55755	135433	3574 277550	5694 415683	14338 599785	20.0	50.0	1.00 100	2.00 150	5.00 200
Dichlorofluoromethane	FB	Ave	153756	391107	9870 772426	16853 1129805	40525 1562454	20.0	50.0	1.00 100	2.00 150	5.00 200
Trichlorofluoromethane	FB	Ave	137633	367395	8810 713643	16670 1059463	34360 1450310	20.0	50.0	1.00 100	2.00 150	5.00 200
Ethyl ether	FB	Ave	63149	162953	3171 339452	6568 500438	15420 668978	20.0	50.0	1.00 100	2.00 150	5.00 200
Acrolein	FB	Ave	242776	637851	12902 1281902	23332 1915013	56091 2604613	800	2000	40.0 4000	80.0 6000	200 8000
1,1-Dichloroethene	FB	Ave	89606	228803	4546 456181	9738 693260	22528 914221	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	94835	247497	5148 481780	9888 715425	22445 960098	20.0	50.0	1.00 100	2.00 150	5.00 200
Acetone	FB	Ave	13388	34308	+++++ 70846	+++++ 105095	4395 144039	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Iodomethane	FB	Ave	163760	425176	8590 857408	18163 1282816	38958 1694761	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Carbon disulfide	FB	Ave	281113	756356	16222 1539407	29977 2278552	67873 3024082	20.0	50.0	1.00 100	2.00 150	5.00 200
3-Chloropropene	FB	Ave	53644	139927	2927 267341	5703 404491	13211 514612	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl acetate	FB	Ave	182964	461931	10371 983993	20462 1441283	43681 1958229	100	250	5.00 500	10.0 750	25.0 1000
Methylene Chloride	FB	Ave	87843	223357	+++++ 441233	+++++ 658706	22221 865146	20.0	50.0	+++++ 100	+++++ 150	5.00 200
tert-Butyl alcohol	TBAd9	Ave	44126	105305	+++++ 221896	4975 330674	9504 439795	200	500	+++++ 1000	20.0 1500	50.0 2000
Acrylonitrile	FB	Ave	188336	486981	11780 1008539	21559 1497067	43933 2032201	200	500	10.0 1000	20.0 1500	50.0 2000
trans-1,2-Dichloroethene	FB	Ave	96622	247445	5450 484469	10772 717405	23487 946972	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl tert-butyl ether	FB	Ave	166346	420529	10497 856864	17374 1264809	38541 1697581	20.0	50.0	1.00 100	2.00 150	5.00 200
Hexane	FB	Ave	168669	447347	10001 893243	18748 1354731	40656 1797062	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1-Dichloroethane	FB	Ave	184372	463937	9972 944075	19840 1425060	43354 1885420	20.0	50.0	1.00 100	2.00 150	5.00 200
Vinyl acetate	FB	Ave	108899	274781	6442 569580	12460 904001	25808 1230286	20.0	50.0	1.00 100	2.00 150	5.00 200
2,2-Dichloropropane	FB	Ave	109238	274726	6142 530587	12209 768970	27362 995454	20.0	50.0	1.00 100	2.00 150	5.00 200
cis-1,2-Dichloroethene	FB	Ave	101874	256370	5779 513610	10495 765209	24059 1012515	20.0	50.0	1.00 100	2.00 150	5.00 200
Methyl Ethyl Ketone	FB	Ave	20908	53426	+++++ 102095	+++++ 154325	5274 211058	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Bromochloromethane	FB	Ave	41021	102218	2256 214726	4347 315622	10011 422477	20.0	50.0	1.00 100	2.00 150	5.00 200
Tetrahydrofuran	FB	Lin2	29255	68078	+++++ 140204	4660 210363	7654 286010	40.0	100	+++++ 200	4.00 300	10.0 400
Chloroform	FB	Ave	148141	372573	9297 752011	16087 1142376	35358 1511411	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,1-Trichloroethane	FB	Ave	134251	348782	7980 699595	14409 1028320	32311 1372930	20.0	50.0	1.00 100	2.00 150	5.00 200
Cyclohexane	FB	Ave	216395	562502	12072 1118318	22582 1678279	53827 2254682	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1-Dichloropropene	FB	Ave	118509	301684	6454 597260	12691 903310	28779 1185625	20.0	50.0	1.00 100	2.00 150	5.00 200
Carbon tetrachloride	FB	Ave	118670	316472	6656 638700	12134 957861	28600 1268130	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isobutyl alcohol	TBAd9	Ave	47449	121739	+++++ 256767	5852 379845	10878 516284	500	1250	+++++ 2500	50.0 3750	125 5000
Benzene	FB	Ave	4322 335016	8707 847471	18957 1716482	36301 2592258	80864 3386318	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
1,2-Dichloroethane	FB	Ave	102909	259491	5710 536135	10930 802623	23507 1074681	20.0	50.0	1.00 100	2.00 150	5.00 200
Heptane	FB	Ave	165708	436764	9948 870212	18534 1345711	41785 1765681	20.0	50.0	1.00 100	2.00 150	5.00 200
Trichloroethene	FB	Ave	1273 96750	2654 244484	5518 493280	9747 746200	22491 985429	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
Methylcyclohexane	FB	Ave	184812	469084	10188 920502	19647 1372161	44931 1805649	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2-Dichloropropane	FB	Ave	87032	222854	5425 451436	9284 693362	21014 913964	20.0	50.0	1.00 100	2.00 150	5.00 200
Dibromomethane	FB	Ave	35538	91089	2127 185247	3949 279814	8174 370367	20.0	50.0	1.00 100	2.00 150	5.00 200
1,4-Dioxane	DXE	Ave	8563	19097	+++++ 41154	+++++ 62699	2043 79073	400	1000	+++++ 2000	+++++ 3000	100 4000
Bromodichloromethane	FB	Ave	86406	226010	5522 466445	8554 725445	20839 962188	20.0	50.0	1.00 100	2.00 150	5.00 200
2-Chloroethyl vinyl ether	CBNZ d5	Ave	29172	71633	1900 146114	3221 224705	6935 306734	20.0	50.0	1.00 100	2.00 150	5.00 200
cis-1,3-Dichloropropene	CBNZ d5	Ave	108674	276998	6440 561271	11080 866161	25285 1150948	20.0	50.0	1.00 100	2.00 150	5.00 200
methyl isobutyl ketone	CBNZ d5	Ave	46539	116399	+++++ 229053	+++++ 345903	11794 473140	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Toluene	CBNZ d5	Ave	2923 197663	4902 492442	13227 1003686	21132 1530063	47727 2020225	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
trans-1,3-Dichloropropene	CBNZ d5	Ave	86409	214741	5800 437551	9188 665032	21432 891201	20.0	50.0	1.00 100	2.00 150	5.00 200
Ethyl methacrylate	CBNZ d5	Lin2	61111	144793	4717 292943	6724 436487	15482 585681	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,2-Trichloroethane	CBNZ d5	Ave	46098	112325	3464 234406	5080 353136	11856 475288	20.0	50.0	1.00 100	2.00 150	5.00 200
Tetrachloroethene	CBNZ d5	Ave	98599	250004	5964 489260	10551 755618	23569 987214	20.0	50.0	1.00 100	2.00 150	5.00 200
1,3-Dichloropropane	CBNZ d5	Ave	82025	200846	5256 406391	9229 617105	20609 810185	20.0	50.0	1.00 100	2.00 150	5.00 200
2-Hexanone	CBNZ d5	Ave	31482	79377	+++++ 149581	+++++ 222613	8059 302771	20.0	50.0	+++++ 100	+++++ 150	5.00 200
Dibromochloromethane	CBNZ d5	Ave	56685	151435	3714 315790	6162 486428	13753 655275	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,2-Dibromoethane	CBNZ d5	Ave	47581	118442	3079 240318	5705 362820	11878 486421	20.0	50.0	1.00 100	2.00 150	5.00 200
Chlorobenzene	CBNZ d5	Ave	231158	587653	17142 1155483	25942 1783602	58091 2316648	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	82427	208912	5734 430534	8504 665912	19110 873975	20.0	50.0	1.00 100	2.00 150	5.00 200
Ethylbenzene	CBNZ d5	Ave	2000 133251	3289 334739	9624 654389	14208 1002770	31705 1304396	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
m&p-Xylene	CBNZ d5	Ave	4449 318336	7873 799570	23517 1570381	34445 2365982	78305 3093823	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
o-Xylene	CBNZ d5	Ave	4397 326547	8493 832050	23940 1633419	35294 2463745	81986 3208794	0.250 20.0	0.500 50.0	1.00 100	2.00 150	5.00 200
Styrene	CBNZ d5	Ave	253871	633051	18178 1255558	28555 1898183	60534 2478330	20.0	50.0	1.00 100	2.00 150	5.00 200
Bromoform	CBNZ d5	Ave	31783	84269	2081 185997	3313 279997	7231 388152	20.0	50.0	1.00 100	2.00 150	5.00 200
Isopropylbenzene	DCBd 4	Ave	445645	1119416	31832 2208656	49255 3320949	109768 4287635	20.0	50.0	1.00 100	2.00 150	5.00 200
Bromobenzene	DCBd 4	Ave	105458	259390	7502 515768	11787 777571	26468 1013502	20.0	50.0	1.00 100	2.00 150	5.00 200
1,1,2,2-Tetrachloroethane	DCBd 4	Lin2	53394	128840	4057 265906	6431 388572	13507 519097	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2,3-Trichloropropane	DCBd 4	Ave	58789	145921	3214 293535	6858 443741	13934 597569	20.0	50.0	1.00 100	2.00 150	5.00 200
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	19904	51269	1345 103376	2239 155723	4927 204185	20.0	50.0	1.00 100	2.00 150	5.00 200
N-Propylbenzene	DCBd 4	Ave	533504	1310644	39633 2566380	58286 3801360	131329 4885915	20.0	50.0	1.00 100	2.00 150	5.00 200
2-Chlorotoluene	DCBd 4	Lin2	301823	742252	23376 1461715	34117 2200917	73626 2854571	20.0	50.0	1.00 100	2.00 150	5.00 200
1,3,5-Trimethylbenzene	DCBd 4	Ave	383613	951676	27011 1852778	40574 2751022	93893 3527054	20.0	50.0	1.00 100	2.00 150	5.00 200
4-Chlorotoluene	DCBd 4	Ave	350259	855588	25751 1667450	41017 2487588	86734 3225245	20.0	50.0	1.00 100	2.00 150	5.00 200
tert-Butylbenzene	DCBd 4	Ave	357420	889840	25638 1761077	39338 2591771	86392 3359443	20.0	50.0	1.00 100	2.00 150	5.00 200
1,2,4-Trimethylbenzene	DCBd 4	Ave	390056	972016	27228 1908558	42762 2824184	95821 3642256	20.0	50.0	1.00 100	2.00 150	5.00 200
sec-Butylbenzene	DCBd 4	Ave	516926	1292282	36735 2530460	55465 3678597	126798 4697182	20.0	50.0	1.00 100	2.00 150	5.00 200
1,3-Dichlorobenzene	DCBd 4	Ave	216750	528543	15710 1058714	25078 1572809	51997 2039179	20.0	50.0	1.00 100	2.00 150	5.00 200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
p-Isopropyltoluene	DCBd 4	Ave	457613	1141738	2243353	3274818	4150107	20.0	50.0	100	150	200
1,4-Dichlorobenzene	DCBd 4	Ave	212318	517781	1030219	1530441	1992490	20.0	50.0	100	150	200
1,2-Dichlorobenzene	DCBd 4	Ave	184844	454217	904238	1330213	1715886	20.0	50.0	100	150	200
n-Butylbenzene	DCBd 4	Ave	394914	994436	1963275	2822903	3553266	20.0	50.0	100	150	200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	7872	19714	+++++ 42234	774 60110	2184 81341	20.0	50.0	+++++ 100	150	200
1,2,4-Trichlorobenzene	DCBd 4	Ave	126644	318543	645373	921392	1144526	20.0	50.0	100	150	200
Hexachlorobutadiene	DCBd 4	Ave	86502	219148	427080	600596	750421	20.0	50.0	100	150	200
Naphthalene	DCBd 4	Ave	172680	455189	950708	1345710	1699293	20.0	50.0	100	150	200
1,2,3-Trichlorobenzene	DCBd 4	Ave	96998	246565	503726	711241	869993	20.0	50.0	100	150	200
Dibromofluoromethane	FB	Ave	80718	211073	427416	648559	838574	20.0	50.0	100	150	200
1,2-Dichloroethane-d4 (Surr)	FB	Ave	79875	203800	412779	629613	835861	20.0	50.0	100	150	200
Toluene-d8 (Surr)	CBNZ d5	Ave	297039	772381	1550106	2347763	3075705	20.0	50.0	100	150	200
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	126981	307658	614724	924613	1193401	20.0	50.0	100	150	200

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 500-391894/2	18I0705A.d
Level 2	STD02 500-391894/3	18I0705B.d
Level 3	STD03 500-391894/4	18I0705C.d
Level 4	STD04 500-391894/5	18I0705D.d
Level 5	STD05 500-391894/6	18I0705E.d
Level 6	STD06 500-391894/7	18I0705F.d
Level 7	STD07 500-391894/8	18I0705G.d
Level 8	STD08 500-391894/9	18I0705H.d
Level 9	STD09 500-391894/10	18I0705I.d
Level 10	STD10 500-391894/11	18I0705J.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Dichlorodifluoromethane	13.2	10.4	-7.8 8.7	-9.1 12.3	-13.1	-14.5	30	30	50 30	30 30	30	30
Chloromethane	-1.8	-1.2	21.1 -2.6	4.6 2.7	-10.8	-12.0	30	30	50 30	30 30	30	30
Vinyl chloride	6.3 3.9	-12.4 3.7	-1.7 3.2	6.5 6.5	-9.4	-6.5	50 30	30 30	30 30	30 30	30	30
Butadiene	-0.8	0.2	21.4 0.2	-3.8 4.2	-10.3	-11.1	30	30	50 30	30 30	30	30
Bromomethane	-2.2	-0.2	-1.5 -0.3	5.3 8.7	-4.3	-5.5	30	30	50 30	30 30	30	30
Chloroethane	-7.6	-4.8	20.2 -4.5	-1.5 4.0	-1.5	-4.3	30	30	50 30	30 30	30	30
Dichlorofluoromethane	-4.2	-4.9	19.2 -6.8	4.6 -2.7	0.0	-5.3	30	30	50 30	30 30	30	30
Trichlorofluoromethane	-2.1	-4.4	15.8 -4.8	12.6 -1.7	-7.7	-7.7	30	30	50 30	30 30	30	30
Ethyl ether	-0.4	4.3	-4.5 3.0	1.7 3.9	-5.1	-3.0	30	30	50 30	30 30	30	30
Acrolein	2.2	3.3	1.9 3.4	-5.2 6.1	-9.5	-2.2	30	30	50 30	30 30	30	30
1,1-Dichloroethene	-0.9	-0.7	-3.0 1.1	6.9 0.7	-1.7	-2.4	30	30	50 30	30 30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	-0.3	4.4 -0.8	3.2 0.5	-7.0	-1.8	30	30	50 30	30 30	30	30
Acetone	-6.4	-2.8	+++++ -3.4	+++++ -0.1	20.8	-8.1	30	30	30	30	50	30
Iodomethane	-0.2	1.2	-0.6 1.5	8.1 1.2	-7.9	-3.3	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Carbon disulfide	0.6	2.9	6.3 2.1	1.0 2.2	-9.1	-6.0	30	30	50 30	30 30	30	30
3-Chloropropene	1.9	-2.1	5.1 -0.7	5.3 -4.7	-3.1	-1.7	30	30	50 30	30 30	30	30
Methyl acetate	-4.5	2.3	5.7 0.4	7.2 2.9	-9.1	-4.9	30	30	50 30	30 30	30	30
Methylene Chloride	0.6	-0.1	+++++ 0.0	+++++ -0.9	0.8	-0.5	30	30	30	30	50	30
tert-Butyl alcohol	-3.9	3.2	+++++ 0.4	6.4 0.4	-10.8	4.3	30	30	30	50 30	30	30
Acrylonitrile	-4.0	-0.1	14.5 -0.6	7.7 1.9	-12.8	-6.6	30	30	50 30	30 30	30	30
trans-1,2-Dichloroethene	-0.8	-2.3	7.7 -3.1	9.5 -3.4	-5.1	-2.5	30	30	50 30	30 30	30	30
Methyl tert-butyl ether	-3.1	-0.8	19.2 -1.9	1.4 -0.6	-10.6	-3.7	30	30	50 30	30 30	30	30
Hexane	-0.9	-0.5	9.2 1.1	5.3 1.2	-9.3	-6.0	30	30	50 30	30 30	30	30
1,1-Dichloroethane	-2.1	0.1	3.7 1.3	6.1 1.1	-7.9	-2.2	30	30	50 30	30 30	30	30
Vinyl acetate	-6.3	-2.3	8.3 3.9	7.7 6.7	-11.3	-6.6	30	30	50 30	30 30	30	30
2,2-Dichloropropane	-0.8	-3.7	9.3 -6.5	11.7 -8.6	-0.5	-0.8	30	30	50 30	30 30	30	30
cis-1,2-Dichloroethene	-1.4	-0.7	9.6 -0.8	2.4 -0.9	-6.8	-1.4	30	30	50 30	30 30	30	30
Methyl Ethyl Ketone	1.4	-2.6	+++++ -1.3	+++++ 1.9	0.8	-0.2	30	30	30	30	50	30
Bromochloromethane	-3.7	1.7	4.8 0.2	3.8 1.2	-5.0	-2.8	30	30	50 30	30 30	30	30
Tetrahydrofuran	-3.0	1.9	+++++ 2.9	5.5 5.8	-14.1	1.0	30	30	30	50 30	30	30
Chloroform	-4.3	-2.9	17.7 -1.1	4.7 -1.3	-8.5	-4.3	30	30	50 30	30 30	30	30
1,1,1-Trichloroethane	-1.0	-0.1	11.7 -1.6	3.7 -0.9	-7.6	-4.1	30	30	50 30	30 30	30	30
Cyclohexane	-0.4	-0.4	5.4 0.1	1.4 1.5	-4.0	-3.6	30	30	50 30	30 30	30	30
1,1-Dichloropropene	-0.9	-1.4	4.5 0.0	5.7 -1.0	-4.8	-2.1	30	30	50 30	30 30	30	30
Carbon tetrachloride	1.1	2.6	4.8 3.1	-1.8 3.0	-8.0	-4.7	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
Isobutyl alcohol	-3.2	4.1	+++++ 0.6	9.1 2.8	-11.0	-2.3	30	30	30	50 30	30	30
Benzene	1.2 -2.9	1.8 -1.1	7.1 0.1	5.4 -1.4	-6.7	-3.5	50 30	30 30	30 30	30 30	30	30
1,2-Dichloroethane	-2.4	1.4	5.9 1.7	4.2 2.8	-10.9	-2.7	30	30	50 30	30 30	30	30
Heptane	-2.2	-2.1	9.8 1.5	5.2 0.5	-5.8	-6.7	30	30	50 30	30 30	30	30
Trichloroethene	3.5 -2.8	7.8 -1.4	8.2 0.0	-1.7 -0.4	-9.9	-3.2	50 30	30 30	30 30	30 30	30	30
Methylcyclohexane	-0.5	-1.8	6.6 -1.9	5.7 -2.6	-4.0	-1.4	30	30	50 30	30 30	30	30
1,2-Dichloropropane	-3.6	-1.8	15.7 1.1	1.8 0.5	-8.4	-5.3	30	30	50 30	30 30	30	30
Dibromomethane	-2.8	-0.6	11.9 0.6	6.9 0.5	-12.1	-4.6	30	30	50 30	30 30	30	30
1,4-Dioxane	-4.4	0.3	+++++ -0.1	+++++ -13.2	6.2	11.3	30	30	30	30	50	30
Bromodichloromethane	-3.1	0.5	16.7 4.8	-7.0 4.9	-10.0	-6.8	30	30	50 30	30 30	30	30
2-Chloroethyl vinyl ether	-6.7	-2.4	17.9 -0.4	4.9 1.4	-11.0	-3.8	30	30	50 30	30 30	30	30
cis-1,3-Dichloropropene	-2.0	1.9	8.6 4.4	-1.9 3.4	-11.8	-2.6	30	30	50 30	30 30	30	30
methyl isobutyl ketone	-1.1	-0.1	+++++ 0.1	+++++ 2.1	-1.2	0.1	30	30	30	30	50	30
Toluene	9.2 -5.8	-7.3 -1.5	20.6 -0.3	1.1 -1.8	-10.0	-4.2	50 30	30 30	30 30	30 30	30	30
trans-1,3-Dichloropropene	-6.0	-1.8	21.0 -0.9	0.5 -1.0	-7.6	-4.3	30	30	50 30	30 30	30	30
Ethyl methacrylate	-1.5	2.7	5.3 1.7	-9.0 1.9	-5.0	3.8	30	30	50 30	30 30	30	30
1,1,2-Trichloroethane	-10.1	-3.7	32.2 -3.7	1.7 -3.4	-6.4	-6.6	30	30	50 30	30 30	30	30
Tetrachloroethene	-1.9	-1.5	11.5 0.9	3.5 -1.6	-8.8	-2.1	30	30	50 30	30 30	30	30
1,3-Dichloropropane	-6.4	-2.9	16.7 -2.1	7.5 -4.1	-5.4	-3.3	30	30	50 30	30 30	30	30
2-Hexanone	1.8	-1.6	+++++ -2.8	+++++ -1.4	1.9	2.2	30	30	30	30	50	30
Dibromochloromethane	-3.5	3.2	12.8 5.5	-1.8 6.0	-13.6	-8.6	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
1,2-Dibromoethane	-6.7	-2.9	15.6 -2.7	12.4 -2.7	-7.8	-5.1	30	30	50 30	30 30	30	30
Chlorobenzene	-6.0	-5.1	30.7 -2.8	3.8 -5.9	-8.4	-6.4	30	30	50 30	30 30	30	30
1,1,1,2-Tetrachloroethane	-5.1	0.3	24.1 3.0	-3.4 0.8	-14.4	-5.2	30	30	50 30	30 30	30	30
Ethylbenzene	10.8 -5.0	-7.8 -4.7	30.2 * -3.1	0.9 -5.9	-11.3	-4.2	50 30	30 30	30 30	30 30	30	30
m&p-Xylene	3.4 -4.8	-7.4 -4.1	33.4 * -4.1	2.5 -6.5	-8.1	-4.1	50 30	30 30	30 30	30 30	30	30
o-Xylene	-1.1 -4.1	-3.3 -3.5	31.5 * -3.4	1.7 -6.1	-6.9	-4.8	50 30	30 30	30 30	30 30	30	30
Styrene	-5.7	-4.1	29.0 -3.8	6.3 -6.3	-11.2	-4.3	30	30	50 30	30 30	30	30
Bromoform	-4.7	7.9	12.2 7.8	-6.3 11.5	-19.4	-9.0	30	30	50 30	30 30	30	30
Isopropylbenzene	-7.8	-4.7	28.6 -1.2	3.5 -4.9	-7.3	-6.3	30	30	50 30	30 30	30	30
Bromobenzene	-9.5	-5.7	28.4 -2.0	4.9 -4.8	-5.3	-6.1	30	30	50 30	30 30	30	30
1,1,2,2-Tetrachloroethane	-5.0	3.3	1.8 4.2	-1.0 3.8	-6.2	-0.9	30	30	50 30	30 30	30	30
1,2,3-Trichloropropane	-6.3	-1.3	1.2 2.9	12.3 3.3	-8.3	-3.7	30	30	50 30	30 30	30	30
trans-1,4-Dichloro-2-butene	-7.0	-1.8	19.7 2.1	3.6 -0.3	-8.4	-7.9	30	30	50 30	30 30	30	30
N-Propylbenzene	-8.7	-6.3	35.4 -4.3	3.6 -8.3	-6.2	-5.2	30	30	50 30	30 30	30	30
2-Chlorotoluene	-1.5	2.2	5.4 6.3	-7.5 2.8	-8.5	0.8	30	30	50 30	30 30	30	30
1,3,5-Trimethylbenzene	-6.8	-4.9	29.8 -2.6	1.4 -7.0	-5.7	-4.1	30	30	50 30	30 30	30	30
4-Chlorotoluene	-9.8	-7.9	33.2 -5.3	10.3 -8.4	-6.2	-5.8	30	30	50 30	30 30	30	30
tert-Butylbenzene	-7.7	-4.3	30.4 -2.9	4.1 -6.1	-8.1	-5.4	30	30	50 30	30 30	30	30
1,2,4-Trimethylbenzene	-7.2	-4.5	27.5 -2.6	4.2 -6.3	-6.2	-5.0	30	30	50 30	30 30	30	30
sec-Butylbenzene	-6.4	-4.0	30.5 -3.8	2.4 -8.4	-5.9	-4.5	30	30	50 30	30 30	30	30
1,3-Dichlorobenzene	-10.0	-5.5	31.2 -3.2	8.9 -6.5	-9.2	-5.8	30	30	50 30	30 30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 391894

SDG No.:

Instrument ID: CMS18 GC Column: DB624 ID: 0.2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2017 13:26 Calibration End Date: 07/05/2017 17:12 Calibration ID: 24901

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5	LVL 6
p-Isopropyltoluene	-5.6	-2.8	26.8 -2.1	0.5 -7.5	-6.0	-3.4	30	30	50 30	30 30	30	30
1,4-Dichlorobenzene	-9.0	-5.1	35.7 -2.8	2.2 -5.7	-10.7	-4.8	30	30	50 30	30 30	30	30
1,2-Dichlorobenzene	-8.5	-4.6	32.2 -3.2	5.2 -6.9	-9.1	-5.0	30	30	50 30	30 30	30	30
n-Butylbenzene	-5.6	-2.3	27.7 -3.1	4.3 -9.1	-7.7	-4.3	30	30	50 30	30 30	30	30
1,2-Dibromo-3-Chloropropane	-6.6	4.9	+++++ 2.9	-6.4 3.8	6.1	-4.8	30	30	30	50 30	30	30
1,2,4-Trichlorobenzene	-5.7	0.1	25.5 -1.4	6.2 -8.8	-11.5	-4.4	30	30	50 30	30 30	30	30
Hexachlorobutadiene	-5.3	-3.3	32.1 -6.3	7.2 -12.7	-7.0	-4.7	30	30	50 30	30 30	30	30
Naphthalene	-4.2	4.9	21.5 2.3	2.4 -3.7	-16.0	-7.3	30	30	50 30	30 30	30	30
1,2,3-Trichlorobenzene	-5.4	1.3	26.5 -1.4	7.5 -10.1	-13.2	-5.1	30	30	50 30	30 30	30	30
Dibromofluoromethane	-0.5	1.3	3.0	0.5		-4.3	30	30	30	30		50
1,2-Dichloroethane-d4 (Surr)	-1.7	0.1	2.3	2.5		-3.1	30	30	30	30		50
Toluene-d8 (Surr)	-1.0	1.9	2.5	0.1		-3.6	30	30	30	30		50
4-Bromofluorobenzene (Surr)	-4.4	0.1	3.8	-0.1		0.7	30	30	30	30		50

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705A.d
Lims ID: STD01
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Jul-2017 13:26:30 ALS Bottle#: 3 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD01
Misc. Info.: 500-0046351-002
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:03:51 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:03:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Vinyl chloride	62	1.891	1.891	0.000	25	2527	0.2500	0.2658	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175728	1000.0	1000.0	
49 Benzene	78	5.855	5.861	-0.006	58	4322	0.2500	0.2530	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	784359	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	25	1273	0.2500	0.2587	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18293	1000.0	1000.0	
71 Toluene	92	7.878	7.872	0.006	46	2923	0.2500	0.2730	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	583516	50.0	50.0	
85 Ethylbenzene	106	9.590	9.584	0.006	46	2000	0.2500	0.2771	
86 m-Xylene & p-Xylene	91	9.745	9.739	0.006	54	4449	0.2500	0.2584	
87 o-Xylene	91	10.296	10.296	0.000	45	4397	0.2500	0.2472	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	95	326102	50.0	50.0	
S 123 Xylenes, Total	100				0			0.5056	

Reagents:

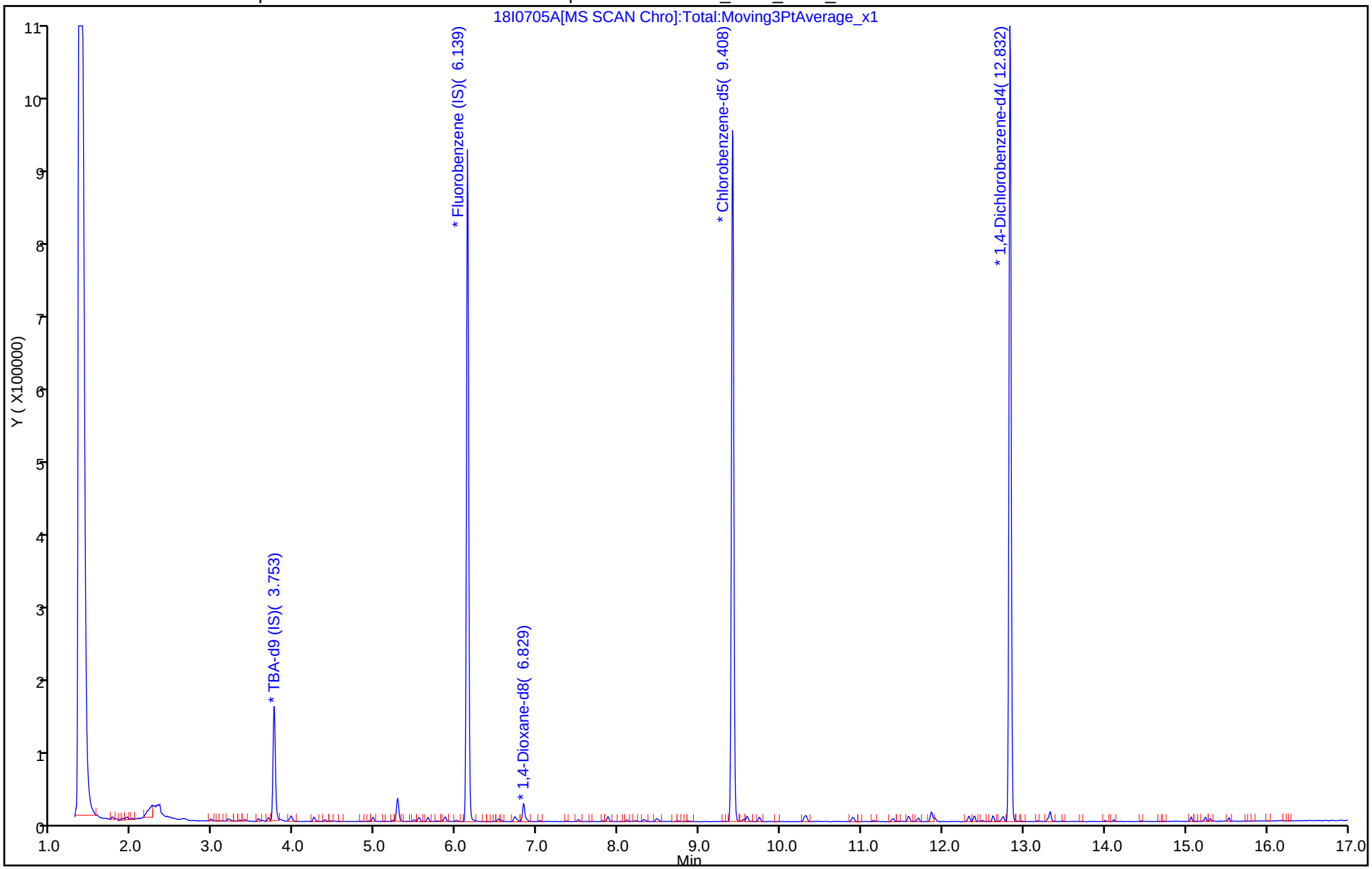
LEVEL1 8260_00001 Amount Added: 2.50 Units: uL
8260 LOWIS1_00108 Amount Added: 5.00 Units: uL

Report Date: 05-Jul-2017 18:03:52 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705A.d

Injection Date:	05-Jul-2017 13:26:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD01			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705B.d
Lims ID: STD02
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Jul-2017 13:52:30 ALS Bottle#: 4 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD02
Misc. Info.: 500-0046351-003
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:21 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Vinyl chloride	62	1.886	1.891	-0.005	41	3516	0.5000	0.4379	
* 22 TBA-d9 (IS)	65	3.732	3.753	-0.021	0	182037	1000.0	1000.0	
49 Benzene	78	5.861	5.861	0.000	89	8707	0.5000	0.5092	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	785119	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	66	2654	0.5000	0.5388	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17950	1000.0	1000.0	
71 Toluene	92	7.872	7.872	0.000	55	4902	0.5000	0.4633	
* 81 Chlorobenzene-d5	117	9.408	9.413	-0.005	88	576557	50.0	50.0	
85 Ethylbenzene	106	9.584	9.584	0.000	82	3289	0.5000	0.4612	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	75	7873	0.5000	0.4628	
87 o-Xylene	91	10.296	10.296	0.000	81	8493	0.5000	0.4833	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	95	316967	50.0	50.0	
S 123 Xylenes, Total	100				0			0.9461	

Reagents:

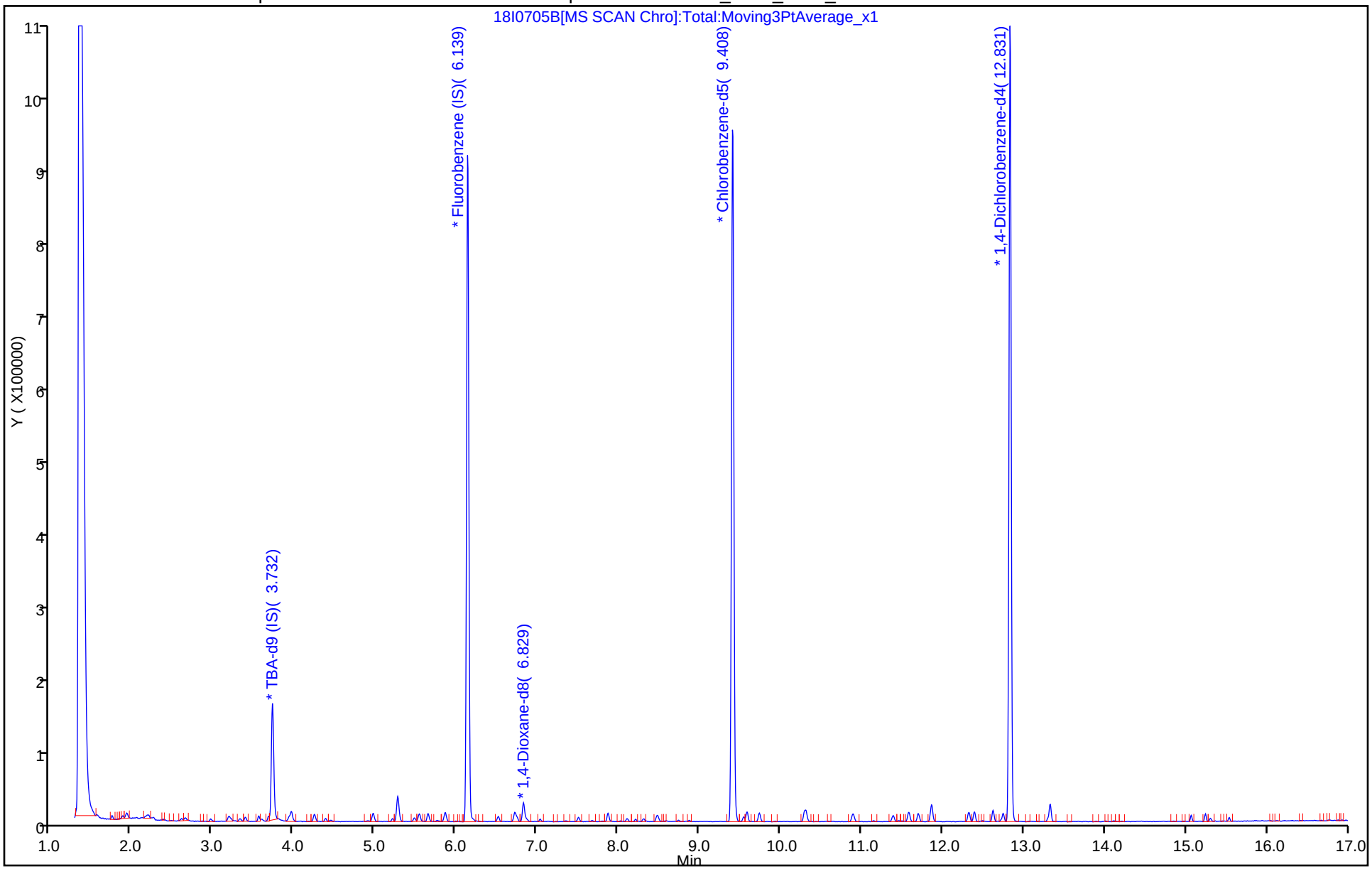
LEVEL1 8260_00001 Amount Added: 5.00 Units: uL
8260 LOWIS1_00108 Amount Added: 5.00 Units: uL

Report Date: 05-Jul-2017 18:04:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705B.d

Injection Date:	05-Jul-2017 13:52:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD02			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705C.d
Lims ID: STD03
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Jul-2017 14:16:30 ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD03
Misc. Info.: 500-0046351-004
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:27 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	52	4494	1.00	0.9217	
2 Chloromethane	50	1.752	1.752	0.000	85	8429	1.00	1.21	
3 Vinyl chloride	62	1.891	1.891	0.000	58	6881	1.00	0.9833	
4 Butadiene	39	1.934	1.940	-0.006	89	8254	1.00	1.21	
5 Bromomethane	94	2.245	2.250	-0.005	74	3065	1.00	0.9847	
6 Chloroethane	64	2.362	2.362	0.000	49	3574	1.00	1.20	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	72	9870	1.00	1.19	
8 Trichlorofluoromethane	101	2.651	2.646	0.005	69	8810	1.00	1.16	
10 Ethyl ether	59	2.977	2.972	0.005	71	3171	1.00	0.9552	
11 Acrolein	56	3.100	3.095	0.005	89	12902	40.0	40.8	
12 1,1-Dichloroethene	96	3.191	3.181	0.010	79	4546	1.00	0.9705	
13 1,1,2-Trichloro-1,2,2-trif	101	3.213	3.218	-0.005	53	5148	1.00	1.04	
15 Iodomethane	142	3.331	3.330	0.000	93	8590	1.00	0.99	
16 Carbon disulfide	76	3.395	3.389	0.006	98	16222	1.00	1.06	
19 3-Chloro-1-propene	76	3.566	3.560	0.006	84	2927	1.00	1.05	
20 Methyl acetate	43	3.598	3.593	0.005	88	10371	5.00	5.28	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	167169	1000.0	1000.0	
24 Acrylonitrile	53	3.940	3.935	0.005	92	11780	10.0	11.4	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	5450	1.00	1.08	
26 Methyl tert-butyl ether	73	3.978	3.972	0.006	83	10497	1.00	1.19	
27 Hexane	57	4.245	4.245	0.000	89	10001	1.00	1.09	
28 1,1-Dichloroethane	63	4.390	4.384	0.006	58	9972	1.00	1.04	
29 Vinyl acetate	43	4.454	4.449	0.005	86	6442	1.00	1.08	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	46	6142	1.00	1.09	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	85	5779	1.00	1.10	
39 Chlorobromomethane	128	5.219	5.214	0.005	73	2256	1.00	1.05	
41 Chloroform	83	5.299	5.294	0.005	86	9297	1.00	1.18	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	78	7980	1.00	1.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 Cyclohexane	56	5.540	5.545	-0.005	84	12072	1.00	1.05	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	70	6454	1.00	1.05	
46 Carbon tetrachloride	117	5.652	5.652	0.000	56	6656	1.00	1.05	
49 Benzene	78	5.861	5.861	0.000	90	18957	1.00	1.07	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	36	5710	1.00	1.06	
53 n-Heptane	43	6.134	6.134	0.000	37	9948	1.00	1.10	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	813104	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	69	5518	1.00	1.08	
58 Methylcyclohexane	83	6.722	6.722	0.000	90	10188	1.00	1.07	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	67	5425	1.00	1.16	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17166	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	61	2127	1.00	1.12	
65 Dichlorobromomethane	83	7.033	7.032	0.000	82	5522	1.00	1.17	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	47	1900	1.00	1.18	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	54	6440	1.00	1.09	
71 Toluene	92	7.872	7.872	0.000	86	13227	1.00	1.21	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	78	5800	1.00	1.21	
73 Ethyl methacrylate	69	8.209	8.209	0.000	62	4717	1.00	1.05	
74 1,1,2-Trichloroethane	97	8.311	8.306	0.005	58	3464	1.00	1.32	
75 Tetrachloroethene	166	8.472	8.472	0.000	78	5964	1.00	1.12	
76 1,3-Dichloropropane	76	8.498	8.493	0.005	79	5256	1.00	1.17	
79 Chlorodibromomethane	129	8.744	8.744	0.000	37	3714	1.00	1.13	
80 Ethylene Dibromide	107	8.873	8.873	0.000	53	3079	1.00	1.16	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	597515	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	48	17142	1.00	1.31	
84 1,1,1,2-Tetrachloroethane	131	9.552	9.547	0.005	64	5734	1.00	1.24	
85 Ethylbenzene	106	9.590	9.584	0.006	94	9624	1.00	1.30	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	91	23517	1.00	1.33	
87 o-Xylene	91	10.296	10.296	0.000	87	23940	1.00	1.31	
88 Styrene	104	10.317	10.317	0.000	85	18178	1.00	1.29	
89 Bromoform	173	10.590	10.590	0.000	44	2081	1.00	1.12	
90 Isopropylbenzene	105	10.895	10.895	0.000	89	31832	1.00	1.29	
94 Bromobenzene	156	11.387	11.387	0.000	87	7502	1.00	1.28	
95 1,1,2,2-Tetrachloroethane	83	11.393	11.392	0.001	29	4057	1.00	1.02	
96 1,2,3-Trichloropropane	75	11.457	11.462	-0.005	14	3214	1.00	1.01	
97 trans-1,4-Dichloro-2-buten	53	11.500	11.494	0.006	1	1345	1.00	1.20	
98 N-Propylbenzene	91	11.585	11.585	0.000	93	39633	1.00	1.35	
99 2-Chlorotoluene	91	11.703	11.697	0.006	82	23376	1.00	1.05	
101 4-Chlorotoluene	91	11.869	11.863	0.006	86	25751	1.00	1.33	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	87	27011	1.00	1.30	
103 tert-Butylbenzene	119	12.323	12.323	0.000	80	25638	1.00	1.30	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	61	27228	1.00	1.28	
106 sec-Butylbenzene	105	12.623	12.623	0.000	83	36735	1.00	1.30	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	86	15710	1.00	1.31	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	51	31258	1.00	1.27	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	96	332474	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	32	15736	1.00	1.36	
113 1,2-Dichlorobenzene	146	13.318	13.324	-0.006	85	13380	1.00	1.32	
114 n-Butylbenzene	91	13.329	13.329	0.000	91	27418	1.00	1.28	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	81	8643	1.00	1.26	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	76	6235	1.00	1.32	
119 Naphthalene	128	15.303	15.303	0.000	85	11770	1.00	1.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	75	6720	1.00	1.26	
S 123 Xylenes, Total	100				0			2.65	
S 124 Trihalomethanes, Total	1				0			4.59	
S 125 1,3-Dichloropropene, Total	1				0			2.30	
S 126 Trimethylbenzene, Total	1				0			2.57	
S 127 1,2-Dichloroethene, Total	96				0			2.17	

Reagents:

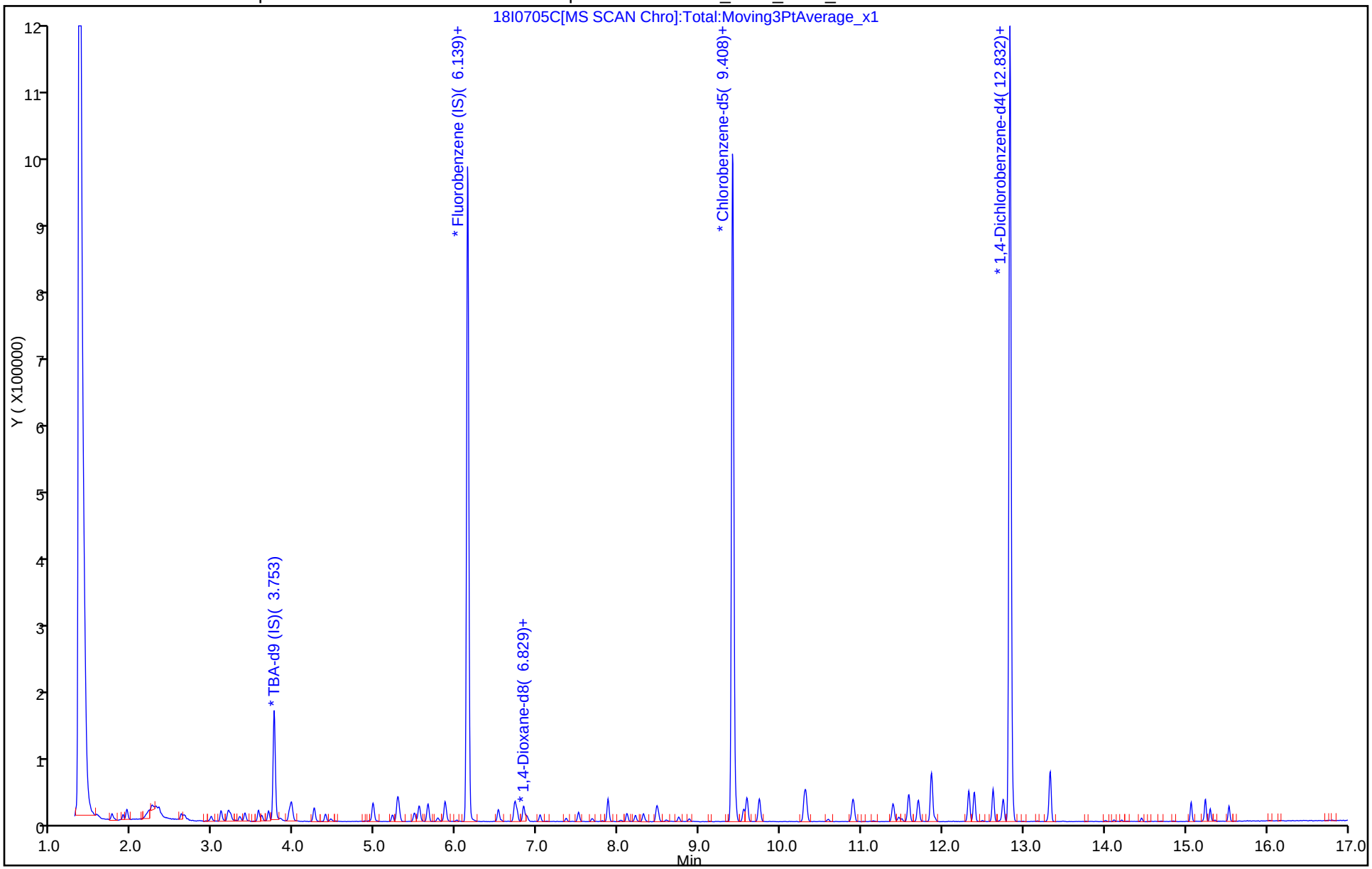
LOW8260ACR_00173	Amount Added:	1.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LO8260/624STD_00259	Amount Added:	1.00	Units: uL

Report Date: 05-Jul-2017 18:04:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705C.d

Injection Date:	05-Jul-2017 14:16:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD03			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705D.d
Lims ID: STD04
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-Jul-2017 14:41:30 ALS Bottle#: 6 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD04
Misc. Info.: 500-0046351-005
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:35 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	70	8617	2.00	1.82	
2 Chloromethane	50	1.752	1.752	0.000	87	14166	2.00	2.09	
3 Vinyl chloride	62	1.886	1.891	-0.005	74	13310	2.00	2.13	
4 Butadiene	39	1.934	1.940	-0.006	83	12711	2.00	1.92	
5 Bromomethane	94	2.244	2.250	-0.006	78	5130	2.00	2.11	
6 Chloroethane	64	2.357	2.362	-0.005	41	5694	2.00	1.97	
7 Dichlorofluoromethane	67	2.603	2.608	-0.005	75	16853	2.00	2.09	
8 Trichlorofluoromethane	101	2.635	2.646	-0.011	70	16670	2.00	2.25	
10 Ethyl ether	59	2.977	2.972	0.005	85	6568	2.00	2.03	
11 Acrolein	56	3.100	3.095	0.005	80	23332	80.0	75.8	
12 1,1-Dichloroethene	96	3.180	3.181	-0.001	79	9738	2.00	2.14	
13 1,1,2-Trichloro-1,2,2-trif	101	3.207	3.218	-0.011	72	9888	2.00	2.06	
15 Iodomethane	142	3.330	3.330	0.000	94	18163	2.00	2.16	
16 Carbon disulfide	76	3.389	3.389	0.000	98	29977	2.00	2.02	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	84	5703	2.00	2.11	
20 Methyl acetate	43	3.603	3.593	0.010	94	20462	10.0	10.7	
* 22 TBA-d9 (IS)	65	3.758	3.753	0.005	0	192292	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.844	3.839	0.005	66	4975	20.0	21.3	
24 Acrylonitrile	53	3.940	3.935	0.005	97	21559	20.0	21.5	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	87	10772	2.00	2.19	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	79	17374	2.00	2.03	
27 Hexane	57	4.245	4.245	0.000	91	18748	2.00	2.11	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	67	19840	2.00	2.12	
29 Vinyl acetate	43	4.448	4.449	-0.001	96	12460	2.00	2.15	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	81	10495	2.00	2.05	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	66	12209	2.00	2.23	
39 Chlorobromomethane	128	5.213	5.214	-0.001	81	4347	2.00	2.08	
40 Tetrahydrofuran	42	5.267	5.267	0.000	54	4660	4.00	4.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Chloroform	83	5.294	5.294	0.000	76	16087	2.00	2.09	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	81	14409	2.00	2.07	
44 Cyclohexane	56	5.545	5.545	0.000	90	22582	2.00	2.03	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	78	12691	2.00	2.11	
46 Carbon tetrachloride	117	5.652	5.652	0.000	79	12134	2.00	1.96	
47 Isobutyl alcohol	43	5.775	5.770	0.005	65	5852	50.0	54.6	
49 Benzene	78	5.861	5.861	0.000	96	36301	2.00	2.11	
50 1,2-Dichloroethane	62	5.877	5.872	0.005	76	10930	2.00	2.08	
53 n-Heptane	43	6.134	6.134	0.000	37	18534	2.00	2.10	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	790635	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	88	9747	2.00	1.97	
58 Methylcyclohexane	83	6.722	6.722	0.000	92	19647	2.00	2.11	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	9284	2.00	2.04	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	22057	1000.0	1000.0	
63 Dibromomethane	93	6.861	6.867	-0.006	72	3949	2.00	2.14	
65 Dichlorobromomethane	83	7.032	7.032	0.000	77	8554	2.00	1.86	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	57	3221	2.00	2.10	
68 cis-1,3-Dichloropropene	75	7.508	7.509	-0.001	66	11080	2.00	1.96	
71 Toluene	92	7.872	7.872	0.000	90	21132	2.00	2.02	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	79	9188	2.00	2.01	
73 Ethyl methacrylate	69	8.209	8.209	0.000	62	6724	2.00	1.82	
74 1,1,2-Trichloroethane	97	8.305	8.306	-0.001	78	5080	2.00	2.03	
75 Tetrachloroethene	166	8.477	8.472	0.005	83	10551	2.00	2.07	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	84	9229	2.00	2.15	
79 Chlorodibromomethane	129	8.744	8.744	0.000	54	6162	2.00	1.96	
80 Ethylene Dibromide	107	8.878	8.873	0.005	62	5705	2.00	2.25	
* 81 Chlorobenzene-d5	117	9.408	9.413	-0.005	87	569332	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	44	25942	2.00	2.08	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	70	8504	2.00	1.93	
85 Ethylbenzene	106	9.584	9.584	0.000	93	14208	2.00	2.02	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	96	34445	2.00	2.05	
87 o-Xylene	91	10.296	10.296	0.000	89	35294	2.00	2.03	
88 Styrene	104	10.317	10.317	0.000	85	28555	2.00	2.13	
89 Bromoform	173	10.595	10.590	0.005	47	3313	2.00	1.87	
90 Isopropylbenzene	105	10.895	10.895	0.000	91	49255	2.00	2.07	
94 Bromobenzene	156	11.387	11.387	0.000	89	11787	2.00	2.10	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	52	6431	2.00	1.98	
96 1,2,3-Trichloropropane	75	11.456	11.462	-0.006	41	6858	2.00	2.25	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	9	2239	2.00	2.07	
98 N-Propylbenzene	91	11.585	11.585	0.000	93	58286	2.00	2.07	
99 2-Chlorotoluene	91	11.703	11.697	0.006	92	34117	2.00	1.85	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	40574	2.00	2.03	
101 4-Chlorotoluene	91	11.868	11.863	0.005	91	41017	2.00	2.21	
103 tert-Butylbenzene	119	12.323	12.323	0.000	85	39338	2.00	2.08	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	51	42762	2.00	2.08	
106 sec-Butylbenzene	105	12.623	12.623	0.000	89	55465	2.00	2.05	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	90	25078	2.00	2.18	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	54	47624	2.00	2.01	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	96	319675	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.863	12.864	-0.001	38	22795	2.00	2.04	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	70	20472	2.00	2.10	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	43061	2.00	2.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	1	774	2.00	1.87	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	83	14062	2.00	2.12	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	82	9729	2.00	2.14	
119 Naphthalene	128	15.303	15.303	0.000	95	19064	2.00	2.05	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	85	10984	2.00	2.15	
S 123 Xylenes, Total	100				0			4.08	
S 124 Trihalomethanes, Total	1				0			7.79	
S 125 1,3-Dichloropropene, Total	1				0			3.97	
S 126 Trimethylbenzene, Total	1				0			4.11	
S 127 1,2-Dichloroethene, Total	96				0			4.24	

Reagents:

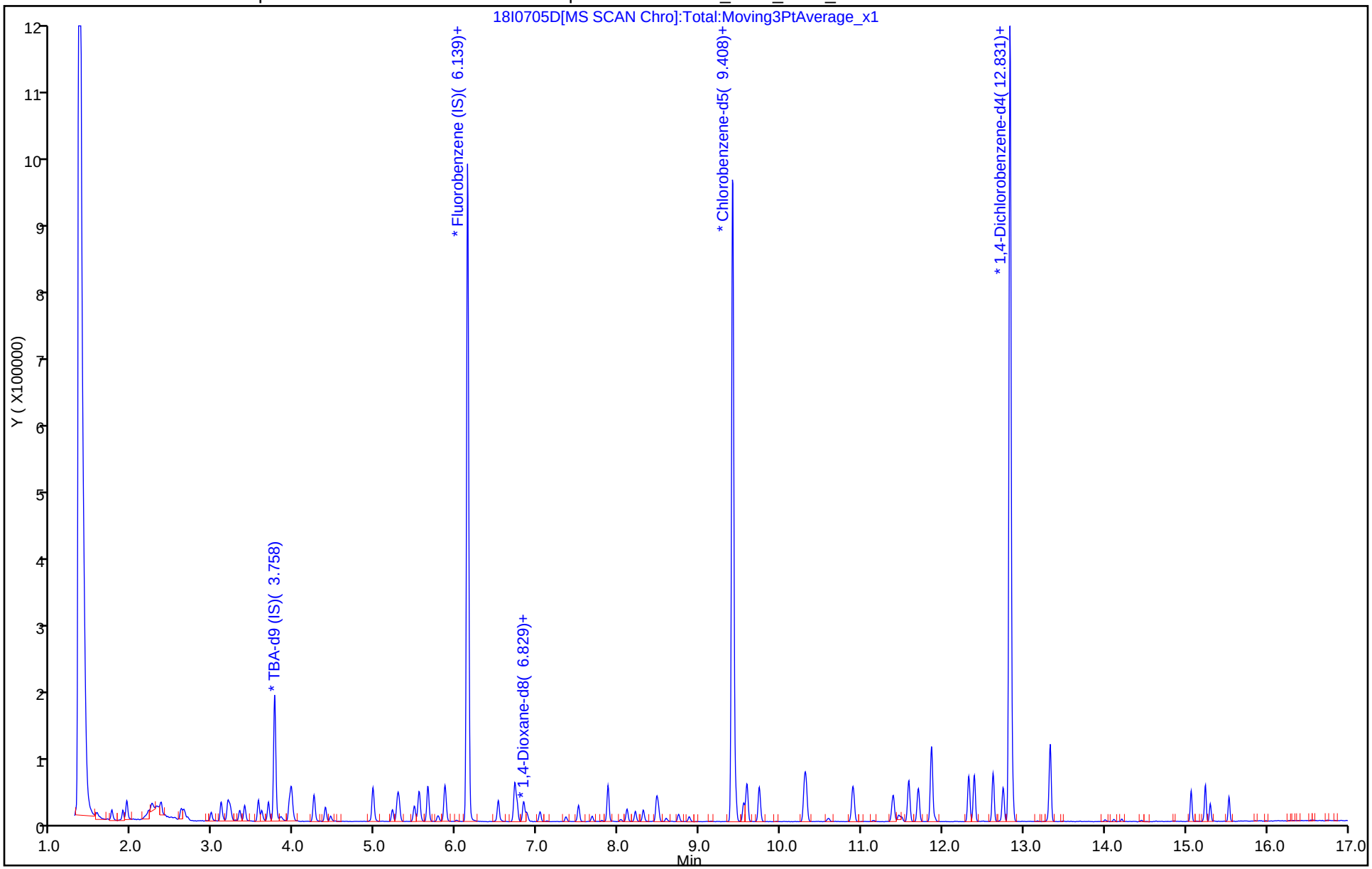
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LOW8260ACR_00173	Amount Added:	2.00	Units: uL
LO8260/624STD_00259	Amount Added:	2.00	Units: uL

Report Date: 05-Jul-2017 18:04:37 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705D.d

Injection Date:	05-Jul-2017 14:41:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD04			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705E.d
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Jul-2017 15:06:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Misc. Info.: 500-0046351-006
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:41 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	80	20730	5.00	4.34	
2 Chloromethane	50	1.752	1.752	0.000	88	30407	5.00	4.46	
3 Vinyl chloride	62	1.886	1.891	-0.005	81	27348	5.00	4.53	
4 Butadiene	39	1.939	1.940	-0.001	88	29843	5.00	4.49	
5 Bromomethane	94	2.250	2.250	0.000	87	10328	5.00	4.78	
6 Chloroethane	64	2.362	2.362	0.000	79	14338	5.00	4.93	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	97	40525	5.00	5.00	
8 Trichlorofluoromethane	101	2.640	2.646	-0.006	75	34360	5.00	4.61	
10 Ethyl ether	59	2.972	2.972	0.000	89	15420	5.00	4.75	
11 Acrolein	56	3.095	3.095	0.000	90	56091	200.0	181.1	
12 1,1-Dichloroethene	96	3.181	3.181	0.000	85	22528	5.00	4.91	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	81	22445	5.00	4.65	
14 Acetone	43	3.272	3.261	0.011	79	4395	5.00	6.04	
15 Iodomethane	142	3.330	3.330	0.000	97	38958	5.00	4.61	
16 Carbon disulfide	76	3.389	3.389	0.000	98	67873	5.00	4.54	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	91	13211	5.00	4.85	
20 Methyl acetate	43	3.598	3.593	0.005	96	43681	25.0	22.7	
21 Methylene Chloride	84	3.683	3.684	-0.001	92	22221	5.00	5.04	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175392	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	74	9504	50.0	44.6	
24 Acrylonitrile	53	3.935	3.935	0.000	94	43933	50.0	43.6	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	23487	5.00	4.74	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	88	38541	5.00	4.47	
27 Hexane	57	4.245	4.245	0.000	94	40656	5.00	4.54	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	82	43354	5.00	4.61	
29 Vinyl acetate	43	4.448	4.449	-0.001	98	25808	5.00	4.43	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	61	27362	5.00	4.97	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	24059	5.00	4.66	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	5.005	4.994	0.011	67	5274	5.00	5.04	
39 Chlorobromomethane	128	5.213	5.214	-0.001	82	10011	5.00	4.75	
40 Tetrahydrofuran	42	5.267	5.267	0.000	67	7654	10.0	8.59	
41 Chloroform	83	5.294	5.294	0.000	96	35358	5.00	4.57	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	86	32311	5.00	4.62	
44 Cyclohexane	56	5.540	5.545	-0.005	94	53827	5.00	4.80	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	28779	5.00	4.76	
46 Carbon tetrachloride	117	5.652	5.652	0.000	76	28600	5.00	4.60	
47 Isobutyl alcohol	43	5.775	5.770	0.005	83	10878	125.0	111.2	
49 Benzene	78	5.861	5.861	0.000	97	80864	5.00	4.67	
50 1,2-Dichloroethane	62	5.871	5.872	-0.001	62	23507	5.00	4.45	
53 n-Heptane	43	6.134	6.134	0.000	40	41785	5.00	4.71	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	98	795875	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	85	22491	5.00	4.50	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	44931	5.00	4.80	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	86	21014	5.00	4.58	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	17447	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	73	8174	5.00	4.40	
64 1,4-Dioxane	88	6.883	6.888	-0.005	36	2043	100.0	106.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	86	20839	5.00	4.50	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	77	6935	5.00	4.45	
68 cis-1,3-Dichloropropene	75	7.509	7.509	-0.001	73	25285	5.00	4.41	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	78	11794	5.00	4.94	
71 Toluene	92	7.872	7.872	0.000	93	47727	5.00	4.50	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	90	21432	5.00	4.62	
73 Ethyl methacrylate	69	8.209	8.209	0.000	79	15482	5.00	4.75	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	81	11856	5.00	4.68	
75 Tetrachloroethene	166	8.471	8.472	-0.001	88	23569	5.00	4.56	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	93	20609	5.00	4.73	
77 2-Hexanone	43	8.589	8.584	0.005	90	8059	5.00	5.09	
79 Chlorodibromomethane	129	8.744	8.744	0.000	78	13753	5.00	4.32	
80 Ethylene Dibromide	107	8.873	8.873	0.000	92	11878	5.00	4.61	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	85	577772	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	79	58091	5.00	4.58	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	82	19110	5.00	4.28	
85 Ethylbenzene	106	9.590	9.584	0.006	98	31705	5.00	4.44	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	78305	5.00	4.59	
87 o-Xylene	91	10.296	10.296	0.000	92	81986	5.00	4.66	
88 Styrene	104	10.317	10.317	0.000	90	60534	5.00	4.44	
89 Bromoform	173	10.585	10.590	-0.005	74	7231	5.00	4.03	
90 Isopropylbenzene	105	10.895	10.895	0.000	97	109768	5.00	4.64	
94 Bromobenzene	156	11.387	11.387	0.000	91	26468	5.00	4.74	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	60	13507	5.00	4.69	
96 1,2,3-Trichloropropane	75	11.457	11.462	-0.005	45	13934	5.00	4.59	
97 trans-1,4-Dichloro-2-buten	53	11.489	11.494	-0.005	28	4927	5.00	4.58	
98 N-Propylbenzene	91	11.585	11.585	0.000	96	131329	5.00	4.69	
99 2-Chlorotoluene	91	11.703	11.697	0.006	95	73626	5.00	4.58	
101 4-Chlorotoluene	91	11.869	11.863	0.005	91	86734	5.00	4.69	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	90	93893	5.00	4.71	
103 tert-Butylbenzene	119	12.323	12.323	0.000	91	86392	5.00	4.59	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	64	95821	5.00	4.69	
106 sec-Butylbenzene	105	12.623	12.623	0.000	93	126798	5.00	4.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	51997	5.00	4.54	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	68	110862	5.00	4.70	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	96	318096	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	92	49553	5.00	4.47	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	72	44020	5.00	4.55	
114 n-Butylbenzene	91	13.329	13.329	0.000	96	94755	5.00	4.61	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	12	2184	5.00	5.31	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	90	29148	5.00	4.42	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	87	21008	5.00	4.65	
119 Naphthalene	128	15.303	15.303	0.000	98	38936	5.00	4.20	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	93	22057	5.00	4.34	
S 123 Xylenes, Total	100				0			9.25	
S 124 Trihalomethanes, Total	1				0			17.4	
S 125 1,3-Dichloropropene, Total	1				0			9.03	
S 126 Trimethylbenzene, Total	1				0			9.41	
S 127 1,2-Dichloroethene, Total	96				0			9.41	

Reagents:

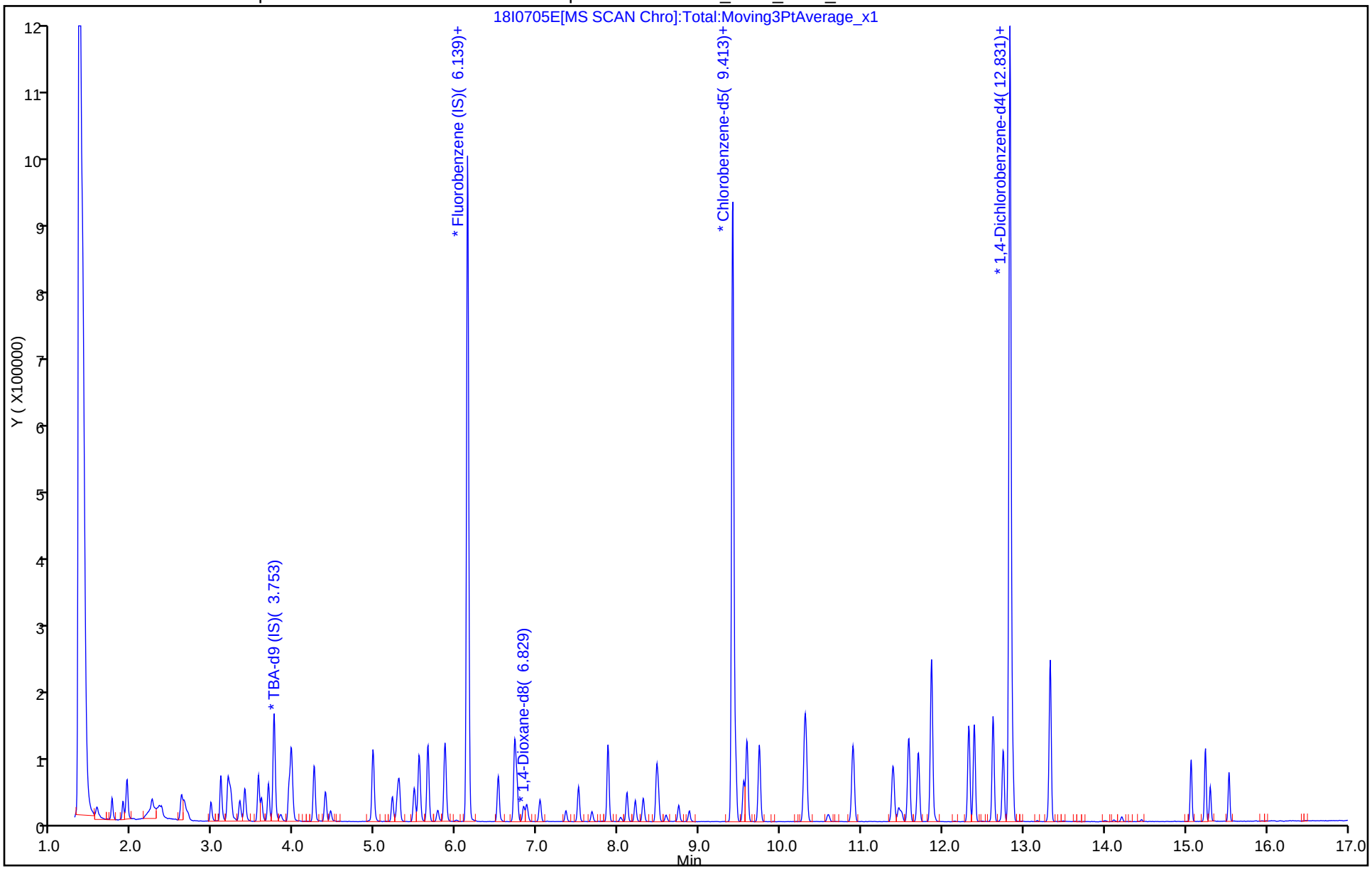
LOW8260ACR_00173	Amount Added:	5.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LO8260/624STD_00259	Amount Added:	5.00	Units: uL

Report Date: 05-Jul-2017 18:04:42 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705E.d

Injection Date:	05-Jul-2017 15:06:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD05			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705F.d
Lims ID: STD06
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Jul-2017 15:31:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD06
Misc. Info.: 500-0046351-007
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:46 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	81700	20.0	17.1	
2 Chloromethane	50	1.758	1.752	0.006	89	120142	20.0	17.6	
3 Vinyl chloride	62	1.891	1.891	0.000	84	109889	20.0	18.7	
4 Butadiene	39	1.940	1.940	0.000	93	118412	20.0	17.8	
5 Bromomethane	94	2.250	2.250	0.000	92	37607	20.0	18.9	
6 Chloroethane	64	2.368	2.362	0.006	91	55755	20.0	19.1	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	82	153756	20.0	18.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	137633	20.0	18.5	
10 Ethyl ether	59	2.972	2.972	0.000	93	63149	20.0	19.4	
11 Acrolein	56	3.095	3.095	0.000	96	242776	800.0	782.6	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	89606	20.0	19.5	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	94835	20.0	19.6	
14 Acetone	43	3.261	3.261	0.000	94	13388	20.0	18.4	
15 Iodomethane	142	3.330	3.330	0.000	98	163760	20.0	19.3	
16 Carbon disulfide	76	3.395	3.389	0.006	99	281113	20.0	18.8	
19 3-Chloro-1-propene	76	3.561	3.560	0.001	91	53644	20.0	19.7	
20 Methyl acetate	43	3.598	3.593	0.005	99	182964	100.0	95.1	
21 Methylene Chloride	84	3.684	3.684	0.000	93	87843	20.0	19.9	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	174054	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	91	44126	200.0	208.6	
24 Acrylonitrile	53	3.935	3.935	0.000	99	188336	200.0	186.7	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	90	96622	20.0	19.5	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	88	166346	20.0	19.3	
27 Hexane	57	4.245	4.245	0.000	94	168669	20.0	18.8	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	184372	20.0	19.6	
29 Vinyl acetate	43	4.449	4.449	0.000	99	108899	20.0	18.7	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	83	101874	20.0	19.7	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	109238	20.0	19.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	55	20908	20.0	20.0	
39 Chlorobromomethane	128	5.214	5.214	0.000	91	41021	20.0	19.4	
40 Tetrahydrofuran	42	5.267	5.267	0.000	87	29255	40.0	40.4	
41 Chloroform	83	5.299	5.294	0.005	83	148141	20.0	19.1	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	67	80718	20.0	19.1	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	88	134251	20.0	19.2	
44 Cyclohexane	56	5.545	5.545	0.000	93	216395	20.0	19.3	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	85	118509	20.0	19.6	
46 Carbon tetrachloride	117	5.652	5.652	0.000	78	118670	20.0	19.1	
47 Isobutyl alcohol	43	5.770	5.770	0.000	95	47449	500.0	488.7	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	79875	20.0	19.4	
49 Benzene	78	5.861	5.861	0.000	96	335016	20.0	19.3	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	56	102909	20.0	19.5	
53 n-Heptane	43	6.134	6.134	0.000	54	165708	20.0	18.7	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	97	796927	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	96750	20.0	19.4	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	184812	20.0	19.7	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	86	87032	20.0	18.9	
* 61 1,4-Dioxane-d8	96	6.835	6.834	0.001	0	17436	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	83	35538	20.0	19.1	
64 1,4-Dioxane	88	6.888	6.888	0.000	52	8563	400.0	445.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	90	86406	20.0	18.6	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	91	29172	20.0	19.2	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	81	108674	20.0	19.5	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	95	46539	20.0	20.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.803	-0.006	94	297039	20.0	19.3	
71 Toluene	92	7.872	7.872	0.000	88	197663	20.0	19.2	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	86409	20.0	19.1	
73 Ethyl methacrylate	69	8.209	8.209	0.000	81	61111	20.0	20.8	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	90	46098	20.0	18.7	
75 Tetrachloroethene	166	8.472	8.472	0.000	90	98599	20.0	19.6	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	82025	20.0	19.3	
77 2-Hexanone	43	8.584	8.584	0.000	95	31482	20.0	20.4	
79 Chlorodibromomethane	129	8.744	8.744	0.000	87	56685	20.0	18.3	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	47581	20.0	19.0	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	562417	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	92	231158	20.0	18.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	86	82427	20.0	19.0	
85 Ethylbenzene	106	9.584	9.584	0.000	99	133251	20.0	19.2	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	318336	20.0	19.2	
87 o-Xylene	91	10.296	10.296	0.000	92	326547	20.0	19.0	
88 Styrene	104	10.317	10.317	0.000	92	253871	20.0	19.1	
89 Bromoform	173	10.590	10.590	0.000	97	31783	20.0	18.2	
90 Isopropylbenzene	105	10.895	10.895	0.000	97	445645	20.0	18.7	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	90	126981	20.0	20.1	
94 Bromobenzene	156	11.387	11.387	0.000	90	105458	20.0	18.8	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	65	53394	20.0	19.8	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	49	58789	20.0	19.3	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	47	19904	20.0	18.4	
98 N-Propylbenzene	91	11.580	11.585	-0.005	98	533504	20.0	19.0	
99 2-Chlorotoluene	91	11.703	11.697	0.006	97	301823	20.0	20.2	
100 1,3,5-Trimethylbenzene	105	11.858	11.863	-0.005	88	383613	20.0	19.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.863	11.863	0.000	87	350259	20.0	18.8	
103 tert-Butylbenzene	119	12.323	12.323	0.000	93	357420	20.0	18.9	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	390056	20.0	19.0	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	516926	20.0	19.1	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	216750	20.0	18.8	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	93	457613	20.0	19.3	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	96	319614	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	93	212318	20.0	19.0	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	73	184844	20.0	19.0	
114 n-Butylbenzene	91	13.329	13.329	0.000	96	394914	20.0	19.1	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	47	7872	20.0	19.0	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	92	126644	20.0	19.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	86502	20.0	19.1	
119 Naphthalene	128	15.303	15.303	0.000	99	172680	20.0	18.5	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	96998	20.0	19.0	
S 123 Xylenes, Total	100				0			38.2	
S 124 Trihalomethanes, Total	1				0			74.3	
S 125 1,3-Dichloropropene, Total	1				0			38.6	
S 126 Trimethylbenzene, Total	1				0			38.2	
S 127 1,2-Dichloroethene, Total	96				0			39.2	

Reagents:

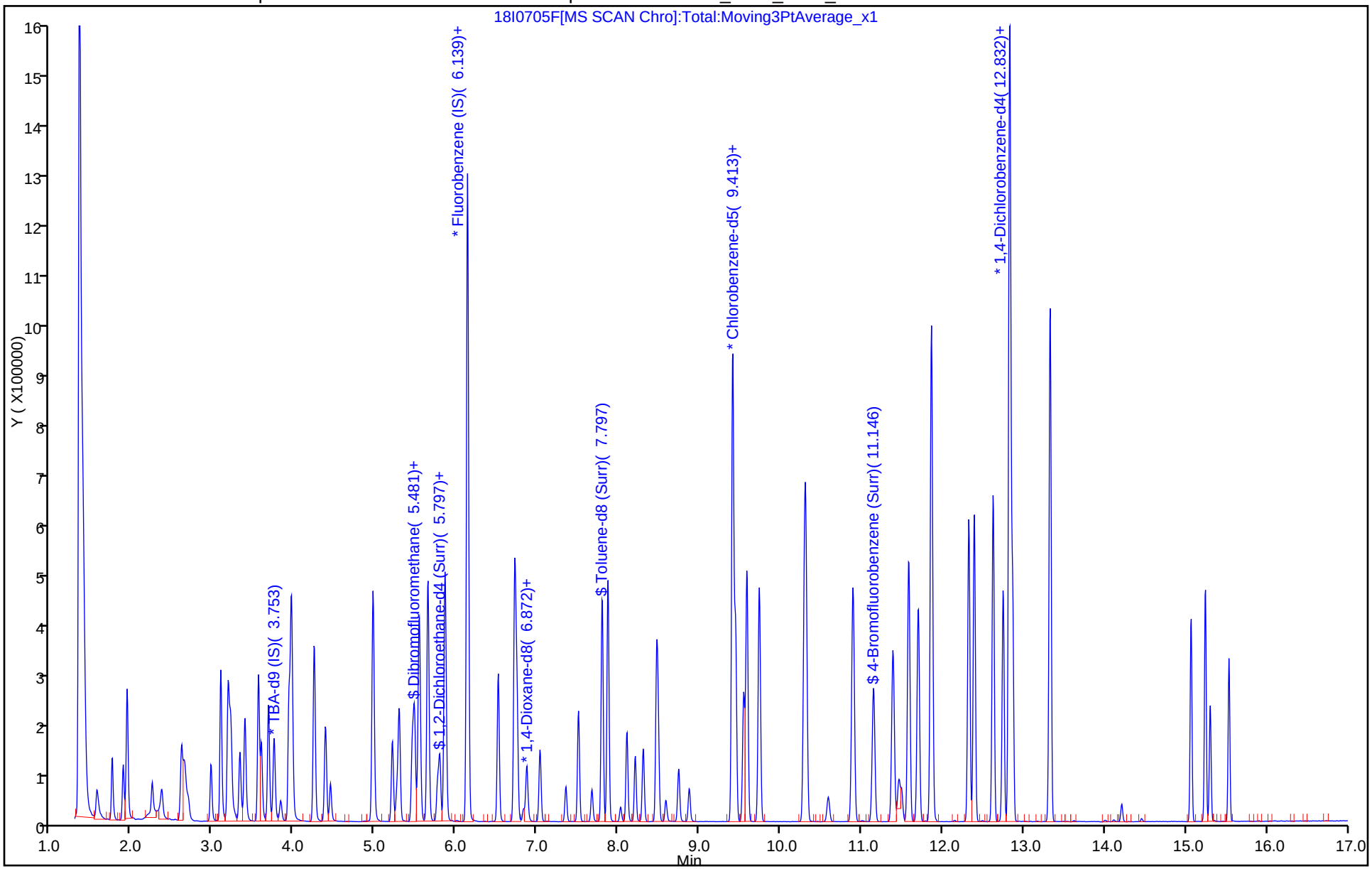
LOW8260ACR_00173	Amount Added:	20.00	Units: uL
8260 LOWSS1_00133	Amount Added:	2.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
LO8260/624STD_00259	Amount Added:	20.00	Units: uL

Report Date: 05-Jul-2017 18:04:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705F.d

Injection Date:	05-Jul-2017 15:31:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD06			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705G.d
Lims ID: STD07
Client ID:
Sample Type: ICIS Calib Level: 7
Inject. Date: 05-Jul-2017 15:56:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD07
Misc. Info.: 500-0046351-008
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:52 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	272116	50.0	56.6	
2 Chloromethane	50	1.752	1.752	0.000	89	336875	50.0	49.1	
3 Vinyl chloride	62	1.891	1.891	0.000	84	305131	50.0	51.9	
4 Butadiene	39	1.940	1.940	0.000	94	332358	50.0	49.6	
5 Bromomethane	94	2.250	2.250	0.000	90	96111	50.0	48.9	
6 Chloroethane	64	2.362	2.362	0.000	92	135433	50.0	46.2	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	83	391107	50.0	47.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	367395	50.0	49.0	
10 Ethyl ether	59	2.972	2.972	0.000	96	162953	50.0	49.8	
11 Acrolein	56	3.095	3.095	0.000	96	637851	2000.0	2044.0	
12 1,1-Dichloroethene	96	3.181	3.181	0.000	86	228803	50.0	49.5	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	83	247497	50.0	50.9	
14 Acetone	43	3.261	3.261	0.000	98	34308	50.0	46.8	
15 Iodomethane	142	3.330	3.330	0.000	97	425176	50.0	49.9	
16 Carbon disulfide	76	3.389	3.389	0.000	99	756356	50.0	50.3	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	139927	50.0	51.0	
20 Methyl acetate	43	3.593	3.593	0.000	97	461931	250.0	238.7	
21 Methylene Chloride	84	3.684	3.684	0.000	93	223357	50.0	50.3	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180389	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.839	3.839	0.000	90	105305	500.0	480.3	
24 Acrylonitrile	53	3.935	3.935	0.000	99	486981	500.0	480.0	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	90	247445	50.0	49.6	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	420529	50.0	48.4	
27 Hexane	57	4.245	4.245	0.000	95	447347	50.0	49.5	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	86	463937	50.0	48.9	
29 Vinyl acetate	43	4.449	4.449	0.000	99	274781	50.0	46.9	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	274726	50.0	49.6	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	256370	50.0	49.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	59	53426	50.0	50.7	
39 Chlorobromomethane	128	5.214	5.214	0.000	90	102218	50.0	48.1	
40 Tetrahydrofuran	42	5.267	5.267	0.000	89	68078	100.0	97.0	
41 Chloroform	83	5.294	5.294	0.000	84	372573	50.0	47.8	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	63	211073	50.0	49.7	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	348782	50.0	49.5	
44 Cyclohexane	56	5.545	5.545	0.000	93	562502	50.0	49.8	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	85	301684	50.0	49.5	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	316472	50.0	50.5	
47 Isobutyl alcohol	43	5.770	5.770	0.000	96	121739	1250.0	1209.9	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	203800	50.0	49.1	
49 Benzene	78	5.861	5.861	0.000	95	847471	50.0	48.5	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	58	259491	50.0	48.8	
53 n-Heptane	43	6.134	6.134	0.000	80	436764	50.0	48.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	93	801683	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	244484	50.0	48.6	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	469084	50.0	49.8	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	222854	50.0	48.2	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	18119	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	86	91089	50.0	48.6	
64 1,4-Dioxane	88	6.888	6.888	0.000	67	19097	1000.0	955.5	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	226010	50.0	48.5	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	71633	50.0	46.6	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	276998	50.0	49.0	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	116399	50.0	49.5	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	772381	50.0	49.5	
71 Toluene	92	7.872	7.872	0.000	85	492442	50.0	47.1	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	214741	50.0	47.0	
73 Ethyl methacrylate	69	8.209	8.209	0.000	84	144793	50.0	49.2	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	112325	50.0	45.0	
75 Tetrachloroethene	166	8.472	8.472	0.000	90	250004	50.0	49.0	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	97	200846	50.0	46.8	
77 2-Hexanone	43	8.584	8.584	0.000	76	79377	50.0	50.9	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	151435	50.0	48.2	
80 Ethylene Dibromide	107	8.873	8.873	0.000	97	118442	50.0	46.6	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	87	569472	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	93	587653	50.0	47.0	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	208912	50.0	47.4	
85 Ethylbenzene	106	9.584	9.584	0.000	99	334739	50.0	47.5	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	799570	50.0	47.6	
87 o-Xylene	91	10.296	10.296	0.000	94	832050	50.0	47.9	
88 Styrene	104	10.317	10.317	0.000	91	633051	50.0	47.1	
89 Bromoform	173	10.590	10.590	0.000	98	84269	50.0	47.7	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	1119416	50.0	46.1	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	91	307658	50.0	47.8	
94 Bromobenzene	156	11.387	11.387	0.000	92	259390	50.0	45.3	
95 1,1,2,2-Tetrachloroethane	83	11.392	11.392	0.000	58	128840	50.0	47.5	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	51	145921	50.0	46.8	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	70	51269	50.0	46.5	
98 N-Propylbenzene	91	11.585	11.585	0.000	98	1310644	50.0	45.7	
99 2-Chlorotoluene	91	11.697	11.697	0.000	98	742252	50.0	49.3	
101 4-Chlorotoluene	91	11.863	11.863	0.000	87	855588	50.0	45.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	951676	50.0	46.6	
103 tert-Butylbenzene	119	12.323	12.323	0.000	93	889840	50.0	46.1	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	972016	50.0	46.4	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	1292282	50.0	46.8	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	528543	50.0	45.0	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	94	1141738	50.0	47.2	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	80	326186	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	94	517781	50.0	45.5	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	72	454217	50.0	45.7	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	994436	50.0	47.2	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	56	19714	50.0	46.7	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	318543	50.0	47.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	219148	50.0	47.3	
119 Naphthalene	128	15.303	15.303	0.000	99	455189	50.0	47.9	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	246565	50.0	47.3	

Reagents:

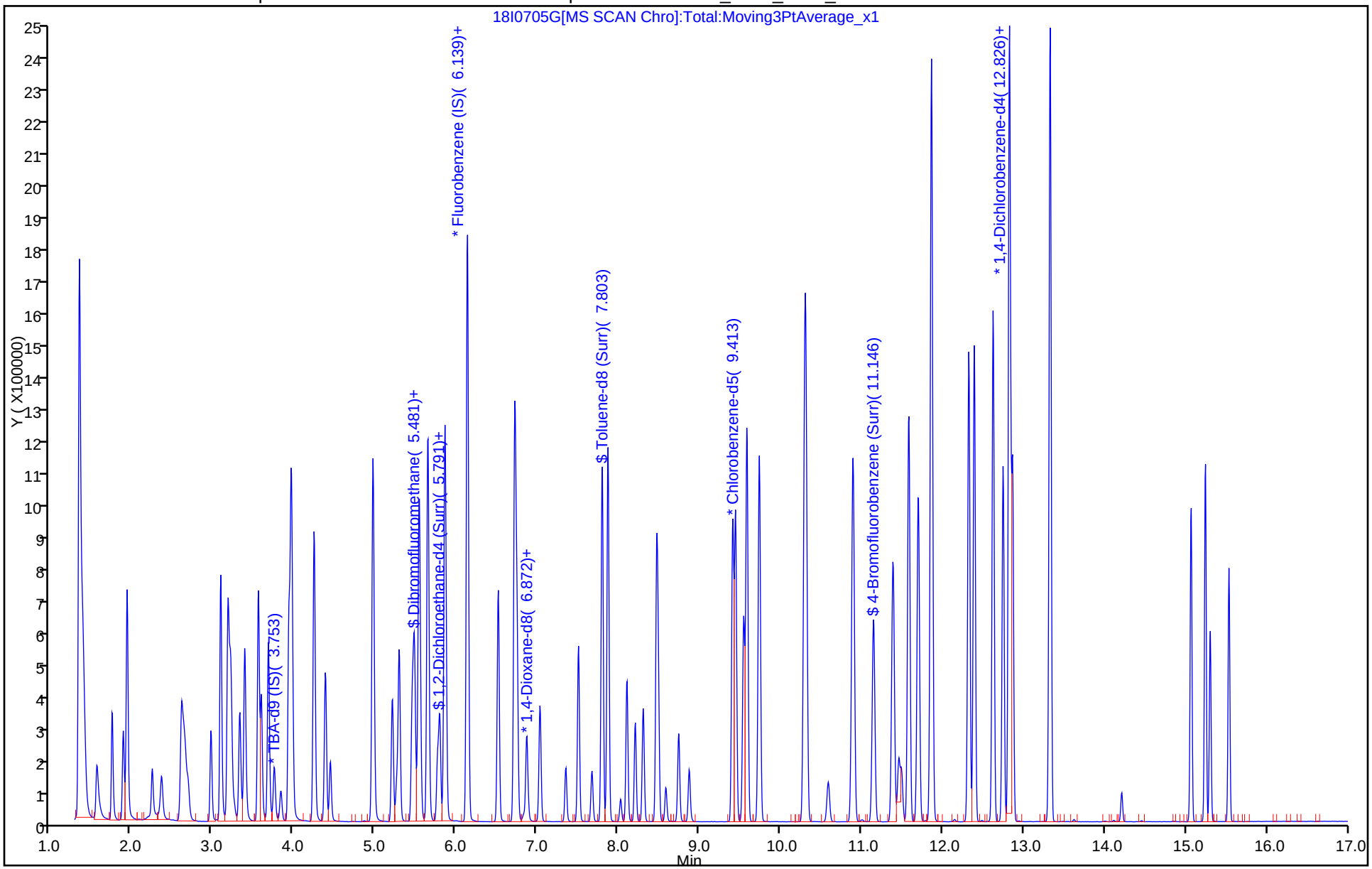
8260 LOWSS1_00133	Amount Added:	5.00	Units: uL
8260/624ACRWK_00334	Amount Added:	2.50	Units: uL
8260/624GASWK_00457	Amount Added:	2.50	Units: uL
8260/624KETWK_00262	Amount Added:	2.50	Units: uL
8260VA/2CEVE_00276	Amount Added:	2.50	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	2.50	Units: uL

Report Date: 05-Jul-2017 18:04:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705G.d

Injection Date:	05-Jul-2017 15:56:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD07			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705H.d
Lims ID: STD08
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 05-Jul-2017 16:21:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD08
Misc. Info.: 500-0046351-009
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:04:58 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:04:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	527601	100.0	110.4	
2 Chloromethane	50	1.752	1.752	0.000	89	674171	100.0	98.8	
3 Vinyl chloride	62	1.891	1.891	0.000	84	604942	100.0	103.7	
4 Butadiene	39	1.940	1.940	0.000	93	667705	100.0	100.2	
5 Bromomethane	94	2.250	2.250	0.000	90	193959	100.0	99.8	
6 Chloroethane	64	2.362	2.362	0.000	92	277550	100.0	95.2	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	84	772426	100.0	95.1	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	713643	100.0	95.6	
10 Ethyl ether	59	2.972	2.972	0.000	97	339452	100.0	104.3	
11 Acrolein	56	3.095	3.095	0.000	94	1281902	4000.0	4130.6	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	456181	100.0	99.3	
13 1,1,2-Trichloro-1,2,2-trif	101	3.213	3.218	-0.005	84	481780	100.0	99.7	
14 Acetone	43	3.261	3.261	0.000	96	70846	100.0	97.2	
15 Iodomethane	142	3.330	3.330	0.000	97	857408	100.0	101.2	
16 Carbon disulfide	76	3.389	3.389	0.000	99	1539407	100.0	102.9	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	267341	100.0	97.9	
20 Methyl acetate	43	3.593	3.593	0.000	100	983993	500.0	511.3	
21 Methylene Chloride	84	3.684	3.684	0.000	93	441233	100.0	99.9	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	176950	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	99	221896	1000.0	1031.8	
24 Acrylonitrile	53	3.935	3.935	0.000	98	1008539	1000.0	999.5	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	484469	100.0	97.7	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	856864	100.0	99.2	
27 Hexane	57	4.245	4.245	0.000	94	893243	100.0	99.5	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	944075	100.0	100.1	
29 Vinyl acetate	43	4.449	4.449	0.000	99	569580	100.0	97.7	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	513610	100.0	99.3	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	60	530587	100.0	96.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	42	102095	100.0	97.4	
39 Chlorobromomethane	128	5.214	5.214	0.000	92	214726	100.0	101.7	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	88	140204	200.0	203.7	
41 Chloroform	83	5.294	5.294	0.000	74	752011	100.0	97.1	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	65	427416	100.0	101.3	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	699595	100.0	99.9	
44 Cyclohexane	56	5.545	5.545	0.000	94	1118318	100.0	99.6	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	597260	100.0	98.6	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	638700	100.0	102.6	
47 Isobutyl alcohol	43	5.770	5.770	0.000	97	256767	2500.0	2601.5	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	412779	100.0	100.1	
49 Benzene	78	5.861	5.861	0.000	95	1716482	100.0	98.9	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	55	536135	100.0	101.4	
53 n-Heptane	43	6.134	6.134	0.000	95	870212	100.0	97.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	85	797286	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	91	493280	100.0	98.6	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	920502	100.0	98.2	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	451436	100.0	98.2	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18605	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	185247	100.0	99.4	
64 1,4-Dioxane	88	6.888	6.888	0.000	64	41154	2000.0	2005.3	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	466445	100.0	100.5	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	94	146114	100.0	97.6	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	561271	100.0	101.9	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	229053	100.0	99.9	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	1550106	100.0	101.9	
71 Toluene	92	7.872	7.872	0.000	93	1003686	100.0	98.5	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	437551	100.0	98.2	
73 Ethyl methacrylate	69	8.209	8.209	0.000	83	292943	100.0	102.7	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	87	234406	100.0	96.3	
75 Tetrachloroethene	166	8.471	8.472	-0.001	91	489260	100.0	98.5	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	406391	100.0	97.1	
77 2-Hexanone	43	8.584	8.584	0.000	98	149581	100.0	98.4	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	315790	100.0	103.2	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	240318	100.0	97.1	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	88	555088	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	95	1155483	100.0	94.9	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	430534	100.0	100.3	
85 Ethylbenzene	106	9.590	9.584	0.006	99	654389	100.0	95.3	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	1570381	100.0	95.9	
87 o-Xylene	91	10.296	10.296	0.000	93	1633419	100.0	96.5	
88 Styrene	104	10.317	10.317	0.000	92	1255558	100.0	95.9	
89 Bromoform	173	10.590	10.590	0.000	98	185997	100.0	107.9	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	2208656	100.0	95.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	90	614724	100.0	100.1	
94 Bromobenzene	156	11.387	11.387	0.000	91	515768	100.0	94.3	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	66	265906	100.0	103.3	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	52	293535	100.0	98.7	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	76	103376	100.0	98.2	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	2566380	100.0	93.7	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	1461715	100.0	102.2	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	1852778	100.0	95.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.869	11.863	0.006	92	1667450	100.0	92.1	
103 tert-Butylbenzene	119	12.323	12.323	0.000	89	1761077	100.0	95.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	1908558	100.0	95.5	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	2530460	100.0	96.0	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	1058714	100.0	94.5	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	95	2243353	100.0	97.2	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	72	311229	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	94	1030219	100.0	94.9	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	75	904238	100.0	95.4	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	1963275	100.0	97.7	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	63	42234	100.0	104.9	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	92	645373	100.0	100.1	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	427080	100.0	96.7	
119 Naphthalene	128	15.303	15.303	0.000	98	950708	100.0	104.9	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	503726	100.0	101.3	
S 123 Xylenes, Total	100				0			192.4	
S 124 Trihalomethanes, Total	1				0			408.8	
S 125 1,3-Dichloropropene, Total	1				0			200.1	
S 126 Trimethylbenzene, Total	1				0			190.6	
S 127 1,2-Dichloroethene, Total	96				0			197.0	

Reagents:

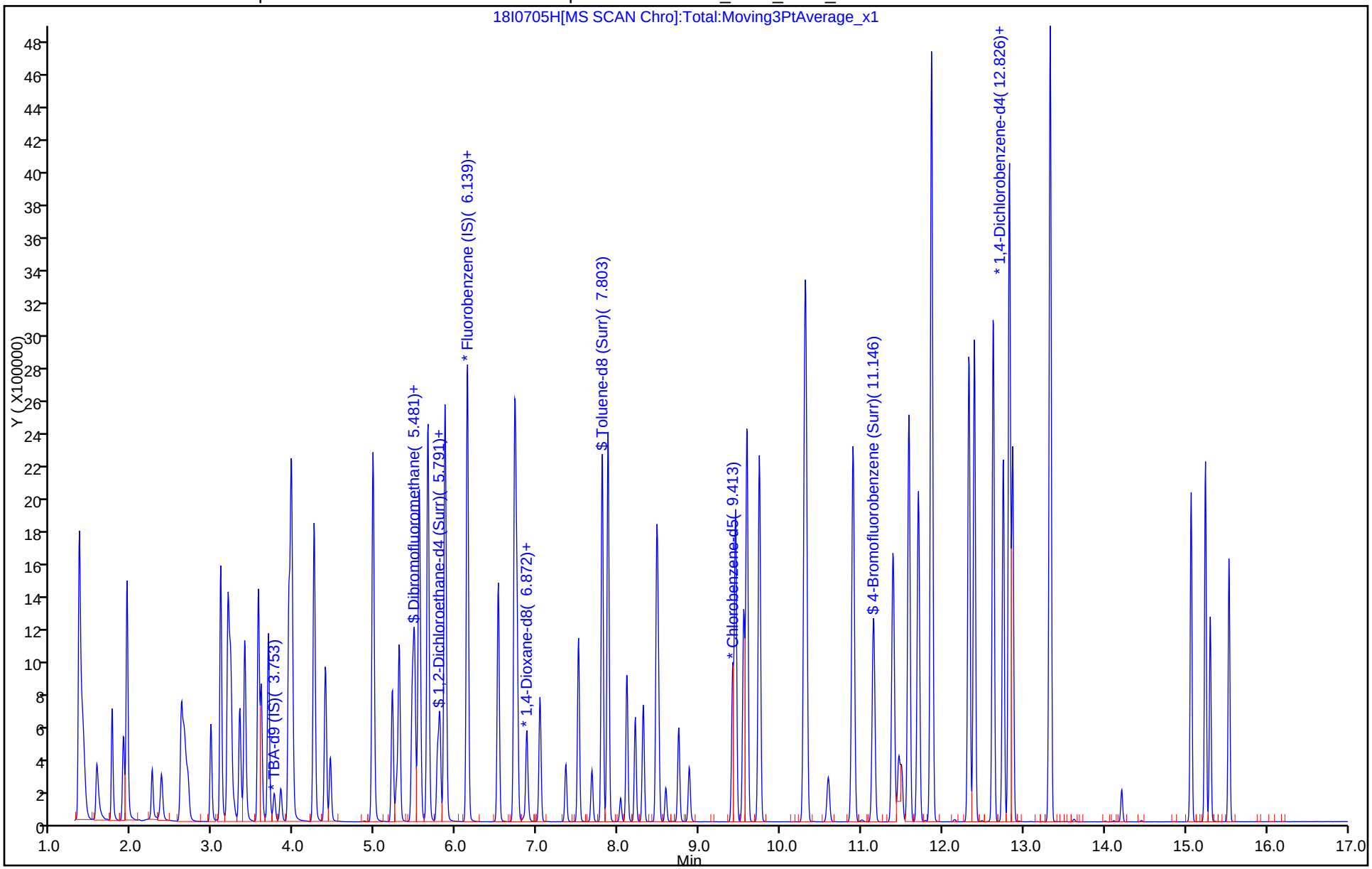
8260 LOWSS1_00133	Amount Added:	10.00	Units: uL
8260/624ACRWK_00334	Amount Added:	5.00	Units: uL
8260/624GASWK_00457	Amount Added:	5.00	Units: uL
8260/624KETWK_00262	Amount Added:	5.00	Units: uL
8260VA/2CEVE_00276	Amount Added:	5.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	5.00	Units: uL

Report Date: 05-Jul-2017 18:05:00 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705H.d

Injection Date:	05-Jul-2017 16:21:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD08			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705I.d
Lims ID: STD09
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 05-Jul-2017 16:46:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD09
Misc. Info.: 500-0046351-010
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:05:05 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:05:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	88	775138	150.0	163.0	
2 Chloromethane	50	1.757	1.752	0.005	89	991831	150.0	146.1	
3 Vinyl chloride	62	1.897	1.891	0.006	83	897571	150.0	154.7	
4 Butadiene	39	1.939	1.940	-0.001	93	996872	150.0	150.4	
5 Bromomethane	94	2.250	2.250	0.000	91	288419	150.0	149.5	
6 Chloroethane	64	2.367	2.362	0.005	91	415683	150.0	143.3	
7 Dichlorofluoromethane	67	2.613	2.608	0.005	83	1129805	150.0	139.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	1059463	150.0	142.7	
10 Ethyl ether	59	2.972	2.972	0.000	98	500438	150.0	154.5	
11 Acrolein	56	3.095	3.095	0.000	96	1915013	6000.0	6202.8	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	693260	150.0	151.7	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	715425	150.0	148.8	
14 Acetone	43	3.261	3.261	0.000	97	105095	150.0	144.9	
15 Iodomethane	142	3.330	3.330	0.000	98	1282816	150.0	152.2	
16 Carbon disulfide	76	3.394	3.389	0.005	99	2278552	150.0	153.1	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	91	404491	150.0	148.9	
20 Methyl acetate	43	3.592	3.593	-0.001	100	1441283	750.0	752.8	
21 Methylene Chloride	84	3.683	3.684	-0.001	92	658706	150.0	150.0	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180577	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	99	330674	1500.0	1506.7	
24 Acrylonitrile	53	3.935	3.935	0.000	98	1497067	1500.0	1491.3	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	717405	150.0	145.4	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	92	1264809	150.0	147.2	
27 Hexane	57	4.250	4.245	0.005	95	1354731	150.0	151.6	
28 1,1-Dichloroethane	63	4.390	4.384	0.006	85	1425060	150.0	151.9	
29 Vinyl acetate	43	4.448	4.449	-0.001	99	904001	150.0	155.8	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	58	768970	150.0	140.3	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	765209	150.0	148.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	42	154325	150.0	148.0	
39 Chlorobromomethane	128	5.213	5.214	-0.001	92	315622	150.0	150.2	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	90	210363	300.0	308.7	
41 Chloroform	83	5.299	5.294	0.005	84	1142376	150.0	148.3	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	65	648559	150.0	154.5	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	90	1028320	150.0	147.5	
44 Cyclohexane	56	5.545	5.545	0.000	94	1678279	150.0	150.2	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	84	903310	150.0	149.9	
46 Carbon tetrachloride	117	5.652	5.652	0.000	74	957861	150.0	154.6	
47 Isobutyl alcohol	43	5.770	5.770	0.000	95	379845	3750.0	3771.2	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.796	5.797	-0.001	0	629613	150.0	153.4	
49 Benzene	78	5.861	5.861	0.000	95	2592258	150.0	150.1	
50 1,2-Dichloroethane	62	5.871	5.872	-0.001	54	802623	150.0	152.6	
53 n-Heptane	43	6.134	6.134	0.000	96	1345711	150.0	152.2	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	68	793160	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	746200	150.0	150.0	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	1372161	150.0	147.1	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	87	693362	150.0	151.6	
* 61 1,4-Dioxane-d8	96	6.834	6.834	0.000	0	18964	1000.0	1000.0	
63 Dibromomethane	93	6.872	6.867	0.005	88	279814	150.0	151.0	
64 1,4-Dioxane	88	6.888	6.888	0.000	63	62699	3000.0	2997.3	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	725445	150.0	157.2	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	224705	150.0	149.4	
68 cis-1,3-Dichloropropene	75	7.508	7.509	-0.001	86	866161	150.0	156.5	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	345903	150.0	150.1	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	95	2347763	150.0	153.7	
71 Toluene	92	7.872	7.872	0.000	91	1530063	150.0	149.5	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	665032	150.0	148.6	
73 Ethyl methacrylate	69	8.209	8.209	0.000	82	436487	150.0	152.6	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	89	353136	150.0	144.4	
75 Tetrachloroethene	166	8.477	8.472	0.005	91	755618	150.0	151.4	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	96	617105	150.0	146.8	
77 2-Hexanone	43	8.584	8.584	0.000	98	222613	150.0	145.8	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	486428	150.0	158.3	
80 Ethylene Dibromide	107	8.873	8.873	0.000	100	362820	150.0	145.9	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	557640	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	1783602	150.0	145.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	665912	150.0	154.4	
85 Ethylbenzene	106	9.589	9.584	0.005	99	1002770	150.0	145.4	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	2365982	150.0	143.8	
87 o-Xylene	91	10.301	10.296	0.005	91	2463745	150.0	145.0	
88 Styrene	104	10.317	10.317	0.000	91	1898183	150.0	144.3	
89 Bromoform	173	10.590	10.590	0.000	97	279997	150.0	161.7	
90 Isopropylbenzene	105	10.895	10.895	0.000	98	3320949	150.0	148.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.146	0.000	89	924613	150.0	155.7	
94 Bromobenzene	156	11.387	11.387	0.000	90	777571	150.0	147.1	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	64	388572	150.0	156.3	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	53	443741	150.0	154.4	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	78	155723	150.0	153.1	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	3801360	150.0	143.5	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	2200917	150.0	159.4	
101 4-Chlorotoluene	91	11.868	11.863	0.005	91	2487588	150.0	142.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	87	2751022	150.0	146.0	
103 tert-Butylbenzene	119	12.328	12.323	0.005	93	2591771	150.0	145.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	2824184	150.0	146.2	
106 sec-Butylbenzene	105	12.628	12.623	0.005	94	3678597	150.0	144.4	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	1572809	150.0	145.2	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	94	3274818	150.0	146.8	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	57	300905	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.863	12.864	-0.001	94	1530441	150.0	145.8	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	77	1330213	150.0	145.2	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	2822903	150.0	145.3	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	59	60110	150.0	154.4	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	90	921392	150.0	147.8	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	600596	150.0	140.6	
119 Naphthalene	128	15.303	15.303	0.000	98	1345710	150.0	153.5	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	93	711241	150.0	147.9	
S 123 Xylenes, Total	100				0			288.7	
S 124 Trihalomethanes, Total	1				0			625.4	
S 125 1,3-Dichloropropene, Total	1				0			305.1	
S 126 Trimethylbenzene, Total	1				0			292.2	
S 127 1,2-Dichloroethene, Total	96				0			294.2	

Reagents:

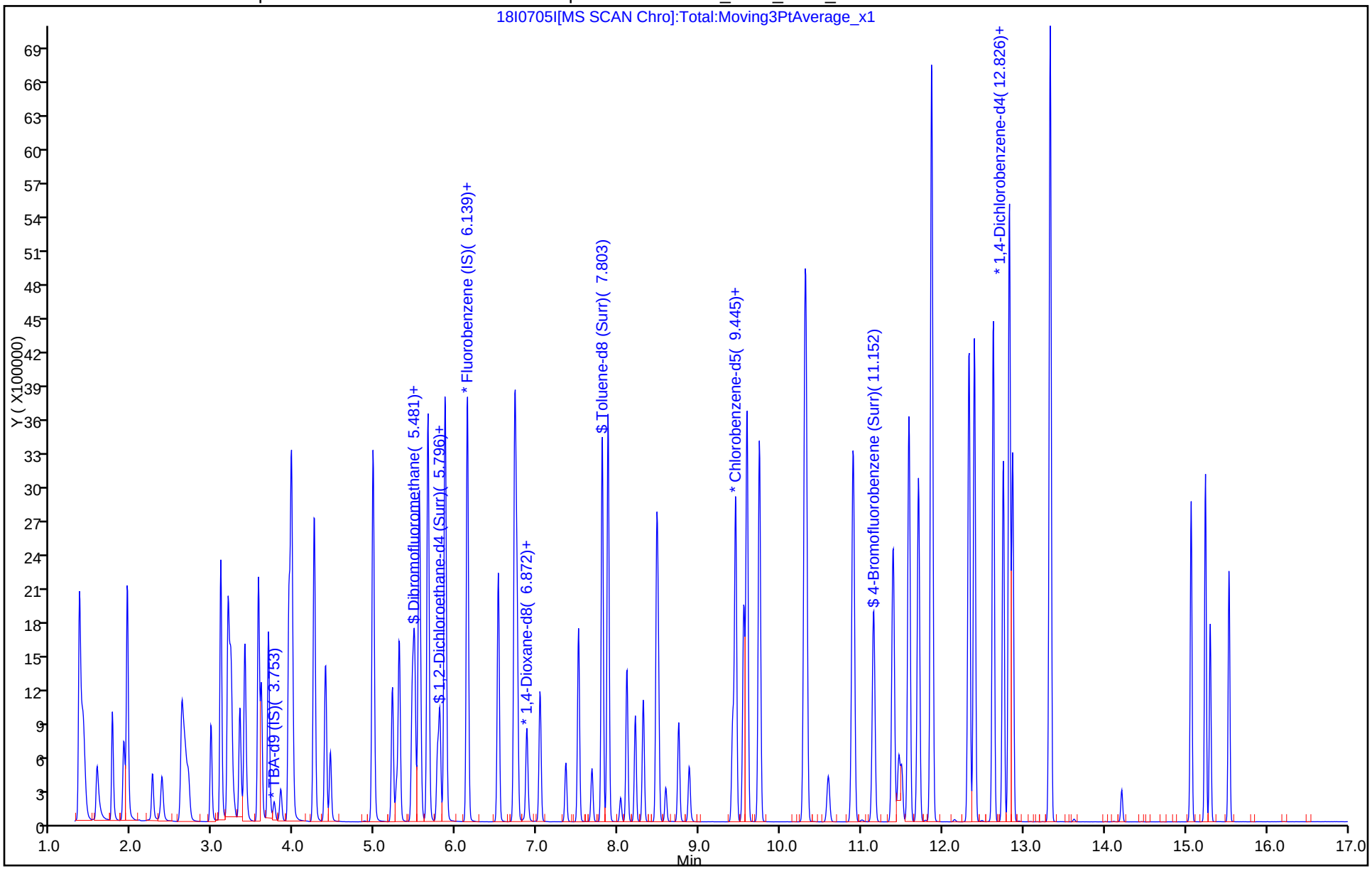
8260 LOWSS1_00133	Amount Added:	15.00	Units: uL
8260/624ACRWK_00334	Amount Added:	7.50	Units: uL
8260/624GASWK_00457	Amount Added:	7.50	Units: uL
8260/624KETWK_00262	Amount Added:	7.50	Units: uL
8260VA/2CEVE_00276	Amount Added:	7.50	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	7.50	Units: uL

Report Date: 05-Jul-2017 18:05:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705I.d

Injection Date:	05-Jul-2017 16:46:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD09			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d
Lims ID: STD10
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 05-Jul-2017 17:12:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD10
Misc. Info.: 500-0046351-011
Operator ID: EA Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:05:10 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:05:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.570	1.565	0.005	88	1061995	200.0	224.7	
2 Chloromethane	50	1.758	1.752	0.006	88	1386497	200.0	205.4	
3 Vinyl chloride	62	1.902	1.891	0.011	82	1227798	200.0	213.1	
4 Butadiene	39	1.940	1.940	0.000	93	1372905	200.0	208.4	
5 Bromomethane	94	2.250	2.250	0.000	90	416245	200.0	217.4	
6 Chloroethane	64	2.368	2.362	0.006	92	599785	200.0	208.1	
7 Dichlorofluoromethane	67	2.614	2.608	0.006	83	1562454	200.0	194.6	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	81	1450310	200.0	196.6	
10 Ethyl ether	59	2.972	2.972	0.000	98	668978	200.0	207.9	
11 Acrolein	56	3.095	3.095	0.000	94	2604613	8000.0	8489.1	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	914221	200.0	201.3	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	84	960098	200.0	200.9	
14 Acetone	43	3.261	3.261	0.000	97	144039	200.0	199.9	
15 Iodomethane	142	3.330	3.330	0.000	98	1694761	200.0	202.3	
16 Carbon disulfide	76	3.395	3.389	0.006	99	3024082	200.0	204.5	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	514612	200.0	190.6	
20 Methyl acetate	43	3.593	3.593	0.000	98	1958229	1000.0	1029.2	
21 Methylene Chloride	84	3.684	3.684	0.000	92	865146	200.0	198.2	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	180156	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.833	3.839	-0.006	98	439795	2000.0	2008.5	
24 Acrylonitrile	53	3.935	3.935	0.000	98	2032201	2000.0	2037.1	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	946972	200.0	193.1	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	92	1697581	200.0	198.8	
27 Hexane	57	4.251	4.245	0.006	95	1797062	200.0	202.4	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	1885420	200.0	202.2	
29 Vinyl acetate	43	4.449	4.449	0.000	99	1230286	200.0	213.4	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	1012515	200.0	198.1	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	58	995454	200.0	182.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.994	-0.005	43	211058	200.0	203.7	
39 Chlorobromomethane	128	5.214	5.214	0.000	91	422477	200.0	202.4	
40 Tetrahydrofuran	42	5.262	5.267	-0.005	91	286010	400.0	423.3	
41 Chloroform	83	5.299	5.294	0.005	84	1511411	200.0	197.4	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	68	838574	200.0	201.0	
43 1,1,1-Trichloroethane	97	5.486	5.481	0.005	89	1372930	200.0	198.2	
44 Cyclohexane	56	5.545	5.545	0.000	93	2254682	200.0	203.0	
45 1,1-Dichloropropene	75	5.652	5.647	0.005	83	1185625	200.0	198.0	
46 Carbon tetrachloride	117	5.652	5.652	0.000	77	1268130	200.0	206.0	
47 Isobutyl alcohol	43	5.770	5.770	0.000	97	516284	5000.0	5137.8	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	835861	200.0	205.0	
49 Benzene	78	5.861	5.861	0.000	95	3386318	200.0	197.3	
50 1,2-Dichloroethane	62	5.877	5.872	0.005	71	1074681	200.0	205.6	
53 n-Heptane	43	6.134	6.134	0.000	96	1765681	200.0	201.0	
* 54 Fluorobenzene (IS)	96	6.144	6.139	0.005	65	788230	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	985429	200.0	199.3	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	1805649	200.0	194.8	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	87	913964	200.0	201.1	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	20646	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	370367	200.0	201.1	
64 1,4-Dioxane	88	6.888	6.888	0.000	62	79073	4000.0	3472.2	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	962188	200.0	209.8	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	306734	200.0	202.9	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	86	1150948	200.0	206.9	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	98	473140	200.0	204.3	
$ 70 Toluene-d8 (Surr)	98	7.803	7.803	0.000	94	3075705	200.0	200.3	
71 Toluene	92	7.872	7.872	0.000	88	2020225	200.0	196.4	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	92	891201	200.0	198.1	
73 Ethyl methacrylate	69	8.209	8.209	0.000	83	585681	200.0	203.9	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	475288	200.0	193.3	
75 Tetrachloroethene	166	8.472	8.472	0.000	91	987214	200.0	196.7	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	95	810185	200.0	191.7	
77 2-Hexanone	43	8.584	8.584	0.000	98	302771	200.0	197.2	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	655275	200.0	212.1	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	486421	200.0	194.6	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	560615	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	96	2316648	200.0	188.3	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	873975	200.0	201.6	
85 Ethylbenzene	106	9.590	9.584	0.006	99	1304396	200.0	188.1	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	98	3093823	200.0	187.0	
87 o-Xylene	91	10.301	10.296	0.005	92	3208794	200.0	187.8	
88 Styrene	104	10.317	10.317	0.000	90	2478330	200.0	187.4	
89 Bromoform	173	10.590	10.590	0.000	98	388152	200.0	223.0	
90 Isopropylbenzene	105	10.900	10.895	0.005	98	4287635	200.0	190.2	
$ 92 4-Bromofluorobenzene (Surr	95	11.152	11.146	0.006	91	1193401	200.0	199.7	
94 Bromobenzene	156	11.387	11.387	0.000	90	1013502	200.0	190.5	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.392	0.006	64	519097	200.0	207.7	
96 1,2,3-Trichloropropane	75	11.462	11.462	0.000	51	597569	200.0	206.6	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.494	0.000	74	204185	200.0	199.5	
98 N-Propylbenzene	91	11.585	11.585	0.000	97	4885915	200.0	183.3	
99 2-Chlorotoluene	91	11.703	11.697	0.006	98	2854571	200.0	205.6	
100 1,3,5-Trimethylbenzene	105	11.863	11.863	0.000	88	3527054	200.0	186.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.869	11.863	0.006	88	3225245	200.0	183.1	
103 tert-Butylbenzene	119	12.329	12.323	0.006	88	3359443	200.0	187.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.393	0.000	65	3642256	200.0	187.4	
106 sec-Butylbenzene	105	12.628	12.623	0.005	94	4697182	200.0	183.2	
107 1,3-Dichlorobenzene	146	12.751	12.746	0.005	98	2039179	200.0	187.1	
108 4-Isopropyltoluene	119	12.826	12.821	0.005	95	4150107	200.0	184.9	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	53	302763	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.869	12.864	0.005	94	1992490	200.0	188.7	
113 1,2-Dichlorobenzene	146	13.324	13.324	0.000	80	1715886	200.0	186.1	
114 n-Butylbenzene	91	13.334	13.329	0.005	97	3553266	200.0	181.8	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	66	81341	200.0	207.7	
117 1,2,4-Trichlorobenzene	180	15.068	15.068	0.000	93	1144526	200.0	182.5	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	93	750421	200.0	174.6	
119 Naphthalene	128	15.303	15.303	0.000	98	1699293	200.0	192.7	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	95	869993	200.0	179.8	
S 123 Xylenes, Total	100				0			374.8	
S 124 Trihalomethanes, Total	1				0			842.3	
S 125 1,3-Dichloropropene, Total	1				0			405.0	
S 126 Trimethylbenzene, Total	1				0			373.4	
S 127 1,2-Dichloroethene, Total	96				0			391.2	

Reagents:

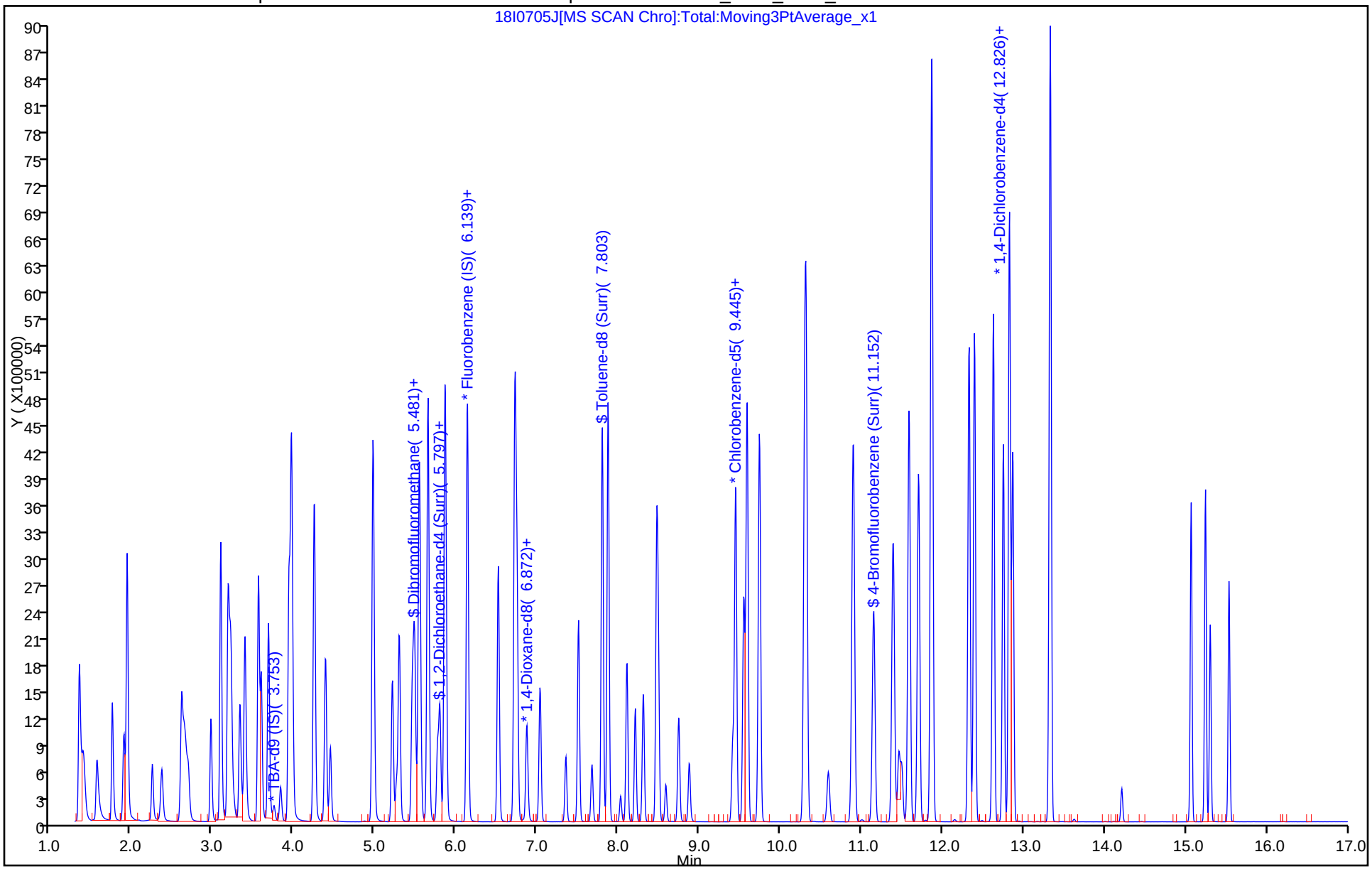
8260 LOWSS1_00133	Amount Added:	20.00	Units: uL
8260/624ACRWK_00334	Amount Added:	10.00	Units: uL
8260/624GASWK_00457	Amount Added:	10.00	Units: uL
8260/624KETWK_00262	Amount Added:	10.00	Units: uL
8260VA/2CEVE_00276	Amount Added:	10.00	Units: uL
8260 LOWIS1_00108	Amount Added:	5.00	Units: uL
8260/624MEGWK_00391	Amount Added:	10.00	Units: uL

Report Date: 05-Jul-2017 18:05:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Injection Date:	05-Jul-2017 17:12:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	STD10			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2998	0.2920	0.0100	48.7	50.0	-2.6	30.0
Chloromethane	Ave	0.4281	0.3997	0.1000	46.7	50.0	-6.6	30.0
Vinyl chloride	Lin2		0.3704	0.0100	50.5	50.0	1.0	30.0
Butadiene	Ave	0.4180	0.3885	0.0100	46.5	50.0	-7.1	30.0
Bromomethane	Lin2		0.1169	0.0100	47.7	50.0	-4.7	30.0
Chloroethane	Ave	0.1829	0.1695	0.0100	46.3	50.0	-7.3	30.0
Dichlorofluoromethane	Ave	0.5092	0.5182	0.0100	50.9	50.0	1.8	30.0
Trichlorofluoromethane	Ave	0.4679	0.4430	0.0100	47.3	50.0	-5.3	30.0
Ethyl ether	Ave	0.2041	0.2052	0.0100	50.3	50.0	0.5	30.0
Acrolein	Ave	0.0195	0.0192	0.0010	1980	2000	-1.2	30.0
1,1-Dichloroethene	Ave	0.2881	0.2728	0.0100	47.4	50.0	-5.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3031	0.2857	0.0100	47.1	50.0	-5.8	30.0
Acetone	Ave	0.0457	0.0473	0.0100	51.7	50.0	3.4	30.0
Iodomethane	Ave	0.5313	0.5202	0.0100	48.9	50.0	-2.1	30.0
Carbon disulfide	Ave	0.9382	0.8937	0.0100	47.6	50.0	-4.7	30.0
3-Chloropropene	Ave	0.1713	0.1610	0.0100	47.0	50.0	-6.0	30.0
Methyl acetate	Ave	0.1207	0.1144	0.0100	237	250	-5.3	30.0
Methylene Chloride	Ave	0.2769	0.2784	0.0100	50.3	50.0	0.5	30.0
tert-Butyl alcohol	Ave	1.215	1.249	0.0100	514	500	2.7	30.0
Acrylonitrile	Ave	0.0633	0.0606	0.0010	479	500	-4.2	30.0
trans-1,2-Dichloroethene	Ave	0.3110	0.2992	0.0100	48.1	50.0	-3.8	30.0
Methyl tert-butyl ether	Ave	0.5416	0.5337	0.0100	49.3	50.0	-1.5	30.0
Hexane	Ave	0.5632	0.5254	0.0100	46.6	50.0	-6.7	30.0
1,1-Dichloroethane	Ave	0.5914	0.5734	0.1000	48.5	50.0	-3.0	30.0
Vinyl acetate	Ave	0.3658	0.3379	0.0100	46.2	50.0	-7.6	30.0
2,2-Dichloropropane	Ave	0.3456	0.3247	0.0100	47.0	50.0	-6.0	30.0
cis-1,2-Dichloroethene	Ave	0.3242	0.3126	0.0100	48.2	50.0	-3.6	30.0
Methyl Ethyl Ketone	Ave	0.0657	0.0688	0.0100	52.3	50.0	4.7	30.0
Bromochloromethane	Ave	0.1324	0.1249	0.0100	47.1	50.0	-5.7	30.0
Tetrahydrofuran	Lin2		0.0410	0.0100	93.6	100	-6.4	30.0
Chloroform	Ave	0.4856	0.4596	0.0100	47.3	50.0	-5.4	30.0
1,1,1-Trichloroethane	Ave	0.4394	0.4141	0.0100	47.1	50.0	-5.8	30.0
Cyclohexane	Ave	0.7044	0.6678	0.0100	47.4	50.0	-5.2	30.0
1,1-Dichloropropene	Ave	0.3798	0.3639	0.0100	47.9	50.0	-4.2	30.0
Carbon tetrachloride	Ave	0.3906	0.3804	0.0100	48.7	50.0	-2.6	30.0
Isobutyl alcohol	Ave	0.5578	0.5501	0.0010	1230	1250	-1.4	30.0
Benzene	Ave	1.089	1.048	0.0100	48.1	50.0	-3.7	30.0
1,2-Dichloroethane	Ave	0.3316	0.3186	0.0100	48.0	50.0	-3.9	30.0
Heptane	Ave	0.5573	0.5113	0.0100	45.9	50.0	-8.3	30.0
Trichloroethene	Ave	0.3137	0.2951	0.0100	47.0	50.0	-5.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5880	0.5515	0.0100	46.9	50.0	-6.2	30.0
1,2-Dichloropropane	Ave	0.2883	0.2805	0.0100	48.7	50.0	-2.7	30.0
Dibromomethane	Ave	0.1168	0.1079	0.0100	46.2	50.0	-7.7	30.0
1,4-Dioxane	Ave	1.103	1.128	0.0010	1020	1000	2.2	30.0
Bromodichloromethane	Ave	0.2909	0.2777	0.0100	47.7	50.0	-4.6	30.0
2-Chloroethyl vinyl ether	Ave	0.1348	0.1332	0.0100	49.4	50.0	-1.2	30.0
cis-1,3-Dichloropropene	Ave	0.4961	0.4686	0.0100	47.2	50.0	-5.5	30.0
methyl isobutyl ketone	Ave	0.2066	0.2308	0.0100	55.9	50.0	11.7	30.0
Toluene	Ave	0.9176	0.8446	0.0100	46.0	50.0	-8.0	30.0
trans-1,3-Dichloropropene	Ave	0.4013	0.3550	0.0100	44.2	50.0	-11.5	30.0
Ethyl methacrylate	Lin2		0.2514	0.0100	48.7	50.0	-2.6	30.0
1,1,2-Trichloroethane	Ave	0.2193	0.2012	0.0100	45.9	50.0	-8.2	30.0
Tetrachloroethene	Ave	0.4475	0.4075	0.0100	45.5	50.0	-9.0	30.0
1,3-Dichloropropane	Ave	0.3769	0.3369	0.0100	44.7	50.0	-10.6	30.0
2-Hexanone	Ave	0.1369	0.1559	0.0100	56.9	50.0	13.8	30.0
Dibromochloromethane	Ave	0.2756	0.2523	0.0100	45.8	50.0	-8.4	30.0
1,2-Dibromoethane	Ave	0.2229	0.2055	0.0100	46.1	50.0	-7.8	30.0
Chlorobenzene	Ave	1.097	1.004	0.3000	45.7	50.0	-8.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3866	0.3726	0.0100	48.2	50.0	-3.6	30.0
Ethylbenzene	Ave	0.6185	0.5694	0.0100	46.0	50.0	-7.9	30.0
m&p-Xylene	Ave	1.475	1.329	0.0100	45.0	50.0	-9.9	30.0
o-Xylene	Ave	1.524	1.409	0.0100	46.2	50.0	-7.5	30.0
Styrene	Ave	1.179	1.091	0.0100	46.2	50.0	-7.5	30.0
Bromoform	Ave	0.1553	0.1455	0.1000	46.8	50.0	-6.3	30.0
Isopropylbenzene	Ave	3.722	3.359	0.0100	45.1	50.0	-9.7	30.0
Bromobenzene	Ave	0.8786	0.7999	0.0100	45.5	50.0	-9.0	30.0
1,1,2,2-Tetrachloroethane	Lin2		0.3999	0.3000	48.1	50.0	-3.8	30.0
1,2,3-Trichloropropane	Ave	0.4777	0.4635	0.0100	48.5	50.0	-3.0	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1690	0.1596	0.0100	47.2	50.0	-5.6	30.0
N-Propylbenzene	Ave	4.401	3.906	0.0100	44.4	50.0	-11.2	30.0
2-Chlorotoluene	Lin2		2.261	0.0100	48.9	50.0	-2.1	30.0
1,3,5-Trimethylbenzene	Ave	3.130	2.879	0.0100	46.0	50.0	-8.0	30.0
4-Chlorotoluene	Ave	2.908	2.594	0.0100	44.6	50.0	-10.8	30.0
tert-Butylbenzene	Ave	2.956	2.680	0.0100	45.3	50.0	-9.3	30.0
1,2,4-Trimethylbenzene	Ave	3.211	2.935	0.0100	45.7	50.0	-8.6	30.0
sec-Butylbenzene	Ave	4.234	3.820	0.0100	45.1	50.0	-9.8	30.0
1,3-Dichlorobenzene	Ave	1.800	1.607	0.0100	44.6	50.0	-10.7	30.0
p-Isopropyltoluene	Ave	3.706	3.412	0.0100	46.0	50.0	-7.9	30.0
1,4-Dichlorobenzene	Ave	1.744	1.595	0.0100	45.7	50.0	-8.5	30.0
1,2-Dichlorobenzene	Ave	1.522	1.401	0.0100	46.0	50.0	-7.9	30.0
n-Butylbenzene	Ave	3.228	2.910	0.0100	45.1	50.0	-9.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: ICV 500-391894/14 Calibration Date: 07/05/2017 18:26

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18S0705ICV1.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0647	0.0603	0.0100	46.6	50.0	-6.8	30.0
1,2,4-Trichlorobenzene	Ave	1.036	0.9580	0.0100	46.2	50.0	-7.5	30.0
Hexachlorobutadiene	Ave	0.7098	0.6503	0.0100	45.8	50.0	-8.4	30.0
Naphthalene	Ave	1.457	1.373	0.0100	47.1	50.0	-5.7	30.0
1,2,3-Trichlorobenzene	Ave	0.7991	0.7788	0.0100	48.7	50.0	-2.5	30.0
Dibromofluoromethane	Ave	0.2646	0.2543	0.0100	48.0	50.0	-3.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.2409	0.0100	46.6	50.0	-6.9	30.0
Toluene-d8 (Surr)	Ave	1.370	1.271	0.0100	46.4	50.0	-7.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.9346	0.0100	47.4	50.0	-5.3	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18S0705ICV1.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 05-Jul-2017 18:26:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV 1
Misc. Info.: 500-0046351-014
Operator ID: EA Instrument ID: CMS18
Sublist:
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 05-Jul-2017 18:50:13 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: alikpalae Date: 05-Jul-2017 18:50:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	86	226273	50.0	48.7	
2 Chloromethane	50	1.758	1.752	0.006	89	309726	50.0	46.7	
3 Vinyl chloride	62	1.891	1.891	0.000	83	286985	50.0	50.5	
4 Butadiene	39	1.939	1.940	-0.001	93	301021	50.0	46.5	
5 Bromomethane	94	2.250	2.250	0.000	90	90546	50.0	47.7	
6 Chloroethane	64	2.367	2.362	0.005	91	131305	50.0	46.3	
7 Dichlorofluoromethane	67	2.608	2.608	0.000	83	401573	50.0	50.9	
8 Trichlorofluoromethane	101	2.646	2.646	0.000	80	343254	50.0	47.3	
10 Ethyl ether	59	2.977	2.972	0.005	97	158994	50.0	50.3	
11 Acrolein	56	3.095	3.095	0.000	95	596015	2000.0	1976.0	
12 1,1-Dichloroethene	96	3.186	3.181	0.005	85	211424	50.0	47.4	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	83	221349	50.0	47.1	
14 Acetone	43	3.261	3.261	0.000	97	36629	50.0	51.7	
15 Iodomethane	142	3.330	3.330	0.000	98	403056	50.0	48.9	
16 Carbon disulfide	76	3.389	3.389	0.000	99	692541	50.0	47.6	
19 3-Chloro-1-propene	76	3.560	3.560	0.000	92	124779	50.0	47.0	
20 Methyl acetate	43	3.598	3.593	0.005	98	443049	250.0	236.9	
21 Methylene Chloride	84	3.683	3.683	-0.001	93	215692	50.0	50.3	
* 22 TBA-d9 (IS)	65	3.753	3.753	0.000	0	175585	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.839	3.844	0.000	98	109636	500.0	513.7	
24 Acrylonitrile	53	3.935	3.935	0.000	98	469707	500.0	478.9	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	88	231852	50.0	48.1	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	93	413516	50.0	49.3	
27 Hexane	57	4.245	4.245	0.000	95	407146	50.0	46.6	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	444312	50.0	48.5	
29 Vinyl acetate	43	4.449	4.448	-0.001	99	261850	50.0	46.2	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	59	251593	50.0	47.0	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	84	242217	50.0	48.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.994	4.994	0.000	63	53306	50.0	52.3	
39 Chlorobromomethane	128	5.214	5.214	0.000	92	96753	50.0	47.1	
40 Tetrahydrofuran	42	5.267	5.267	0.000	86	63582	100.0	93.6	
41 Chloroform	83	5.299	5.294	0.005	84	356098	50.0	47.3	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	58	197027	50.0	48.0	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	89	320856	50.0	47.1	
44 Cyclohexane	56	5.545	5.545	0.000	94	517488	50.0	47.4	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	83	281968	50.0	47.9	
46 Carbon tetrachloride	117	5.652	5.652	0.000	76	294765	50.0	48.7	
47 Isobutyl alcohol	43	5.770	5.778	0.000	96	120745	1250.0	1232.9	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	186691	50.0	46.6	
49 Benzene	78	5.861	5.861	0.000	96	812290	50.0	48.1	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	55	246848	50.0	48.0	
53 n-Heptane	43	6.134	6.134	0.000	79	396182	50.0	45.9	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	94	774889	50.0	50.0	
56 Trichloroethene	130	6.519	6.519	0.000	90	228678	50.0	47.0	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	427327	50.0	46.9	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	88	217391	50.0	48.7	
* 61 1,4-Dioxane-d8	96	6.829	6.834	-0.005	0	18363	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	90	83580	50.0	46.2	
64 1,4-Dioxane	88	6.883	6.883	-0.005	49	20710	1000.0	1022.5	
65 Dichlorobromomethane	83	7.032	7.032	0.000	91	215163	50.0	47.7	
67 2-Chloroethyl vinyl ether	63	7.353	7.353	0.000	92	74010	50.0	49.4	
68 cis-1,3-Dichloropropene	75	7.509	7.509	0.000	85	260439	50.0	47.2	
69 4-Methyl-2-pentanone (MIBK	43	7.674	7.674	0.000	97	128264	50.0	55.9	
$ 70 Toluene-d8 (Surr)	98	7.797	7.803	-0.006	95	706171	50.0	46.4	
71 Toluene	92	7.872	7.872	0.000	91	469396	50.0	46.0	
72 trans-1,3-Dichloropropene	75	8.108	8.108	0.000	93	197296	50.0	44.2	
73 Ethyl methacrylate	69	8.209	8.209	0.000	84	139741	50.0	48.7	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	88	111838	50.0	45.9	
75 Tetrachloroethene	166	8.471	8.471	-0.001	90	226452	50.0	45.5	
76 1,3-Dichloropropane	76	8.493	8.493	0.000	97	187232	50.0	44.7	
77 2-Hexanone	43	8.584	8.584	0.000	98	86636	50.0	56.9	
79 Chlorodibromomethane	129	8.744	8.744	0.000	89	140223	50.0	45.8	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	114194	50.0	46.1	
* 81 Chlorobenzene-d5	117	9.413	9.413	0.000	86	555755	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	557899	50.0	45.7	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.547	0.000	90	207093	50.0	48.2	
85 Ethylbenzene	106	9.584	9.584	0.000	99	316461	50.0	46.0	
86 m-Xylene & p-Xylene	91	9.739	9.739	0.000	97	738658	50.0	45.0	
87 o-Xylene	91	10.296	10.296	0.000	93	783156	50.0	46.2	
88 Styrene	104	10.317	10.317	0.000	92	606139	50.0	46.2	
89 Bromoform	173	10.590	10.590	0.000	98	80844	50.0	46.8	
90 Isopropylbenzene	105	10.895	10.899	0.000	98	1045747	50.0	45.1	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.151	0.000	90	290937	50.0	47.4	
94 Bromobenzene	156	11.387	11.392	0.000	90	248989	50.0	45.5	
95 1,1,2,2-Tetrachloroethane	83	11.398	11.397	0.006	64	124477	50.0	48.1	
96 1,2,3-Trichloropropane	75	11.462	11.467	0.000	50	144270	50.0	48.5	
97 trans-1,4-Dichloro-2-buten	53	11.494	11.499	0.000	69	49680	50.0	47.2	
98 N-Propylbenzene	91	11.585	11.590	0.000	97	1215984	50.0	44.4	
99 2-Chlorotoluene	91	11.703	11.702	0.006	98	703837	50.0	48.9	
101 4-Chlorotoluene	91	11.869	11.868	0.006	93	807562	50.0	44.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,3,5-Trimethylbenzene	105	11.863	11.868	0.000	87	896129	50.0	46.0	
103 tert-Butylbenzene	119	12.323	12.328	0.000	89	834297	50.0	45.3	
105 1,2,4-Trimethylbenzene	105	12.393	12.398	0.000	66	913765	50.0	45.7	
106 sec-Butylbenzene	105	12.623	12.628	0.000	94	1189197	50.0	45.1	
107 1,3-Dichlorobenzene	146	12.746	12.751	0.000	97	500307	50.0	44.6	
108 4-Isopropyltoluene	119	12.821	12.826	0.000	96	1062237	50.0	46.0	
* 109 1,4-Dichlorobenzene-d4	152	12.837	12.832	0.005	96	311287	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.869	0.000	94	496520	50.0	45.7	
113 1,2-Dichlorobenzene	146	13.324	13.329	0.000	76	436255	50.0	46.0	
114 n-Butylbenzene	91	13.329	13.335	0.000	98	905937	50.0	45.1	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.218	0.000	51	18757	50.0	46.6	
117 1,2,4-Trichlorobenzene	180	15.068	15.074	0.000	93	298203	50.0	46.2	
118 Hexachlorobutadiene	225	15.244	15.251	0.000	93	202436	50.0	45.8	
119 Naphthalene	128	15.303	15.309	0.000	99	427430	50.0	47.1	
120 1,2,3-Trichlorobenzene	180	15.533	15.540	0.000	93	242437	50.0	48.7	
S 123 Xylenes, Total	100				0		100.0	91.3	
S 127 1,2-Dichloroethene, Total	96				0		100.0	96.3	

Reagents:

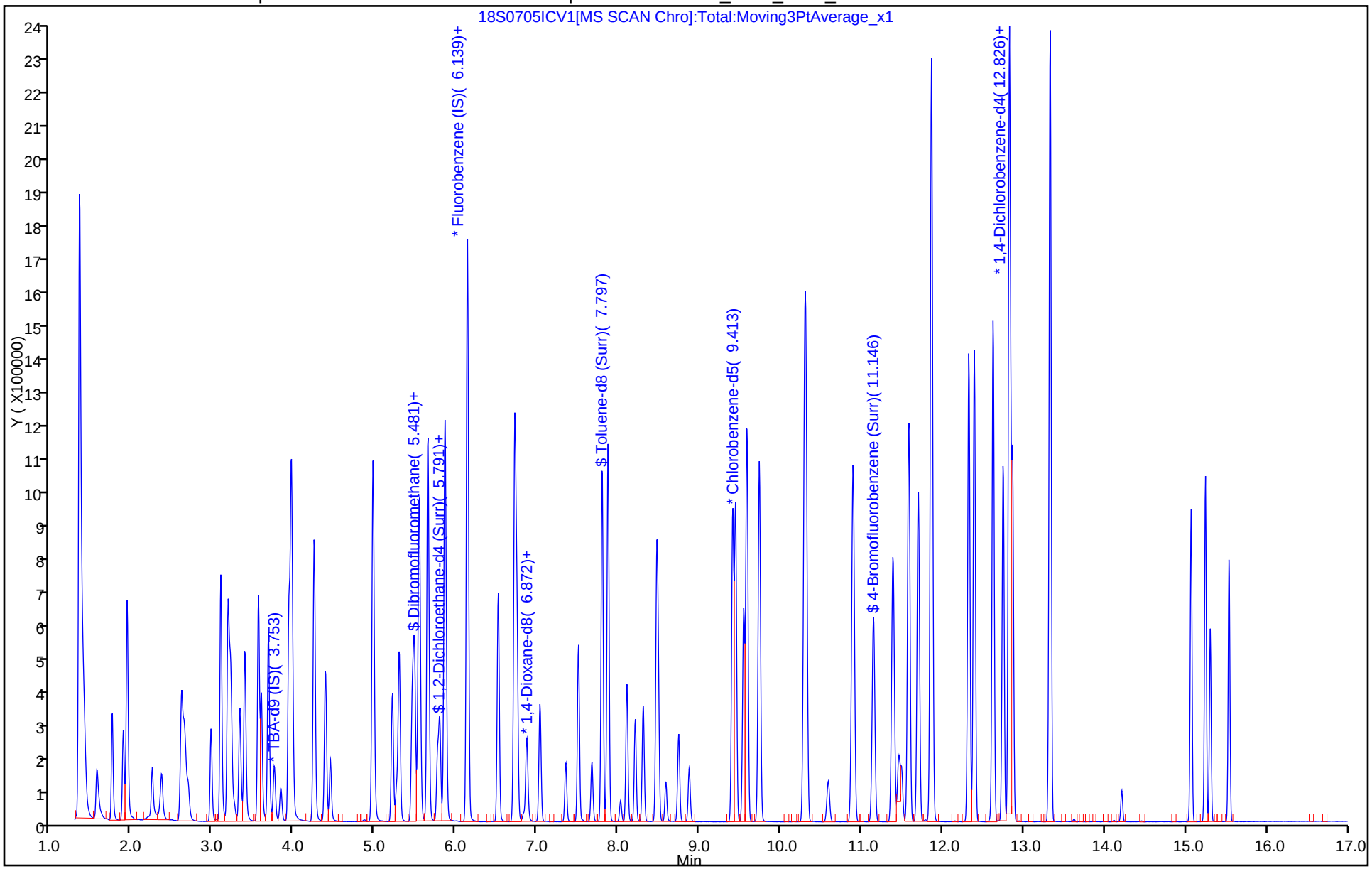
8260 MEGA SPK_00104	Amount Added:	5.00	Units: uL	
8260 KET SPK_00100	Amount Added:	5.00	Units: uL	
8260 ACR SPK_00129	Amount Added:	5.00	Units: uL	
8260 GAS SPK_00129	Amount Added:	5.00	Units: uL	
VA/2CEVE SPK_00114	Amount Added:	5.00	Units: uL	
8260LOW IS/SS_00146	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Jul-2017 18:50:14 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18S0705ICV1.d

Injection Date:	05-Jul-2017 18:26:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	ICV			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: CCV 500-409330/3 Calibration Date: 11/10/2017 08:34

Instrument ID: CMS18 Calib Start Date: 06/30/2017 18:41

GC Column: DB624 ID: 0.20(mm) Calib End Date: 06/30/2017 22:00

Lab File ID: 18D1110.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1		0.2215	0.0010	2590	2000	29.6	50.0
Isopropyl alcohol	Ave	0.9581	0.9805	0.0010	512	500	2.3	50.0
Acetonitrile	Ave	0.0230	0.0191	0.0010	415	500	-17.0	50.0
Isopropyl ether	Ave	1.174	1.072	0.0100	45.6	50.0	-8.8	50.0
2-Chloro-1,3-butadiene	Ave	0.6406	0.6370	0.0100	49.7	50.0	-0.6	50.0
Tert-butyl ethyl ether	Ave	0.8952	0.6859	0.0010	38.3	50.0	-23.4	50.0
Propionitrile	Ave	0.0219	0.0179	0.0010	408	500	-18.4	50.0
Ethyl acetate	Ave	0.1396	0.1070	0.0100	76.6	100	-23.4	50.0
Methacrylonitrile	Ave	0.1095	0.0868	0.0100	396	500	-20.7	50.0
Isooctane	Ave	1.641	1.822	0.0100	55.5	50.0	11.0	50.0
Tert-amyl methyl ether	Ave	0.5850	0.4268	0.0100	36.5	50.0	-27.0	50.0
n-Butyl alcohol	Ave	0.3693	0.3678	0.0010	1240	1250	-0.4	50.0
Ethyl acrylate	Ave	0.1844	0.1542	0.0010	41.8	50.0	-16.4	50.0
2,3-Dichloro-1-propene	Ave	0.3684	0.3728	0.0010	50.6	50.0	1.2	50.0
Methyl methacrylate	Ave	0.1493	0.1238	0.0100	82.9	100	-17.1	50.0
2-Nitropropane	Ave	0.0682	0.0312	0.0100	45.8	100	-54.2*	50.0
n-Butyl acetate	Ave	0.4169	0.2748	0.0010	33.0	50.0	-34.1	50.0
1-Chlorohexane	Ave	0.5127	0.5764	0.0100	56.2	50.0	12.4	50.0
Cyclohexanone	Ave	0.0135	0.0093*	0.0100	3460	5000	-30.9	50.0
2-Ethyltoluene	Ave	3.530	4.293	0.0010	60.8	50.0	21.6	50.0
Pentachloroethane	Ave	0.3740	0.4044	0.0100	54.1	50.0	8.1	50.0
1,2,3-Trimethylbenzene	Ave	2.786	3.020	0.0010	54.2	50.0	8.4	50.0
Benzyl chloride	Ave	0.1985	0.1103	0.0010	27.8	50.0	-44.4	50.0
1,3,5-Trichlorobenzene	Ave	1.227	1.303	0.0100	53.1	50.0	6.2	50.0
2-Methylnaphthalene	Lin1		0.2401	0.0100	18.4	50.0	-63.3*	50.0
1-Methylnaphthalene	Lin1		0.1946	0.0100	19.9	50.0	-60.1*	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18D1110.d
Lims ID: CCV IX
Client ID:
Sample Type: CCV
Inject. Date: 10-Nov-2017 08:34:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV IX
Misc. Info.: 500-0048968-003
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub50
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 10-Nov-2017 11:29:49 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: huntjj Date: 10-Nov-2017 11:29:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.892	2.897	-0.005	96	44341	2000.0	2592.0	
17 Isopropyl alcohol	45	3.416	3.421	-0.005	95	49070	500.0	511.7	
18 Acetonitrile	41	3.534	3.534	0.000	99	146675	500.0	415.1	
* 22 TBA-d9 (IS)	65	3.737	3.742	-0.005	0	100094	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	96	824643	50.0	45.6	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	95	490162	50.0	49.7	
32 Tert-butyl ethyl ether	59	4.828	4.834	-0.006	98	527795	50.0	38.3	
36 Propionitrile	54	5.042	5.042	0.000	99	137642	500.0	407.8	
37 Ethyl acetate	43	5.053	5.053	0.000	99	164600	100.0	76.6	
38 Methacrylonitrile	41	5.197	5.197	0.000	96	667992	500.0	396.5	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	180758	50.0	44.4	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	155863	50.0	39.2	
51 Isooctane	57	5.946	5.946	0.000	97	1402141	50.0	55.5	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	88	328460	50.0	36.5	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	769530	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	93	46017	1250.0	1244.9	
57 Ethyl acrylate	55	6.626	6.626	0.000	97	118656	50.0	41.8	
60 2,3-Dichloro-1-propene	75	6.792	6.797	-0.005	93	286881	50.0	50.6	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	14050	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	0.001	86	190478	100.0	82.9	
66 2-Nitropropane	43	7.268	7.268	0.000	94	38077	100.0	45.8	
$ 70 Toluene-d8 (Surr)	98	7.797	7.798	-0.001	94	749678	50.0	44.9	
78 n-Butyl acetate	43	8.728	8.728	0.000	97	167443	50.0	33.0	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	86	609394	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	91	351236	50.0	56.2	
91 Cyclohexanone	55	11.029	11.029	0.000	92	290124	5000.0	3456.6	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.141	0.005	93	286168	50.0	46.6	
102 2-Ethyltoluene	105	12.147	12.147	0.000	98	1336490	50.0	60.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Pentachloroethane	167	12.334	12.334	0.000	86	125924	50.0	54.1	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	94	311352	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.938	0.006	94	940285	50.0	54.2	
112 Benzyl chloride	126	13.040	13.040	0.000	97	34351	50.0	27.8	
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	97	405610	50.0	53.1	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	89	74769	50.0	18.4	
122 1-Methylnaphthalene	142	16.539	16.539	0.000	91	60585	50.0	19.9	

Reagents:

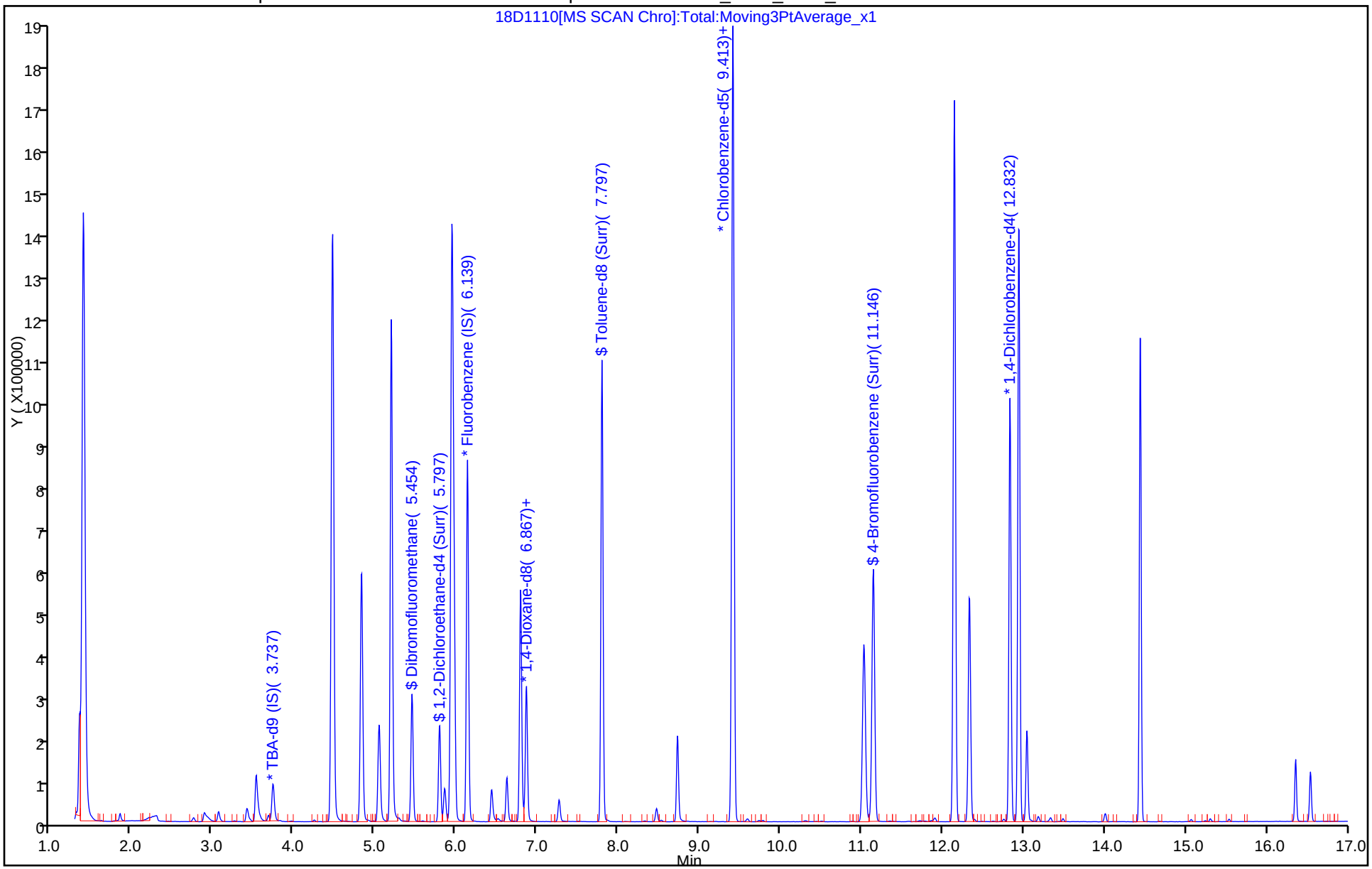
8260 23DCP WK_00106	Amount Added:	2.50	Units: uL	
8260/624STD2_00172	Amount Added:	2.50	Units: uL	
8260ADDS 2016_00056	Amount Added:	2.50	Units: uL	
8260CYCHXWK_00177	Amount Added:	2.50	Units: uL	
8260POLR ADDS_00131	Amount Added:	2.50	Units: uL	
2ETTOL WK STD_00041	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00156	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Nov-2017 11:29:50 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18D1110.d

Injection Date:	10-Nov-2017 08:34:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	CCV IX			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: CCV 500-409330/3 Calibration Date: 11/10/2017 08:34

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18D1110.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane	Ave	0.2646	0.2349	0.0100	44.4	50.0	-11.2	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.2025	0.0100	39.2	50.0	-21.7	50.0
Toluene-d8 (Surr)	Ave	1.370	1.230	0.0100	44.9	50.0	-10.2	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.9191	0.0100	46.6	50.0	-6.9	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18D1110.d
Lims ID: CCV IX
Client ID:
Sample Type: CCV
Inject. Date: 10-Nov-2017 08:34:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV IX
Misc. Info.: 500-0048968-003
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub50
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 10-Nov-2017 11:29:49 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: huntjj Date: 10-Nov-2017 11:29:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
9 Ethanol	45	2.892	2.897	-0.005	96	44341	2000.0	2592.0	
17 Isopropyl alcohol	45	3.416	3.421	-0.005	95	49070	500.0	511.7	
18 Acetonitrile	41	3.534	3.534	0.000	99	146675	500.0	415.1	
* 22 TBA-d9 (IS)	65	3.737	3.742	-0.005	0	100094	1000.0	1000.0	
30 Isopropyl ether	45	4.470	4.470	0.000	96	824643	50.0	45.6	
31 2-Chloro-1,3-butadiene	53	4.481	4.481	0.000	95	490162	50.0	49.7	
32 Tert-butyl ethyl ether	59	4.828	4.834	-0.006	98	527795	50.0	38.3	
36 Propionitrile	54	5.042	5.042	0.000	99	137642	500.0	407.8	
37 Ethyl acetate	43	5.053	5.053	0.000	99	164600	100.0	76.6	
38 Methacrylonitrile	41	5.197	5.197	0.000	96	667992	500.0	396.5	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	180758	50.0	44.4	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	155863	50.0	39.2	
51 Isooctane	57	5.946	5.946	0.000	97	1402141	50.0	55.5	
52 Tert-amyl methyl ether	73	5.973	5.973	0.000	88	328460	50.0	36.5	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	769530	50.0	50.0	
55 n-Butanol	56	6.439	6.439	0.000	93	46017	1250.0	1244.9	
57 Ethyl acrylate	55	6.626	6.626	0.000	97	118656	50.0	41.8	
60 2,3-Dichloro-1-propene	75	6.792	6.797	-0.005	93	286881	50.0	50.6	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	14050	1000.0	1000.0	
62 Methyl methacrylate	41	6.867	6.867	0.001	86	190478	100.0	82.9	
66 2-Nitropropane	43	7.268	7.268	0.000	94	38077	100.0	45.8	
$ 70 Toluene-d8 (Surr)	98	7.797	7.798	-0.001	94	749678	50.0	44.9	
78 n-Butyl acetate	43	8.728	8.728	0.000	97	167443	50.0	33.0	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	86	609394	50.0	50.0	
82 1-Chlorohexane	91	9.418	9.418	0.000	91	351236	50.0	56.2	
91 Cyclohexanone	55	11.029	11.029	0.000	92	290124	5000.0	3456.6	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.141	0.005	93	286168	50.0	46.6	
102 2-Ethyltoluene	105	12.147	12.147	0.000	98	1336490	50.0	60.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Pentachloroethane	167	12.334	12.334	0.000	86	125924	50.0	54.1	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	94	311352	50.0	50.0	
111 1,2,3-Trimethylbenzene	105	12.944	12.938	0.006	94	940285	50.0	54.2	
112 Benzyl chloride	126	13.040	13.040	0.000	97	34351	50.0	27.8	
116 1,3,5-Trichlorobenzene	180	14.442	14.442	0.000	97	405610	50.0	53.1	
121 2-Methylnaphthalene	142	16.357	16.357	0.000	89	74769	50.0	18.4	
122 1-Methylnaphthalene	142	16.539	16.539	0.000	91	60585	50.0	19.9	

Reagents:

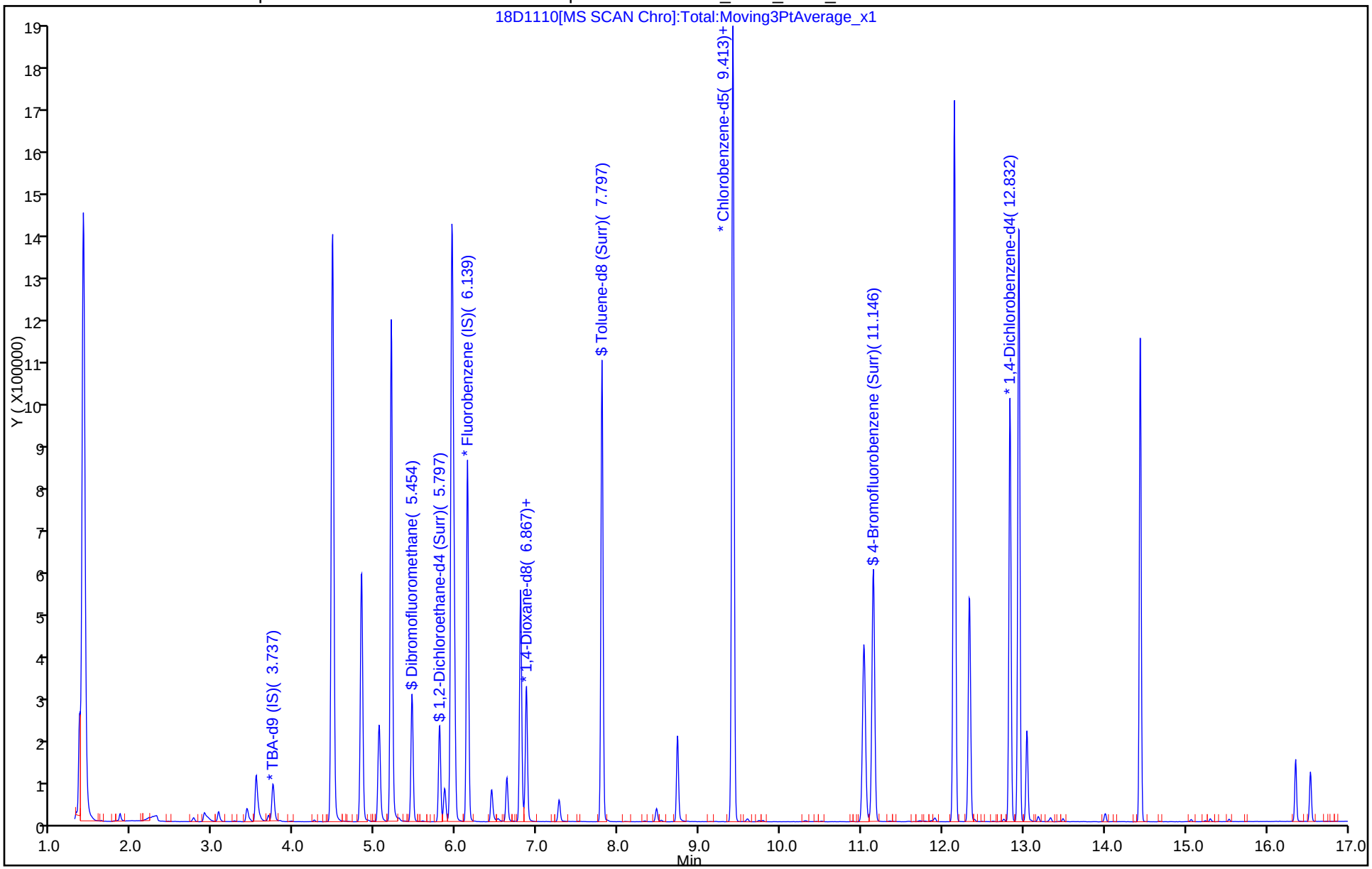
8260 23DCP WK_00106	Amount Added:	2.50	Units: uL	
8260/624STD2_00172	Amount Added:	2.50	Units: uL	
8260ADDS 2016_00056	Amount Added:	2.50	Units: uL	
8260CYCHXWK_00177	Amount Added:	2.50	Units: uL	
8260POLR ADDS_00131	Amount Added:	2.50	Units: uL	
2ETTOL WK STD_00041	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00156	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Nov-2017 11:29:50 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18D1110.d

Injection Date:	10-Nov-2017 08:34:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	CCV IX			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: CCVIS 500-409330/7 Calibration Date: 11/10/2017 09:00

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1110A.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2998	0.2804	0.0100	46.8	50.0	-6.5	50.0
Chloromethane	Ave	0.4281	0.4649	0.1000	54.3	50.0	8.6	50.0
Vinyl chloride	Lin2		0.3826	0.0100	52.2	50.0	4.4	20.0
Butadiene	Ave	0.4180	0.4434	0.0100	53.0	50.0	6.1	50.0
Bromomethane	Lin2		0.1637	0.0100	67.0	50.0	33.9	50.0
Chloroethane	Ave	0.1829	0.2380	0.0100	65.1	50.0	30.1	50.0
Dichlorofluoromethane	Ave	0.5092	0.5446	0.0100	53.5	50.0	6.9	50.0
Trichlorofluoromethane	Ave	0.4679	0.4782	0.0100	51.1	50.0	2.2	50.0
Ethyl ether	Ave	0.2041	0.1627	0.0100	39.9	50.0	-20.3	50.0
Acrolein	Ave	0.0195	0.0194	0.0010	1990	2000	-0.6	50.0
1,1-Dichloroethene	Ave	0.2881	0.3045	0.0100	52.9	50.0	5.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3031	0.3431	0.0100	56.6	50.0	13.2	50.0
Acetone	Ave	0.0457	0.0445	0.0100	48.6	50.0	-2.7	50.0
Iodomethane	Ave	0.5313	0.5637	0.0100	53.0	50.0	6.1	50.0
Carbon disulfide	Ave	0.9382	0.9878	0.0100	52.6	50.0	5.3	50.0
3-Chloropropene	Ave	0.1713	0.1760	0.0100	51.4	50.0	2.8	50.0
Methyl acetate	Ave	0.1207	0.0961	0.0100	79.6	100	-20.4	50.0
Methylene Chloride	Ave	0.2769	0.2822	0.0100	51.0	50.0	1.9	50.0
tert-Butyl alcohol	Ave	1.215	1.212	0.0100	499	500	-0.3	50.0
Acrylonitrile	Ave	0.0633	0.0524	0.0010	414	500	-17.1	50.0
trans-1,2-Dichloroethene	Ave	0.3110	0.3248	0.0100	52.2	50.0	4.4	50.0
Methyl tert-butyl ether	Ave	0.5416	0.4263	0.0100	39.4	50.0	-21.3	50.0
Hexane	Ave	0.5632	0.5885	0.0100	52.3	50.0	4.5	50.0
1,1-Dichloroethane	Ave	0.5914	0.5574	0.1000	47.1	50.0	-5.7	50.0
Vinyl acetate	Ave	0.3658	0.2444	0.0100	33.4	50.0	-33.2	50.0
2,2-Dichloropropane	Ave	0.3456	0.3870	0.0100	56.0	50.0	12.0	50.0
cis-1,2-Dichloroethene	Ave	0.3242	0.3043	0.0100	46.9	50.0	-6.1	50.0
Methyl Ethyl Ketone	Ave	0.0657	0.0525	0.0100	40.0	50.0	-20.1	50.0
Bromochloromethane	Ave	0.1324	0.1156	0.0100	43.7	50.0	-12.7	50.0
Tetrahydrofuran	Lin2		0.0345	0.0100	78.2	100	-21.8	50.0
Chloroform	Ave	0.4856	0.4386	0.0100	45.2	50.0	-9.7	20.0
1,1,1-Trichloroethane	Ave	0.4394	0.4497	0.0100	51.2	50.0	2.4	50.0
Cyclohexane	Ave	0.7044	0.7885	0.0100	56.0	50.0	11.9	50.0
1,1-Dichloropropene	Ave	0.3798	0.3835	0.0100	50.5	50.0	1.0	50.0
Carbon tetrachloride	Ave	0.3906	0.4184	0.0100	53.6	50.0	7.1	50.0
Isobutyl alcohol	Ave	0.5578	0.6376	0.0010	1430	1250	14.3	50.0
Benzene	Ave	1.089	1.051	0.0100	48.3	50.0	-3.5	50.0
1,2-Dichloroethane	Ave	0.3316	0.2391	0.0100	36.1	50.0	-27.9	50.0
Heptane	Ave	0.5573	0.6251	0.0100	56.1	50.0	12.1	50.0
Trichloroethene	Ave	0.3137	0.3052	0.0100	48.7	50.0	-2.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: CCVIS 500-409330/7 Calibration Date: 11/10/2017 09:00

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1110A.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	0.5880	0.6296	0.0100	53.5	50.0	7.1	50.0
1,2-Dichloropropane	Ave	0.2883	0.2566	0.0100	44.5	50.0	-11.0	20.0
Dibromomethane	Ave	0.1168	0.0942	0.0100	40.3	50.0	-19.3	50.0
1,4-Dioxane	Ave	1.103	1.042	0.0010	944	1000	-5.6	50.0
Bromodichloromethane	Ave	0.2909	0.2330	0.0100	40.1	50.0	-19.9	50.0
2-Chloroethyl vinyl ether	Ave	0.1348	0.0777	0.0100	28.8	50.0	-42.4	50.0
cis-1,3-Dichloropropene	Ave	0.4961	0.3497	0.0100	35.2	50.0	-29.5	50.0
methyl isobutyl ketone	Ave	0.2066	0.1552	0.0100	37.6	50.0	-24.9	50.0
Toluene	Ave	0.9176	0.8320	0.0100	45.3	50.0	-9.3	20.0
trans-1,3-Dichloropropene	Ave	0.4013	0.2657	0.0100	33.1	50.0	-33.8	50.0
Ethyl methacrylate	Lin2		0.1806	0.0100	34.8	50.0	-30.3	50.0
1,1,2-Trichloroethane	Ave	0.2193	0.1527	0.0100	34.8	50.0	-30.4	50.0
Tetrachloroethene	Ave	0.4475	0.4251	0.0100	47.5	50.0	-5.0	50.0
1,3-Dichloropropane	Ave	0.3769	0.2775	0.0100	36.8	50.0	-26.4	50.0
2-Hexanone	Ave	0.1369	0.1000	0.0100	36.5	50.0	-26.9	50.0
Dibromochloromethane	Ave	0.2756	0.1979	0.0100	35.9	50.0	-28.2	50.0
1,2-Dibromoethane	Ave	0.2229	0.1568	0.0100	35.2	50.0	-29.7	50.0
Chlorobenzene	Ave	1.097	1.015	0.3000	46.2	50.0	-7.5	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3866	0.3240	0.0100	41.9	50.0	-16.2	50.0
Ethylbenzene	Ave	0.6185	0.5897	0.0100	47.7	50.0	-4.7	20.0
m&p-Xylene	Ave	1.475	1.465	0.0100	49.7	50.0	-0.7	50.0
o-Xylene	Ave	1.524	1.482	0.0100	48.6	50.0	-2.8	50.0
Styrene	Ave	1.179	1.103	0.0100	46.8	50.0	-6.5	50.0
Bromoform	Ave	0.1553	0.1079	0.1000	34.7	50.0	-30.5	50.0
Isopropylbenzene	Ave	3.722	3.689	0.0100	49.6	50.0	-0.9	50.0
Bromobenzene	Ave	0.8786	0.7749	0.0100	44.1	50.0	-11.8	50.0
1,1,2,2-Tetrachloroethane	Lin2		0.3047	0.3000	36.5	50.0	-26.9	50.0
1,2,3-Trichloropropane	Ave	0.4777	0.3461	0.0100	36.2	50.0	-27.6	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1690	0.1049	0.0100	31.0	50.0	-37.9	50.0
N-Propylbenzene	Ave	4.401	4.438	0.0100	50.4	50.0	0.8	50.0
2-Chlorotoluene	Lin2		2.442	0.0100	52.9	50.0	5.8	50.0
1,3,5-Trimethylbenzene	Ave	3.130	3.067	0.0100	49.0	50.0	-2.0	50.0
4-Chlorotoluene	Ave	2.908	2.769	0.0100	47.6	50.0	-4.8	50.0
tert-Butylbenzene	Ave	2.956	2.851	0.0100	48.2	50.0	-3.5	50.0
1,2,4-Trimethylbenzene	Ave	3.211	3.040	0.0100	47.3	50.0	-5.3	50.0
sec-Butylbenzene	Ave	4.234	4.172	0.0100	49.3	50.0	-1.5	50.0
1,3-Dichlorobenzene	Ave	1.800	1.590	0.0100	44.2	50.0	-11.7	50.0
p-Isopropyltoluene	Ave	3.706	3.602	0.0100	48.6	50.0	-2.8	50.0
1,4-Dichlorobenzene	Ave	1.744	1.548	0.0100	44.4	50.0	-11.3	50.0
1,2-Dichlorobenzene	Ave	1.522	1.293	0.0100	42.5	50.0	-15.1	50.0
n-Butylbenzene	Ave	3.228	3.162	0.0100	49.0	50.0	-2.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: CCVIS 500-409330/7 Calibration Date: 11/10/2017 09:00

Instrument ID: CMS18 Calib Start Date: 07/05/2017 13:26

GC Column: DB624 ID: 0.20(mm) Calib End Date: 07/05/2017 17:12

Lab File ID: 18C1110A.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0647	0.0346	0.0100	26.7	50.0	-46.6	50.0
1,2,4-Trichlorobenzene	Ave	1.036	0.8040	0.0100	38.8	50.0	-22.4	50.0
Hexachlorobutadiene	Ave	0.7098	0.6788	0.0100	47.8	50.0	-4.4	50.0
Naphthalene	Ave	1.457	0.8985	0.0100	30.8	50.0	-38.3	50.0
1,2,3-Trichlorobenzene	Ave	0.7991	0.5580	0.0100	34.9	50.0	-30.2	50.0
Dibromofluoromethane	Ave	0.2646	0.2305	0.0100	43.5	50.0	-12.9	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2587	0.1895	0.0100	36.6	50.0	-26.7	50.0
Toluene-d8 (Surr)	Ave	1.370	1.203	0.0100	43.9	50.0	-12.1	50.0
4-Bromofluorobenzene (Surr)	Ave	0.9867	0.8878	0.0100	45.0	50.0	-10.0	50.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18C1110A.d
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Nov-2017 09:00:30 ALS Bottle#: 2 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 500-0048968-007
Operator ID: JH Instrument ID: CMS18
Sublist: chrom-8260W18cps*sub3
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 10-Nov-2017 11:30:06 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: huntjj Date: 10-Nov-2017 09:22:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	223958	50.0	46.8	
2 Chloromethane	50	1.784	1.784	0.000	99	371399	50.0	54.3	
3 Vinyl chloride	62	1.913	1.913	0.000	82	305611	50.0	52.2	
4 Butadiene	39	1.945	1.945	0.000	92	354189	50.0	53.0	
5 Bromomethane	94	2.271	2.271	0.000	91	130748	50.0	67.0	
6 Chloroethane	64	2.378	2.378	0.000	94	190087	50.0	65.1	
7 Dichlorofluoromethane	67	2.619	2.619	0.000	83	435035	50.0	53.5	
8 Trichlorofluoromethane	101	2.656	2.656	0.000	79	382015	50.0	51.1	
10 Ethyl ether	59	2.972	2.972	0.000	99	129996	50.0	39.9	
11 Acrolein	56	3.090	3.090	0.000	96	618351	2000.0	1988.6	
12 1,1-Dichloroethene	96	3.191	3.191	0.000	86	243277	50.0	52.9	
13 1,1,2-Trichloro-1,2,2-trif	101	3.218	3.218	0.000	90	274099	50.0	56.6	
14 Acetone	43	3.256	3.256	0.000	94	35533	50.0	48.6	
15 Iodomethane	142	3.336	3.336	0.000	97	450326	50.0	53.0	
16 Carbon disulfide	76	3.395	3.395	0.000	100	789097	50.0	52.6	
19 3-Chloro-1-propene	76	3.561	3.561	0.000	92	140625	50.0	51.4	
20 Methyl acetate	43	3.593	3.593	0.000	97	153565	100.0	79.6	
21 Methylene Chloride	84	3.684	3.684	0.000	92	225431	50.0	51.0	
* 22 TBA-d9 (IS)	65	3.742	3.742	0.000	0	109053	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.823	3.823	0.000	94	66091	500.0	498.6	
24 Acrylonitrile	53	3.930	3.930	0.000	99	418927	500.0	414.3	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	89	259495	50.0	52.2	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	90	340562	50.0	39.4	
27 Hexane	57	4.251	4.251	0.000	95	470151	50.0	52.3	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	445313	50.0	47.1	
29 Vinyl acetate	43	4.443	4.443	0.000	100	195234	50.0	33.4	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	94	243126	50.0	46.9	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	69	309149	50.0	56.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 2-Butanone (MEK)	43	4.989	4.989	0.000	37	41950	50.0	40.0	M
39 Chlorobromomethane	128	5.214	5.214	0.000	95	92381	50.0	43.7	
40 Tetrahydrofuran	42	5.262	5.262	0.000	96	55054	100.0	78.2	
41 Chloroform	83	5.294	5.294	0.000	83	350335	50.0	45.2	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	68	184097	50.0	43.5	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	90	359256	50.0	51.2	
44 Cyclohexane	56	5.540	5.540	0.000	93	629913	50.0	56.0	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	88	306321	50.0	50.5	
46 Carbon tetrachloride	117	5.652	5.652	0.000	80	334209	50.0	53.6	
47 Isobutyl alcohol	43	5.765	5.765	0.000	98	86915	1250.0	1428.9	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	151388	50.0	36.6	
49 Benzene	78	5.856	5.856	0.000	96	839783	50.0	48.3	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	58	191038	50.0	36.1	
53 n-Heptane	43	6.134	6.134	0.000	81	499327	50.0	56.1	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	94	798854	50.0	50.0	
56 Trichloroethene	130	6.514	6.514	0.000	95	243835	50.0	48.7	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	502991	50.0	53.5	
59 1,2-Dichloropropane	63	6.749	6.749	0.000	91	204952	50.0	44.5	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	15213	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	87	75277	50.0	40.3	
64 1,4-Dioxane	88	6.883	6.883	0.000	52	15847	1000.0	944.4	
65 Dichlorobromomethane	83	7.033	7.033	0.000	92	186160	50.0	40.1	
67 2-Chloroethyl vinyl ether	63	7.348	7.348	0.000	91	49166	50.0	28.8	
68 cis-1,3-Dichloropropene	75	7.503	7.503	0.000	86	221240	50.0	35.2	
69 4-Methyl-2-pentanone (MIBK	43	7.669	7.669	0.000	94	98188	50.0	37.6	
$ 70 Toluene-d8 (Surr)	98	7.798	7.798	0.000	94	761482	50.0	43.9	
71 Toluene	92	7.867	7.867	0.000	87	526445	50.0	45.3	
72 trans-1,3-Dichloropropene	75	8.102	8.102	0.000	94	168147	50.0	33.1	
73 Ethyl methacrylate	69	8.204	8.204	0.000	84	114272	50.0	34.8	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	86	96634	50.0	34.8	
75 Tetrachloroethene	166	8.472	8.472	0.000	90	268948	50.0	47.5	
76 1,3-Dichloropropane	76	8.488	8.488	0.000	96	175602	50.0	36.8	
77 2-Hexanone	43	8.584	8.584	0.000	97	63301	50.0	36.5	
79 Chlorodibromomethane	129	8.739	8.739	0.000	89	125189	50.0	35.9	
80 Ethylene Dibromide	107	8.873	8.873	0.000	100	99200	50.0	35.2	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	87	632751	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	91	642077	50.0	46.2	
84 1,1,1,2-Tetrachloroethane	131	9.542	9.542	0.000	89	204977	50.0	41.9	
85 Ethylbenzene	106	9.584	9.584	0.000	99	373121	50.0	47.7	
86 m-Xylene & p-Xylene	91	9.734	9.734	0.000	0	927018	50.0	49.7	
87 o-Xylene	91	10.296	10.296	0.000	92	937526	50.0	48.6	
88 Styrene	104	10.312	10.312	0.000	92	697727	50.0	46.8	
89 Bromoform	173	10.585	10.585	0.000	96	68264	50.0	34.7	
90 Isopropylbenzene	105	10.890	10.890	0.000	98	1284901	50.0	49.6	
$ 92 4-Bromofluorobenzene (Surr	95	11.141	11.141	0.000	92	309185	50.0	45.0	
94 Bromobenzene	156	11.387	11.387	0.000	89	269888	50.0	44.1	
95 1,1,2,2-Tetrachloroethane	83	11.393	11.393	0.000	56	106117	50.0	36.5	
96 1,2,3-Trichloropropane	75	11.457	11.457	0.000	41	120531	50.0	36.2	
97 trans-1,4-Dichloro-2-buten	53	11.489	11.489	0.000	47	36547	50.0	31.0	
98 N-Propylbenzene	91	11.580	11.580	0.000	98	1545589	50.0	50.4	
99 2-Chlorotoluene	91	11.697	11.697	0.000	98	850602	50.0	52.9	
100 1,3,5-Trimethylbenzene	105	11.858	11.858	0.000	89	1068285	50.0	49.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 4-Chlorotoluene	91	11.863	11.863	0.000	89	964264	50.0	47.6	
103 tert-Butylbenzene	119	12.323	12.323	0.000	88	992980	50.0	48.2	
105 1,2,4-Trimethylbenzene	105	12.388	12.388	0.000	68	1058854	50.0	47.3	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	1452920	50.0	49.3	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	553798	50.0	44.2	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	96	1254374	50.0	48.6	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	85	348276	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	95	538956	50.0	44.4	
113 1,2-Dichlorobenzene	146	13.318	13.318	0.000	81	450275	50.0	42.5	
114 n-Butylbenzene	91	13.329	13.329	0.000	98	1101197	50.0	49.0	
115 1,2-Dibromo-3-Chloropropan	75	14.212	14.212	0.000	47	12034	50.0	26.7	
117 1,2,4-Trichlorobenzene	180	15.062	15.062	0.000	94	280029	50.0	38.8	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	92	236395	50.0	47.8	
119 Naphthalene	128	15.303	15.303	0.000	98	312934	50.0	30.8	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	93	194330	50.0	34.9	
S 123 Xylenes, Total	100				0		100.0	98.3	
S 127 1,2-Dichloroethene, Total	96				0		100.0	99.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

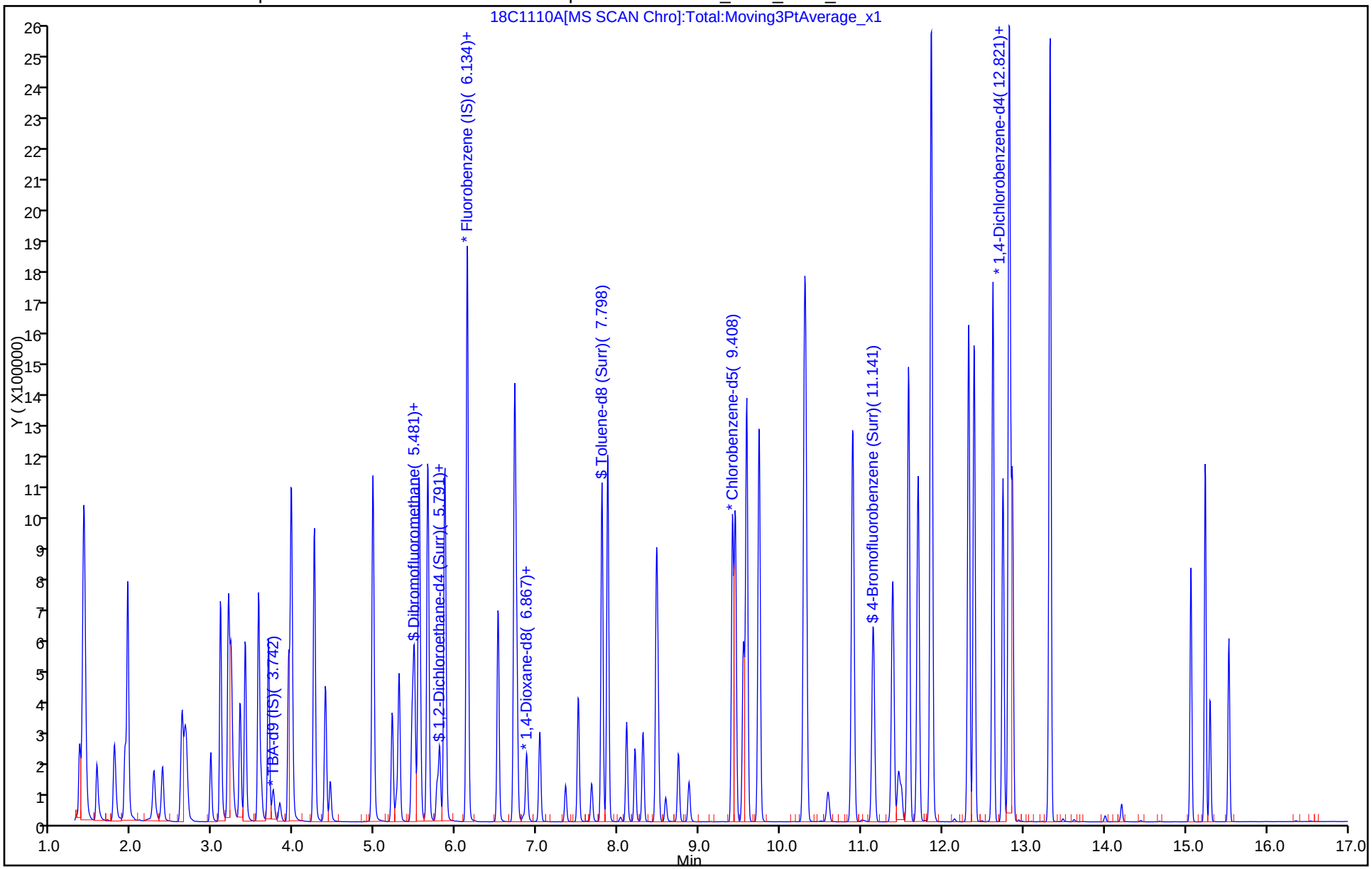
8260/624KETWK_00285	Amount Added:	2.50	Units: uL	
8260/624GASWK_00481	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00298	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00418	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00360	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00156	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Nov-2017 11:30:11 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18C1110A.d

Injection Date:	10-Nov-2017 09:00:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	ccvis			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



Manual Integration/User Assign Peak Report

TestAmerica Chicago

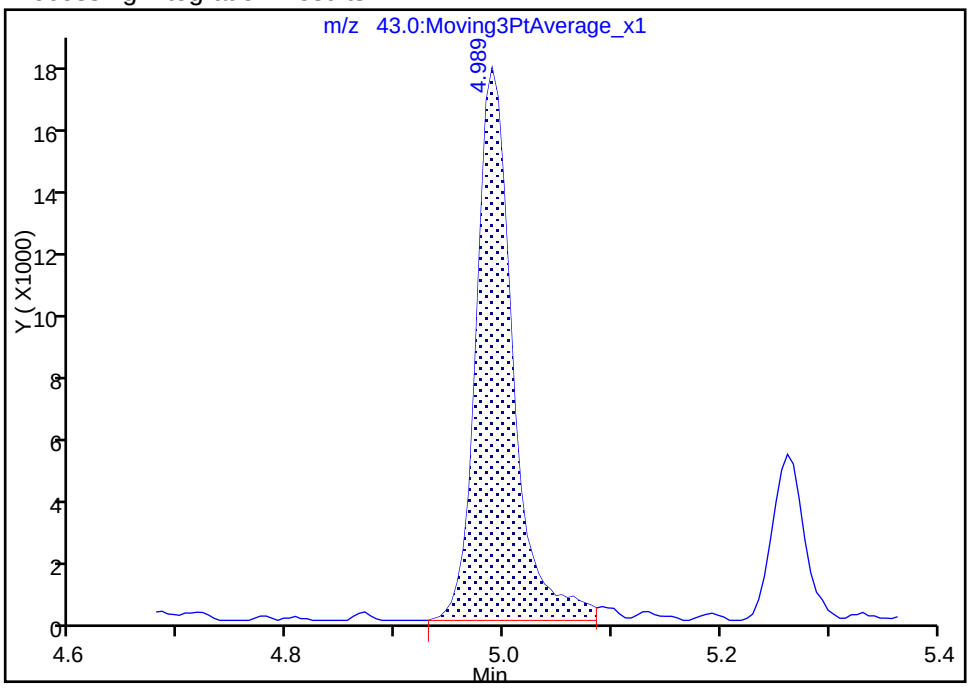
Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18C1110A.d
Injection Date: 10-Nov-2017 09:00:30 Instrument ID: CMS18
Lims ID: ccvis
Client ID:
Operator ID: JH ALS Bottle#: 2 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W18cps Limit Group: MSVOA_8260_ICAL_WATER
Column: Detector MS SCAN

35 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

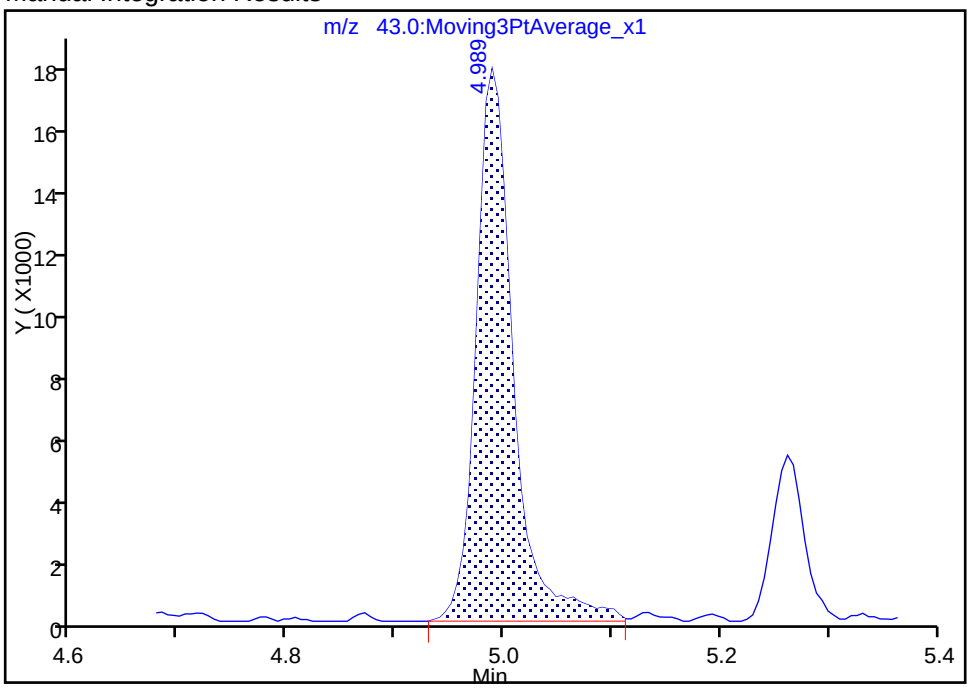
Processing Integration Results

RT: 4.99
Area: 41509
Amount: 39.531653
Amount Units: ug/l



Manual Integration Results

RT: 4.99
Area: 41950
Amount: 39.951646
Amount Units: ug/l



Reviewer: huntjj, 10-Nov-2017 09:22:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Chicago
Target Compound Quantitation Report

Data File:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Jul-2017 12:47:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	500-0046351-001				
Operator ID:	EA	Instrument ID:	CMS18		
Raw Data:	Smoothed				
Method:	\\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\8260W18cps.m				
Limit Group:	MSVOA_8260_ICAL_WATER				
Method Label:	TAL Chicago VOA Report				
Last Update:	05-Jul-2017 13:09:31	Calib Date:	30-Jun-2017 22:00:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS18\20170630-46286.b\18J0630J.d				
Column 1 :			Det: MS SCAN		
Process Host:	XAWRK024				
First Level Reviewer: alikpalae		Date:	05-Jul-2017 13:09:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 93 BFB	95	11.146	11.146	0.000	89	61346	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

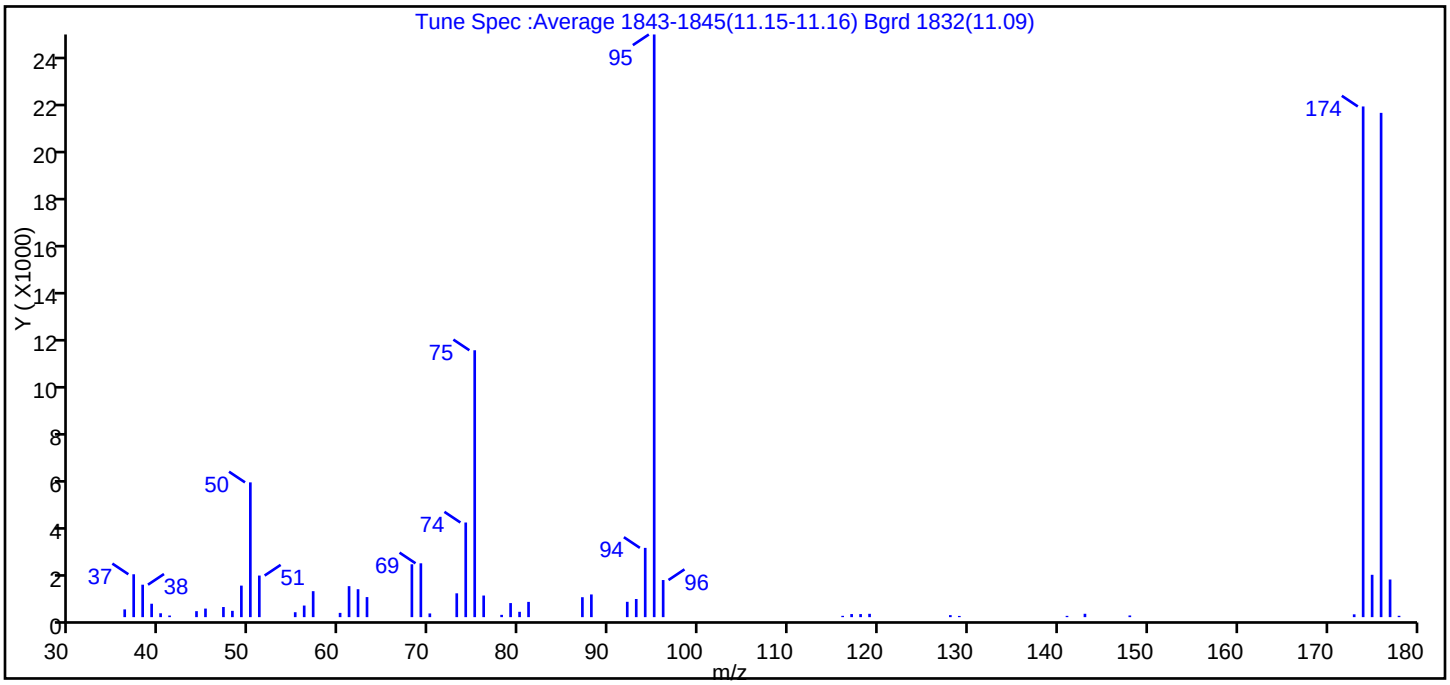
BFB STD WK_00154 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d
Injection Date: 05-Jul-2017 12:47:30 Instrument ID: CMS18
Lims ID: BFB
Client ID:
Operator ID: EA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W18cps Limit Group: MSVOA_8260_ICAL_WATER
Tune Method: BFB Method 8260

$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.1
75	30 to 60% of m/z 95	45.8
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	87.6
175	5 to 9% of m/z 174	7.3 (8.3)
176	Greater than 95% but less than 101% of m/z 174	86.5 (98.7)
177	5 to 9% of m/z 176	6.5 (7.5)

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d\8260W18cps.rslt\spectra.d
Injection Date: 05-Jul-2017 12:47:30
Spectrum: Tune Spec :Average 1843-1845(11.15-11.16) Bgrd 1832(11.09)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 53

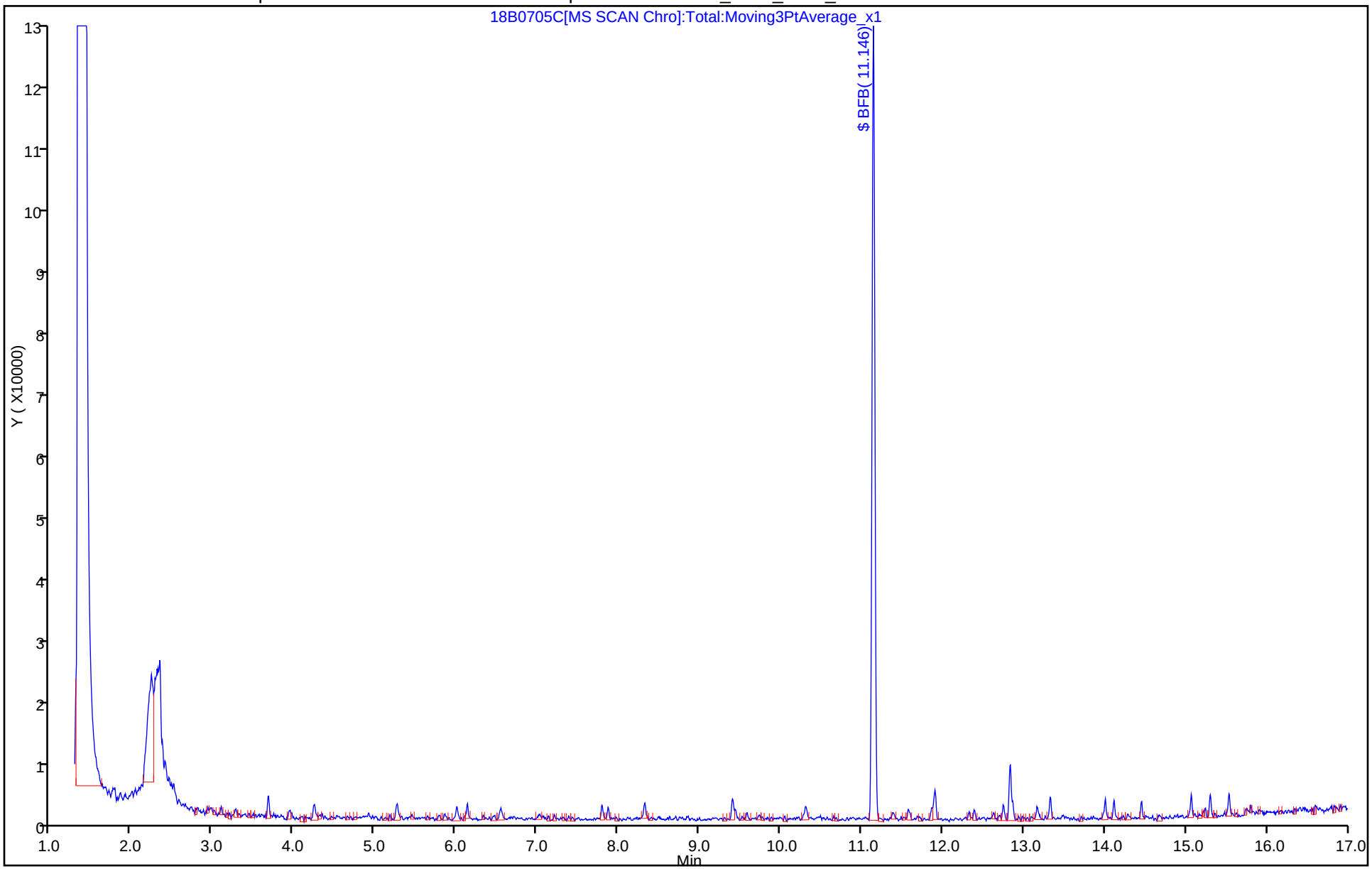
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	320	56.00	478	79.00	580	128.00	83
37.00	1768	57.00	1071	80.00	220	129.00	50
38.00	1338	60.00	176	81.00	629	141.00	53
39.00	553	61.00	1278	87.00	822	143.00	139
40.00	160	62.00	1152	88.00	936	148.00	69
41.00	67	63.00	827	92.00	632	173.00	116
44.00	247	68.00	2180	93.00	748	174.00	21056
45.00	353	69.00	2220	94.00	2856	175.00	1746
47.00	417	70.00	153	95.00	24024	176.00	20792
48.00	260	73.00	982	96.00	1530	177.00	1552
49.00	1300	74.00	3902	116.00	54	178.00	56
50.00	5557	75.00	11004	117.00	128		
51.00	1715	76.00	891	118.00	126		
55.00	203	78.00	95	119.00	137		

Report Date: 05-Jul-2017 13:09:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18B0705C.d

Injection Date:	05-Jul-2017 12:47:30	Instrument ID:	CMS18	Operator ID:	EA
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18B1110.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Nov-2017 07:44:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 500-0048968-001
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 10-Nov-2017 08:07:49 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: huntjj Date: 10-Nov-2017 08:07:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 93 BFB	95	11.146	11.146	0.000	90	43113	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

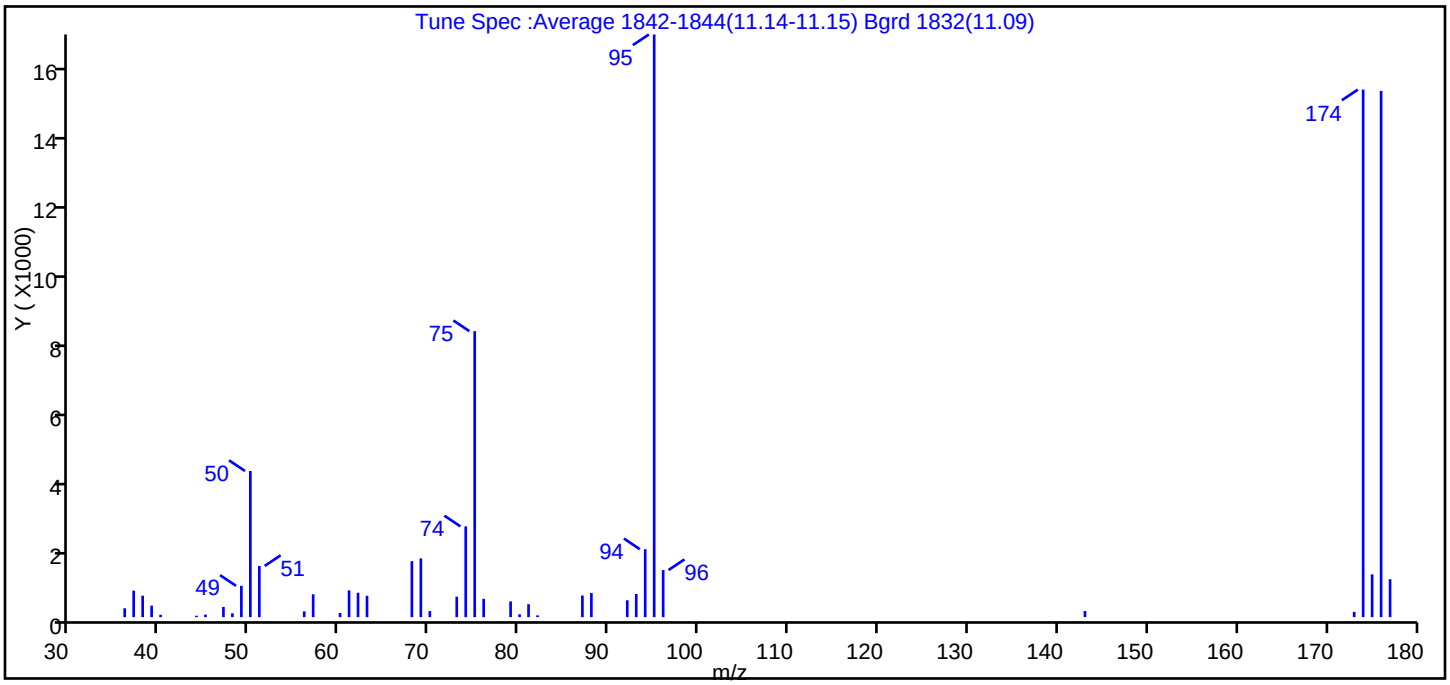
BFB STD WK_00168 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18B1110.d
Injection Date: 10-Nov-2017 07:44:30 Instrument ID: CMS18
Lims ID: BFB
Client ID:
Operator ID: JH ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W18cps Limit Group: MSVOA_8260_ICAL_WATER
Tune Method: BFB Method 8260

$ 93 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	25.1
75	30 to 60% of m/z 95	49.1
96	5 to 9% of m/z 95	8.1
173	Less than 2% of m/z 174	0.9 (1.0)
174	50 to 120% of m/z 95	90.5
175	5 to 9% of m/z 174	7.3 (8.1)
176	Greater than 95% but less than 101% of m/z 174	90.3 (99.8)
177	5 to 9% of m/z 176	6.5 (7.2)

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18B1110.d\8260W18cps.rslt\spectra.d
Injection Date: 10-Nov-2017 07:44:30
Spectrum: Tune Spec :Average 1842-1844(11.14-11.15) Bgrd 1832(11.09)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 42

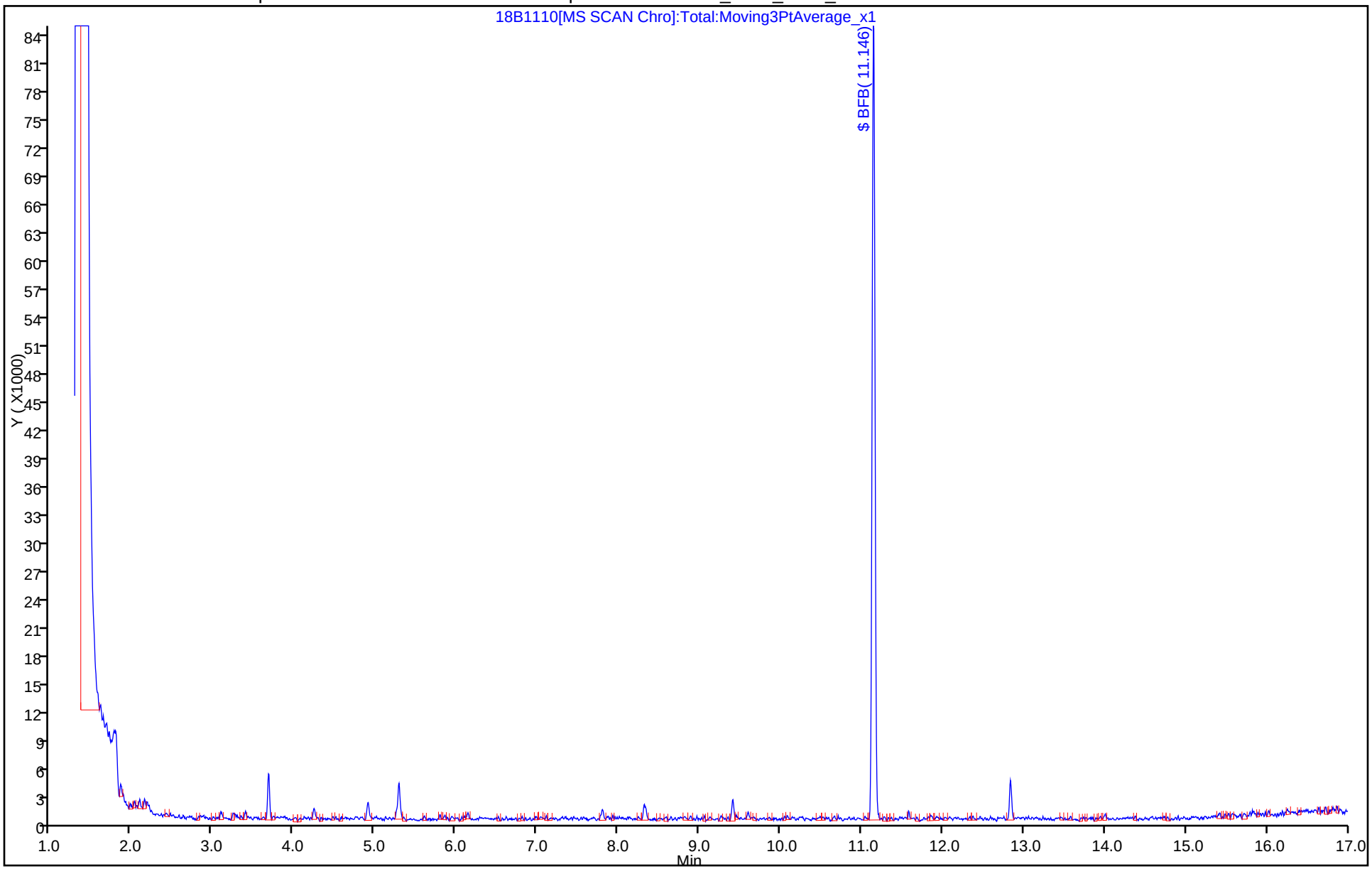
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	256	51.00	1471	74.00	2609	94.00	1952
37.00	762	56.00	166	75.00	8219	95.00	16744
38.00	617	57.00	657	76.00	527	96.00	1353
39.00	331	60.00	121	79.00	452	143.00	177
40.00	67	61.00	769	80.00	83	173.00	152
44.00	41	62.00	701	81.00	372	174.00	15159
45.00	74	63.00	614	82.00	51	175.00	1229
47.00	294	68.00	1609	87.00	621	176.00	15124
48.00	111	69.00	1688	88.00	692	177.00	1090
49.00	900	70.00	175	92.00	486		
50.00	4200	73.00	587	93.00	665		

Report Date: 10-Nov-2017 08:07:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18B1110.d

Injection Date:	10-Nov-2017 07:44:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-409330/6

Matrix: Water | Lab File ID: 18M1110.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/10/2017 10:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 409330 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	<1.0		1.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	<1.0		1.0	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	<1.0		1.0	0.46
79-00-5	1,1,2-Trichloroethane	<1.0		1.0	0.35
75-34-3	1,1-Dichloroethane	<1.0		1.0	0.41
75-35-4	1,1-Dichloroethene	<1.0		1.0	0.39
120-82-1	1,2,4-Trichlorobenzene	<1.0		1.0	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	<5.0		5.0	2.0
106-93-4	1,2-Dibromoethane	<1.0		1.0	0.39
95-50-1	1,2-Dichlorobenzene	<1.0		1.0	0.33
107-06-2	1,2-Dichloroethane	<1.0		1.0	0.39
78-87-5	1,2-Dichloropropane	<1.0		1.0	0.43
541-73-1	1,3-Dichlorobenzene	<1.0		1.0	0.40
106-46-7	1,4-Dichlorobenzene	<1.0		1.0	0.36
591-78-6	2-Hexanone	<5.0		5.0	1.6
67-64-1	Acetone	<5.0		5.0	1.7
71-43-2	Benzene	<0.50		0.50	0.15
75-27-4	Bromodichloromethane	<1.0		1.0	0.37
75-25-2	Bromoform	<1.0		1.0	0.48
74-83-9	Bromomethane	<2.0		2.0	0.80
75-15-0	Carbon disulfide	<2.0		2.0	0.45
56-23-5	Carbon tetrachloride	<1.0		1.0	0.38
108-90-7	Chlorobenzene	<1.0		1.0	0.39
75-00-3	Chloroethane	<1.0		1.0	0.51
67-66-3	Chloroform	<2.0		2.0	0.37
74-87-3	Chloromethane	<1.0		1.0	0.32
156-59-2	cis-1,2-Dichloroethene	<1.0		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	<1.0		1.0	0.42
110-82-7	Cyclohexane	<1.0		1.0	0.49
124-48-1	Dibromochloromethane	<1.0		1.0	0.49
75-71-8	Dichlorodifluoromethane	<2.0		2.0	0.67
100-41-4	Ethylbenzene	<0.50		0.50	0.18
98-82-8	Isopropylbenzene	<1.0		1.0	0.39
79-20-9	Methyl acetate	<5.0		5.0	2.0
78-93-3	Methyl Ethyl Ketone	<5.0		5.0	2.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-409330/6

Matrix: Water | Lab File ID: 18M1110.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/10/2017 10:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 409330 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-10-1	methyl isobutyl ketone	<5.0		5.0	2.2
1634-04-4	Methyl tert-butyl ether	<1.0		1.0	0.39
108-87-2	Methylcyclohexane	<1.0		1.0	0.32
75-09-2	Methylene Chloride	<5.0		5.0	1.6
100-42-5	Styrene	<1.0		1.0	0.39
127-18-4	Tetrachloroethene	<1.0		1.0	0.37
108-88-3	Toluene	<0.50		0.50	0.15
156-60-5	trans-1,2-Dichloroethene	<1.0		1.0	0.35
10061-02-6	trans-1,3-Dichloropropene	<1.0		1.0	0.36
79-01-6	Trichloroethene	<0.50		0.50	0.16
75-69-4	Trichlorofluoromethane	<1.0		1.0	0.43
75-01-4	Vinyl chloride	<0.50		0.50	0.20
1330-20-7	Xylenes, Total	<1.0		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		75-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-124
1868-53-7	Dibromofluoromethane	89		75-120
2037-26-5	Toluene-d8 (Surr)	86		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18M1110.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 10-Nov-2017 10:41:30 ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500-0048968-006
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 10-Nov-2017 11:06:59 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: huntjj Date: 10-Nov-2017 11:24:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 22 TBA-d9 (IS)	65	3.737	3.742	-0.005	0	127892	1000.0	1000.0	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	59	203363	50.0	44.5	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.797	5.797	0.000	0	179273	50.0	40.2	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	99	862567	50.0	50.0	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	17291	1000.0	1000.0	
$ 70 Toluene-d8 (Surr)	98	7.797	7.798	-0.001	94	863853	50.0	43.1	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	732445	50.0	50.0	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.141	0.005	94	324389	50.0	47.8	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	94	344048	50.0	50.0	

Reagents:

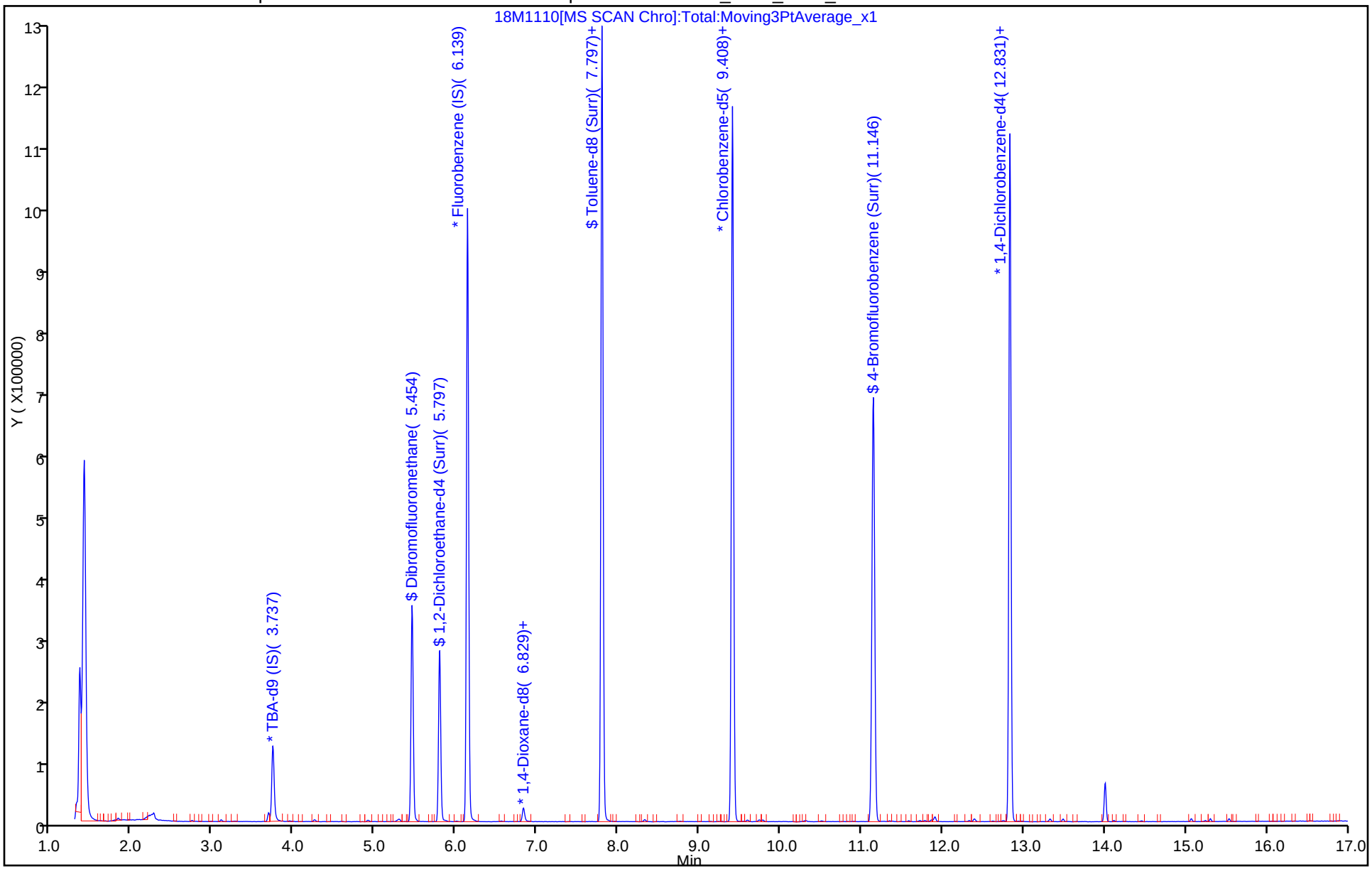
8260LOW IS/SS_00156 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 10-Nov-2017 11:24:25 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18M1110.d

Injection Date:	10-Nov-2017 10:41:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18M1110.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 10-Nov-2017 10:41:30 ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 500-0048968-006
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 10-Nov-2017 11:06:59 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: huntjj Date: 10-Nov-2017 11:24:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	44.5	89.10
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	40.2	80.35
$ 70 Toluene-d8 (Surr)	50.0	43.1	86.11
$ 92 4-Bromofluorobenzene (Surr)	50.0	47.8	95.55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-409330/21

Matrix: Water | Lab File ID: 18S1110A.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/10/2017 10:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 409330 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	57.1		1.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	39.5		1.0	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	57.6		1.0	0.46
79-00-5	1,1,2-Trichloroethane	41.9		1.0	0.35
75-34-3	1,1-Dichloroethane	50.7		1.0	0.41
75-35-4	1,1-Dichloroethene	56.0		1.0	0.39
120-82-1	1,2,4-Trichlorobenzene	43.2		1.0	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	33.6		5.0	2.0
106-93-4	1,2-Dibromoethane	40.6		1.0	0.39
95-50-1	1,2-Dichlorobenzene	46.3		1.0	0.33
107-06-2	1,2-Dichloroethane	43.3		1.0	0.39
78-87-5	1,2-Dichloropropane	47.8		1.0	0.43
541-73-1	1,3-Dichlorobenzene	48.0		1.0	0.40
106-46-7	1,4-Dichlorobenzene	48.6		1.0	0.36
591-78-6	2-Hexanone	44.4		5.0	1.6
67-64-1	Acetone	53.8		5.0	1.7
71-43-2	Benzene	53.9		0.50	0.15
75-27-4	Bromodichloromethane	45.2		1.0	0.37
75-25-2	Bromoform	39.5		1.0	0.48
74-83-9	Bromomethane	70.8		2.0	0.80
75-15-0	Carbon disulfide	56.0		2.0	0.45
56-23-5	Carbon tetrachloride	57.8		1.0	0.38
108-90-7	Chlorobenzene	50.5		1.0	0.39
75-00-3	Chloroethane	68.8		1.0	0.51
67-66-3	Chloroform	50.7		2.0	0.37
74-87-3	Chloromethane	56.7		1.0	0.32
156-59-2	cis-1,2-Dichloroethene	53.7		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	41.7		1.0	0.42
110-82-7	Cyclohexane	60.3		1.0	0.49
124-48-1	Dibromochloromethane	41.5		1.0	0.49
75-71-8	Dichlorodifluoromethane	50.7		2.0	0.67
100-41-4	Ethylbenzene	52.1		0.50	0.18
98-82-8	Isopropylbenzene	51.5		1.0	0.39
79-20-9	Methyl acetate	88.5		5.0	2.0
78-93-3	Methyl Ethyl Ketone	44.3		5.0	2.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-409330/21

Matrix: Water | Lab File ID: 18S1110A.d

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/10/2017 10:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 409330 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-10-1	methyl isobutyl ketone	46.1		5.0	2.2
1634-04-4	Methyl tert-butyl ether	43.0		1.0	0.39
108-87-2	Methylcyclohexane	58.4		1.0	0.32
75-09-2	Methylene Chloride	52.6		5.0	1.6
100-42-5	Styrene	51.7		1.0	0.39
127-18-4	Tetrachloroethene	55.3		1.0	0.37
108-88-3	Toluene	53.3		0.50	0.15
156-60-5	trans-1,2-Dichloroethene	55.2		1.0	0.35
10061-02-6	trans-1,3-Dichloropropene	40.0		1.0	0.36
79-01-6	Trichloroethene	53.3		0.50	0.16
75-69-4	Trichlorofluoromethane	54.3		1.0	0.43
75-01-4	Vinyl chloride	55.9		0.50	0.20
1330-20-7	Xylenes, Total	108		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		75-126
460-00-4	4-Bromofluorobenzene (Surr)	83		72-124
1868-53-7	Dibromofluoromethane	90		75-120
2037-26-5	Toluene-d8 (Surr)	94		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18S1110A.d
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 10-Nov-2017 10:16:30 ALS Bottle#: 7 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 500-0048968-021
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 10-Nov-2017 11:31:15 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: huntjj Date: 10-Nov-2017 11:31:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	87	230399	50.0	50.7	
2 Chloromethane	50	1.784	1.784	0.000	88	367697	50.0	56.7	
3 Vinyl chloride	62	1.913	1.913	0.000	83	310331	50.0	55.9	
4 Butadiene	39	1.945	1.945	0.000	92	353933	50.0	55.9	
5 Bromomethane	94	2.271	2.271	0.000	89	130931	50.0	70.8	
6 Chloroethane	64	2.373	2.378	-0.005	94	190434	50.0	68.8	
7 Dichlorofluoromethane	67	2.619	2.619	0.000	83	431966	50.0	56.0	
8 Trichlorofluoromethane	101	2.656	2.656	0.000	78	385089	50.0	54.3	
10 Ethyl ether	59	2.972	2.972	0.000	99	130098	50.0	42.1	
11 Acrolein	56	3.090	3.090	0.000	96	637565	2000.0	2162.6	
12 1,1-Dichloroethene	96	3.186	3.191	-0.005	94	244226	50.0	56.0	
13 1,1,2-Trichloro-1,2,2-trif	101	3.223	3.218	0.005	82	264489	50.0	57.6	
14 Acetone	43	3.256	3.256	0.000	98	37261	50.0	53.8	
15 Iodomethane	142	3.330	3.336	-0.006	99	447791	50.0	55.6	
16 Carbon disulfide	76	3.395	3.395	0.000	100	795309	50.0	56.0	
19 3-Chloro-1-propene	76	3.560	3.561	-0.001	92	146093	50.0	56.3	
20 Methyl acetate	43	3.593	3.593	0.000	96	161728	100.0	88.5	
21 Methylene Chloride	84	3.684	3.684	0.000	93	220579	50.0	52.6	
* 22 TBA-d9 (IS)	65	3.742	3.742	0.000	0	107148	1000.0	1000.0	
23 2-Methyl-2-propanol	59	3.828	3.823	0.005	96	71257	500.0	547.2	
24 Acrylonitrile	53	3.935	3.930	0.005	99	441752	500.0	460.8	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	91	259880	50.0	55.2	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	92	352574	50.0	43.0	
27 Hexane	57	4.251	4.251	0.000	95	481472	50.0	56.4	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	454578	50.0	50.7	
29 Vinyl acetate	43	4.449	4.443	0.006	100	212998	50.0	38.4	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	85	263901	50.0	53.7	
33 2,2-Dichloropropane	77	4.973	4.973	0.000	67	332400	50.0	63.5	
35 2-Butanone (MEK)	43	4.989	4.989	0.000	40	44146	50.0	44.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Chlorobromomethane	128	5.208	5.214	-0.006	89	99155	50.0	49.4	
40 Tetrahydrofuran	42	5.262	5.262	0.000	91	57926	100.0	87.1	
41 Chloroform	83	5.294	5.294	0.000	83	372784	50.0	50.7	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	65	180245	50.0	45.0	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	91	379795	50.0	57.1	
44 Cyclohexane	56	5.540	5.540	0.000	93	643132	50.0	60.3	
45 1,1-Dichloropropene	75	5.647	5.647	0.000	86	321902	50.0	56.0	
46 Carbon tetrachloride	117	5.652	5.652	0.000	79	342057	50.0	57.8	
47 Isobutyl alcohol	43	5.765	5.765	0.000	98	93634	1250.0	1566.7	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.791	5.797	-0.006	0	155979	50.0	39.8	
49 Benzene	78	5.855	5.856	-0.001	96	889574	50.0	53.9	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	62	217467	50.0	43.3	
53 n-Heptane	43	6.134	6.134	0.000	84	506579	50.0	60.0	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	94	757381	50.0	50.0	
56 Trichloroethene	130	6.514	6.514	0.000	90	253452	50.0	53.3	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	520289	50.0	58.4	
59 1,2-Dichloropropane	63	6.744	6.749	-0.005	86	208944	50.0	47.8	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	14358	1000.0	1000.0	
63 Dibromomethane	93	6.867	6.867	0.000	88	81800	50.0	46.2	
64 1,4-Dioxane	88	6.883	6.883	0.000	47	17347	1000.0	1095.3	
65 Dichlorobromomethane	83	7.032	7.033	-0.001	92	199093	50.0	45.2	
67 2-Chloroethyl vinyl ether	63	7.348	7.348	0.000	90	53131	50.0	34.9	
68 cis-1,3-Dichloropropene	75	7.509	7.503	0.006	87	233619	50.0	41.7	
69 4-Methyl-2-pentanone (MIBK	43	7.669	7.669	0.000	95	107548	50.0	46.1	
$ 70 Toluene-d8 (Surr)	98	7.797	7.798	-0.001	94	722402	50.0	46.8	
71 Toluene	92	7.872	7.867	0.005	90	552168	50.0	53.3	
72 trans-1,3-Dichloropropene	75	8.102	8.102	0.000	98	181235	50.0	40.0	
73 Ethyl methacrylate	69	8.204	8.204	0.000	83	125877	50.0	43.2	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	87	103707	50.0	41.9	
75 Tetrachloroethene	166	8.472	8.472	0.000	90	279300	50.0	55.3	
76 1,3-Dichloropropane	76	8.493	8.488	0.005	98	185021	50.0	43.5	
77 2-Hexanone	43	8.584	8.584	0.000	99	68549	50.0	44.4	
79 Chlorodibromomethane	129	8.739	8.739	0.000	89	129081	50.0	41.5	
80 Ethylene Dibromide	107	8.873	8.873	0.000	99	102057	50.0	40.6	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	85	564126	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	95	625583	50.0	50.5	
84 1,1,1,2-Tetrachloroethane	131	9.547	9.542	0.005	89	212229	50.0	48.7	
85 Ethylbenzene	106	9.584	9.584	0.000	98	363623	50.0	52.1	
86 m-Xylene & p-Xylene	91	9.739	9.734	0.005	0	912771	50.0	54.8	
87 o-Xylene	91	10.296	10.296	0.000	92	919973	50.0	53.5	
88 Styrene	104	10.312	10.312	0.000	91	687917	50.0	51.7	
89 Bromoform	173	10.585	10.585	0.000	96	69206	50.0	39.5	
90 Isopropylbenzene	105	10.890	10.890	0.000	98	1267819	50.0	51.5	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.141	0.005	95	271355	50.0	41.6	
94 Bromobenzene	156	11.382	11.387	-0.005	93	260464	50.0	44.8	
95 1,1,2,2-Tetrachloroethane	83	11.392	11.393	-0.001	59	108960	50.0	39.5	
96 1,2,3-Trichloropropane	75	11.457	11.457	0.000	42	117945	50.0	37.3	
97 trans-1,4-Dichloro-2-buten	53	11.489	11.489	0.000	70	37060	50.0	33.1	
98 N-Propylbenzene	91	11.580	11.580	0.000	98	1473630	50.0	50.6	
99 2-Chlorotoluene	91	11.697	11.697	0.000	97	813288	50.0	53.2	
100 1,3,5-Trimethylbenzene	105	11.858	11.858	0.000	88	1051592	50.0	50.8	
101 4-Chlorotoluene	91	11.863	11.863	0.000	89	944965	50.0	49.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 tert-Butylbenzene	119	12.323	12.323	0.000	92	992107	50.0	50.7	
105 1,2,4-Trimethylbenzene	105	12.393	12.388	0.005	65	1070747	50.0	50.4	
106 sec-Butylbenzene	105	12.623	12.623	0.000	94	1452152	50.0	51.8	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	571620	50.0	48.0	
108 4-Isopropyltoluene	119	12.821	12.821	0.000	96	1284861	50.0	52.4	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	82	330919	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	96	560773	50.0	48.6	
113 1,2-Dichlorobenzene	146	13.318	13.318	0.000	80	466740	50.0	46.3	
114 n-Butylbenzene	91	13.329	13.329	0.000	97	1128572	50.0	52.8	
115 1,2-Dibromo-3-Chloropropan	75	14.206	14.212	-0.006	46	14364	50.0	33.6	
117 1,2,4-Trichlorobenzene	180	15.068	15.062	0.006	90	296090	50.0	43.2	
118 Hexachlorobutadiene	225	15.244	15.244	0.000	92	240635	50.0	51.2	
119 Naphthalene	128	15.303	15.303	0.000	97	338486	50.0	35.1	
120 1,2,3-Trichlorobenzene	180	15.533	15.533	0.000	96	209561	50.0	39.6	
S 123 Xylenes, Total	100				0		100.0	108.3	
S 127 1,2-Dichloroethene, Total	96				0		100.0	108.9	

Reagents:

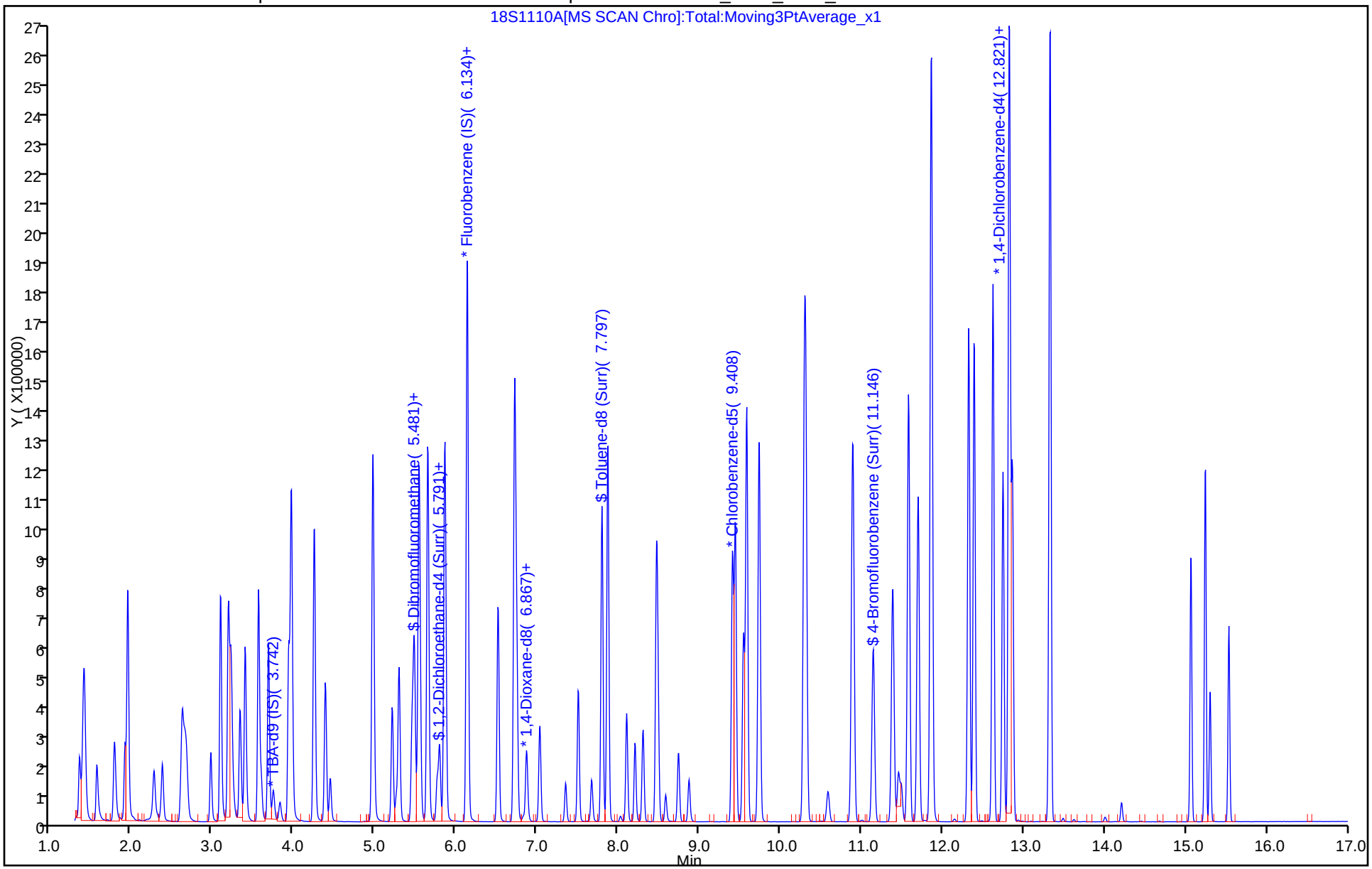
8260/624KETWK_00285	Amount Added:	2.50	Units: uL	
8260/624GASWK_00481	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00298	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00418	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00360	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00156	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Nov-2017 11:31:19 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18S1110A.d

Injection Date:	10-Nov-2017 10:16:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	lcs			Worklist Smp#:	21
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\18S1110A.d
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 10-Nov-2017 10:16:30 ALS Bottle#: 7 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 500-0048968-021
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 10-Nov-2017 11:31:15 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: huntjj Date: 10-Nov-2017 11:31:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	45.0	89.94
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	39.8	79.62
$ 70 Toluene-d8 (Surr)	50.0	46.8	93.50
$ 92 4-Bromofluorobenzene (Surr)	50.0	41.6	83.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: CRMS-SW-04-110317 MS | Lab Sample ID: 500-136788-1 MS

Matrix: Water | Lab File ID: 500-136788-a-1 ms.d

Analysis Method: 8260B | Date Collected: 11/03/2017 15:35

Sample wt/vol: 5(mL) | Date Analyzed: 11/10/2017 18:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 409330 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	53.1		1.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	45.6		1.0	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	59.0		1.0	0.46
79-00-5	1,1,2-Trichloroethane	44.4		1.0	0.35
75-34-3	1,1-Dichloroethane	53.1		1.0	0.41
75-35-4	1,1-Dichloroethene	55.6		1.0	0.39
120-82-1	1,2,4-Trichlorobenzene	43.7		1.0	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	34.2		5.0	2.0
106-93-4	1,2-Dibromoethane	43.2		1.0	0.39
95-50-1	1,2-Dichlorobenzene	47.4		1.0	0.33
107-06-2	1,2-Dichloroethane	44.5		1.0	0.39
78-87-5	1,2-Dichloropropane	49.5		1.0	0.43
541-73-1	1,3-Dichlorobenzene	46.8		1.0	0.40
106-46-7	1,4-Dichlorobenzene	48.1		1.0	0.36
591-78-6	2-Hexanone	49.0		5.0	1.6
67-64-1	Acetone	71.6		5.0	1.7
71-43-2	Benzene	53.2		0.50	0.15
75-27-4	Bromodichloromethane	47.3		1.0	0.37
75-25-2	Bromoform	40.5		1.0	0.48
74-83-9	Bromomethane	70.0		2.0	0.80
75-15-0	Carbon disulfide	53.5		2.0	0.45
56-23-5	Carbon tetrachloride	52.5		1.0	0.38
108-90-7	Chlorobenzene	49.3		1.0	0.39
75-00-3	Chloroethane	71.8		1.0	0.51
67-66-3	Chloroform	50.7		2.0	0.37
74-87-3	Chloromethane	62.0		1.0	0.32
156-59-2	cis-1,2-Dichloroethene	54.0		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	41.2		1.0	0.42
110-82-7	Cyclohexane	57.3		1.0	0.49
124-48-1	Dibromochloromethane	42.0		1.0	0.49
75-71-8	Dichlorodifluoromethane	52.4		2.0	0.67
100-41-4	Ethylbenzene	48.7		0.50	0.18
98-82-8	Isopropylbenzene	50.3		1.0	0.39
79-20-9	Methyl acetate	93.9		5.0	2.0
78-93-3	Methyl Ethyl Ketone	54.6		5.0	2.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: CRMS-SW-04-110317 MS | Lab Sample ID: 500-136788-1 MS

Matrix: Water | Lab File ID: 500-136788-a-1 ms.d

Analysis Method: 8260B | Date Collected: 11/03/2017 15:35

Sample wt/vol: 5(mL) | Date Analyzed: 11/10/2017 18:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 409330 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-10-1	methyl isobutyl ketone	47.9		5.0	2.2
1634-04-4	Methyl tert-butyl ether	48.2		1.0	0.39
108-87-2	Methylcyclohexane	54.0		1.0	0.32
75-09-2	Methylene Chloride	56.6		5.0	1.6
100-42-5	Styrene	49.8		1.0	0.39
127-18-4	Tetrachloroethene	49.2		1.0	0.37
108-88-3	Toluene	49.3		0.50	0.15
156-60-5	trans-1,2-Dichloroethene	54.6		1.0	0.35
10061-02-6	trans-1,3-Dichloropropene	39.9		1.0	0.36
79-01-6	Trichloroethene	51.4		0.50	0.16
75-69-4	Trichlorofluoromethane	55.4		1.0	0.43
75-01-4	Vinyl chloride	55.1		0.50	0.20
1330-20-7	Xylenes, Total	101		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		75-126
460-00-4	4-Bromofluorobenzene (Surr)	89		72-124
1868-53-7	Dibromofluoromethane	97		75-120
2037-26-5	Toluene-d8 (Surr)	87		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\500-136788-a-1 ms.d
Lims ID: 500-136788-A-1 MS
Client ID:
Sample Type: MS
Inject. Date: 10-Nov-2017 18:13:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136788-a-1 ms
Misc. Info.: 500-0048968-026
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 11-Nov-2017 15:07:57 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: huntjj Date: 11-Nov-2017 15:09:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	99	222917	50.0	52.4	
2 Chloromethane	50	1.784	1.784	0.000	88	376511	50.0	62.0	
3 Vinyl chloride	62	1.913	1.913	0.000	83	286509	50.0	55.1	
5 Bromomethane	94	2.271	2.271	0.000	91	121259	50.0	70.0	
6 Chloroethane	64	2.378	2.378	0.000	98	186185	50.0	71.8	
8 Trichlorofluoromethane	101	2.656	2.656	0.000	95	368056	50.0	55.4	
12 1,1-Dichloroethene	96	3.186	3.191	-0.005	87	227210	50.0	55.6	
13 1,1,2-Trichloro-1,2,2-trif	101	3.223	3.218	0.005	83	253583	50.0	59.0	
14 Acetone	43	3.255	3.256	-0.001	91	46447	50.0	71.6	
16 Carbon disulfide	76	3.395	3.395	0.000	100	711503	50.0	53.5	
20 Methyl acetate	43	3.592	3.593	-0.001	96	160739	100.0	93.9	
21 Methylene Chloride	84	3.683	3.684	-0.001	92	222350	50.0	56.6	
* 22 TBA-d9 (IS)	65	3.742	3.742	0.000	0	128630	1000.0	1000.0	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	91	241125	50.0	54.6	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	370467	50.0	48.2	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	445309	50.0	53.1	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	86	248563	50.0	54.0	
35 2-Butanone (MEK)	43	4.989	4.989	0.000	47	50907	50.0	54.6	
41 Chloroform	83	5.294	5.294	0.000	73	349098	50.0	50.7	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	60	182341	50.0	48.6	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	98	331029	50.0	53.1	
44 Cyclohexane	56	5.540	5.540	0.000	93	572147	50.0	57.3	
46 Carbon tetrachloride	117	5.652	5.652	0.000	80	291091	50.0	52.5	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.791	5.797	-0.006	0	148827	50.0	40.6	
49 Benzene	78	5.855	5.856	-0.001	96	822520	50.0	53.2	
50 1,2-Dichloroethane	62	5.871	5.872	-0.001	57	209346	50.0	44.5	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	94	709362	50.0	50.0	
56 Trichloroethene	130	6.513	6.514	-0.001	89	228547	50.0	51.4	
58 Methylcyclohexane	83	6.722	6.722	0.000	94	450312	50.0	54.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,2-Dichloropropane	63	6.743	6.749	-0.006	88	202606	50.0	49.5	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	17555	1000.0	1000.0	
65 Dichlorobromomethane	83	7.032	7.033	-0.001	98	195301	50.0	47.3	
68 cis-1,3-Dichloropropene	75	7.503	7.503	0.000	88	236237	50.0	41.2	
69 4-Methyl-2-pentanone (MIBK	43	7.669	7.669	0.000	94	114527	50.0	47.9	
$ 70 Toluene-d8 (Surr)	98	7.797	7.798	-0.001	94	687859	50.0	43.4	
71 Toluene	92	7.867	7.867	0.000	88	523122	50.0	49.3	
72 trans-1,3-Dichloropropene	75	8.102	8.102	0.000	97	185393	50.0	39.9	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	86	112736	50.0	44.4	
75 Tetrachloroethene	166	8.471	8.472	-0.001	96	254501	50.0	49.2	
77 2-Hexanone	43	8.584	8.584	0.000	98	77564	50.0	49.0	
79 Chlorodibromomethane	129	8.744	8.739	0.005	90	133775	50.0	42.0	
80 Ethylene Dibromide	107	8.873	8.873	0.000	100	111452	50.0	43.2	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	87	578466	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	93	626078	50.0	49.3	
85 Ethylbenzene	106	9.584	9.584	0.000	99	348399	50.0	48.7	
86 m-Xylene & p-Xylene	91	9.739	9.734	0.005	0	855601	50.0	50.1	
87 o-Xylene	91	10.296	10.296	0.000	92	888738	50.0	50.4	
88 Styrene	104	10.312	10.312	0.000	92	679880	50.0	49.8	
89 Bromoform	173	10.585	10.585	0.000	97	72725	50.0	40.5	
90 Isopropylbenzene	105	10.895	10.890	0.005	98	1196241	50.0	50.3	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.141	0.005	93	279184	50.0	44.3	
95 1,1,2,2-Tetrachloroethane	83	11.392	11.393	-0.001	60	121252	50.0	45.6	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	538227	50.0	46.8	
* 109 1,4-Dichlorobenzene-d4	152	12.831	12.832	-0.001	80	319511	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	96	536362	50.0	48.1	
113 1,2-Dichlorobenzene	146	13.318	13.318	0.000	84	461050	50.0	47.4	
115 1,2-Dibromo-3-Chloropropan	75	14.206	14.212	-0.006	58	14130	50.0	34.2	
117 1,2,4-Trichlorobenzene	180	15.068	15.062	0.006	92	289063	50.0	43.7	
S 123 Xylenes, Total	100				0		100.0	100.5	

Reagents:

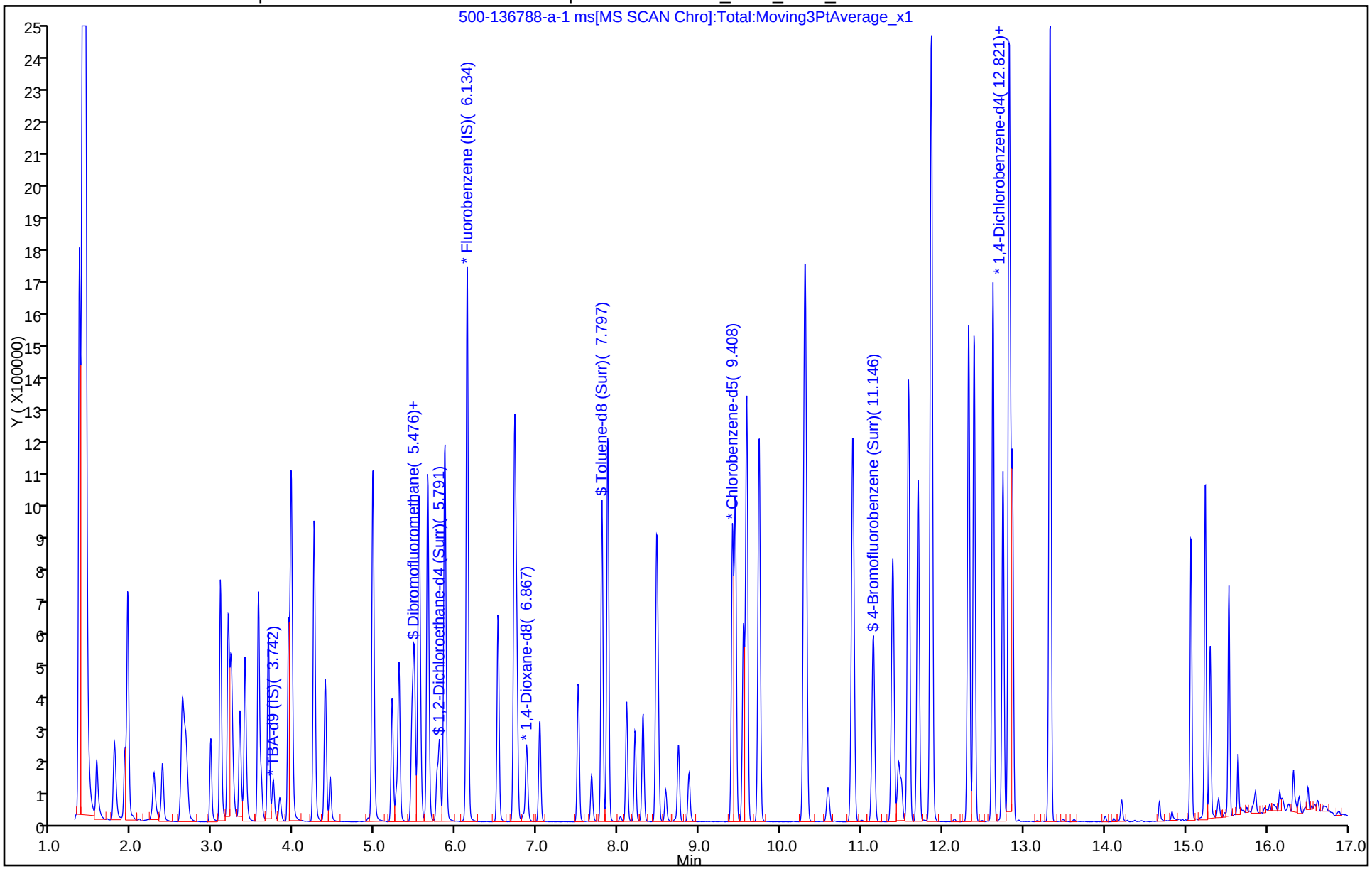
8260/624KETWK_00285	Amount Added:	2.50	Units: uL	
8260/624GASWK_00481	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00298	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00418	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00360	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00156	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 11-Nov-2017 15:09:02 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\500-136788-a-1 ms.d

Injection Date:	10-Nov-2017 18:13:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	500-136788-A-1 MS			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\500-136788-a-1 ms.d
Lims ID: 500-136788-A-1 MS
Client ID:
Sample Type: MS
Inject. Date: 10-Nov-2017 18:13:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136788-a-1 ms
Misc. Info.: 500-0048968-026
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 11-Nov-2017 15:07:57 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: huntjj Date: 11-Nov-2017 15:09:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	48.6	97.14
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	40.6	81.11
$ 70 Toluene-d8 (Surr)	50.0	43.4	86.82
$ 92 4-Bromofluorobenzene (Surr)	50.0	44.3	88.55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: CRMS-SW-04-110317 MSD | Lab Sample ID: 500-136788-1 MSD

Matrix: Water | Lab File ID: 500-136788-a-1 msd.d

Analysis Method: 8260B | Date Collected: 11/03/2017 15:35

Sample wt/vol: 5(mL) | Date Analyzed: 11/10/2017 18:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 409330 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	52.9		1.0	0.38
79-34-5	1,1,2,2-Tetrachloroethane	48.0		1.0	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	56.0		1.0	0.46
79-00-5	1,1,2-Trichloroethane	44.0		1.0	0.35
75-34-3	1,1-Dichloroethane	50.2		1.0	0.41
75-35-4	1,1-Dichloroethene	52.8		1.0	0.39
120-82-1	1,2,4-Trichlorobenzene	45.6		1.0	0.34
96-12-8	1,2-Dibromo-3-Chloropropane	36.4		5.0	2.0
106-93-4	1,2-Dibromoethane	44.1		1.0	0.39
95-50-1	1,2-Dichlorobenzene	49.4		1.0	0.33
107-06-2	1,2-Dichloroethane	46.1		1.0	0.39
78-87-5	1,2-Dichloropropane	51.4		1.0	0.43
541-73-1	1,3-Dichlorobenzene	49.2		1.0	0.40
106-46-7	1,4-Dichlorobenzene	50.1		1.0	0.36
591-78-6	2-Hexanone	45.2		5.0	1.6
67-64-1	Acetone	59.9		5.0	1.7
71-43-2	Benzene	55.4		0.50	0.15
75-27-4	Bromodichloromethane	48.6		1.0	0.37
75-25-2	Bromoform	43.3		1.0	0.48
74-83-9	Bromomethane	55.4		2.0	0.80
75-15-0	Carbon disulfide	52.6		2.0	0.45
56-23-5	Carbon tetrachloride	55.0		1.0	0.38
108-90-7	Chlorobenzene	51.8		1.0	0.39
75-00-3	Chloroethane	55.2		1.0	0.51
67-66-3	Chloroform	50.6		2.0	0.37
74-87-3	Chloromethane	47.0		1.0	0.32
156-59-2	cis-1,2-Dichloroethene	53.4		1.0	0.41
10061-01-5	cis-1,3-Dichloropropene	43.5		1.0	0.42
110-82-7	Cyclohexane	58.6		1.0	0.49
124-48-1	Dibromochloromethane	44.1		1.0	0.49
75-71-8	Dichlorodifluoromethane	40.6		2.0	0.67
100-41-4	Ethylbenzene	52.2		0.50	0.18
98-82-8	Isopropylbenzene	53.4		1.0	0.39
79-20-9	Methyl acetate	86.7		5.0	2.0
78-93-3	Methyl Ethyl Ketone	48.0		5.0	2.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: CRMS-SW-04-110317 MSD | Lab Sample ID: 500-136788-1 MSD

Matrix: Water | Lab File ID: 500-136788-a-1 msd.d

Analysis Method: 8260B | Date Collected: 11/03/2017 15:35

Sample wt/vol: 5(mL) | Date Analyzed: 11/10/2017 18:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB624 ID: 0.2(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 409330 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-10-1	methyl isobutyl ketone	47.5		5.0	2.2
1634-04-4	Methyl tert-butyl ether	44.5		1.0	0.39
108-87-2	Methylcyclohexane	56.2		1.0	0.32
75-09-2	Methylene Chloride	53.0		5.0	1.6
100-42-5	Styrene	52.4		1.0	0.39
127-18-4	Tetrachloroethene	51.6		1.0	0.37
108-88-3	Toluene	50.9		0.50	0.15
156-60-5	trans-1,2-Dichloroethene	51.6		1.0	0.35
10061-02-6	trans-1,3-Dichloropropene	40.6		1.0	0.36
79-01-6	Trichloroethene	54.1		0.50	0.16
75-69-4	Trichlorofluoromethane	42.8		1.0	0.43
75-01-4	Vinyl chloride	41.7		0.50	0.20
1330-20-7	Xylenes, Total	108		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		75-126
460-00-4	4-Bromofluorobenzene (Surr)	88		72-124
1868-53-7	Dibromofluoromethane	91		75-120
2037-26-5	Toluene-d8 (Surr)	92		75-120

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\500-136788-a-1 msd.d
Lims ID: 500-136788-A-1 MSD
Client ID:
Sample Type: MSD
Inject. Date: 10-Nov-2017 18:38:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136788-a-1 msd
Misc. Info.: 500-0048968-027
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 11-Nov-2017 15:07:57 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: huntjj Date: 11-Nov-2017 15:09:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.565	1.565	0.000	99	193221	50.0	40.6	
2 Chloromethane	50	1.784	1.784	0.000	89	319405	50.0	47.0	
3 Vinyl chloride	62	1.913	1.913	0.000	83	242762	50.0	41.7	
5 Bromomethane	94	2.271	2.271	0.000	91	107657	50.0	55.4	
6 Chloroethane	64	2.373	2.378	-0.005	97	160234	50.0	55.2	
8 Trichlorofluoromethane	101	2.656	2.656	0.000	79	317888	50.0	42.8	
12 1,1-Dichloroethene	96	3.186	3.191	-0.005	86	241208	50.0	52.8	
13 1,1,2-Trichloro-1,2,2-trif	101	3.223	3.218	0.005	91	269149	50.0	56.0	
14 Acetone	43	3.256	3.256	0.000	98	43423	50.0	59.9	
16 Carbon disulfide	76	3.395	3.395	0.000	100	782302	50.0	52.6	
20 Methyl acetate	43	3.593	3.593	0.000	100	166063	100.0	86.7	
21 Methylene Chloride	84	3.684	3.684	0.000	92	232977	50.0	53.0	
* 22 TBA-d9 (IS)	65	3.742	3.742	0.000	0	122083	1000.0	1000.0	
25 trans-1,2-Dichloroethene	96	3.962	3.962	0.000	91	254474	50.0	51.6	
26 Methyl tert-butyl ether	73	3.972	3.972	0.000	91	382478	50.0	44.5	
28 1,1-Dichloroethane	63	4.384	4.384	0.000	85	470645	50.0	50.2	
34 cis-1,2-Dichloroethene	96	4.973	4.973	0.000	94	274789	50.0	53.4	
35 2-Butanone (MEK)	43	4.989	4.989	0.000	42	50066	50.0	48.0	
41 Chloroform	83	5.294	5.294	0.000	82	390084	50.0	50.6	
$ 42 Dibromofluoromethane	113	5.454	5.454	0.000	60	191199	50.0	45.5	
43 1,1,1-Trichloroethane	97	5.481	5.481	0.000	99	368555	50.0	52.9	
44 Cyclohexane	56	5.540	5.540	0.000	92	654703	50.0	58.6	
46 Carbon tetrachloride	117	5.652	5.652	0.000	79	340726	50.0	55.0	
$ 48 1,2-Dichloroethane-d4 (Sur	65	5.791	5.797	-0.006	0	170383	50.0	41.5	
49 Benzene	78	5.855	5.856	-0.001	96	956844	50.0	55.4	
50 1,2-Dichloroethane	62	5.872	5.872	0.000	56	242571	50.0	46.1	
* 54 Fluorobenzene (IS)	96	6.139	6.139	0.000	94	793193	50.0	50.0	
56 Trichloroethene	130	6.519	6.514	0.005	92	269444	50.0	54.1	
58 Methylcyclohexane	83	6.722	6.722	0.000	95	524392	50.0	56.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
59 1,2-Dichloropropane	63	6.749	6.749	0.000	92	234942	50.0	51.4	
* 61 1,4-Dioxane-d8	96	6.829	6.829	0.000	0	16471	1000.0	1000.0	
65 Dichlorobromomethane	83	7.032	7.033	-0.001	92	224487	50.0	48.6	
68 cis-1,3-Dichloropropene	75	7.503	7.503	0.000	86	257468	50.0	43.5	
69 4-Methyl-2-pentanone (MIBK	43	7.669	7.669	0.000	94	117072	50.0	47.5	
$ 70 Toluene-d8 (Surr)	98	7.797	7.798	-0.001	94	752649	50.0	46.0	
71 Toluene	92	7.867	7.867	0.000	90	557746	50.0	50.9	
72 trans-1,3-Dichloropropene	75	8.102	8.102	0.000	93	194741	50.0	40.6	
74 1,1,2-Trichloroethane	97	8.306	8.306	0.000	84	115309	50.0	44.0	
75 Tetrachloroethene	166	8.472	8.472	0.000	94	275736	50.0	51.6	
77 2-Hexanone	43	8.584	8.584	0.000	96	73822	50.0	45.2	
79 Chlorodibromomethane	129	8.739	8.739	0.000	89	145180	50.0	44.1	
80 Ethylene Dibromide	107	8.873	8.873	0.000	97	117299	50.0	44.1	
* 81 Chlorobenzene-d5	117	9.408	9.408	0.000	87	596969	50.0	50.0	
83 Chlorobenzene	112	9.445	9.445	0.000	94	678639	50.0	51.8	
85 Ethylbenzene	106	9.584	9.584	0.000	99	385602	50.0	52.2	
86 m-Xylene & p-Xylene	91	9.734	9.734	0.000	0	944202	50.0	53.6	
87 o-Xylene	91	10.296	10.296	0.000	93	982703	50.0	54.0	
88 Styrene	104	10.312	10.312	0.000	92	737522	50.0	52.4	
89 Bromoform	173	10.590	10.585	0.005	94	80254	50.0	43.3	
90 Isopropylbenzene	105	10.890	10.890	0.000	98	1313985	50.0	53.4	
$ 92 4-Bromofluorobenzene (Surr	95	11.146	11.141	0.005	94	286549	50.0	43.9	
95 1,1,2,2-Tetrachloroethane	83	11.392	11.393	-0.001	60	132182	50.0	48.0	
107 1,3-Dichlorobenzene	146	12.746	12.746	0.000	98	585459	50.0	49.2	
* 109 1,4-Dichlorobenzene-d4	152	12.832	12.832	0.000	82	330817	50.0	50.0	
110 1,4-Dichlorobenzene	146	12.864	12.864	0.000	95	577839	50.0	50.1	
113 1,2-Dichlorobenzene	146	13.318	13.318	0.000	84	497949	50.0	49.4	
115 1,2-Dibromo-3-Chloropropan	75	14.206	14.212	-0.006	47	15558	50.0	36.4	
117 1,2,4-Trichlorobenzene	180	15.062	15.062	0.000	94	312146	50.0	45.6	
S 123 Xylenes, Total	100				0		100.0	107.6	

Reagents:

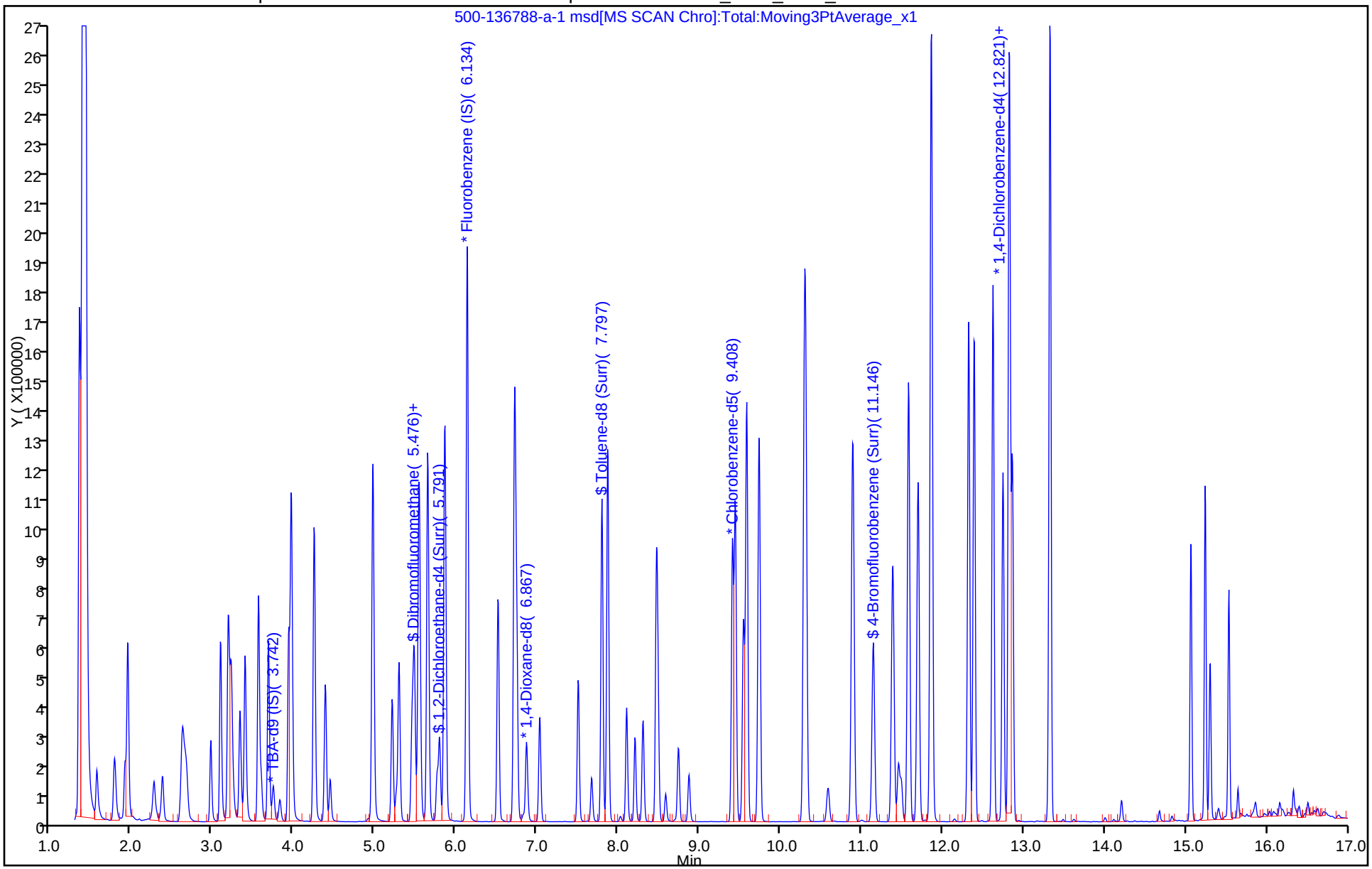
8260/624GASWK_00481	Amount Added:	2.50	Units: uL	
8260VA/2CEVE_00298	Amount Added:	2.50	Units: uL	
8260/624MEGWK_00418	Amount Added:	2.50	Units: uL	
8260/624ACRWK_00360	Amount Added:	2.50	Units: uL	
8260/624KETWK_00285	Amount Added:	2.50	Units: uL	
8260LOW IS/SS_00156	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 11-Nov-2017 15:09:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\500-136788-a-1 msd.d

Injection Date:	10-Nov-2017 18:38:30	Instrument ID:	CMS18	Operator ID:	JH
Lims ID:	500-136788-A-1 MSD			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260W18cps	Limit Group:	MSVOA_8260_ICAL_WATER		



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\500-136788-a-1 msd.d
Lims ID: 500-136788-A-1 MSD
Client ID:
Sample Type: MSD
Inject. Date: 10-Nov-2017 18:38:30 ALS Bottle#: 27 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 500-136788-a-1 msd
Misc. Info.: 500-0048968-027
Operator ID: JH Instrument ID: CMS18
Raw Data: Smoothed

Method: \\ChromNA\Chicago\ChromData\CMS18\20171110-48968.b\8260W18cps.m
Limit Group: MSVOA_8260_ICAL_WATER
Method Label: TAL Chicago VOA Report
Last Update: 11-Nov-2017 15:07:57 Calib Date: 05-Jul-2017 17:12:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS18\20170705-46351.b\18I0705J.d

Column 1 : Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: huntjj Date: 11-Nov-2017 15:09:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 42 Dibromofluoromethane	50.0	45.5	91.09
$ 48 1,2-Dichloroethane-d4 (Surr)	50.0	41.5	83.04
$ 70 Toluene-d8 (Surr)	50.0	46.0	92.06
$ 92 4-Bromofluorobenzene (Surr)	50.0	43.9	87.78

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: CMS18 Start Date: 07/05/2017 12:47

Analysis Batch Number: 391894 End Date: 07/05/2017 18:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-391894/1		07/05/2017 12:47	1	18B0705C.d	DB624 0.2(mm)
STD01 500-391894/2 IC		07/05/2017 13:26	1	18I0705A.d	DB624 0.2(mm)
STD02 500-391894/3 IC		07/05/2017 13:52	1	18I0705B.d	DB624 0.2(mm)
STD03 500-391894/4 IC		07/05/2017 14:16	1	18I0705C.d	DB624 0.2(mm)
STD04 500-391894/5 IC		07/05/2017 14:41	1	18I0705D.d	DB624 0.2(mm)
STD05 500-391894/6 IC		07/05/2017 15:06	1	18I0705E.d	DB624 0.2(mm)
STD06 500-391894/7 IC		07/05/2017 15:31	1	18I0705F.d	DB624 0.2(mm)
STD07 500-391894/8 ICIS		07/05/2017 15:56	1	18I0705G.d	DB624 0.2(mm)
STD08 500-391894/9 IC		07/05/2017 16:21	1	18I0705H.d	DB624 0.2(mm)
STD09 500-391894/10 IC		07/05/2017 16:46	1	18I0705I.d	DB624 0.2(mm)
STD10 500-391894/11 IC		07/05/2017 17:12	1	18I0705J.d	DB624 0.2(mm)
ICV 500-391894/14		07/05/2017 18:26	1	18S0705ICV1.d	DB624 0.2(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: CMS18 Start Date: 11/10/2017 07:44

Analysis Batch Number: 409330 End Date: 11/10/2017 18:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 500-409330/1		11/10/2017 07:44	1	18B1110.d	DB624 0.2(mm)
CCV 500-409330/3		11/10/2017 08:34	1	18D1110.d	DB624 0.2(mm)
CCVIS 500-409330/7		11/10/2017 09:00	1	18C1110A.d	DB624 0.2(mm)
LCS 500-409330/21		11/10/2017 10:16	1	18S1110A.d	DB624 0.2(mm)
MB 500-409330/6		11/10/2017 10:41	1	18M1110.d	DB624 0.2(mm)
ZZZZZ		11/10/2017 11:06	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 11:31	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 11:56	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 12:21	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 12:47	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 13:12	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 13:37	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 14:02	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 14:26	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 14:52	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 15:17	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 15:42	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 16:07	1		DB624 0.2(mm)
ZZZZZ		11/10/2017 16:33	2		DB624 0.2(mm)
ZZZZZ		11/10/2017 16:58	20		DB624 0.2(mm)
ZZZZZ		11/10/2017 17:23	1		DB624 0.2(mm)
500-136788-1		11/10/2017 17:48	1	500-136788-a-1.d	DB624 0.2(mm)
500-136788-1 MS		11/10/2017 18:13	1	500-136788-a-1 ms.d	DB624 0.2(mm)
500-136788-1 MSD		11/10/2017 18:38	1	500-136788-a-1 msd.d	DB624 0.2(mm)

ISTD

TestAmerica Chicago

GC/MS Volatiles: Sample Tracking Sheet

Screener: 27 11/6

Job # 500-136788

Sample File Name	Dilution	pH	Action	Inst./Date	Chrom Batch	MeOH Lot #	Container Lot#	Analytical Batch	misc info
1	1	2		18 11/10/17	48968			409330	Ace-6 @
MS	↓	↓							@
MSD	↓	↓		↓	↓			↓	@

Reviewed by: [signature] Date: 11-13-17

CHI-22-20-075/E-09/17

TestAmerica Chicago

GC/MS Volatiles: Internal Chain of Custody Form

ICOC Job Number: 500-136788

Date	Time Out	Time In	ICOC Initials	misc info
11/10/17	1030	1130	[signature]	[signature]

CHI-22-20-074/A-01/08

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB5MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHL #
CRMS-SW-04-110317	500-136788-1	94	53	88	93	92	99
	MB 500-408755/1-A	77	50	83	74	80	95
	LCS 500-408755/2-A	78	58	85	79	92	94
	LCSD 500-408755/3-A	75	57	85	78	91	100

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	27-110
PHL = Phenol-d5 (Surr)	20-100
NBZ = Nitrobenzene-d5 (Surr)	36-120
FBP = 2-Fluorobiphenyl (Surr)	34-110
TBP = 2,4,6-Tribromophenol (Surr)	40-145
TPHL = Terphenyl-d14 (Surr)	40-145

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCS 500-408755.D

Lab ID: LCS 500-408755/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Phenol	32.0	19.4	61	33-100	
Bis(2-chloroethyl)ether	32.0	27.0	84	49-110	
2-Chlorophenol	32.0	27.2	85	59-110	
2-Methylphenol	32.0	27.7	87	53-110	
2,2'-oxybis[1-chloropropane]	32.0	25.5	80	38-110	
Acetophenone	32.0	26.4	83	60-110	
N-Nitrosodi-n-propylamine	32.0	28.0	87	58-110	
Hexachloroethane	32.0	18.2	57	20-100	
Nitrobenzene	32.0	29.2	91	53-110	
Isophorone	32.0	29.5	92	57-110	
2-Nitrophenol	32.0	28.1	88	58-110	
2,4-Dimethylphenol	32.0	27.3	85	51-110	
Bis(2-chloroethoxy)methane	32.0	30.2	94	60-110	
2,4-Dichlorophenol	32.0	27.7	87	62-110	
Naphthalene	32.0	22.2	69	36-110	
4-Chloroaniline	32.0	27.9	87	35-128	
Hexachlorobutadiene	32.0	16.8	53	20-100	
Caprolactam	32.0	19.1	60	32-100	
4-Chloro-3-methylphenol	32.0	30.4	95	64-120	
2-Methylnaphthalene	32.0	21.8	68	34-110	
Hexachlorocyclopentadiene	32.0	16.1	50	10-100	
2,4,6-Trichlorophenol	32.0	27.7	87	62-110	
2,4,5-Trichlorophenol	32.0	28.4	89	63-120	
1,1'-Biphenyl	32.0	24.6	77	40-110	
2-Chloronaphthalene	32.0	23.6	74	39-110	
2-Nitroaniline	32.0	33.8	106	59-122	
Dimethyl phthalate	32.0	30.8	96	63-120	
2,6-Dinitrotoluene	32.0	32.5	102	63-119	
Acenaphthylene	32.0	25.5	80	47-110	
3-Nitroaniline	32.0	31.2	98	47-123	
Acenaphthene	32.0	27.7	86	46-110	
2,4-Dinitrophenol	64.0	69.7	109	37-130	
4-Nitrophenol	64.0	43.3	68	20-110	
Dibenzofuran	32.0	26.5	83	51-110	
2,4-Dinitrotoluene	32.0	32.2	101	63-122	
Diethyl phthalate	32.0	31.5	98	62-120	
Fluorene	32.0	27.7	87	53-120	
4-Chlorophenyl phenyl ether	32.0	25.0	78	47-112	
4-Nitroaniline	32.0	29.2	91	52-147	
4,6-Dinitro-2-methylphenol	64.0	63.3	99	50-117	
N-Nitrosodiphenylamine	32.0	28.5	89	66-110	
4-Bromophenyl phenyl ether	32.0	24.7	77	58-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCS 500-408755.D

Lab ID: LCS 500-408755/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Hexachlorobenzene	32.0	25.0	78	61-120	
Atrazine	32.0	25.9	81	58-118	
Pentachlorophenol	64.0	51.2	80	23-129	
Phenanthrene	32.0	28.2	88	65-120	
Anthracene	32.0	29.2	91	67-110	
Carbazole	32.0	28.9	90	61-145	
Di-n-butyl phthalate	32.0	31.1	97	70-120	
Fluoranthene	32.0	29.5	92	68-120	
Pyrene	32.0	31.4	98	70-110	
Butyl benzyl phthalate	32.0	33.8	106	68-120	
3,3'-Dichlorobenzidine	32.0	26.9	84	60-132	
Benzo[a]anthracene	32.0	29.3	92	70-120	
Chrysene	32.0	30.8	96	68-120	
Bis(2-ethylhexyl) phthalate	32.0	34.6	108	69-120	
Di-n-octyl phthalate	32.0	32.0	100	70-122	
Benzo[b]fluoranthene	32.0	30.8	96	69-123	
Benzo[k]fluoranthene	32.0	30.7	96	70-120	
Benzo[a]pyrene	32.0	30.0	94	70-120	
Indeno[1,2,3-cd]pyrene	32.0	30.9	97	65-133	
Dibenz(a,h)anthracene	32.0	30.0	94	70-127	
Benzo[g,h,i]perylene	32.0	30.0	94	70-120	
3 & 4 Methylphenol	32.0	27.4	86	53-110	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCSD 500-408755.D

Lab ID: LCSD 500-408755/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Phenol	32.0	17.8	56	9	20	33-100	
Bis(2-chloroethyl)ether	32.0	25.5	80	6	20	49-110	
2-Chlorophenol	32.0	25.1	79	8	20	59-110	
2-Methylphenol	32.0	26.1	82	6	20	53-110	
2,2'-oxybis[1-chloropropane]	32.0	24.3	76	5	20	38-110	
Acetophenone	32.0	24.3	76	8	20	60-110	
N-Nitrosodi-n-propylamine	32.0	25.8	81	8	20	58-110	
Hexachloroethane	32.0	16.8	53	8	20	20-100	
Nitrobenzene	32.0	28.0	88	4	20	53-110	
Isophorone	32.0	28.2	88	5	20	57-110	
2-Nitrophenol	32.0	26.6	83	6	20	58-110	
2,4-Dimethylphenol	32.0	26.6	83	3	20	51-110	
Bis(2-chloroethoxy)methane	32.0	29.0	91	4	20	60-110	
2,4-Dichlorophenol	32.0	26.2	82	5	20	62-110	
Naphthalene	32.0	21.4	67	4	20	36-110	
4-Chloroaniline	32.0	26.6	83	5	20	35-128	
Hexachlorobutadiene	32.0	15.8	49	6	20	20-100	
Caprolactam	32.0	18.2	57	5	20	32-100	
4-Chloro-3-methylphenol	32.0	29.7	93	2	20	64-120	
2-Methylnaphthalene	32.0	20.9	65	4	20	34-110	
Hexachlorocyclopentadiene	32.0	15.0 J	47	7	20	10-100	
2,4,6-Trichlorophenol	32.0	25.5	80	8	20	62-110	
2,4,5-Trichlorophenol	32.0	27.1	85	4	20	63-120	
1,1'-Biphenyl	32.0	23.6	74	4	20	40-110	
2-Chloronaphthalene	32.0	22.3	70	5	20	39-110	
2-Nitroaniline	32.0	33.1	104	2	20	59-122	
Dimethyl phthalate	32.0	30.1	94	2	20	63-120	
2,6-Dinitrotoluene	32.0	30.8	96	5	20	63-119	
Acenaphthylene	32.0	24.3	76	5	20	47-110	
3-Nitroaniline	32.0	33.4	104	7	20	47-123	
Acenaphthene	32.0	26.9	84	3	20	46-110	
2,4-Dinitrophenol	64.0	67.0	105	4	20	37-130	
4-Nitrophenol	64.0	43.4	68	0	20	20-110	
Dibenzofuran	32.0	25.4	79	4	20	51-110	
2,4-Dinitrotoluene	32.0	31.8	99	1	20	63-122	
Diethyl phthalate	32.0	30.4	95	3	20	62-120	
Fluorene	32.0	27.2	85	2	20	53-120	
4-Chlorophenyl phenyl ether	32.0	24.3	76	3	20	47-112	
4-Nitroaniline	32.0	28.1	88	4	20	52-147	
4,6-Dinitro-2-methylphenol	64.0	65.3	102	3	20	50-117	
N-Nitrosodiphenylamine	32.0	29.6	92	4	20	66-110	
4-Bromophenyl phenyl ether	32.0	24.4	76	1	20	58-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCSD 500-408755.D

Lab ID: LCSD 500-408755/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Hexachlorobenzene	32.0	25.8	81	3	20	61-120	
Atrazine	32.0	26.3	82	2	20	58-118	
Pentachlorophenol	64.0	53.8	84	5	20	23-129	
Phenanthrene	32.0	29.8	93	5	20	65-120	
Anthracene	32.0	30.7	96	5	20	67-110	
Carbazole	32.0	31.2	98	8	20	61-145	
Di-n-butyl phthalate	32.0	32.8	102	5	20	70-120	
Fluoranthene	32.0	30.7	96	4	20	68-120	
Pyrene	32.0	32.1	100	2	20	70-110	
Butyl benzyl phthalate	32.0	34.3	107	1	20	68-120	
3,3'-Dichlorobenzidine	32.0	28.9	90	7	20	60-132	
Benzo[a]anthracene	32.0	29.8	93	2	20	70-120	
Chrysene	32.0	31.3	98	2	20	68-120	
Bis(2-ethylhexyl) phthalate	32.0	34.9	109	1	20	69-120	
Di-n-octyl phthalate	32.0	33.5	105	5	20	70-122	
Benzo[b]fluoranthene	32.0	30.6	96	1	20	69-123	
Benzo[k]fluoranthene	32.0	28.4	89	8	20	70-120	
Benzo[a]pyrene	32.0	29.6	93	1	20	70-120	
Indeno[1,2,3-cd]pyrene	32.0	30.9	96	0	20	65-133	
Dibenz(a,h)anthracene	32.0	30.4	95	2	20	70-127	
Benzo[g,h,i]perylene	32.0	29.8	93	1	20	70-120	
3 & 4 Methylphenol	32.0	25.7	80	6	20	53-110	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab File ID: MB 500-408755.D Lab Sample ID: MB 500-408755/1-A

Matrix: Water Date Extracted: 11/07/2017 08:30

Instrument ID: CMS01 Date Analyzed: 11/07/2017 17:52

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 500-408755/2-A	LCS 500-408755.D	11/07/2017 15:54
	LCSD 500-408755/3-A	LCSD 500-408755.D	11/07/2017 16:23
CRMS-SW-04-110317	500-136788-1	500-136788-E-1-B.D	11/07/2017 18:50

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab File ID: 1D1026D.D DFTPP Injection Date: 10/26/2017

Instrument ID: CMS01 DFTPP Injection Time: 16:17

Analysis Batch No.: 407173

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	48.0	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	60.7	
70	Less than 2% of mass 69	0.1	(0.2) 1
127	10-80% of Base Peak	52.9	
197	Less than 2% of mass 198	0.7	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	19.7	
365	Greater than 1% of mass 198	2.5	
441	present but less than 24% of mass 442	13.1	(16.5) 2
442	Greater than 50% of mass 198	79.3	
443	15-24% of mass 442	14.4	(18.2) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 500-407173/2	L1STD2.D	10/26/2017	16:56
	IC 500-407173/3	L1STD02.D	10/26/2017	17:26
	IC 500-407173/4	L1STD05.D	10/26/2017	17:56
	IC 500-407173/5	L1STD1.D	10/26/2017	18:26
	IC 500-407173/6	L1STD5.D	10/26/2017	18:56
	IC 500-407173/7	L1STD10.D	10/26/2017	19:25
	IC 500-407173/8	L1STD20.D	10/26/2017	19:55
	ICIS 500-407173/9	L1STD40.D	10/26/2017	20:25
	IC 500-407173/10	L1STD50.D	10/26/2017	20:55
	IC 500-407173/11	L1STD60.D	10/26/2017	21:25
	IC 500-407173/12	L1STD70.D	10/26/2017	21:55
	ICV 500-407173/13	L1ICV.D	10/26/2017	22:25

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab File ID: 1D1107.D DFTPP Injection Date: 11/07/2017

Instrument ID: CMS01 DFTPP Injection Time: 11:53

Analysis Batch No.: 408793

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	53.6	
68	Less than 2% of mass 69	0.5	(0.7) 1
69	Mass 69 Relative abundance	69.0	
70	Less than 2% of mass 69	0.1	(0.2) 1
127	10-80% of Base Peak	56.4	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.2	
275	10-60% of Base Peak	18.3	
365	Greater than 1% of mass 198	2.2	
441	present but less than 24% of mass 442	12.4	(16.6) 2
442	Greater than 50% of mass 198	74.8	
443	15-24% of mass 442	14.6	(19.5) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 500-408793/2	1C1107.D	11/07/2017	12:22
	LCS 500-408755/2-A	LCS 500-408755.D	11/07/2017	15:54
	LCSD 500-408755/3-A	LCSD 500-408755.D	11/07/2017	16:23
	MB 500-408755/1-A	MB 500-408755.D	11/07/2017	17:52
CRMS-SW-04-110317	500-136788-1	500-136788-E -1-B.D	11/07/2017	18:50

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Sample No.: ICIS 500-407173/9 Date Analyzed: 10/26/2017 20:25

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): L1STD40.D Heated Purge: (Y/N) N

Calibration ID: 25663

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		82384	6.52	318863	7.58	159792	9.07
UPPER LIMIT		164768	7.02	637726	8.08	319584	9.57
LOWER LIMIT		41192	6.02	159432	7.08	79896	8.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-407173/13		139103	6.52	508449	7.58	247723	9.07

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Sample No.: ICIS 500-407173/9 Date Analyzed: 10/26/2017 20:25

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): L1STD40.D Heated Purge: (Y/N) N

Calibration ID: 25663

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		258574	10.33	203422	13.83	204736	17.84
UPPER LIMIT		517148	10.83	406844	14.33	409472	18.34
LOWER LIMIT		129287	9.83	101711	13.33	102368	17.34
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-407173/13		417144	10.33	328729	13.84	333235	17.86

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Sample No.: CCVIS 500-408793/2 Date Analyzed: 11/07/2017 12:22

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): 1C1107.D Heated Purge: (Y/N) N

Calibration ID: 25781

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		103210	6.28	374173	7.34	187908	8.82
UPPER LIMIT		206420	6.78	748346	7.84	375816	9.32
LOWER LIMIT		51605	5.78	187087	6.84	93954	8.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 500-408755/2-A		99884	6.28	377936	7.34	182955	8.82
LCSD 500-408755/3-A		99360	6.28	373503	7.34	184277	8.82
MB 500-408755/1-A		96819	6.28	383423	7.34	190618	8.81
500-136788-1	CRMS-SW-04-110317	96547	6.28	371363	7.34	170563	8.82

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Sample No.: CCVIS 500-408793/2 Date Analyzed: 11/07/2017 12:22

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm)

Lab File ID (Standard): 1C1107.D Heated Purge: (Y/N) N

Calibration ID: 25781

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		323555	10.07	257295	13.33	268013	16.89
UPPER LIMIT		647110	10.57	514590	13.83	536026	17.39
LOWER LIMIT		161778	9.57	128648	12.83	134007	16.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 500-408755/2-A		316310	10.07	237776	13.32	244952	16.88
LCSD 500-408755/3-A		304359	10.07	231521	13.32	245553	16.88
MB 500-408755/1-A		332368	10.07	262736	13.31	250327	16.88
500-136788-1	CRMS-SW-04-110317	280319	10.07	234898	13.33	209471	16.94

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: CRMS-SW-04-110317 | Lab Sample ID: 500-136788-1

Matrix: Water | Lab File ID: 500-136788-E-1-B.D

Analysis Method: 8270D | Date Collected: 11/03/2017 15:35

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250(mL) | Date Analyzed: 11/07/2017 18:50

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	<320	^	320	120
108-95-2	Phenol	<40		40	5.4
111-44-4	Bis(2-chloroethyl)ether	<16		16	2.3
95-57-8	2-Chlorophenol	<40		40	4.5
95-48-7	2-Methylphenol	<16		16	2.4
108-60-1	2,2'-oxybis[1-chloropropane]	<16		16	3.0
98-86-2	Acetophenone	<40		40	5.3
621-64-7	N-Nitrosodi-n-propylamine	<4.0		4.0	1.2
67-72-1	Hexachloroethane	<40		40	4.8
98-95-3	Nitrobenzene	<8.0		8.0	3.6
78-59-1	Isophorone	<16		16	3.0
88-75-5	2-Nitrophenol	<80		80	20
105-67-9	2,4-Dimethylphenol	<80		80	14
111-91-1	Bis(2-chloroethoxy)methane	<16		16	2.3
120-83-2	2,4-Dichlorophenol	<80		80	21
91-20-3	Naphthalene	<8.0		8.0	2.5
106-47-8	4-Chloroaniline	<80		80	16
87-68-3	Hexachlorobutadiene	<40		40	4.1
105-60-2	Caprolactam	<80		80	12
59-50-7	4-Chloro-3-methylphenol	<80		80	18
91-57-6	2-Methylnaphthalene	1.6	J	16	0.52
77-47-4	Hexachlorocyclopentadiene	<160		160	51
88-06-2	2,4,6-Trichlorophenol	<40		40	5.7
95-95-4	2,4,5-Trichlorophenol	<80		80	21
92-52-4	1,1'-Biphenyl	<40		40	2.9
91-58-7	2-Chloronaphthalene	<16		16	1.9
88-74-4	2-Nitroaniline	<40		40	10
131-11-3	Dimethyl phthalate	<40		40	2.5
606-20-2	2,6-Dinitrotoluene	<8.0		8.0	0.59
208-96-8	Acenaphthylene	<8.0		8.0	2.1
99-09-2	3-Nitroaniline	<80		80	14
83-32-9	Acenaphthene	<8.0		8.0	2.5
51-28-5	2,4-Dinitrophenol	<160		160	69
100-02-7	4-Nitrophenol	<160		160	59

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: CRMS-SW-04-110317 | Lab Sample ID: 500-136788-1

Matrix: Water | Lab File ID: 500-136788-E-1-B.D

Analysis Method: 8270D | Date Collected: 11/03/2017 15:35

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250(mL) | Date Analyzed: 11/07/2017 18:50

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
132-64-9	Dibenzofuran	<16		16	2.1
121-14-2	2,4-Dinitrotoluene	<8.0		8.0	2.0
84-66-2	Diethyl phthalate	<40		40	2.9
86-73-7	Fluorene	<8.0		8.0	2.0
7005-72-3	4-Chlorophenyl phenyl ether	<40		40	5.1
100-01-6	4-Nitroaniline	<80		80	13
534-52-1	4,6-Dinitro-2-methylphenol	<160		160	47
86-30-6	N-Nitrosodiphenylamine	<16		16	3.0
101-55-3	4-Bromophenyl phenyl ether	<40		40	4.3
118-74-1	Hexachlorobenzene	<4.0		4.0	0.64
1912-24-9	Atrazine	<40		40	5.0
87-86-5	Pentachlorophenol	<160		160	32
85-01-8	Phenanthrene	3.6	J	8.0	2.4
120-12-7	Anthracene	<8.0		8.0	2.7
86-74-8	Carbazole	<40		40	2.8
84-74-2	Di-n-butyl phthalate	<40		40	5.8
206-44-0	Fluoranthene	<8.0		8.0	3.6
129-00-0	Pyrene	5.2	J	8.0	3.4
85-68-7	Butyl benzyl phthalate	<16		16	3.8
91-94-1	3,3'-Dichlorobenzidine	<40		40	14
56-55-3	Benzo[a]anthracene	<1.6		1.6	0.45
218-01-9	Chrysene	<1.6		1.6	0.55
117-81-7	Bis(2-ethylhexyl) phthalate	<80		80	14
117-84-0	Di-n-octyl phthalate	<80		80	8.4
205-99-2	Benzo[b]fluoranthene	<1.6		1.6	0.65
207-08-9	Benzo[k]fluoranthene	<1.6		1.6	0.51
50-32-8	Benzo[a]pyrene	<1.6		1.6	0.79
193-39-5	Indeno[1,2,3-cd]pyrene	<1.6		1.6	0.60
53-70-3	Dibenz(a,h)anthracene	<2.4		2.4	0.41
191-24-2	Benzo[g,h,i]perylene	<8.0		8.0	3.0
15831-10-4	3 & 4 Methylphenol	<16		16	3.6

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: CRMS-SW-04-110317 | Lab Sample ID: 500-136788-1

Matrix: Water | Lab File ID: 500-136788-E-1-B.D

Analysis Method: 8270D | Date Collected: 11/03/2017 15:35

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250(mL) | Date Analyzed: 11/07/2017 18:50

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 10

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	94		27-110
4165-62-2	Phenol-d5 (Surr)	53		20-100
4165-60-0	Nitrobenzene-d5 (Surr)	88		36-120
321-60-8	2-Fluorobiphenyl (Surr)	93		34-110
118-79-6	2,4,6-Tribromophenol (Surr)	92		40-145
1718-51-0	Terphenyl-d14 (Surr)	99		40-145

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\500-136788-E-1-B.D
Lims ID: 500-136788-E-1-B
Client ID: CRMS-SW-04-110317
Sample Type: Client
Inject. Date: 07-Nov-2017 18:50:30 ALS Bottle#: 15 Worklist Smp#: 21
Injection Vol: 5.0 ul Dil. Factor: 10.0000
Sample Info: 500-136788-E-1-B
Misc. Info.: 500-0048887-021
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 14-Nov-2017 12:07:15 Calib Date: 05-Nov-2017 14:37:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171105-48841.b\1C1105b.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: lesiakk Date: 08-Nov-2017 08:53:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.277	6.282	-0.005	96	96547	3.20	
* 2 Naphthalene-d8	136	7.338	7.343	-0.005	99	371363	3.20	
* 3 Acenaphthene-d10	164	8.817	8.817	0.000	95	170563	3.20	
* 4 Phenanthrene-d10	188	10.072	10.072	0.000	99	280319	3.20	
* 5 Chrysene-d12	240	13.325	13.325	0.000	99	234898	3.20	
* 6 Perylene-d12	264	16.944	16.892	0.052	97	209471	3.20	
$ 7 2-Fluorophenol	112	5.207	5.212	-0.005	94	20645	0.9437	
$ 8 Phenol-d5	99	5.954	5.968	-0.014	93	22069	0.5253	
$ 9 Nitrobenzene-d5	82	6.725	6.734	-0.010	93	38156	0.8771	
$ 10 2-Fluorobiphenyl	172	8.223	8.227	-0.004	98	67121	0.9341	
$ 11 2,4,6-Tribromophenol	330	9.483	9.483	0.000	81	8273	0.9246	
$ 12 Terphenyl-d14	244	11.651	11.651	0.000	99	59268	0.99	
68 2-Methylnaphthalene	142	7.928	7.932	-0.004	89	3013	0.0390	
127 Phenanthrene	178	10.091	10.096	-0.005	87	8842	0.0905	
136 Fluoranthene	202	11.233	11.238	-0.005	91	4554	0.0467	
141 Pyrene	202	11.504	11.509	-0.005	97	13517	0.1300	

Reagents:

SM_HIVOLISTD_00158 Amount Added: 10.00 Units: uL Run Reagent

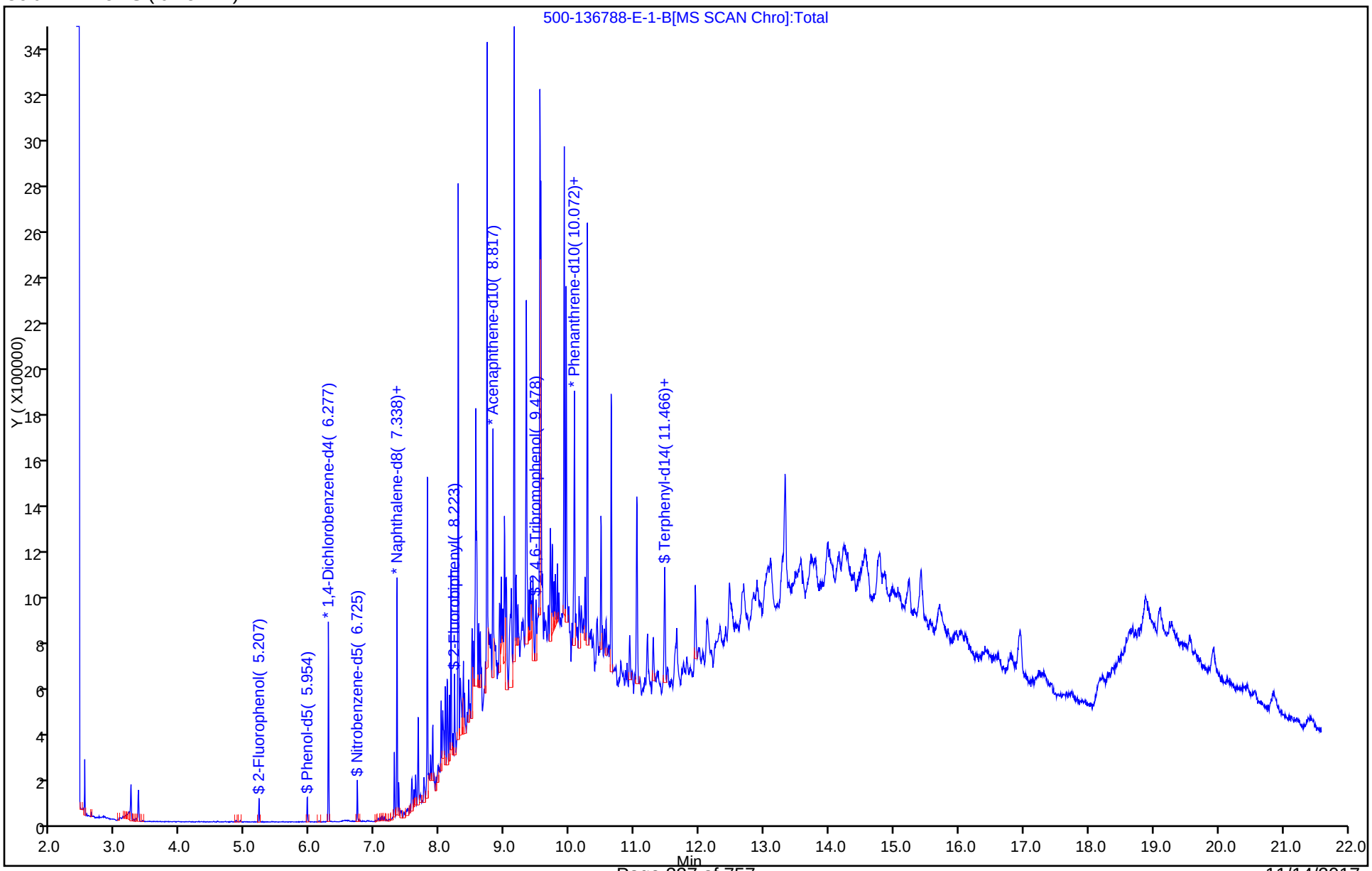
Report Date: 14-Nov-2017 12:07:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\500-136788-E-1-B.D

Injection Date:	07-Nov-2017 18:50:30	Instrument ID:	CMS01	Operator ID:	AD
Lims ID:	500-136788-E-1-B	Lab Sample ID:	500-136788-1	Worklist Smp#:	21
Client ID:	CRMS-SW-04-110317				
Injection Vol:	5.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	15
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\500-136788-E-1-B.D
Lims ID: 500-136788-E-1-B
Client ID: CRMS-SW-04-110317
Sample Type: Client
Inject. Date: 07-Nov-2017 18:50:30 ALS Bottle#: 15 Worklist Smp#: 21
Injection Vol: 5.0 ul Dil. Factor: 10.0000
Sample Info: 500-136788-E-1-B
Misc. Info.: 500-0048887-021
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 14-Nov-2017 12:07:15 Calib Date: 05-Nov-2017 14:37:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171105-48841.b\1C1105b.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: lesiakk Date: 08-Nov-2017 08:53:22

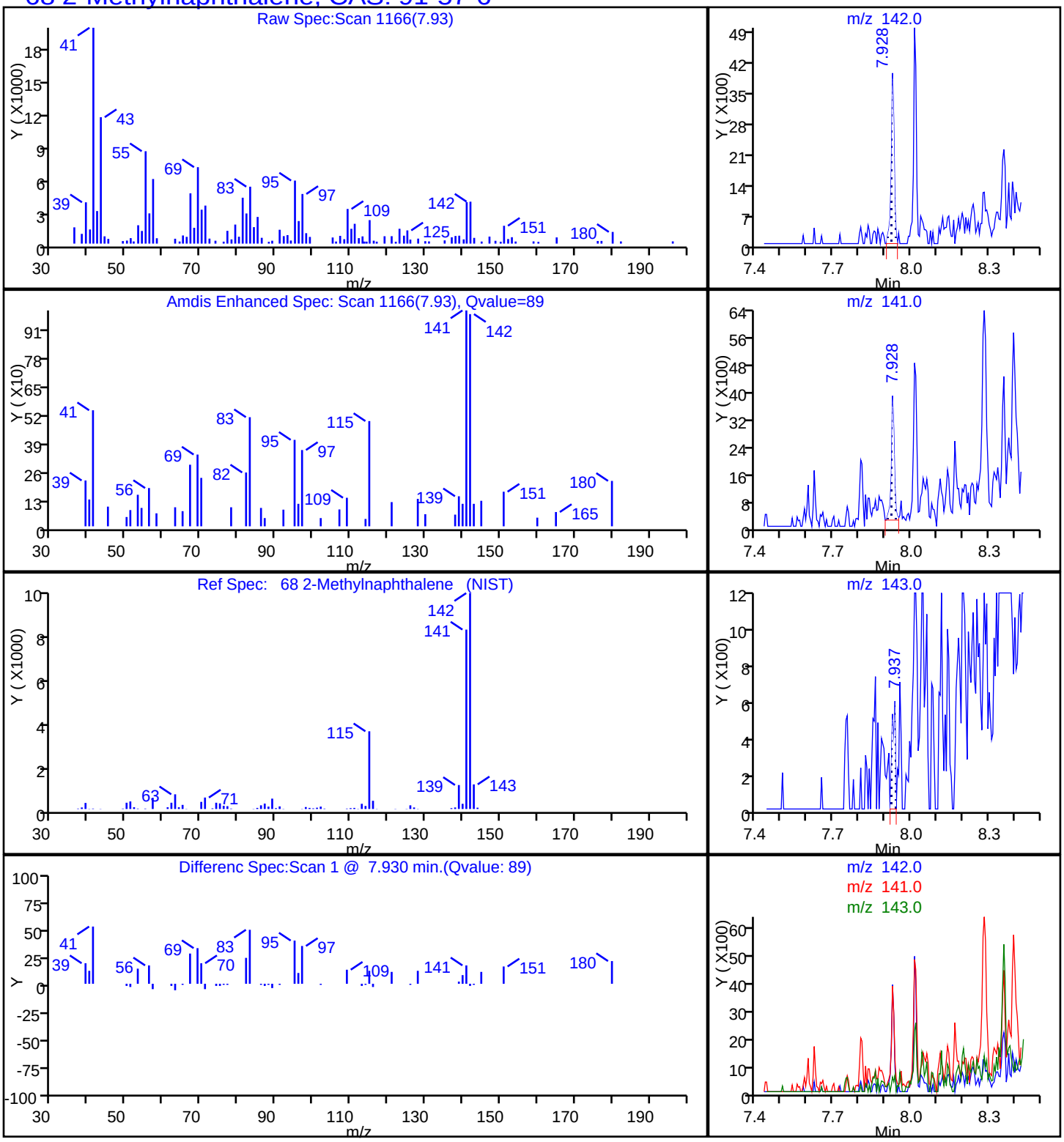
Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	10.0	0.9437	94.37
$ 8 Phenol-d5	10.0	0.5253	52.53
$ 9 Nitrobenzene-d5	10.0	0.8771	87.71
$ 10 2-Fluorobiphenyl	10.0	0.9341	93.41
$ 11 2,4,6-Tribromophenol	10.0	0.9246	92.46
$ 12 Terphenyl-d14	10.0	0.99	99.45

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\500-136788-E-1-B.D

Injection Date:	07-Nov-2017 18:50:30	Instrument ID:	CMS01		
Lims ID:	500-136788-E-1-B	Lab Sample ID:	500-136788-1		
Client ID:	CRMS-SW-04-110317				
Operator ID:	AD	ALS Bottle#:	15	Worklist Smp#:	21
Injection Vol:	5.0 ul	Dil. Factor:	10.0000		
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		
Column:	ZB5MS (0.25 mm)	Detector	MS SCAN		

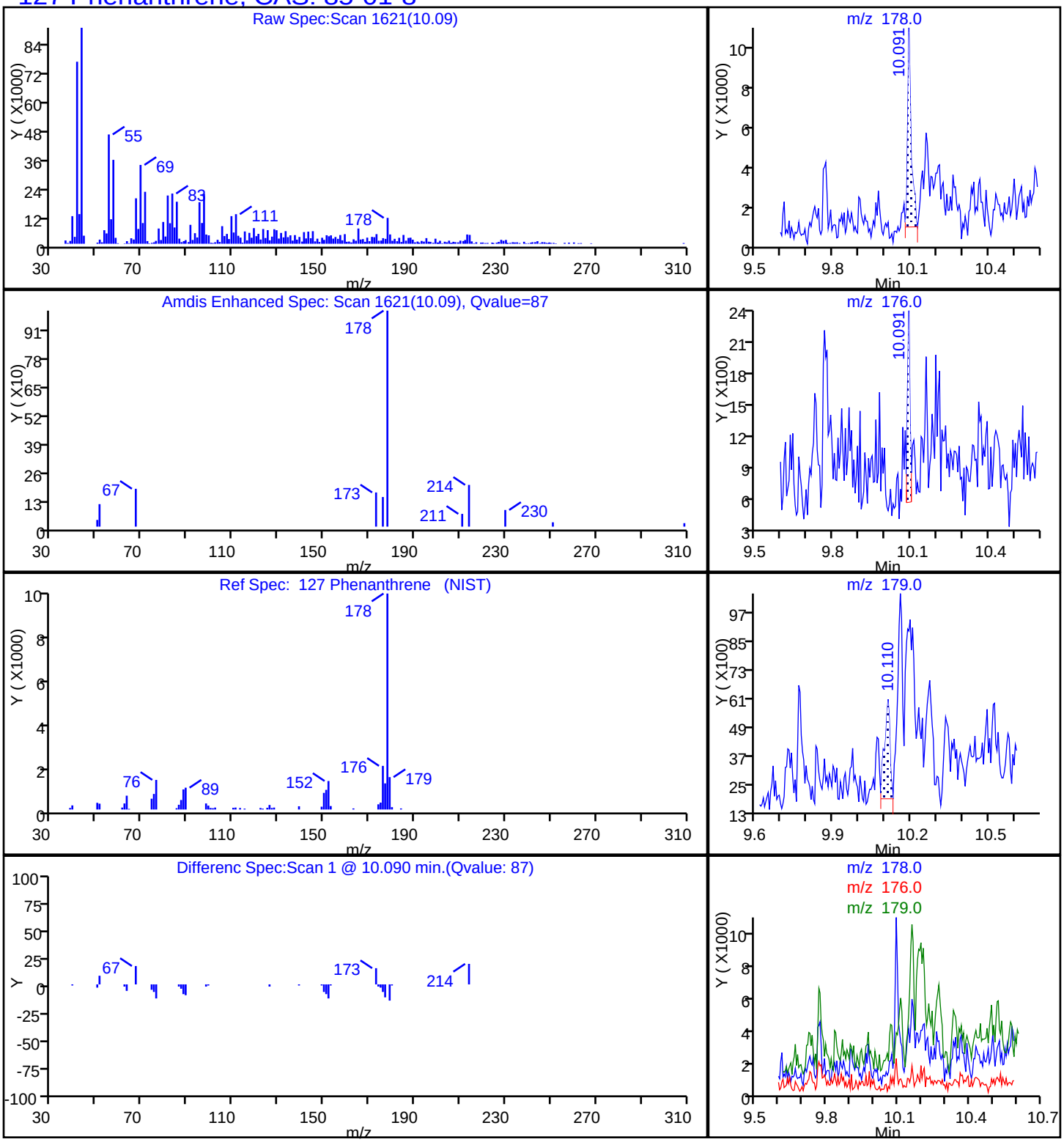
68 2-Methylnaphthalene, CAS: 91-57-6



TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\500-136788-E-1-B.D				
Injection Date:	07-Nov-2017 18:50:30	Instrument ID:	CMS01		
Lims ID:	500-136788-E-1-B	Lab Sample ID:	500-136788-1		
Client ID:	CRMS-SW-04-110317				
Operator ID:	AD	ALS Bottle#:	15	Worklist Smp#:	21
Injection Vol:	5.0 ul	Dil. Factor:	10.0000		
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		
Column:	ZB5MS (0.25 mm)	Detector	MS SCAN		

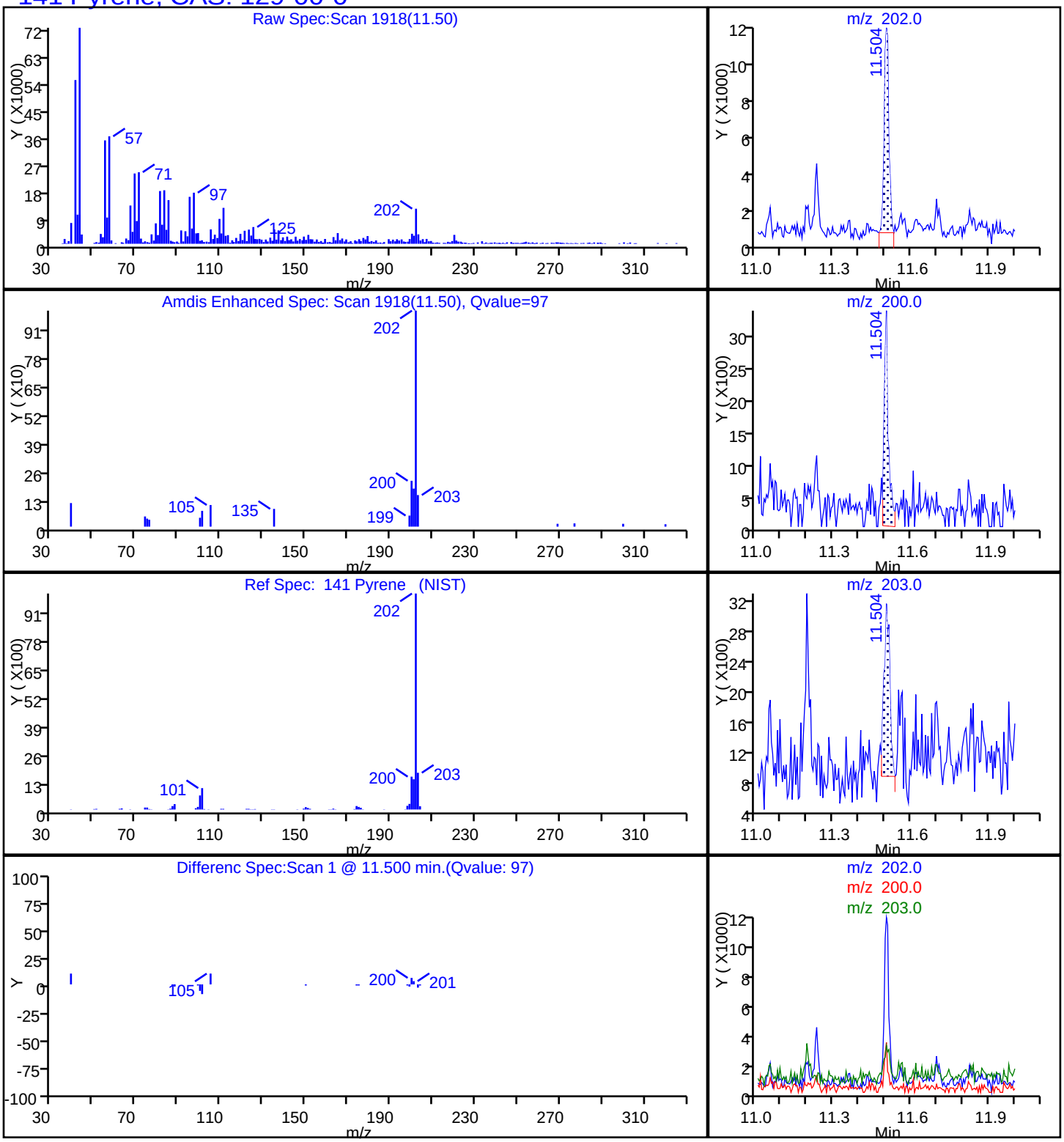
127 Phenanthrene, CAS: 85-01-8



TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\500-136788-E-1-B.D				
Injection Date:	07-Nov-2017 18:50:30	Instrument ID:	CMS01		
Lims ID:	500-136788-E-1-B	Lab Sample ID:	500-136788-1		
Client ID:	CRMS-SW-04-110317				
Operator ID:	AD	ALS Bottle#:	15	Worklist Smp#:	21
Injection Vol:	5.0 ul	Dil. Factor:	10.0000		
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		
Column:	ZB5MS (0.25 mm)	Detector	MS SCAN		

141 Pyrene, CAS: 129-00-0



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407173/3	L1STD02.D
Level 2	IC 500-407173/4	L1STD05.D
Level 3	IC 500-407173/5	L1STD1.D
Level 4	IC 500-407173/2	L1STD2.D
Level 5	IC 500-407173/6	L1STD5.D
Level 6	IC 500-407173/7	L1STD10.D
Level 7	IC 500-407173/8	L1STD20.D
Level 8	ICIS 500-407173/9	L1STD40.D
Level 9	IC 500-407173/10	L1STD50.D
Level 10	IC 500-407173/11	L1STD60.D
Level 11	IC 500-407173/12	L1STD70.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
1,4-Dioxane	0.2335 0.3901	0.2561	0.2564	0.2773	0.2549 0.3059	Ave		0.2820			0.0100	18.7		20.0			
N-Nitrosodimethylamine	1.2008 1.2355	1.1292	1.1352	1.1751	1.1685 1.2227	Ave		1.1810			0.0100	3.5		20.0			
Pyridine	0.7446 1.4391	0.9649	1.0143	1.2670	0.6736 1.3769	Qua2	-0.170	0.7025	0.0268974		0.0100				0.9970		0.9900
Benzaldehyde	0.7446 0.2896	0.5070	0.4369	0.3285	+++++ 0.3135	Ave		0.4367			0.0100	39.4	*	20.0			
Phenol	1.2733 1.6747	+++++ 1.3667	1.4041	1.5304	1.2718 1.6276	Ave		1.4498			0.8000	11.3		20.0			
Aniline	1.9244 1.9821	1.8038	1.8124	1.8920	1.9765 1.9513	Ave		1.9061			0.0100	3.9		20.0			
Bis(2-chloroethyl)ether	1.1072 1.2032	1.0123	1.0481	1.0723 1.0562	1.1829 1.1640	Ave		1.1058			0.7000	6.3		20.0			
2-Chlorophenol	1.1447 1.3814	1.1674	1.1850	1.2614	1.1261 1.3381	Ave		1.2291			0.8000	8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
n-Decane	2.4630 2.3003	2.2470	2.1908 2.3130	2.3656 2.1736	2.5000 2.2636	Ave		2.3130			0.0100	4.9		20.0			
1,3-Dichlorobenzene	1.5246 1.5938	1.4018	1.4765	1.3738 1.5146	1.5609 1.5690	Ave		1.5019			0.0100	5.3		20.0			
1,4-Dichlorobenzene	1.5259 1.5918	1.4544	1.4943	1.5045 1.5349	1.6377 1.5963	Ave		1.5425			0.0100	4.0		20.0			
Benzyl alcohol	0.8837 0.8784	0.7910	0.8181	0.8372	0.9794 0.8591	Ave		0.8638			0.0100	7.0		20.0			
1,2-Dichlorobenzene	1.4507 1.5451	1.4293	1.4141	1.4179 1.4661	1.5462 1.5225	Ave		1.4740			0.0100	3.8		20.0			
2-Methylphenol	1.0354 1.1053	0.9738	1.0076	0.8214 1.0298	1.0767 1.0782	Ave		1.0160			0.7000	8.8		20.0			
2,2'-oxybis[1-chloropropane]	3.4192 3.0865	2.9791	2.9604	3.5511 2.9127	3.6348 3.0500	Ave		3.1992			0.0100	9.0		20.0			
Indene	2.4928 2.4273	2.2961	2.3700	2.3594	2.4926 2.4433	Ave		2.4116			0.0100	3.0		20.0			
3 & 4 Methylphenol	1.3051 1.3219	1.1999	1.1997	1.1077 1.2296	1.3636 1.2906	Ave		1.2523			0.6000	6.6		20.0			
N-Nitrosodi-n-propylamine	1.0521 0.9859	1.0844 0.8661	1.0704 0.8937	1.1784 0.8923	1.1503 0.9625	Ave		1.0136			0.5000	10.9		20.0			
Acetophenone	2.0129 1.8758	1.7548	2.2518 1.7089	1.8903 1.7401	2.1581 1.8268	Ave		1.9133			0.0100	10.0		20.0			
Hexachloroethane	0.6054 0.6339	0.5663	0.5798	0.5944	0.6069 0.6262	Ave		0.6018			0.3000	4.0		20.0			
Nitrobenzene	0.3395 0.4054	0.3356	0.2930 0.3455	0.3076 0.3627	0.3518 0.3802	Ave		0.3468			0.2000	9.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Isophorone	0.5803 0.6604	0.5496	0.5645	0.6310 0.5852	0.6223 0.6071	Ave		0.6001			0.4000	6.2		20.0			
2-Nitrophenol	0.1634 0.1993	0.1650	0.1646	0.1801	0.1579 0.1841	Ave		0.1735			0.1000	8.5		20.0			
2,4-Dimethylphenol	0.2870 0.3332	0.2727	0.2857	0.3025	0.3005 0.3065	Ave		0.2983			0.2000	6.5		20.0			
Bis(2-chloroethoxy)methane	0.3348 0.3958	0.3213	0.3320	0.3266 0.3446	0.3517 0.3606	Ave		0.3459			0.3000	6.9		20.0			
Benzoic acid	0.1203 0.2146	0.1393	0.1526	0.1759	+++++ 0.1888	Qua2	0.0687	0.0887	0.0042040		0.0100				0.9980		0.9900
2,4-Dichlorophenol	0.2835 0.3217	0.2767	0.2765	0.2879	0.2755 0.2952	Ave		0.2881			0.2000	5.7		20.0			
1,2,4-Trichlorobenzene	0.3168 0.3476	0.3139	0.3189	0.3005 0.3244	0.3122 0.3366	Ave		0.3213			0.0100	4.6		20.0			
Naphthalene	0.9453 1.0502	0.9168	0.8777 0.9263	0.9032 0.9593	1.0124 0.9933	Ave		0.9538			0.7000	5.8		20.0			
4-Chloroaniline	0.4028 0.4129	0.3827	0.3650	0.3848	0.4084 0.3857	Ave		0.3918			0.0100	4.3		20.0			
2,6-Dichlorophenol	0.2828 0.3135	0.2756	0.2779	0.2862	0.2969 0.2951	Ave		0.2897			0.0100	4.6		20.0			
Hexachlorobutadiene	0.1772 0.1787	0.1622	0.1690	0.1565 0.1693	0.1790 0.1715	Ave		0.1704			0.0100	4.7		20.0			
Caprolactam	0.0790 0.0996	0.0791	0.0849	0.0830	0.0786 0.0890	Ave		0.0847			0.0100	8.9		20.0			
4-Chloro-3-methylphenol	0.2701 0.3210	0.2585	0.2695	0.2798	0.2700 0.2852	Ave		0.2791			0.2000	7.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
2-Methylnaphthalene	0.6459 0.7006	0.7298 0.6119	0.6708 0.6151	0.6972 0.6354	0.7014 0.6516	Ave		0.6660			0.4000	6.0		20.0			
1-Methylnaphthalene	0.5855 0.6371	0.5479	0.6119 0.5633	0.6459 0.5839	0.6359 0.5970	Ave		0.6009			0.0100	5.7		20.0			
Hexachlorocyclopentadiene	0.3658 0.4085	0.3877	0.3706	0.3788	+++++ 0.3934	Ave		0.3841			0.0500	4.1		20.0			
1,2,4,5-Tetrachlorobenzene	0.6435 0.6271	0.5921	0.5841	0.5899	0.6730 0.6036	Ave		0.6162			0.0100	5.4		20.0			
2,4,6-Trichlorophenol	0.4150 0.4459	0.3881	0.3988	0.3990	0.4114 0.4238	Ave		0.4117			0.2000	4.7		20.0			
2,4,5-Trichlorophenol	0.4272 0.4451	0.3813	0.3871	0.4079	0.4197 0.4390	Ave		0.4153			0.2000	5.9		20.0			
1,1'-Biphenyl	1.5057 1.6157	1.4629	1.4245	1.4612	1.5886 1.5550	Ave		1.5162			0.0100	4.7		20.0			
2-Chloronaphthalene	1.3126 1.3502	1.2218	1.1927	1.2380 1.2322	1.3290 1.2961	Ave		1.2716			0.8000	4.5		20.0			
2-Nitroaniline	0.3164 0.3857	0.3161	0.3306	0.3325	0.3253 0.3679	Ave		0.3392			0.0100	7.9		20.0			
Dimethyl phthalate	1.2925 1.3878	1.2147	1.2268	1.2557 1.2459	1.3589 1.3111	Ave		1.2867			0.0100	4.9		20.0			
m-Dinitrobenzene	0.1742 0.2132	0.1694	0.1667	0.1821	0.1664 0.1951	Ave		0.1810			0.0100	9.7		20.0			
2,6-Dinitrotoluene	0.2832 0.3212	0.2862 0.2699	0.2683 0.2757	0.2733 0.2843	0.2702 0.3024	Ave		0.2835			0.2000	5.9		20.0			
Acenaphthylene	2.0363 2.1179	1.9079	1.8058 1.8934	1.9808 1.9093	2.0161 2.0026	Ave		1.9633			0.9000	4.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
3-Nitroaniline	0.2925 0.2900	0.2584	0.2546	0.2487	0.2785 0.2664	Ave		0.2699			0.0100	6.4		20.0			
2,4-Dinitrophenol	0.1186 0.1878	0.1284	0.1436	0.1595	+++++ 0.1732	Ave		0.1519			0.0100	17.5		20.0			
Acenaphthene	1.2338 1.3268	1.2134	1.0570 1.2238	1.2081 1.2230	1.2598 1.2906	Ave		1.2263			0.9000	6.1		20.0			
4-Nitrophenol	0.1803 0.2206	0.1785	0.1792	0.1921	0.1513 0.2062	Ave		0.1869			0.0100	11.9		20.0			
2,4-Dinitrotoluene	0.3474 0.4188	0.3433	0.2343 0.3590	0.2947 0.3629	0.3376 0.3863	Lin1	-0.041	0.3864			0.2000				0.9950		0.9900
Dibenzofuran	1.7395 1.8097	1.6430	1.6417	1.7145 1.6270	1.8064 1.7188	Ave		1.7126			0.8000	4.2		20.0			
2,3,4,6-Tetrachlorophenol	0.3164 0.3481	0.3031	0.2938	0.3052	0.3107 0.3276	Ave		0.3150			0.0100	5.7		20.0			
Diethyl phthalate	1.2791 1.2915	1.1708	1.1468	1.2557 1.1617	1.2825 1.2175	Ave		1.2257			0.0100	4.8		20.0			
Hexadecane	0.5968 0.8656	0.6107	0.6516	0.7350	0.6001 0.8149	Ave		0.6964			0.0100	15.8		20.0			
4-Chlorophenyl phenyl ether	0.6465 0.6469	0.6289	0.5856	0.5880	0.7002 0.6151	Ave		0.6302			0.4000	6.3		20.0			
4-Nitroaniline	0.2914 0.2439	0.2598	0.2422	0.2151	+++++ 0.2178	Ave		0.2450			0.0100	11.6		20.0			
Fluorene	1.3279 1.3598	1.2637	1.2526 1.2419	1.2633 1.2577	1.4101 1.3094	Ave		1.2985			0.9000	4.4		20.0			
4,6-Dinitro-2-methylphenol	0.0937 0.1436	0.1058	0.1154	0.1244	0.0926 0.1340	Ave		0.1156			0.0100	16.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
N-Nitrosodiphenylamine	0.5227 0.5858	0.5237	0.5037 0.5333	0.5516 0.5329	0.5822 0.5617	Ave		0.5442			0.0100	5.2		20.0			
Diphenylamine	0.6149 0.6892	0.6161	0.6275	0.6270	0.6850 0.6609	Ave		0.6458			0.0100	5.0		20.0			
1,2-Diphenylhydrazine	1.3611 1.5033	1.2632	1.2581	1.3099	1.3519 1.3924	Ave		1.3486			0.0100	6.3		20.0			
4-Bromophenyl phenyl ether	0.2011 0.2131	0.2001	0.1955	0.1927	0.2326 0.2075	Ave		0.2061			0.1000	6.6		20.0			
Hexachlorobenzene	0.2108 0.2158	0.2279 0.2054	0.1984 0.1986	0.2107 0.1970	0.2318 0.2047	Ave		0.2101			0.1000	5.7		20.0			
Atrazine	0.1725 0.1705	0.1612	0.1608	0.1586	0.1962 0.1647	Ave		0.1692			0.0100	7.7		20.0			
n-Octadecane	0.6629 0.6326	0.6620	0.6403	0.6796 0.6190	0.7376 0.6213	Ave		0.6569			0.0100	5.9		20.0			
Pentachlorophenol	0.1103 0.1360	0.1183	0.1202	0.1239	0.1046 0.1299	Ave		0.1204			0.0500	9.0		20.0			
Phenanthrene	1.1071 1.1827	1.0747	1.0417 1.0556	1.1503 1.0905	1.2005 1.1338	Ave		1.1152			0.7000	5.0		20.0			
Anthracene	1.1364 1.2198	1.0987	1.0192 1.1190	1.0930 1.1259	1.2101 1.1611	Ave		1.1315			0.7000	5.4		20.0			
Carbazole	0.9499 1.0357	0.9371	0.9164	0.9383 0.9122	1.0195 0.9621	Ave		0.9589			0.0100	4.8		20.0			
Di-n-butyl phthalate	1.1341 1.3237	1.1037	1.1294	1.1392 1.1870	1.2209 1.2310	Ave		1.1836			0.0100	6.1		20.0			
Fluoranthene	1.1247 1.2230	1.0962	0.9642 1.0947	1.0178 1.1126	1.2232 1.1568	Ave		1.1126			0.6000	7.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Benzidine	0.4056 0.6057	0.4724	0.4469	0.5800	0.4472 0.5928	Ave		0.5072			0.0100	16.3		20.0			
Pyrene	1.4236 1.5054	1.3886	1.2622 1.4015	1.4049 1.4176	1.4869 1.4528	Ave		1.4160			0.6000	4.9		20.0			
Butyl benzyl phthalate	0.6378 0.7387	0.6481	0.6484	0.6141 0.6780	0.6503 0.7080	Ave		0.6654			0.0100	6.1		20.0			
3,3'-Dichlorobenzidine	0.4329 0.4750	0.4205	0.4124	0.4297	0.4099 0.4562	Ave		0.4338			0.0100	5.5		20.0			
Bis(2-ethylhexyl) phthalate	0.8554 0.9863	0.8532	0.8764	0.8688 0.9107	0.8903 0.9825	Ave		0.9029			0.0100	5.9		20.0			
Benzo[a]anthracene	1.5095 1.2237 1.3229	1.3242 1.2122	1.2169 1.2232	1.3022 1.2327	1.2979 1.2918	Ave		1.2870			0.8000	6.7		20.0			
Chrysene	1.2111 1.1142 1.2607	1.1804 1.1293	1.0585 1.1357	1.1918 1.1524	1.1898 1.2105	Ave		1.1668			0.7000	4.8		20.0			
Di-n-octyl phthalate	1.1858 1.4173	1.1906	1.1839	1.2619	1.2411 1.3334	Ave		1.2591			0.0100	7.0		20.0			
Benzo[b]fluoranthene	1.2404 1.1064 1.3265	1.0536 1.1355	1.0705 1.0914	1.0762 1.2300	1.2205 1.2071	Ave		1.1598			0.7000	7.7		20.0			
Benzo[k]fluoranthene	1.3582 1.0990 1.1996	1.1418 1.0837	1.1068 1.1201	1.1494 1.1804	1.2737 1.1996	Ave		1.1738			0.7000	7.0		20.0			
Benzo[a]pyrene	1.3790 1.1472 1.2784	1.0656 1.1207	1.0433 1.1240	1.0982 1.1720	1.1714 1.2004	Ave		1.1637			0.7000	8.3		20.0			
Indeno[1,2,3-cd]pyrene	1.1205 1.2894 1.4080	1.1294 1.2583	1.1206 1.2707	1.2528 1.3063	1.3689 1.3517	Ave		1.2615			0.5000	8.0		20.0			
Dibenz(a,h)anthracene	1.1238 1.0359 1.1326	1.0289 0.9986	0.9450 1.0297	0.9711 1.0743	1.1050 1.0854	Ave		1.0482			0.4000	5.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Benzo[g,h,i]perylene	1.1029 1.1530	1.0520	1.0756 1.0835	1.0823 1.0927	1.1639 1.1307	Ave		1.1041			0.5000	3.4		20.0			
2-Fluorophenol (Surr)	0.7182 1.2283	0.7950	0.6763 0.9269	0.8409 1.0768	0.7469 1.1556	Qua2	0.0097	0.6789	0.0380099		0.0100				0.9960		0.9900
Phenol-d5 (Surr)	1.3576 1.6033	1.3783	1.2099 1.4052	1.2015 1.5131	1.3459 1.5177	Ave		1.3925			0.0100	9.8		20.0			
Nitrobenzene-d5 (Surr)	0.3639 0.4501	0.3492	0.3397 0.3803	0.3408 0.4032	0.3482 0.3984	Ave		0.3749			0.0100	9.9		20.0			
2-Fluorobiphenyl (Surr)	1.3661 1.4369	1.2534	1.3069 1.3170	1.2774 1.3297	1.4827 1.3630	Ave		1.3481			0.0100	5.5		20.0			
2,4,6-Tribromophenol (Surr)	0.1836 0.1864	0.1603	0.1176 0.1721	0.1647 0.1714	0.1798 0.1749	Ave		0.1679			0.0100	12.3		20.0			
Terphenyl-d14 (Surr)	0.8117 0.8815	0.7496	0.7374 0.8144	0.8446 0.8208	0.8124 0.8343	Ave		0.8119			0.0100	5.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407173/3	L1STD02.D
Level 2	IC 500-407173/4	L1STD05.D
Level 3	IC 500-407173/5	L1STD1.D
Level 4	IC 500-407173/2	L1STD2.D
Level 5	IC 500-407173/6	L1STD5.D
Level 6	IC 500-407173/7	L1STD10.D
Level 7	IC 500-407173/8	L1STD20.D
Level 8	ICIS 500-407173/9	L1STD40.D
Level 9	IC 500-407173/10	L1STD50.D
Level 10	IC 500-407173/11	L1STD60.D
Level 11	IC 500-407173/12	L1STD70.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
1,4-Dioxane	DCBd 4	Ave	12644 199510	36767	52800	102896	6255 133302	2.00 14.0	4.00	8.00	10.0	1.00 12.0
N-Nitrosodimethylamine	DCBd 4	Ave	65022 631806	162146	233805	435972	28668 532899	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Pyridine	DCBd 4	Qua2	80635 1471814	277113	417824	940161	33052 1200191	4.00 28.0	8.00	16.0	20.0	2.00 24.0
Benzaldehyde	DCBd 4	Ave	40321 148071	72795	89993	121891	+++++ 136642	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
Phenol	DCBd 4	Ave	68948 856420	+++++ 196238	289186	567804	31202 709382	2.00 14.0	+++++ 4.00	8.00	10.0	1.00 12.0
Aniline	DCBd 4	Ave	104207 1013590	259012	373272	701939	48492 850464	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	59957 615308	145354	215866	10557 391853	29022 507301	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Chlorophenol	DCBd 4	Ave	61984 706390	167626	244053	467979	27629 583195	2.00 14.0	4.00	8.00	10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
n-Decane	DCBd 4	Ave	133371 1176326	322650	10227 476379	23290 806429	61335 986539	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
1,3-Dichlorobenzene	DCBd 4	Ave	82557 815021	201282	304106	13526 561929	38296 683833	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
1,4-Dichlorobenzene	DCBd 4	Ave	82628 813984	208832	307773	14812 569439	40181 695747	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzyl alcohol	DCBd 4	Ave	47852 449195	113573	168501	310597	24029 374428	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2-Dichlorobenzene	DCBd 4	Ave	78555 790116	205239	291240	13960 543928	37934 663565	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Methylphenol	DCBd 4	Ave	56069 565216	139835	207522	8087 382069	26415 469916	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	185151 1578370	427771	609729	34962 1080634	89177 1329283	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Indene	DCBd 4	Ave	269973 2482495	659397	976254	1750678	122307 2129797	4.00 28.0	8.00	16.0	20.0	2.00 24.0
3 & 4 Methylphenol	DCBd 4	Ave	70673 675968	172294	247080	10906 456187	33456 562478	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
N-Nitrosodi-n-propylamine	DCBd 4	Ave	56972 504176	2914 124364	4997 184066	11602 331065	28223 419511	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acetophenone	DCBd 4	Ave	108997 959232	251975	10512 351972	18611 645593	52948 796180	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Hexachloroethane	DCBd 4	Ave	32782 324142	81312	119414	220537	14889 272932	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Nitrobenzene	NPT	Ave	81702 739466	190300	6732 275400	13374 498019	40676 620086	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Isophorone	NPT	Ave	139665 1204621	311633	450033	27437 803629	71951 989971	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitrophenol	NPT	Ave	39332 363526	93573	131237	247294	18251 300192	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4-Dimethylphenol	NPT	Ave	69070 607698	154627	227761	415324	34743 499792	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-chloroethoxy)methane	NPT	Ave	80583 721988	182188	264654	14201 473196	40665 588045	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzoic acid	NPT	Qua2	57917 782972	157963	243292	483127	+++++ 615759	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
2,4-Dichlorophenol	NPT	Ave	68225 586790	156918	220405	395302	31849 481326	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,2,4-Trichlorobenzene	NPT	Ave	76240 634087	177963	254180	13067 445392	36092 548866	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Naphthalene	NPT	Ave	227523 1915609	519830	20168 738399	39272 1317227	117059 1619813	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Chloroaniline	NPT	Ave	96946 753110	216989	290932	528438	47219 628989	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dichlorophenol	NPT	Ave	68066 571773	156275	221529	393044	34331 481225	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobutadiene	NPT	Ave	42652 325959	91985	134702	6805 232471	20700 279645	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Caprolactam	NPT	Ave	19025 181695	44843	67653	114027	9086 145150	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Chloro-3-methylphenol	NPT	Ave	65003 585439	146558	214811	384167	31220 465085	2.00 14.0	4.00	8.00	10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
2-Methylnaphthalene	NPT	Ave	155456 1277852	8305 346955	15413 490345	30315 872543	81094 1062556	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
1-Methylnaphthalene	NPT	Ave	140912 1161998	310683	14059 449072	28084 801813	73522 973472	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Hexachlorocyclopentadiene	ANT	Ave	44222 375931	108418	148028	261763	+++++ 314366	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	77784 577184	165568	233351	407674	40852 482304	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,6-Trichlorophenol	ANT	Ave	50167 410382	108528	159299	275759	24971 338675	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4,5-Trichlorophenol	ANT	Ave	51641 409653	106636	154651	281868	25478 350781	2.00 14.0	4.00	8.00	10.0	1.00 12.0
1,1'-Biphenyl	ANT	Ave	182014 1486981	409092	569047	1009827	96431 1242552	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2-Chloronaphthalene	ANT	Ave	158669 1242642	341666	476477	30940 851518	80671 1035655	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2-Nitroaniline	ANT	Ave	38245 354944	88398	132063	229750	19745 293967	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Dimethyl phthalate	ANT	Ave	156238 1277247	339669	490098	31383 861000	82486 1047666	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
m-Dinitrobenzene	ANT	Ave	21053 196227	47367	66583	125827	10100 155935	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,6-Dinitrotoluene	ANT	Ave	34229 295658	1942 75474	3612 110120	6831 196501	16399 241608	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Acenaphthylene	ANT	Ave	246157 1949196	533531	24308 756387	49505 1319478	122379 1600207	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
3-Nitroaniline	ANT	Ave	35357 266907	72246	101711	171891	16904 212859	2.00 14.0	4.00	8.00	10.0	1.00 12.0
2,4-Dinitrophenol	ANT	Ave	28683 345740	71812	114760	220491	+++++ 276718	4.00 28.0	8.00	16.0	20.0	+++++ 24.0
Acenaphthene	ANT	Ave	149151 1221094	339305	14229 488892	30193 845192	76467 1031284	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4-Nitrophenol	ANT	Ave	43583 406057	99854	143205	265509	18362 329613	4.00 28.0	8.00	16.0	20.0	2.00 24.0
2,4-Dinitrotoluene	ANT	Lin1	41990 385407	95991	3154 143405	7366 250787	20495 308707	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenzofuran	ANT	Ave	210284 1665532	459442	655827	42850 1124410	109647 1373443	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	38247 320414	84771	117383	210947	18861 261759	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Diethyl phthalate	ANT	Ave	154623 1188660	327390	458139	31383 802822	77848 972875	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Hexadecane	ANT	Ave	72145 796651	170767	260305	507922	36428 651153	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Chlorophenyl phenyl ether	ANT	Ave	78154 595386	175878	233922	406383	42500 491514	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Nitroaniline	ANT	Ave	35224 224505	72656	96760	148655	+++++ 174046	2.00 14.0	4.00	8.00	10.0	+++++ 12.0
Fluorene	ANT	Ave	160525 1251490	353364	16862 496105	31572 869173	85595 1046287	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
4,6-Dinitro-2-methylphenol	PHN	Ave	39058 438731	96762	149151	278625	18479 351503	4.00 28.0	8.00	16.0	20.0	2.00 24.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
N-Nitrosodiphenylamine	PHN	Ave	108934 895112	239526	11635 344766	23020 596729	58102 736922	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Diphenylamine	PHN	Ave	108934 895112	239526	344766	596729	58102 736922	1.70 11.9	3.40	6.80	8.50	0.850 10.2
1,2-Diphenylhydrazine	ANT	Ave	164541 1383596	353239	502585	905269	82059 1112650	2.00 14.0	4.00	8.00	10.0	1.00 12.0
4-Bromophenyl phenyl ether	PHN	Ave	41915 325576	91521	126396	215777	23215 272229	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Hexachlorobenzene	PHN	Ave	43926 329734	2606 93938	4583 128401	8791 220587	23128 268553	2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Atrazine	PHN	Ave	35953 260557	73740	103950	177617	19581 216055	2.00 14.0	4.00	8.00	10.0	1.00 12.0
n-Octadecane	PHN	Ave	138161 966560	302765	413938	28361 693135	73601 815045	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Pentachlorophenol	PHN	Ave	45955 415635	108243	155385	277368	20873 340801	4.00 28.0	8.00	16.0	20.0	2.00 24.0
Phenanthrene	PHN	Ave	230724 1807097	491536	24063 682380	48005 1220992	119804 1487445	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Anthracene	PHN	Ave	236842 1863730	502498	23542 723361	45615 1260647	120754 1523204	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Carbazole	PHN	Ave	197973 1582452	428598	592364	39159 1021350	101734 1262131	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Di-n-butyl phthalate	PHN	Ave	236352 2022540	504777	730061	47540 1329082	121831 1614900	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Fluoranthene	PHN	Ave	234394 1868607	501365	22271 707624	42474 1245732	122065 1517575	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Benzidine	CRY	Ave	66475 759867	171551	227269	520135	36928 618176	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Pyrene	CRY	Ave	233323 1888665	504276	23105 712763	46169 1271372	122790 1514981	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Butyl benzyl phthalate	CRY	Ave	104533 926760	235350	329733	20180 608051	53706 738307	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
3,3'-Dichlorobenzidine	CRY	Ave	70942 595918	152706	209734	385375	33849 475662	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	140191 1237371	309825	445680	28551 816694	73520 1024487	2.00 14.0	4.00	8.00	0.400 10.0	1.00 12.0
Benzo[a]anthracene	CRY	Ave	3992 200551 1659666	12292 440211	22275 622068	42795 1105484	107181 1347076	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Chrysene	CRY	Ave	3203 182620 1581603	10957 410092	19376 577573	39167 1033531	98259 1262287	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Di-n-octyl phthalate	PHN	Ave	247137 2165493	544537	765284	1412926	123851 1749327	2.00 14.0	4.00	8.00	10.0	1.00 12.0
Benzo[b]fluoranthene	PRY	Ave	3042 181126 1648719	9619 420299	19228 558609	35870 1098393	98681 1282214	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[k]fluoranthene	PRY	Ave	3331 179917 1490897	10424 401119	19879 573332	38310 1054086	102988 1274239	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Benzo[a]pyrene	PRY	Ave	3382 187808 1588833	9729 414828	18739 575309	36604 1046570	94715 1275029	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	2748 211083 1749965	10311 465734	20127 650386	41755 1166500	110680 1435753	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0
Dibenz(a,h)anthracene	PRY	Ave	2756 169581 1407629	9394 369638	16973 527051	32367 959353	89344 1152918	0.0400 2.00 14.0	0.100 4.00	0.200 8.00	0.400 10.0	1.00 12.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 6 LVL 11	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Benzo[g,h,i]perylene	PRY	Ave	180552 1433023	389384	19319 554591	36075 975766	94104 1201062	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorophenol (Surr)	DCBd 4	Qua2	38888 628108	114156	3157 190900	8279 399512	18325 503672	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Phenol-d5 (Surr)	DCBd 4	Ave	73515 819894	197911	5648 289410	11829 561388	33021 661459	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Nitrobenzene-d5 (Surr)	NPT	Ave	87588 821063	198000	7805 303179	14817 553595	40262 649762	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2-Fluorobiphenyl (Surr)	ANT	Ave	165137 1322430	350506	17593 526103	31925 918925	90000 1089140	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	22200 171585	44814	1583 68770	4116 118461	10911 139736	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0
Terphenyl-d14 (Surr)	CRY	Ave	133039 1105949	272213	13499 414171	27756 736148	67089 870035	2.00 14.0	4.00	0.200 8.00	0.400 10.0	1.00 12.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua2 = Quadratic 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407173/3	L1STD02.D
Level 2	IC 500-407173/4	L1STD05.D
Level 3	IC 500-407173/5	L1STD1.D
Level 4	IC 500-407173/2	L1STD2.D
Level 5	IC 500-407173/6	L1STD5.D
Level 6	IC 500-407173/7	L1STD10.D
Level 7	IC 500-407173/8	L1STD20.D
Level 8	ICIS 500-407173/9	L1STD40.D
Level 9	IC 500-407173/10	L1STD50.D
Level 10	IC 500-407173/11	L1STD60.D
Level 11	IC 500-407173/12	L1STD70.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
1,4-Dioxane	-9.2	-9.1	-1.7	8.4	-9.6 38.3 *	-17.2	30	30	30	30	50 30	30
N-Nitrosodimethylamine	-4.4	-3.9	-0.5	3.5	-1.1 4.6	1.7	30	30	30	30	50 30	30
Pyridine	6.0	-7.0	2.0	1.8	0.3 -0.5	-2.5	30	30	30	30	50 30	30
Benzaldehyde	16.1	0.1	-24.8	-28.2	+++++ -33.7 *	70.5 *	30	30	30	30	30	50
Phenol	-5.7	+++++ -3.2	5.6	12.3	-12.3 15.5	-12.2	30	30	30	30	50 30	30
Aniline	-5.4	-4.9	-0.7	2.4	3.7 4.0	1.0	30	30	30	30	50 30	30
Bis(2-chloroethyl)ether	-8.5	-5.2	-4.5	-3.0 5.3	7.0 8.8	0.1	30	30	30	50 30	30 30	30
2-Chlorophenol	-5.0	-3.6	2.6	8.9	-8.4 12.4	-6.9	30	30	30	30	50 30	30
n-Decane	-2.9	0.0	-5.3 -6.0	2.3 -2.1	8.1 -0.5	6.5	30	30	50 30	30 30	30 30	30
1,3-Dichlorobenzene	-6.7	-1.7	0.8	-8.5 4.5	3.9 6.1	1.5	30	30	30	50 30	30 30	30
1,4-Dichlorobenzene	-5.7	-3.1	-0.5	-2.5 3.5	6.2 3.2	-1.1	30	30	30	50 30	30 30	30
Benzyl alcohol	-8.4	-5.3	-3.1	-0.5	13.4 1.7	2.3	30	30	30	30	50 30	30
1,2-Dichlorobenzene	-3.0	-4.1	-0.5	-3.8 3.3	4.9 4.8	-1.6	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
2-Methylphenol	-4.2	-0.8	1.4	-19.2 6.1	6.0 8.8	1.9	30	30	30	50 30	30 30	30
2,2'-oxybis[1-chloropropane]	-6.9	-7.5	-9.0	11.0 -4.7	13.6 -3.5	6.9	30	30	30	50 30	30 30	30
Indene	-4.8	-1.7	-2.2	1.3	3.4 0.6	3.4	30	30	30	30	50 30	30
3 & 4 Methylphenol	-4.2	-4.2	-1.8	-11.5 3.1	8.9 5.6	4.2	30	30	30	50 30	30 30	30
N-Nitrosodi-n-propylamine	-14.6	7.0 -11.8	5.6 -12.0	16.3 -5.0	13.5 -2.7	3.8	30	50 30	30 30	30 30	30 30	30
Acetophenone	-8.3	-10.7	17.7 -9.1	-1.2 -4.5	12.8 -2.0	5.2	30	30	50 30	30 30	30 30	30
Hexachloroethane	-5.9	-3.7	-1.2	4.1	0.8 5.3	0.6	30	30	30	30	50 30	30
Nitrobenzene	-3.2	-0.4	-15.5 4.6	-11.3 9.6	1.4 16.9	-2.1	30	30	50 30	30 30	30 30	30
Isophorone	-8.4	-5.9	-2.5	5.2 1.2	3.7 10.1	-3.3	30	30	30	50 30	30 30	30
2-Nitrophenol	-4.9	-5.1	3.8	6.1	-9.0 14.9	-5.8	30	30	30	30	50 30	30
2,4-Dimethylphenol	-8.6	-4.2	1.4	2.7	0.7 11.7	-3.8	30	30	30	30	50 30	30
Bis(2-chloroethoxy)methane	-7.1	-4.0	-0.4	-5.6 4.2	1.7 14.4	-3.2	30	30	30	50 30	30 30	30
Benzoic acid	5.3	-3.5	-0.1	-1.3	+++++ 1.8	-2.0	30	30	30	30	30	50
2,4-Dichlorophenol	-4.0	-4.0	-0.1	2.4	-4.4 11.7	-1.6	30	30	30	30	50 30	30
1,2,4-Trichlorobenzene	-2.3	-0.8	0.9	-6.5 4.7	-2.9 8.2	-1.4	30	30	30	50 30	30 30	30
Naphthalene	-3.9	-2.9	-8.0 0.6	-5.3 4.1	6.1 10.1	-0.9	30	30	50 30	30 30	30 30	30
4-Chloroaniline	-2.3	-6.8	-1.8	-1.5	4.2 5.4	2.8	30	30	30	30	50 30	30
2,6-Dichlorophenol	-4.9	-4.1	-1.2	1.9	2.5 8.2	-2.4	30	30	30	30	50 30	30
Hexachlorobutadiene	-4.8	-0.9	-0.7	-8.2 0.6	5.0 4.9	4.0	30	30	30	50 30	30 30	30
Caprolactam	-6.7	0.1	-2.0	5.0	-7.3 17.5	-6.7	30	30	30	30	50 30	30
4-Chloro-3-methylphenol	-7.4	-3.5	0.2	2.2	-3.3 15.0	-3.2	30	30	30	30	50 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
2-Methylnaphthalene	-8.1	9.6 -7.6	0.7 -4.6	4.7 -2.2	5.3 5.2	-3.0	30	50 30	30 30	30 30	30 30	30
1-Methylnaphthalene	-8.8	-6.3	1.8 -2.8	7.5 -0.7	5.8 6.0	-2.6	30	30	50 30	30 30	30 30	30
Hexachlorocyclopentadiene	0.9	-3.5	-1.4	2.4	+++++ 6.3	-4.8	30	30	30	30	30	50
1,2,4,5-Tetrachlorobenzene	-3.9	-5.2	-4.3	-2.0	9.2 1.8	4.4	30	30	30	30	50 30	30
2,4,6-Trichlorophenol	-5.7	-3.1	-3.1	2.9	-0.1 8.3	0.8	30	30	30	30	50 30	30
2,4,5-Trichlorophenol	-8.2	-6.8	-1.8	5.7	1.1 7.2	2.9	30	30	30	30	50 30	30
1,1'-Biphenyl	-3.5	-6.1	-3.6	2.6	4.8 6.6	-0.7	30	30	30	30	50 30	30
2-Chloronaphthalene	-3.9	-6.2	-3.1	-2.6 1.9	4.5 6.2	3.2	30	30	30	50 30	30 30	30
2-Nitroaniline	-6.8	-2.5	-2.0	8.5	-4.1 13.7	-6.7	30	30	30	30	50 30	30
Dimethyl phthalate	-5.6	-4.7	-3.2	-2.4 1.9	5.6 7.9	0.4	30	30	30	50 30	30 30	30
m-Dinitrobenzene	-6.4	-7.9	0.6	7.8	-8.1 17.8	-3.8	30	30	30	30	50 30	30
2,6-Dinitrotoluene	-4.8	1.0 -2.8	-5.3 0.3	-3.6 6.7	-4.7 13.3	-0.1	30	50 30	30 30	30 30	30 30	30
Acenaphthylene	-2.8	-3.6	-8.0 -2.8	0.9 2.0	2.7 7.9	3.7	30	30	50 30	30 30	30 30	30
3-Nitroaniline	-4.3	-5.7	-7.8	-1.3	3.2 7.5	8.4	30	30	30	30	50 30	30
2,4-Dinitrophenol	-15.4	-5.4	5.0	14.0	+++++ 23.7	-21.9	30	30	30	30	30	50
Acenaphthene	-1.1	-0.2	-13.8 -0.3	-1.5 5.2	2.7 8.2	0.6	30	30	50 30	30 30	30 30	30
4-Nitrophenol	-4.5	-4.1	2.8	10.4	-19.1 18.0	-3.5	30	30	30	30	50 30	30
2,4-Dinitrotoluene	-8.5	-5.8	13.5 -5.0	2.7 0.9	-2.0 9.1	-4.8	30	30	50 30	30 30	30 30	30
Dibenzofuran	-4.1	-4.1	-5.0	0.1 0.4	5.5 5.7	1.6	30	30	30	50 30	30 30	30
2,3,4,6-Tetrachlorophenol	-3.8	-6.7	-3.1	4.0	-1.4 10.5	0.4	30	30	30	30	50 30	30
Diethyl phthalate	-4.5	-6.4	-5.2	2.4 -0.7	4.6 5.4	4.4	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
Hexadecane	-12.3	-6.4	5.5	17.0	-13.8 24.3	-14.3	30	30	30	30	50 30	30
4-Chlorophenyl phenyl ether	-0.2	-7.1	-6.7	-2.4	11.1 2.7	2.6	30	30	30	30	50 30	30
4-Nitroaniline	6.0	-1.2	-12.2	-11.1	+++++ -0.5	18.9	30	30	30	30	30	50
Fluorene	-2.7	-4.4	-3.5 -3.1	-2.7 0.8	8.6 4.7	2.3	30	30	50 30	30 30	30 30	30
4,6-Dinitro-2-methylphenol	-8.5	-0.2	7.6	15.9	-19.9 24.2	-19.0	30	30	30	30	50 30	30
N-Nitrosodiphenylamine	-3.8	-2.0	-7.4 -2.1	1.4 3.2	7.0 7.7	-4.0	30	30	50 30	30 30	30 30	30
Diphenylamine	-4.6	-2.8	-2.9	2.3	6.1 6.7	-4.8	30	30	30	30	50 30	30
1,2-Diphenylhydrazine	-6.3	-6.7	-2.9	3.3	0.2 11.5	0.9	30	30	30	30	50 30	30
4-Bromophenyl phenyl ether	-2.9	-5.1	-6.5	0.7	12.9 3.4	-2.4	30	30	30	30	50 30	30
Hexachlorobenzene	-2.2	8.5 -5.5	-5.6 -6.2	0.3 -2.6	10.3 2.7	0.3	30	50 30	30 30	30 30	30 30	30
Atrazine	-4.7	-5.0	-6.3	-2.7	15.9 0.8	1.9	30	30	30	30	50 30	30
n-Octadecane	0.8	-2.5	-5.8	3.5 -5.4	12.3 -3.7	0.9	30	30	30	50 30	30 30	30
Pentachlorophenol	-1.8	-0.2	2.8	7.8	-13.2 12.9	-8.5	30	30	30	30	50 30	30
Phenanthrene	-3.6	-5.3	-6.6 -2.2	3.1 1.7	7.7 6.1	-0.7	30	30	50 30	30 30	30 30	30
Anthracene	-2.9	-1.1	-9.9 -0.5	-3.4 2.6	6.9 7.8	0.4	30	30	50 30	30 30	30 30	30
Carbazole	-2.3	-4.4	-4.9	-2.1 0.3	6.3 8.0	-0.9	30	30	30	50 30	30 30	30
Di-n-butyl phthalate	-6.8	-4.6	0.3	-3.8 4.0	3.1 11.8	-4.2	30	30	30	50 30	30 30	30
Fluoranthene	-1.5	-1.6	-13.3 0.0	-8.5 4.0	9.9 9.9	1.1	30	30	50 30	30 30	30 30	30
Benzidine	-6.9	-11.9	14.3	16.9	-11.8 19.4	-20.0	30	30	30	30	50 30	30
Pyrene	-1.9	-1.0	-10.9 0.1	-0.8 2.6	5.0 6.3	0.5	30	30	50 30	30 30	30 30	30
Butyl benzyl phthalate	-2.6	-2.6	1.9	-7.7 6.4	-2.3 11.0	-4.2	30	30	30	50 30	30 30	30

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407173

SDG No.:

Instrument ID: CMS01 GC Column: ZB5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 16:56 Calibration End Date: 10/26/2017 21:55 Calibration ID: 25663

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 # LVL 9 #	LVL 4 # LVL 10 #	LVL 5 # LVL 11 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3 LVL 9	LVL 4 LVL 10	LVL 5 LVL 11	LVL 6
3,3'-Dichlorobenzidine					-5.5	-0.2					50	30
	-3.1	-4.9	-0.9	5.2	9.5		30	30	30	30	30	
Bis(2-ethylhexyl) phthalate				-3.8	-1.4	-5.3				50	30	30
	-5.5	-2.9	0.9	8.8	9.2		30	30	30	30	30	
Benzo[a]anthracene	17.3	2.9	-5.5	1.2	0.8	-4.9	50	30	30	30	30	30
	-5.8	-5.0	-4.2	0.4	2.8		30	30	30	30	30	
Chrysene	3.8	1.2	-9.3	2.1	2.0	-4.5	50	30	30	30	30	30
	-3.2	-2.7	-1.2	3.7	8.0		30	30	30	30	30	
Di-n-octyl phthalate					-1.4	-5.8					50	30
	-5.4	-6.0	0.2	5.9	12.6		30	30	30	30	30	
Benzo[b]fluoranthene	6.9	-9.2	-7.7	-7.2	5.2	-4.6	50	30	30	30	30	30
	-2.1	-5.9	6.1	4.1	14.4		30	30	30	30	30	
Benzo[k]fluoranthene	15.7	-2.7	-5.7	-2.1	8.5	-6.4	50	30	30	30	30	30
	-7.7	-4.6	0.6	2.2	2.2		30	30	30	30	30	
Benzo[a]pyrene	18.5	-8.4	-10.3	-5.6	0.7	-1.4	50	30	30	30	30	30
	-3.7	-3.4	0.7	3.2	9.9		30	30	30	30	30	
Indeno[1,2,3-cd]pyrene	-11.2	-10.5	-11.2	-0.7	8.5	2.2	50	30	30	30	30	30
	-0.3	0.7	3.6	7.2	11.6		30	30	30	30	30	
Dibenz(a,h)anthracene	7.2	-1.8	-9.8	-7.4	5.4	-1.2	50	30	30	30	30	30
	-4.7	-1.8	2.5	3.5	8.0		30	30	30	30	30	
Benzo[g,h,i]perylene			-2.6	-2.0	5.4	-0.1			50	30	30	30
	-4.7	-1.9	-1.0	2.4	4.4		30	30	30	30	30	
2-Fluorophenol (Surr)			-8.5	17.2	2.7	-5.0			50	30	30	30
	-3.9	-4.5	1.2	1.2	0.9		30	30	30	30	30	
Phenol-d5 (Surr)			-13.1	-13.7	-3.3	-2.5			50	30	30	30
	-1.0	0.9	8.7	9.0	15.1		30	30	30	30	30	
Nitrobenzene-d5 (Surr)			-9.4	-9.1	-7.1	-2.9			50	30	30	30
	-6.8	1.5	7.5	6.3	20.1		30	30	30	30	30	
2-Fluorobiphenyl (Surr)			-3.1	-5.2	10.0	1.3			50	30	30	30
	-7.0	-2.3	-1.4	1.1	6.6		30	30	30	30	30	
2,4,6-Tribromophenol (Surr)			-29.9	-1.9	7.1	9.4			50	30	30	30
	-4.5	2.5	2.1	4.2	11.1		30	30	30	30	30	
Terphenyl-d14 (Surr)			-9.2	4.0	0.1	0.0			50	30	30	30
	-7.7	0.3	1.1	2.8	8.6		30	30	30	30	30	

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD2.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 26-Oct-2017 16:56:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-002
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:11 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: swaneyg Date: 26-Oct-2017 19:22:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	97	78763	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	99	347853	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	95	199936	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	333855	3.20	3.20	
* 5 Chrysene-d12	240	13.830	13.830	0.000	99	262902	3.20	3.20	
* 6 Perylene-d12	264	17.848	17.839	0.009	99	266644	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	94	8279	0.4000	0.4689	
$ 8 Phenol-d5	99	6.164	6.173	-0.009	90	11829	0.4000	0.3451	
$ 9 Nitrobenzene-d5	82	6.958	6.963	-0.005	92	14817	0.4000	0.3636	
$ 10 2-Fluorobiphenyl	172	8.466	8.470	-0.004	96	31925	0.4000	0.3790	
$ 11 2,4,6-Tribromophenol	330	9.731	9.731	0.000	92	4116	0.4000	0.3924	
$ 12 Terphenyl-d14	244	12.013	12.009	0.004	99	27756	0.4000	0.4161	
28 Bis(2-chloroethyl)ether	93	6.259	6.264	-0.005	98	10557	0.4000	0.3879	
30 n-Decane	43	6.359	6.359	0.000	70	23290	0.4000	0.4091	
31 1,3-Dichlorobenzene	146	6.473	6.473	0.000	97	13526	0.4000	0.3659	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	94	14812	0.4000	0.3901	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	95	13960	0.4000	0.3848	
38 2-Methylphenol	107	6.677	6.682	-0.005	80	8087	0.4000	0.3234	
39 2,2'-oxybis[1-chloropropan	45	6.711	6.711	0.000	88	34962	0.4000	0.4440	
42 3 & 4 Methylphenol	108	6.801	6.806	-0.005	96	10906	0.4000	0.3538	
43 N-Nitrosodi-n-propylamine	70	6.811	6.820	-0.009	91	11602	0.4000	0.4650	
44 Acetophenone	105	6.825	6.835	-0.010	94	18611	0.4000	0.3952	
46 Nitrobenzene	77	6.977	6.982	-0.005	92	13374	0.4000	0.3548	
48 Isophorone	82	7.167	7.172	-0.005	94	27437	0.4000	0.4206	
52 Bis(2-chloroethoxy)methane	93	7.324	7.329	-0.005	96	14201	0.4000	0.3776	
56 1,2,4-Trichlorobenzene	180	7.524	7.529	-0.005	93	13067	0.4000	0.3741	
58 Naphthalene	128	7.600	7.600	0.000	98	39272	0.4000	0.3788	
63 Hexachlorobutadiene	225	7.695	7.695	0.000	92	6805	0.4000	0.3673	
68 2-Methylnaphthalene	142	8.176	8.176	0.000	98	30315	0.4000	0.4188	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
70 1-Methylnaphthalene	142	8.261	8.261	0.000	97	28084	0.4000	0.4299	
80 2-Chloronaphthalene	162	8.589	8.594	-0.005	98	30940	0.4000	0.3894	
82 Dimethyl phthalate	163	8.779	8.789	-0.010	98	31383	0.4000	0.3904	
84 2,6-Dinitrotoluene	165	8.841	8.846	-0.005	91	6831	0.4000	0.3857	
86 Acenaphthylene	152	8.946	8.946	0.000	97	49505	0.4000	0.4036	
90 Acenaphthene	154	9.093	9.093	0.000	92	30193	0.4000	0.3941	
95 2,4-Dinitrotoluene	165	9.184	9.193	-0.009	90	7366	0.4000	0.4108	
97 Dibenzofuran	168	9.231	9.236	-0.005	96	42850	0.4000	0.4005	
100 Diethyl phthalate	149	9.369	9.374	-0.005	97	31383	0.4000	0.4098	
104 Fluorene	166	9.526	9.526	0.000	97	31572	0.4000	0.3892	
111 N-Nitrosodiphenylamine	169	9.593	9.598	-0.005	67	23020	0.4000	0.4055	
122 Hexachlorobenzene	284	10.006	10.011	-0.005	95	8791	0.4000	0.4010	
124 n-Octadecane	43	10.149	10.149	0.000	79	28361	0.4000	0.4138	
127 Phenanthrene	178	10.349	10.354	-0.005	96	48005	0.4000	0.4126	
128 Anthracene	178	10.396	10.396	0.000	99	45615	0.4000	0.3864	
129 Carbazole	167	10.520	10.520	0.000	96	39159	0.4000	0.3914	
133 Di-n-butyl phthalate	149	10.786	10.786	0.000	99	47540	0.4000	0.3850	
136 Fluoranthene	202	11.571	11.571	0.000	97	42474	0.4000	0.3659	
141 Pyrene	202	11.861	11.866	-0.005	98	46169	0.4000	0.3969	
147 Butyl benzyl phthalate	149	12.698	12.703	-0.005	96	20180	0.4000	0.3691	
150 Bis(2-ethylhexyl) phthalat	149	13.797	13.792	0.005	72	28551	0.4000	0.3849	
151 Benzo[a]anthracene	228	13.801	13.806	-0.005	98	42795	0.4000	0.4047	
152 Chrysene	228	13.877	13.887	-0.010	98	39167	0.4000	0.4086	
157 Benzo[b]fluoranthene	252	16.512	16.541	-0.029	97	35870	0.4000	0.3712	
158 Benzo[k]fluoranthene	252	16.602	16.626	-0.024	98	38310	0.4000	0.3917	
160 Benzo[a]pyrene	252	17.620	17.634	-0.014	98	36604	0.4000	0.3775	
163 Indeno[1,2,3-cd]pyrene	276	20.640	20.664	-0.024	97	41755	0.4000	0.3972	
164 Dibenz(a,h)anthracene	278	20.711	20.726	-0.015	96	32367	0.4000	0.3706	
165 Benzo[g,h,i]perylene	276	21.348	21.382	-0.034	98	36075	0.4000	0.3921	
S 171 Methyl Phenols,Total	1				0			0.6772	
S 170 Total Cresols, TCEQ Defini	1				0			0.6772	

Reagents:

SMlst1_5uLL4_00034 Amount Added: 1.00 Units: mL

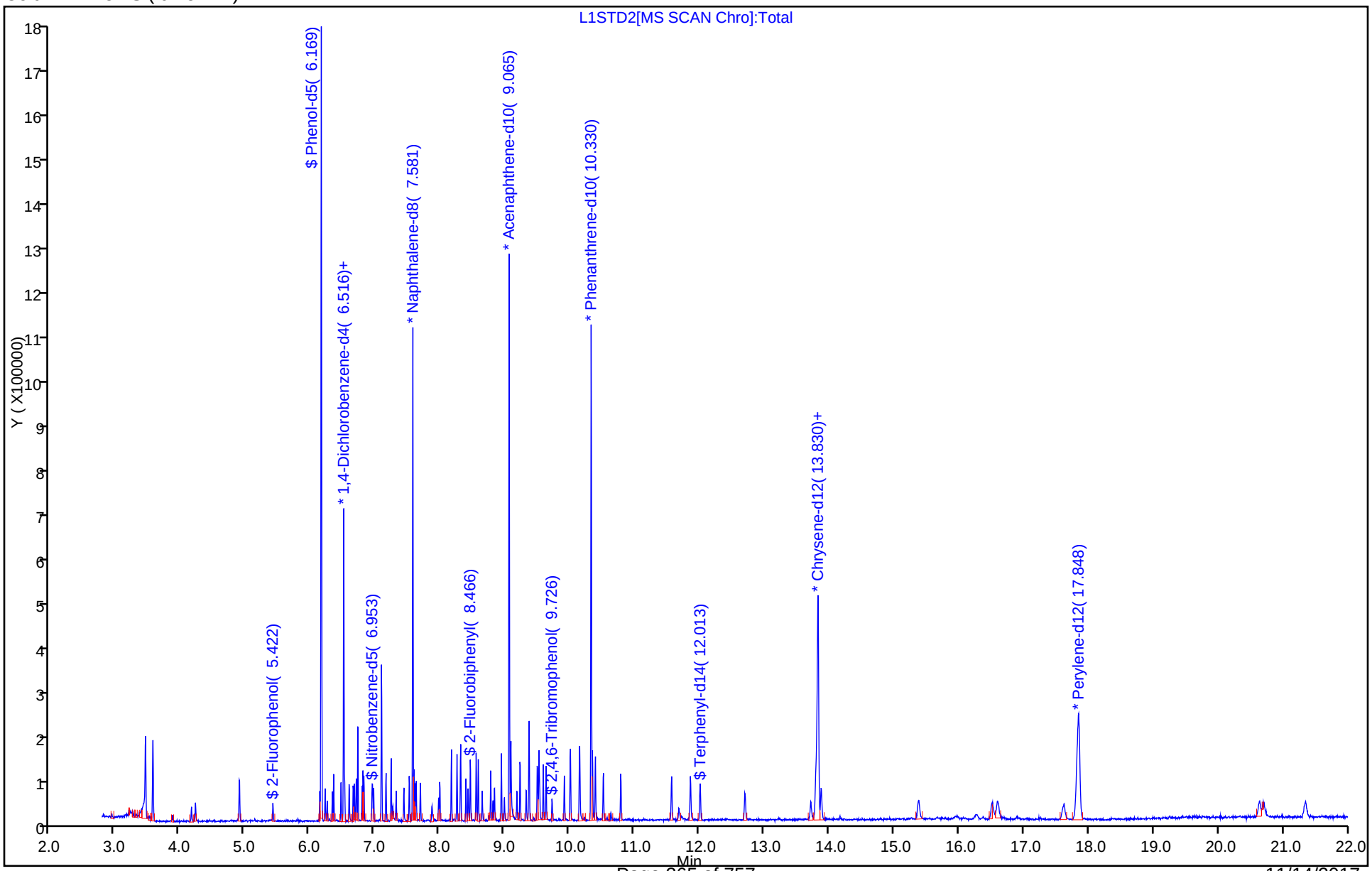
Report Date: 09-Nov-2017 15:46:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD2.D

Injection Date:	26-Oct-2017 16:56:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD02.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 26-Oct-2017 17:26:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-003
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:15 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:00:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.511	6.516	-0.005	96	66209	3.20	3.20	
* 2 Naphthalene-d8	136	7.576	7.581	-0.005	99	261121	3.20	3.20	
* 3 Acenaphthene-d10	164	9.060	9.065	-0.005	94	154056	3.20	3.20	
* 4 Phenanthrene-d10	188	10.325	10.330	-0.005	98	262583	3.20	3.20	
* 5 Chrysene-d12	240	13.825	13.830	-0.005	99	211571	3.20	3.20	
* 6 Perylene-d12	264	17.829	17.839	-0.010	98	196199	3.20	3.20	
151 Benzo[a]anthracene	228	13.797	13.806	-0.009	48	3992	0.0400	0.0469	
152 Chrysene	228	13.877	13.887	-0.010	89	3203	0.0400	0.0415	
157 Benzo[b]fluoranthene	252	16.517	16.541	-0.024	1	3042	0.0400	0.0428	
158 Benzo[k]fluoranthene	252	16.593	16.626	-0.033	19	3331	0.0400	0.0463	
160 Benzo[a]pyrene	252	17.615	17.634	-0.019	1	3382	0.0400	0.0474	
163 Indeno[1,2,3-cd]pyrene	276	20.626	20.664	-0.038	1	2748	0.0400	0.0355	
164 Dibenz(a,h)anthracene	278	20.702	20.726	-0.024	1	2756	0.0400	0.0429	

Reagents:

SMlst1_5uLL1_00034 Amount Added: 1.00 Units: mL

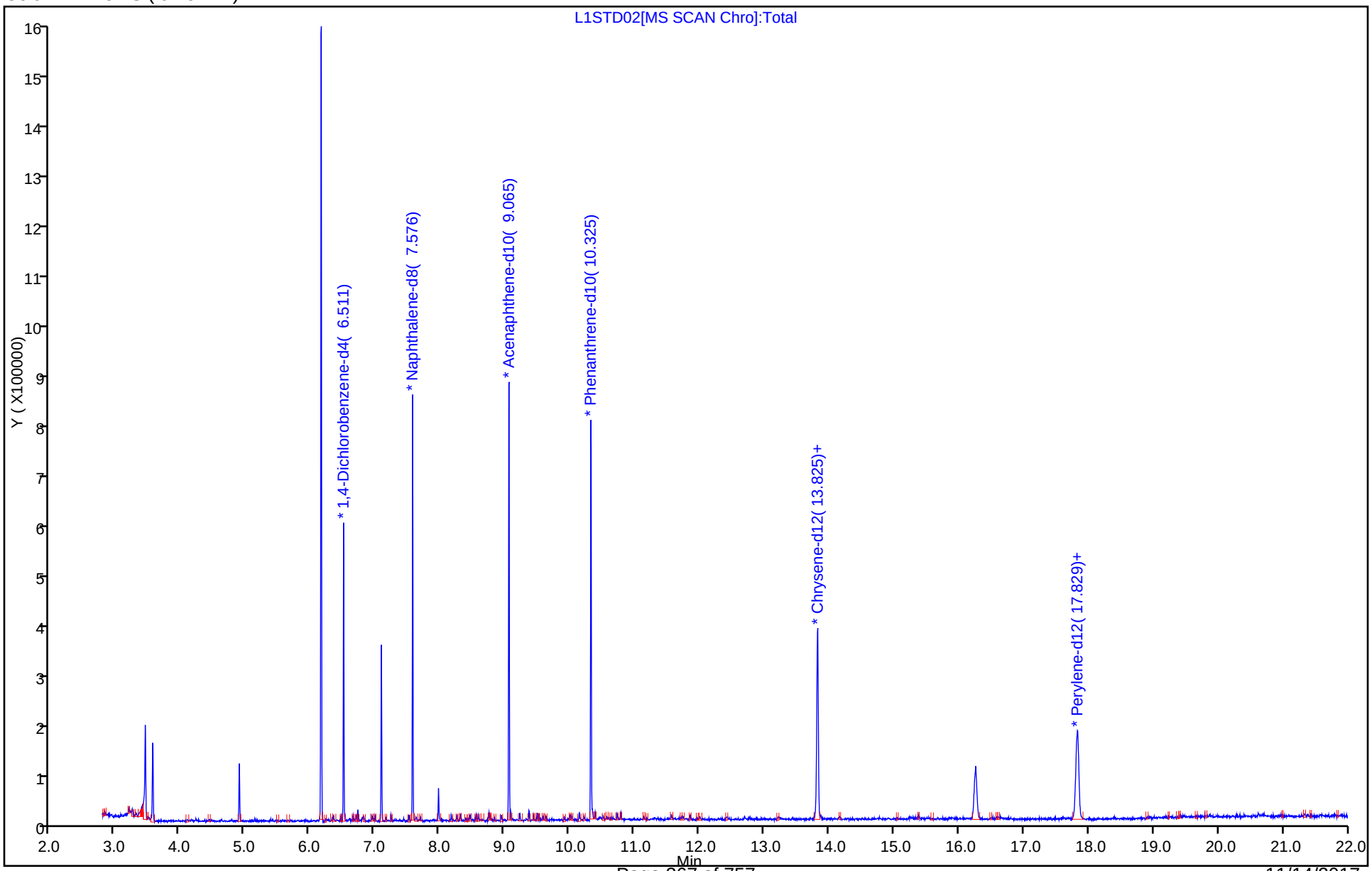
Report Date: 09-Nov-2017 15:46:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD02.D

Injection Date:	26-Oct-2017 17:26:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD05.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Oct-2017 17:56:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-004
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:20 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:04:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.511	6.516	-0.005	95	85988	3.20	3.20	
* 2 Naphthalene-d8	136	7.576	7.581	-0.005	99	364152	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	96	217115	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	365862	3.20	3.20	
* 5 Chrysene-d12	240	13.820	13.830	-0.010	99	297035	3.20	3.20	
* 6 Perylene-d12	264	17.829	17.839	-0.010	98	292151	3.20	3.20	
43 N-Nitrosodi-n-propylamine	70	6.811	6.820	-0.009	90	2914	0.1000	0.1070	
68 2-Methylnaphthalene	142	8.171	8.176	-0.005	98	8305	0.1000	0.1096	
84 2,6-Dinitrotoluene	165	8.837	8.846	-0.009	89	1942	0.1000	0.1010	
122 Hexachlorobenzene	284	10.006	10.011	-0.005	92	2606	0.1000	0.1085	
151 Benzo[a]anthracene	228	13.806	13.806	0.000	86	12292	0.1000	0.1029	
152 Chrysene	228	13.878	13.887	-0.009	98	10957	0.1000	0.1012	
157 Benzo[b]fluoranthene	252	16.512	16.541	-0.029	96	9619	0.1000	0.0908	
158 Benzo[k]fluoranthene	252	16.593	16.626	-0.033	95	10424	0.1000	0.0973	
160 Benzo[a]pyrene	252	17.596	17.634	-0.038	86	9729	0.1000	0.0916	
163 Indeno[1,2,3-cd]pyrene	276	20.621	20.664	-0.043	97	10311	0.1000	0.0895	
164 Dibenz(a,h)anthracene	278	20.692	20.726	-0.034	51	9394	0.1000	0.0982	

Reagents:

SMlst1_5uLL2_00033 Amount Added: 1.00 Units: mL

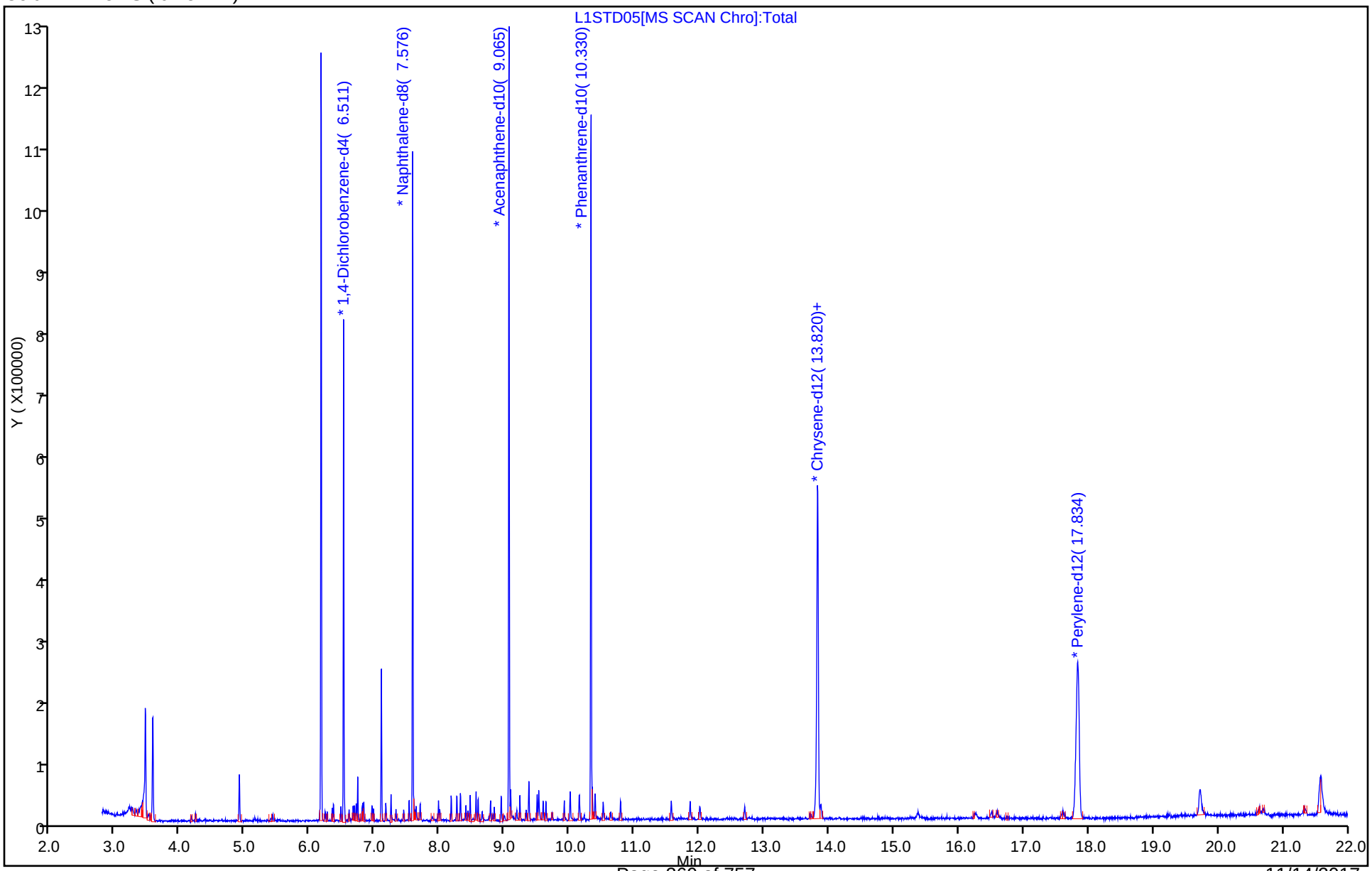
Report Date: 09-Nov-2017 15:46:23 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD05.D

Injection Date:	26-Oct-2017 17:56:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD1.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 26-Oct-2017 18:26:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-005
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:26 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:06:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.511	6.516	-0.005	97	74691	3.20	3.20	
* 2 Naphthalene-d8	136	7.576	7.581	-0.005	99	367634	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	95	215383	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	369584	3.20	3.20	
* 5 Chrysene-d12	240	13.820	13.830	-0.010	99	292887	3.20	3.20	
* 6 Perylene-d12	264	17.839	17.839	0.000	98	287378	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	96	3157	0.2000	0.1831	
$ 8 Phenol-d5	99	6.164	6.173	-0.009	45	5648	0.2000	0.1738	
$ 9 Nitrobenzene-d5	82	6.958	6.963	-0.005	90	7805	0.2000	0.1812	
$ 10 2-Fluorobiphenyl	172	8.466	8.470	-0.004	96	17593	0.2000	0.1939	
$ 11 2,4,6-Tribromophenol	330	9.731	9.731	0.000	86	1583	0.2000	0.1401	
$ 12 Terphenyl-d14	244	12.004	12.009	-0.005	99	13499	0.2000	0.1817	
30 n-Decane	43	6.354	6.359	-0.005	71	10227	0.2000	0.1894	
43 N-Nitrosodi-n-propylamine	70	6.811	6.820	-0.009	91	4997	0.2000	0.2112	
44 Acetophenone	105	6.825	6.835	-0.010	90	10512	0.2000	0.2354	
46 Nitrobenzene	77	6.972	6.982	-0.010	90	6732	0.2000	0.1690	
58 Naphthalene	128	7.595	7.600	-0.005	97	20168	0.2000	0.1840	
68 2-Methylnaphthalene	142	8.171	8.176	-0.005	99	15413	0.2000	0.2015	
70 1-Methylnaphthalene	142	8.261	8.261	0.000	99	14059	0.2000	0.2036	
84 2,6-Dinitrotoluene	165	8.837	8.846	-0.010	91	3612	0.2000	0.1893	
86 Acenaphthylene	152	8.946	8.946	0.000	97	24308	0.2000	0.1839	
90 Acenaphthene	154	9.089	9.093	-0.004	92	14229	0.2000	0.1724	
95 2,4-Dinitrotoluene	165	9.184	9.193	-0.009	83	3154	0.2000	0.2269	
104 Fluorene	166	9.521	9.526	-0.005	94	16862	0.2000	0.1929	
111 N-Nitrosodiphenylamine	169	9.593	9.598	-0.005	66	11635	0.2000	0.1851	
122 Hexachlorobenzene	284	10.002	10.011	-0.009	94	4583	0.2000	0.1889	
127 Phenanthrene	178	10.349	10.354	-0.005	97	24063	0.2000	0.1868	
128 Anthracene	178	10.392	10.396	-0.004	99	23542	0.2000	0.1802	
136 Fluoranthene	202	11.566	11.571	-0.005	97	22271	0.2000	0.1733	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
141 Pyrene	202	11.856	11.866	-0.010	98	23105	0.2000	0.1783	
151 Benzo[a]anthracene	228	13.797	13.806	-0.009	94	22275	0.2000	0.1891	
152 Chrysene	228	13.873	13.887	-0.014	98	19376	0.2000	0.1814	
157 Benzo[b]fluoranthene	252	16.507	16.541	-0.034	98	19228	0.2000	0.1846	
158 Benzo[k]fluoranthene	252	16.593	16.626	-0.033	75	19879	0.2000	0.1886	
160 Benzo[a]pyrene	252	17.615	17.634	-0.019	96	18739	0.2000	0.1793	
163 Indeno[1,2,3-cd]pyrene	276	20.630	20.664	-0.034	96	20127	0.2000	0.1777	
164 Dibenz(a,h)anthracene	278	20.706	20.726	-0.020	80	16973	0.2000	0.1803	
165 Benzo[g,h,i]perylene	276	21.339	21.382	-0.043	97	19319	0.2000	0.1948	

Reagents:

SMlst1_5uLL3_00033 Amount Added: 1.00 Units: mL

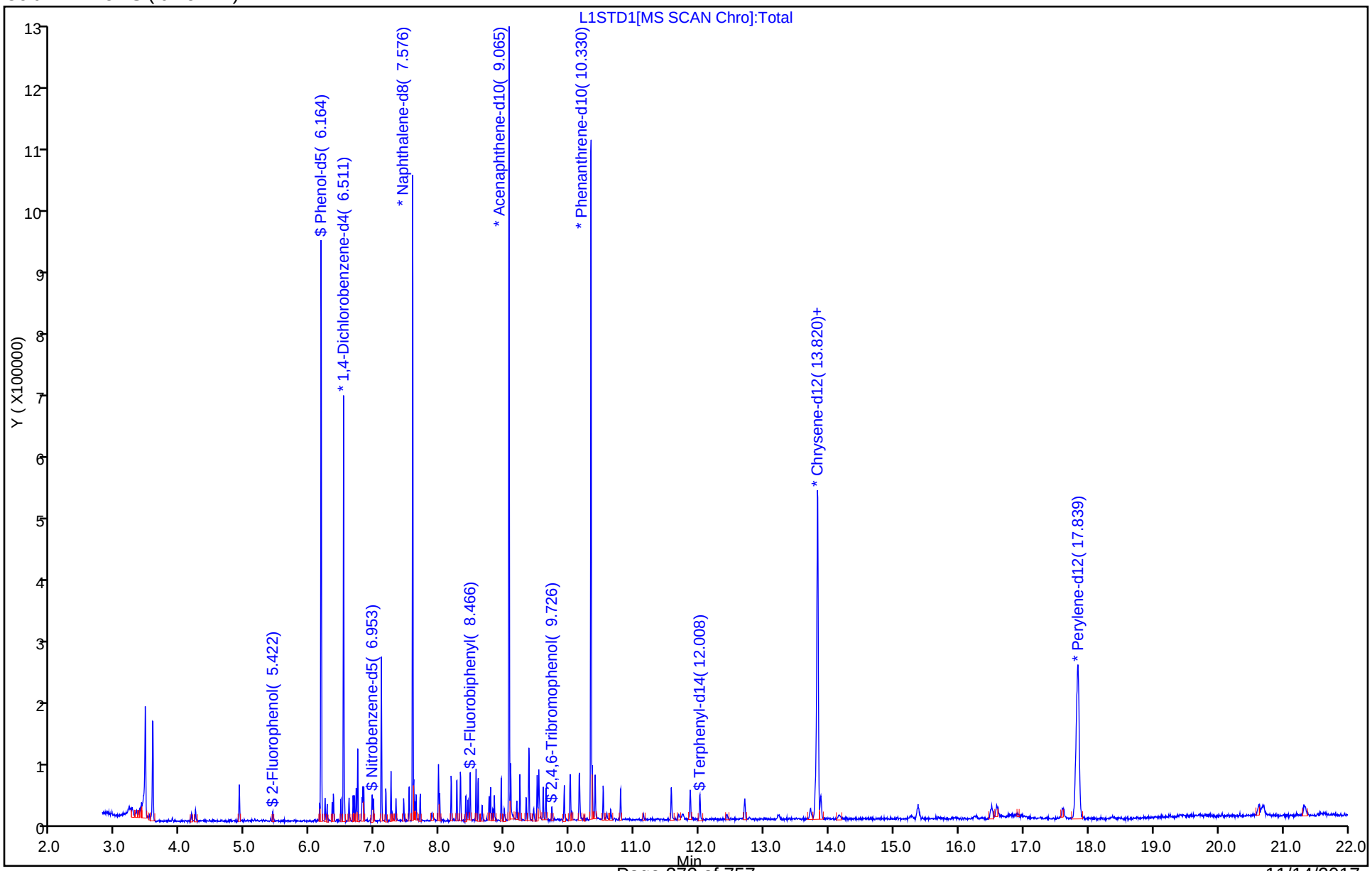
Report Date: 09-Nov-2017 15:46:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD1.D

Injection Date:	26-Oct-2017 18:26:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD5.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 26-Oct-2017 18:56:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-006
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:32 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:15:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.511	6.516	-0.005	97	78510	3.20	3.20	
* 2 Naphthalene-d8	136	7.576	7.581	-0.005	99	369991	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	93	194240	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	319331	3.20	3.20	
* 5 Chrysene-d12	240	13.825	13.830	-0.005	99	264267	3.20	3.20	
* 6 Perylene-d12	264	17.834	17.839	-0.005	98	258738	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	96	18325	1.00	1.03	
$ 8 Phenol-d5	99	6.164	6.173	-0.009	48	33021	1.00	0.9665	
$ 9 Nitrobenzene-d5	82	6.958	6.963	-0.005	93	40262	1.00	0.9289	
$ 10 2-Fluorobiphenyl	172	8.466	8.470	-0.004	98	90000	1.00	1.10	
$ 11 2,4,6-Tribromophenol	330	9.726	9.731	-0.005	92	10911	1.00	1.07	
$ 12 Terphenyl-d14	244	12.009	12.009	0.000	99	67089	1.00	1.00	
13 1,4-Dioxane	88	3.867	3.872	-0.005	86	6255	1.00	0.9040	
14 N-Nitrosodimethylamine	42	4.162	4.176	-0.014	55	28668	1.00	0.9894	
15 Pyridine	79	4.224	4.228	-0.004	92	33052	2.00	2.01	
25 Benzaldehyde	77	6.145	6.145	0.000	94	22031	1.00	2.06	
26 Phenol	94	6.173	6.183	-0.010	93	31202	1.00	0.8772	
27 Aniline	93	6.226	6.231	-0.005	97	48492	1.00	1.04	
28 Bis(2-chloroethyl)ether	93	6.259	6.264	-0.005	96	29022	1.00	1.07	
29 2-Chlorophenol	128	6.340	6.345	-0.005	95	27629	1.00	0.9162	
30 n-Decane	43	6.359	6.359	0.000	71	61335	1.00	1.08	
31 1,3-Dichlorobenzene	146	6.473	6.473	0.000	98	38296	1.00	1.04	
33 1,4-Dichlorobenzene	146	6.525	6.530	-0.005	95	40181	1.00	1.06	
36 Benzyl alcohol	108	6.597	6.606	-0.009	90	24029	1.00	1.13	
37 1,2-Dichlorobenzene	146	6.659	6.663	-0.004	95	37934	1.00	1.05	
38 2-Methylphenol	107	6.678	6.682	-0.004	86	26415	1.00	1.06	
39 2,2'-oxybis[1-chloropropan	45	6.706	6.711	-0.005	87	89177	1.00	1.14	
40 Indene	116	6.730	6.735	-0.005	90	122307	2.00	2.07	
42 3 & 4 Methylphenol	108	6.796	6.806	-0.010	96	33456	1.00	1.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.811	6.820	-0.009	90	28223	1.00	1.13	
44 Acetophenone	105	6.825	6.835	-0.010	95	52948	1.00	1.13	
45 Hexachloroethane	117	6.949	6.949	0.000	89	14889	1.00	1.01	
46 Nitrobenzene	77	6.977	6.982	-0.005	94	40676	1.00	1.01	
48 Isophorone	82	7.167	7.172	-0.005	95	71951	1.00	1.04	
50 2-Nitrophenol	139	7.243	7.248	-0.005	72	18251	1.00	0.9099	
51 2,4-Dimethylphenol	122	7.248	7.253	-0.005	90	34743	1.00	1.01	
52 Bis(2-chloroethoxy)methane	93	7.324	7.329	-0.005	98	40665	1.00	1.02	
54 Benzoic acid	122	7.291	7.353	-0.062	86	22578	2.00	1.34	
55 2,4-Dichlorophenol	162	7.443	7.448	-0.005	94	31849	1.00	0.9560	
56 1,2,4-Trichlorobenzene	180	7.524	7.529	-0.005	94	36092	1.00	0.9714	
58 Naphthalene	128	7.595	7.600	-0.005	98	117059	1.00	1.06	
60 4-Chloroaniline	127	7.614	7.619	-0.005	96	47219	1.00	1.04	
62 2,6-Dichlorophenol	162	7.629	7.633	-0.004	96	34331	1.00	1.02	
63 Hexachlorobutadiene	225	7.695	7.695	0.000	95	20700	1.00	1.05	
65 Caprolactam	113	7.881	7.914	-0.033	70	9086	1.00	0.9272	
66 4-Chloro-3-methylphenol	107	7.995	8.004	-0.009	96	31220	1.00	0.9673	
68 2-Methylnaphthalene	142	8.171	8.176	-0.005	99	81094	1.00	1.05	
70 1-Methylnaphthalene	142	8.261	8.261	0.000	98	73522	1.00	1.06	
72 Hexachlorocyclopentadiene	237	8.313	8.314	-0.001	94	24562	1.00	1.05	
73 1,2,4,5-Tetrachlorobenzene	216	8.318	8.323	-0.005	97	40852	1.00	1.09	
74 2,4,6-Trichlorophenol	196	8.399	8.404	-0.005	90	24971	1.00	1.00	
76 2,4,5-Trichlorophenol	196	8.432	8.437	-0.005	97	25478	1.00	1.01	
79 1,1'-Biphenyl	154	8.556	8.561	-0.005	95	96431	1.00	1.05	
80 2-Chloronaphthalene	162	8.589	8.594	-0.005	98	80671	1.00	1.05	
81 2-Nitroaniline	65	8.646	8.656	-0.010	95	19745	1.00	0.9590	
82 Dimethyl phthalate	163	8.780	8.789	-0.009	99	82486	1.00	1.06	
83 1,3-Dinitrobenzene	168	8.813	8.822	-0.009	82	10100	1.00	0.9193	
84 2,6-Dinitrotoluene	165	8.837	8.846	-0.009	90	16399	1.00	0.9531	
86 Acenaphthylene	152	8.946	8.946	0.000	97	122379	1.00	1.03	
88 3-Nitroaniline	138	8.989	9.003	-0.014	90	16904	1.00	1.03	
91 2,4-Dinitrophenol	184	9.074	9.084	-0.010	87	11470	2.00	1.24	
90 Acenaphthene	154	9.089	9.093	-0.004	93	76467	1.00	1.03	
92 4-Nitrophenol	109	9.098	9.112	-0.014	85	18362	2.00	1.62	
95 2,4-Dinitrotoluene	165	9.184	9.193	-0.009	89	20495	1.00	0.9795	
97 Dibenzofuran	168	9.231	9.236	-0.005	96	109647	1.00	1.05	
99 2,3,4,6-Tetrachlorophenol	232	9.326	9.331	-0.005	96	18861	1.00	0.9864	
100 Diethyl phthalate	149	9.369	9.374	-0.005	99	77848	1.00	1.05	
101 Hexadecane	57	9.374	9.374	0.000	69	36428	1.00	0.8618	
103 4-Chlorophenyl phenyl ethe	204	9.498	9.502	-0.004	88	42500	1.00	1.11	
106 4-Nitroaniline	138	9.507	9.517	-0.010	85	18860	1.00	1.27	
104 Fluorene	166	9.521	9.526	-0.005	96	85595	1.00	1.09	
109 4,6-Dinitro-2-methylphenol	198	9.536	9.545	-0.009	92	18479	2.00	1.60	
98 Diphenylamine	169	9.593	9.598	-0.005	94	58102	0.8500	0.9016	
111 N-Nitrosodiphenylamine	169	9.593	9.598	-0.005	70	58102	1.00	1.07	
113 1,2-Diphenylhydrazine	77	9.636	9.636	0.000	98	82059	1.00	1.00	
119 4-Bromophenyl phenyl ether	248	9.916	9.921	-0.005	88	23215	1.00	1.13	
122 Hexachlorobenzene	284	10.006	10.011	-0.005	97	23128	1.00	1.10	
123 Atrazine	200	10.011	10.021	-0.010	86	19581	1.00	1.16	
124 n-Octadecane	43	10.144	10.149	-0.005	80	73601	1.00	1.12	
125 Pentachlorophenol	266	10.154	10.159	-0.005	95	20873	2.00	1.74	
127 Phenanthrene	178	10.349	10.354	-0.005	96	119804	1.00	1.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.392	10.396	-0.004	99	120754	1.00	1.07	
129 Carbazole	167	10.515	10.520	-0.005	96	101734	1.00	1.06	
133 Di-n-butyl phthalate	149	10.786	10.786	0.000	99	121831	1.00	1.03	
136 Fluoranthene	202	11.566	11.571	-0.005	99	122065	1.00	1.10	
138 Benzidine	184	11.680	11.685	-0.005	98	36928	1.00	0.8816	
141 Pyrene	202	11.861	11.866	-0.005	98	122790	1.00	1.05	
147 Butyl benzyl phthalate	149	12.698	12.703	-0.005	96	53706	1.00	0.9773	
149 3,3'-Dichlorobenzidine	252	13.711	13.721	-0.010	99	33849	1.00	0.9449	
150 Bis(2-ethylhexyl) phthalat	149	13.787	13.792	-0.005	85	73520	1.00	0.9860	
151 Benzo[a]anthracene	228	13.797	13.806	-0.009	97	107181	1.00	1.01	
152 Chrysene	228	13.873	13.887	-0.014	99	98259	1.00	1.02	
155 Di-n-octyl phthalate	149	15.371	15.380	-0.009	95	123851	1.00	0.9857	
157 Benzo[b]fluoranthene	252	16.507	16.541	-0.034	97	98681	1.00	1.05	
158 Benzo[k]fluoranthene	252	16.598	16.626	-0.028	98	102988	1.00	1.09	
160 Benzo[a]pyrene	252	17.611	17.634	-0.023	97	94715	1.00	1.01	
163 Indeno[1,2,3-cd]pyrene	276	20.630	20.664	-0.034	98	110680	1.00	1.09	
164 Dibenz(a,h)anthracene	278	20.697	20.726	-0.029	96	89344	1.00	1.05	
165 Benzo[g,h,i]perylene	276	21.349	21.382	-0.033	97	94104	1.00	1.05	
S 171 Methyl Phenols,Total	1				0			2.15	
S 170 Total Cresols, TCEQ Defini	1				0			2.15	

Reagents:

SMlst1_5uLL5_00034 Amount Added: 1.00 Units: mL

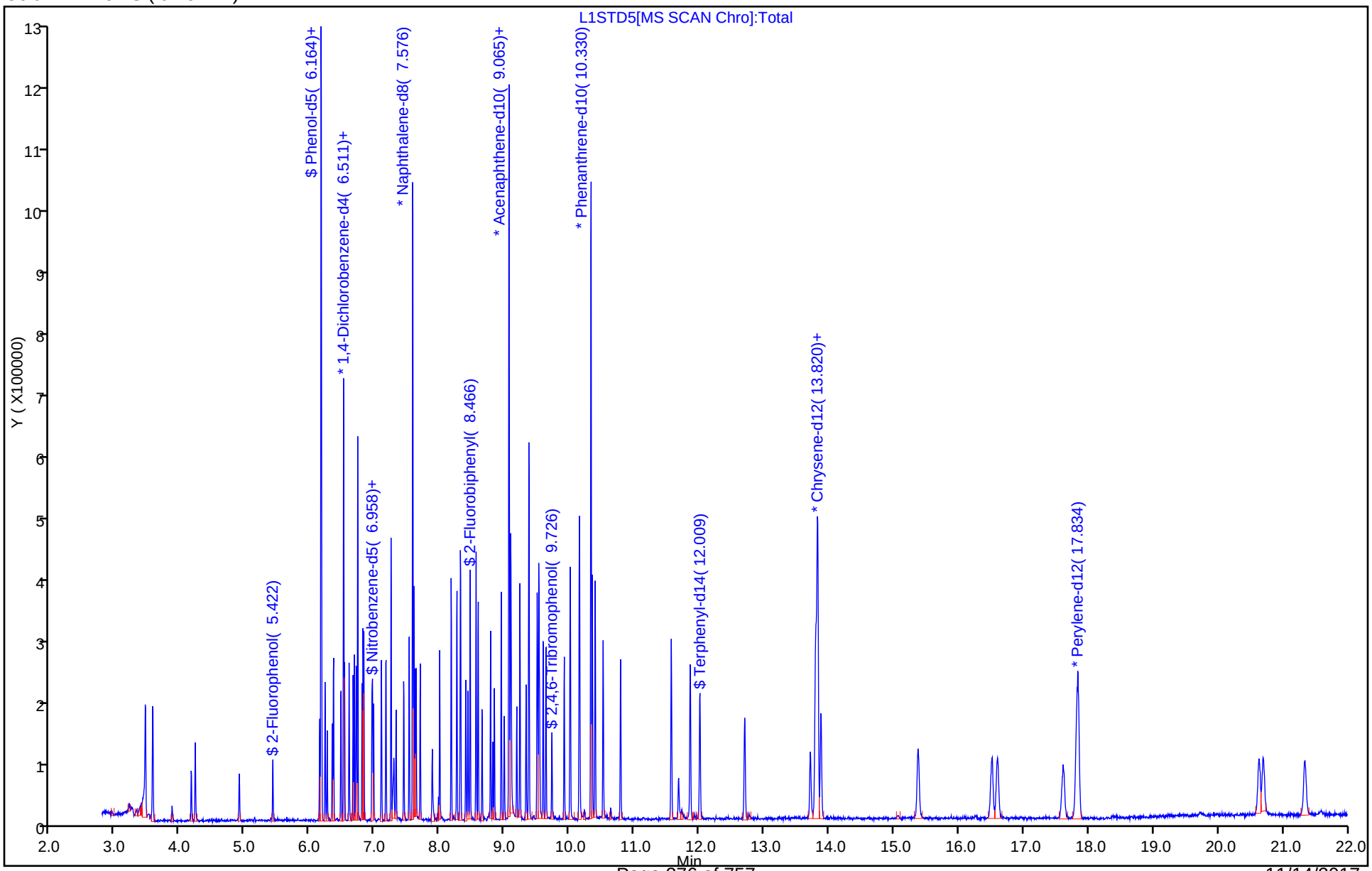
Report Date: 09-Nov-2017 15:46:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD5.D

Injection Date:	26-Oct-2017 18:56:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD10.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 26-Oct-2017 19:25:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-007
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:38 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:16:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.511	6.516	-0.005	97	86640	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	99	385092	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	96	193416	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	97	333454	3.20	3.20	
* 5 Chrysene-d12	240	13.825	13.830	-0.005	99	262232	3.20	3.20	
* 6 Perylene-d12	264	17.834	17.839	-0.005	98	261939	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	93	38888	2.00	1.90	
$ 8 Phenol-d5	99	6.164	6.173	-0.009	59	73515	2.00	1.95	
$ 9 Nitrobenzene-d5	82	6.958	6.963	-0.005	91	87588	2.00	1.94	
$ 10 2-Fluorobiphenyl	172	8.466	8.470	-0.004	97	165137	2.00	2.03	
$ 11 2,4,6-Tribromophenol	330	9.726	9.731	-0.005	94	22200	2.00	2.19	
$ 12 Terphenyl-d14	244	12.008	12.009	-0.001	99	133039	2.00	2.00	
13 1,4-Dioxane	88	3.872	3.872	0.000	83	12644	2.00	1.66	
14 N-Nitrosodimethylamine	42	4.166	4.176	-0.010	53	65022	2.00	2.03	
15 Pyridine	79	4.228	4.228	0.000	94	80635	4.00	3.90	
25 Benzaldehyde	77	6.145	6.145	0.000	96	40321	2.00	3.41	
26 Phenol	94	6.178	6.183	-0.005	93	68948	2.00	1.76	
27 Aniline	93	6.230	6.231	-0.001	97	104207	2.00	2.02	
28 Bis(2-chloroethyl)ether	93	6.259	6.264	-0.005	97	59957	2.00	2.00	
29 2-Chlorophenol	128	6.340	6.345	-0.005	96	61984	2.00	1.86	
30 n-Decane	43	6.359	6.359	0.000	70	133371	2.00	2.13	
31 1,3-Dichlorobenzene	146	6.473	6.473	0.000	97	82557	2.00	2.03	
33 1,4-Dichlorobenzene	146	6.525	6.530	-0.005	95	82628	2.00	1.98	
36 Benzyl alcohol	108	6.601	6.606	-0.005	90	47852	2.00	2.05	
37 1,2-Dichlorobenzene	146	6.658	6.663	-0.005	94	78555	2.00	1.97	
38 2-Methylphenol	107	6.677	6.682	-0.005	90	56069	2.00	2.04	
39 2,2'-oxybis[1-chloropropan	45	6.706	6.711	-0.005	88	185151	2.00	2.14	
40 Indene	116	6.730	6.735	-0.005	91	269973	4.00	4.13	
42 3 & 4 Methylphenol	108	6.801	6.806	-0.005	96	70673	2.00	2.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.815	6.820	-0.005	92	56972	2.00	2.08	
44 Acetophenone	105	6.825	6.835	-0.010	96	108997	2.00	2.10	
45 Hexachloroethane	117	6.948	6.949	-0.001	91	32782	2.00	2.01	
46 Nitrobenzene	77	6.977	6.982	-0.005	94	81702	2.00	1.96	
48 Isophorone	82	7.167	7.172	-0.005	95	139665	2.00	1.93	
50 2-Nitrophenol	139	7.243	7.248	-0.005	83	39332	2.00	1.88	
51 2,4-Dimethylphenol	122	7.248	7.253	-0.005	88	69070	2.00	1.92	
52 Bis(2-chloroethoxy)methane	93	7.324	7.329	-0.005	97	80583	2.00	1.94	
54 Benzoic acid	122	7.310	7.353	-0.043	97	57917	4.00	3.92	
55 2,4-Dichlorophenol	162	7.443	7.448	-0.005	94	68225	2.00	1.97	
56 1,2,4-Trichlorobenzene	180	7.524	7.529	-0.005	93	76240	2.00	1.97	
58 Naphthalene	128	7.595	7.600	-0.005	99	227523	2.00	1.98	
60 4-Chloroaniline	127	7.614	7.619	-0.005	97	96946	2.00	2.06	
62 2,6-Dichlorophenol	162	7.633	7.633	0.000	97	68066	2.00	1.95	
63 Hexachlorobutadiene	225	7.695	7.695	0.000	96	42652	2.00	2.08	
65 Caprolactam	113	7.890	7.914	-0.024	69	19025	2.00	1.87	
66 4-Chloro-3-methylphenol	107	7.995	8.004	-0.009	97	65003	2.00	1.94	
68 2-Methylnaphthalene	142	8.175	8.176	-0.001	98	155456	2.00	1.94	
70 1-Methylnaphthalene	142	8.261	8.261	0.000	98	140912	2.00	1.95	
72 Hexachlorocyclopentadiene	237	8.313	8.314	-0.001	94	44222	2.00	1.90	
73 1,2,4,5-Tetrachlorobenzene	216	8.318	8.323	-0.005	97	77784	2.00	2.09	
74 2,4,6-Trichlorophenol	196	8.399	8.404	-0.005	90	50167	2.00	2.02	
76 2,4,5-Trichlorophenol	196	8.432	8.437	-0.005	97	51641	2.00	2.06	
79 1,1'-Biphenyl	154	8.556	8.561	-0.005	94	182014	2.00	1.99	
80 2-Chloronaphthalene	162	8.589	8.594	-0.005	98	158669	2.00	2.06	
81 2-Nitroaniline	65	8.651	8.656	-0.005	94	38245	2.00	1.87	
82 Dimethyl phthalate	163	8.779	8.789	-0.010	99	156238	2.00	2.01	
83 1,3-Dinitrobenzene	168	8.817	8.822	-0.005	85	21053	2.00	1.92	
84 2,6-Dinitrotoluene	165	8.841	8.846	-0.005	93	34229	2.00	2.00	
86 Acenaphthylene	152	8.946	8.946	0.000	97	246157	2.00	2.07	
88 3-Nitroaniline	138	8.993	9.003	-0.010	92	35357	2.00	2.17	
91 2,4-Dinitrophenol	184	9.079	9.084	-0.005	94	28683	4.00	3.12	
90 Acenaphthene	154	9.093	9.093	0.000	93	149151	2.00	2.01	
92 4-Nitrophenol	109	9.103	9.112	-0.009	86	43583	4.00	3.86	
95 2,4-Dinitrotoluene	165	9.184	9.193	-0.009	90	41990	2.00	1.90	
97 Dibenzofuran	168	9.231	9.236	-0.005	96	210284	2.00	2.03	
99 2,3,4,6-Tetrachlorophenol	232	9.326	9.331	-0.005	95	38247	2.00	2.01	
101 Hexadecane	57	9.374	9.374	0.000	71	72145	2.00	1.71	
100 Diethyl phthalate	149	9.369	9.374	-0.005	98	154623	2.00	2.09	
103 4-Chlorophenyl phenyl ethe	204	9.497	9.502	-0.005	89	78154	2.00	2.05	
106 4-Nitroaniline	138	9.507	9.517	-0.010	87	35224	2.00	2.38	
104 Fluorene	166	9.526	9.526	0.000	95	160525	2.00	2.05	
109 4,6-Dinitro-2-methylphenol	198	9.540	9.545	-0.005	93	39058	4.00	3.24	
111 N-Nitrosodiphenylamine	169	9.593	9.598	-0.005	69	108934	2.00	1.92	
98 Diphenylamine	169	9.593	9.598	-0.005	96	108934	1.70	1.62	
113 1,2-Diphenylhydrazine	77	9.635	9.636	-0.001	99	164541	2.00	2.02	
119 4-Bromophenyl phenyl ether	248	9.916	9.921	-0.005	88	41915	2.00	1.95	
122 Hexachlorobenzene	284	10.006	10.011	-0.005	98	43926	2.00	2.01	
123 Atrazine	200	10.011	10.021	-0.010	85	35953	2.00	2.04	
124 n-Octadecane	43	10.144	10.149	-0.005	81	138161	2.00	2.02	
125 Pentachlorophenol	266	10.154	10.159	-0.005	97	45955	4.00	3.66	
127 Phenanthrene	178	10.349	10.354	-0.005	96	230724	2.00	1.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.392	10.396	-0.004	99	236842	2.00	2.01	
129 Carbazole	167	10.515	10.520	-0.005	95	197973	2.00	1.98	
133 Di-n-butyl phthalate	149	10.786	10.786	0.000	99	236352	2.00	1.92	
136 Fluoranthene	202	11.566	11.571	-0.005	99	234394	2.00	2.02	
138 Benzidine	184	11.680	11.685	-0.005	99	66475	2.00	1.60	
141 Pyrene	202	11.856	11.866	-0.010	98	233323	2.00	2.01	
147 Butyl benzyl phthalate	149	12.698	12.703	-0.005	96	104533	2.00	1.92	
149 3,3'-Dichlorobenzidine	252	13.711	13.721	-0.010	98	70942	2.00	2.00	
150 Bis(2-ethylhexyl) phthalat	149	13.787	13.792	-0.005	85	140191	2.00	1.89	
151 Benzo[a]anthracene	228	13.801	13.806	-0.005	97	200551	2.00	1.90	
152 Chrysene	228	13.873	13.887	-0.014	99	182620	2.00	1.91	
155 Di-n-octyl phthalate	149	15.375	15.380	-0.005	94	247137	2.00	1.88	
157 Benzo[b]fluoranthene	252	16.517	16.541	-0.024	98	181126	2.00	1.91	
158 Benzo[k]fluoranthene	252	16.602	16.626	-0.024	98	179917	2.00	1.87	
160 Benzo[a]pyrene	252	17.615	17.634	-0.019	98	187808	2.00	1.97	
163 Indeno[1,2,3-cd]pyrene	276	20.635	20.664	-0.029	99	211083	2.00	2.04	
164 Dibenz(a,h)anthracene	278	20.706	20.726	-0.020	97	169581	2.00	1.98	
165 Benzo[g,h,i]perylene	276	21.344	21.382	-0.038	96	180552	2.00	2.00	
S 170 Total Cresols, TCEQ Defini	1				0			4.12	
S 171 Methyl Phenols,Total	1				0			4.12	

Reagents:

SMlst1_5uLL6_00034 Amount Added: 1.00 Units: mL

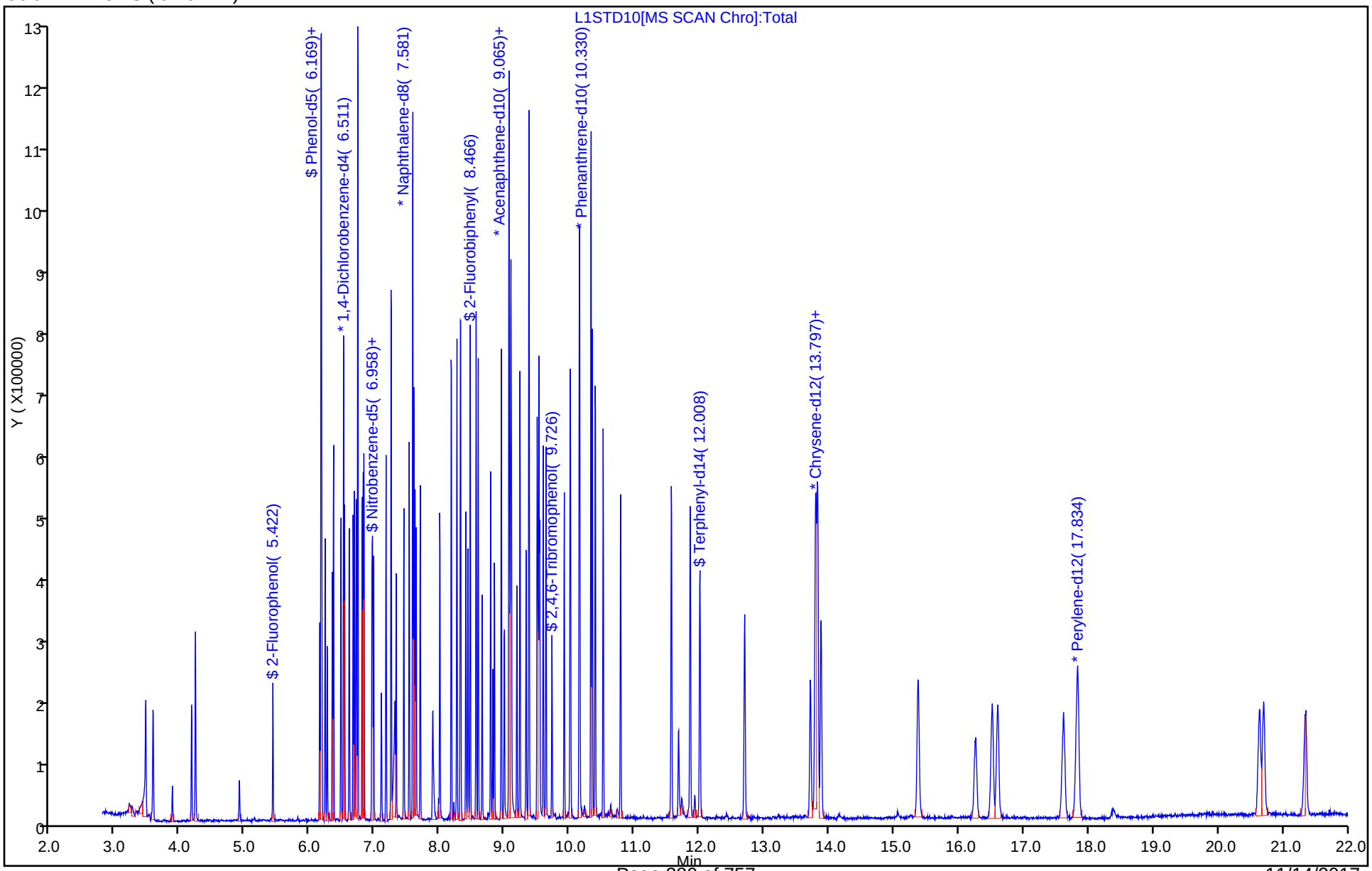
Report Date: 09-Nov-2017 15:46:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD10.D

Injection Date:	26-Oct-2017 19:25:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD20.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 26-Oct-2017 19:55:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-008
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:44 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 07:58:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	95	114872	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	99	453611	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	96	223710	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	365889	3.20	3.20	
* 5 Chrysene-d12	240	13.830	13.830	0.000	99	290519	3.20	3.20	
* 6 Perylene-d12	264	17.844	17.839	0.005	98	296112	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	93	114156	4.00	3.84	
$ 8 Phenol-d5	99	6.169	6.173	-0.004	96	197911	4.00	3.96	
$ 9 Nitrobenzene-d5	82	6.963	6.963	0.000	92	198000	4.00	3.73	
$ 10 2-Fluorobiphenyl	172	8.466	8.470	-0.004	98	350506	4.00	3.72	
$ 11 2,4,6-Tribromophenol	330	9.731	9.731	0.000	93	44814	4.00	3.82	
$ 12 Terphenyl-d14	244	12.009	12.009	0.000	100	272213	4.00	3.69	
13 1,4-Dioxane	88	3.872	3.872	0.000	84	36767	4.00	3.63	
14 N-Nitrosodimethylamine	42	4.171	4.176	-0.005	55	162146	4.00	3.82	
15 Pyridine	79	4.228	4.228	0.000	94	277113	8.00	8.48	
25 Benzaldehyde	77	6.145	6.145	0.000	96	72795	4.00	4.64	
26 Phenol	94	6.183	6.183	0.000	94	196238	4.00	3.77	
27 Aniline	93	6.231	6.231	0.000	98	259012	4.00	3.79	
28 Bis(2-chloroethyl)ether	93	6.264	6.264	0.000	96	145354	4.00	3.66	
29 2-Chlorophenol	128	6.340	6.345	-0.005	96	167626	4.00	3.80	
30 n-Decane	43	6.359	6.359	0.000	70	322650	4.00	3.89	
31 1,3-Dichlorobenzene	146	6.473	6.473	0.000	99	201282	4.00	3.73	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	95	208832	4.00	3.77	
36 Benzyl alcohol	108	6.606	6.606	0.000	90	113573	4.00	3.66	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	96	205239	4.00	3.88	
38 2-Methylphenol	107	6.682	6.682	0.000	86	139835	4.00	3.83	
39 2,2'-oxybis[1-chloropropan	45	6.711	6.711	0.000	88	427771	4.00	3.72	
40 Indene	116	6.735	6.735	0.000	89	659397	8.00	7.62	
42 3 & 4 Methylphenol	108	6.801	6.806	-0.005	96	172294	4.00	3.83	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.820	6.820	0.000	93	124364	4.00	3.42	
44 Acetophenone	105	6.830	6.835	-0.005	95	251975	4.00	3.67	
45 Hexachloroethane	117	6.949	6.949	0.000	92	81312	4.00	3.76	
46 Nitrobenzene	77	6.982	6.982	0.000	95	190300	4.00	3.87	
48 Isophorone	82	7.172	7.172	0.000	95	311633	4.00	3.66	
50 2-Nitrophenol	139	7.248	7.248	0.000	78	93573	4.00	3.80	
51 2,4-Dimethylphenol	122	7.248	7.253	-0.005	90	154627	4.00	3.66	
52 Bis(2-chloroethoxy)methane	93	7.324	7.329	-0.005	98	182188	4.00	3.72	
54 Benzoic acid	122	7.339	7.353	-0.014	93	157963	8.00	8.42	
55 2,4-Dichlorophenol	162	7.443	7.448	-0.005	94	156918	4.00	3.84	
56 1,2,4-Trichlorobenzene	180	7.524	7.529	-0.005	93	177963	4.00	3.91	
58 Naphthalene	128	7.600	7.600	0.000	99	519830	4.00	3.84	
60 4-Chloroaniline	127	7.619	7.619	0.000	95	216989	4.00	3.91	
62 2,6-Dichlorophenol	162	7.633	7.633	0.000	97	156275	4.00	3.81	
63 Hexachlorobutadiene	225	7.695	7.695	0.000	96	91985	4.00	3.81	
65 Caprolactam	113	7.904	7.914	-0.010	69	44843	4.00	3.73	
66 4-Chloro-3-methylphenol	107	8.000	8.004	-0.004	97	146558	4.00	3.70	
68 2-Methylnaphthalene	142	8.176	8.176	0.000	100	346955	4.00	3.68	
70 1-Methylnaphthalene	142	8.261	8.261	0.000	99	310683	4.00	3.65	
72 Hexachlorocyclopentadiene	237	8.313	8.314	-0.001	95	108418	4.00	4.04	
73 1,2,4,5-Tetrachlorobenzene	216	8.323	8.323	0.000	97	165568	4.00	3.84	
74 2,4,6-Trichlorophenol	196	8.399	8.404	-0.005	90	108528	4.00	3.77	
76 2,4,5-Trichlorophenol	196	8.432	8.437	-0.005	96	106636	4.00	3.67	
79 1,1'-Biphenyl	154	8.556	8.561	-0.005	95	409092	4.00	3.86	
80 2-Chloronaphthalene	162	8.589	8.594	-0.005	98	341666	4.00	3.84	
81 2-Nitroaniline	65	8.651	8.656	-0.005	95	88398	4.00	3.73	
82 Dimethyl phthalate	163	8.784	8.789	-0.005	99	339669	4.00	3.78	
83 1,3-Dinitrobenzene	168	8.822	8.822	0.000	85	47367	4.00	3.74	
84 2,6-Dinitrotoluene	165	8.841	8.846	-0.005	91	75474	4.00	3.81	
86 Acenaphthylene	152	8.946	8.946	0.000	98	533531	4.00	3.89	
88 3-Nitroaniline	138	8.998	9.003	-0.005	91	72246	4.00	3.83	
91 2,4-Dinitrophenol	184	9.084	9.084	0.000	94	71812	8.00	6.76	
90 Acenaphthene	154	9.093	9.093	0.000	94	339305	4.00	3.96	
92 4-Nitrophenol	109	9.108	9.112	-0.004	84	99854	8.00	7.64	
95 2,4-Dinitrotoluene	165	9.189	9.193	-0.005	90	95991	4.00	3.66	
97 Dibenzofuran	168	9.236	9.236	0.000	96	459442	4.00	3.84	
99 2,3,4,6-Tetrachlorophenol	232	9.331	9.331	0.000	96	84771	4.00	3.85	
100 Diethyl phthalate	149	9.374	9.374	0.000	98	327390	4.00	3.82	
101 Hexadecane	57	9.374	9.374	0.000	73	170767	4.00	3.51	
103 4-Chlorophenyl phenyl ethe	204	9.502	9.502	0.000	90	175878	4.00	3.99	
106 4-Nitroaniline	138	9.517	9.517	0.000	84	72656	4.00	4.24	
104 Fluorene	166	9.526	9.526	0.000	95	353364	4.00	3.89	
109 4,6-Dinitro-2-methylphenol	198	9.540	9.545	-0.005	95	96762	8.00	7.32	
98 Diphenylamine	169	9.593	9.598	-0.005	94	239526	3.40	3.24	
111 N-Nitrosodiphenylamine	169	9.593	9.598	-0.005	67	239526	4.00	3.85	
113 1,2-Diphenylhydrazine	77	9.636	9.636	0.000	98	353239	4.00	3.75	
119 4-Bromophenyl phenyl ether	248	9.916	9.921	-0.005	84	91521	4.00	3.88	
122 Hexachlorobenzene	284	10.006	10.011	-0.005	97	93938	4.00	3.91	
123 Atrazine	200	10.016	10.021	-0.005	86	73740	4.00	3.81	
124 n-Octadecane	43	10.149	10.149	0.000	84	302765	4.00	4.03	
125 Pentachlorophenol	266	10.159	10.159	0.000	96	108243	8.00	7.86	
127 Phenanthrene	178	10.354	10.354	0.000	97	491536	4.00	3.85	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.396	10.396	0.000	99	502498	4.00	3.88	
129 Carbazole	167	10.520	10.520	0.000	96	428598	4.00	3.91	
133 Di-n-butyl phthalate	149	10.786	10.786	0.000	99	504777	4.00	3.73	
136 Fluoranthene	202	11.571	11.571	0.000	98	501365	4.00	3.94	
138 Benzidine	184	11.680	11.685	-0.005	99	171551	4.00	3.73	
141 Pyrene	202	11.866	11.866	0.000	99	504276	4.00	3.92	
147 Butyl benzyl phthalate	149	12.703	12.703	0.000	96	235350	4.00	3.90	
149 3,3'-Dichlorobenzidine	252	13.716	13.721	-0.005	99	152706	4.00	3.88	
150 Bis(2-ethylhexyl) phthalat	149	13.787	13.792	-0.005	87	309825	4.00	3.78	
151 Benzo[a]anthracene	228	13.806	13.806	0.000	97	440211	4.00	3.77	
152 Chrysene	228	13.882	13.887	-0.005	99	410092	4.00	3.87	
155 Di-n-octyl phthalate	149	15.376	15.380	-0.004	94	544537	4.00	3.78	
157 Benzo[b]fluoranthene	252	16.526	16.541	-0.015	98	420299	4.00	3.92	
158 Benzo[k]fluoranthene	252	16.617	16.626	-0.009	99	401119	4.00	3.69	
160 Benzo[a]pyrene	252	17.634	17.634	0.000	98	414828	4.00	3.85	
163 Indeno[1,2,3-cd]pyrene	276	20.654	20.664	-0.010	99	465734	4.00	3.99	
164 Dibenz(a,h)anthracene	278	20.721	20.726	-0.005	97	369638	4.00	3.81	
165 Benzo[g,h,i]perylene	276	21.368	21.382	-0.014	98	389384	4.00	3.81	
S 171 Methyl Phenols,Total	1				0			7.67	
S 170 Total Cresols, TCEQ Defini	1				0			7.67	

Reagents:

SMlst1_5uLL7_00034 Amount Added: 1.00 Units: mL

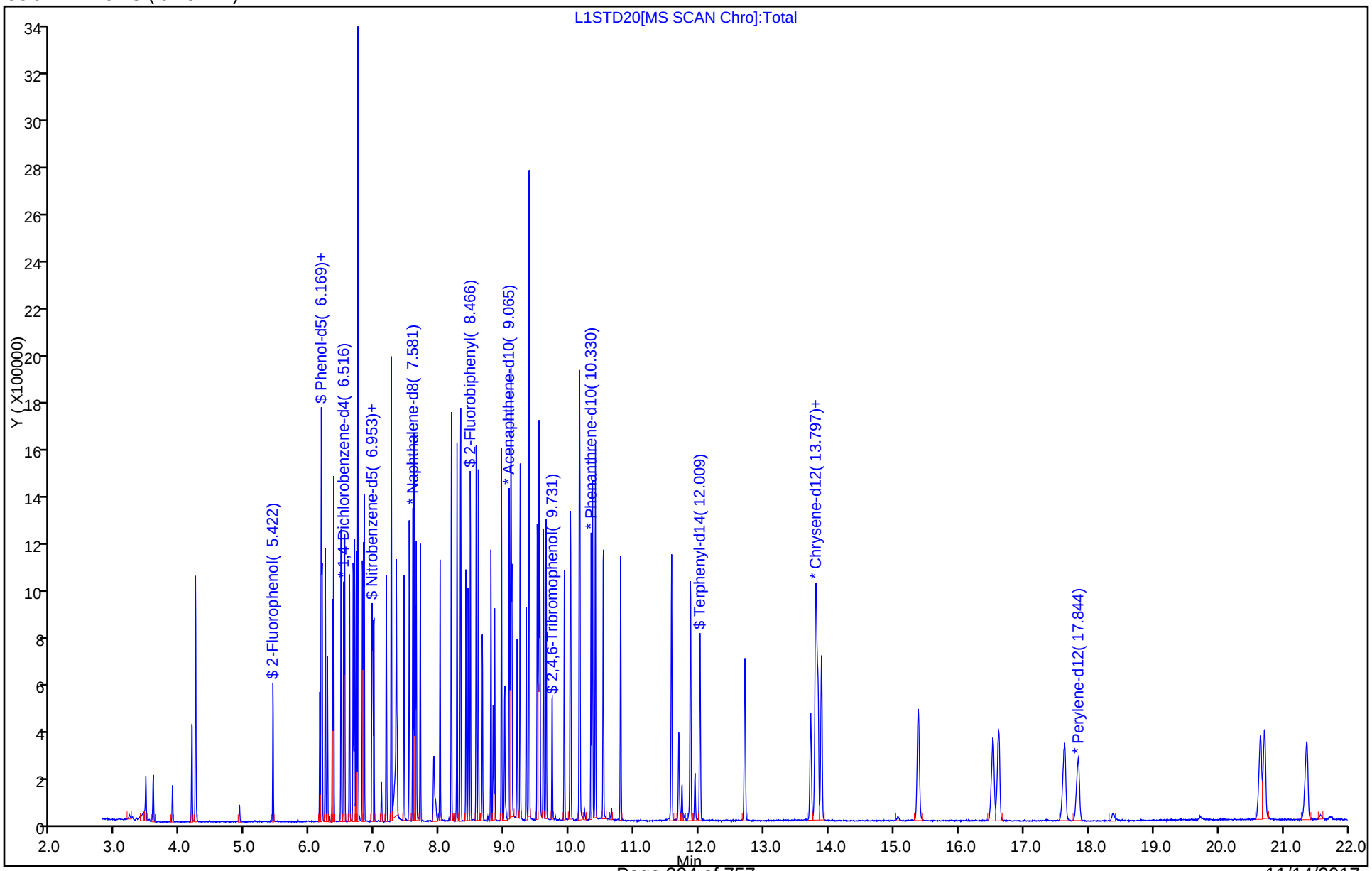
Report Date: 09-Nov-2017 15:46:48 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD20.D

Injection Date:	26-Oct-2017 19:55:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD40.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 8
Inject. Date: 26-Oct-2017 20:25:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: icis
Misc. Info.: 500-0048643-009
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:46:52 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 07:51:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	96	82384	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	98	318863	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	92	159792	3.20	3.20	
* 4 Phenanthrene-d10	188	10.330	10.330	0.000	98	258574	3.20	3.20	
* 5 Chrysene-d12	240	13.830	13.830	0.000	99	203422	3.20	3.20	
* 6 Perylene-d12	264	17.839	17.839	0.000	97	204736	3.20	3.20	
$ 7 2-Fluorophenol	112	5.422	5.422	0.000	93	190900	8.00	7.64	
$ 8 Phenol-d5	99	6.173	6.173	0.000	84	289410	8.00	8.07	
$ 9 Nitrobenzene-d5	82	6.963	6.963	0.000	92	303179	8.00	8.12	
$ 10 2-Fluorobiphenyl	172	8.470	8.470	0.000	98	526103	8.00	7.82	
$ 11 2,4,6-Tribromophenol	330	9.731	9.731	0.000	94	68770	8.00	8.20	
$ 12 Terphenyl-d14	244	12.009	12.009	0.000	98	414171	8.00	8.02	
13 1,4-Dioxane	88	3.872	3.872	0.000	83	52800	8.00	7.27	
14 N-Nitrosodimethylamine	42	4.176	4.176	0.000	54	233805	8.00	7.69	
15 Pyridine	79	4.228	4.228	0.000	92	417824	16.0	14.9	
25 Benzaldehyde	77	6.145	6.145	0.000	95	89993	8.00	8.00	
26 Phenol	94	6.183	6.183	0.000	92	289186	8.00	7.75	
27 Aniline	93	6.231	6.231	0.000	98	373272	8.00	7.61	
28 Bis(2-chloroethyl)ether	93	6.264	6.264	0.000	97	215866	8.00	7.58	
29 2-Chlorophenol	128	6.345	6.345	0.000	94	244053	8.00	7.71	
30 n-Decane	43	6.359	6.359	0.000	71	476379	8.00	8.00	
31 1,3-Dichlorobenzene	146	6.473	6.473	0.000	99	304106	8.00	7.86	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	94	307773	8.00	7.75	
36 Benzyl alcohol	108	6.606	6.606	0.000	89	168501	8.00	7.58	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	95	291240	8.00	7.67	
38 2-Methylphenol	107	6.682	6.682	0.000	84	207522	8.00	7.93	
39 2,2'-oxybis[1-chloropropan	45	6.711	6.711	0.000	88	609729	8.00	7.40	
40 Indene	116	6.735	6.735	0.000	88	976254	16.0	15.7	
42 3 & 4 Methylphenol	108	6.806	6.806	0.000	96	247080	8.00	7.66	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.820	6.820	0.000	93	184066	8.00	7.05	
44 Acetophenone	105	6.835	6.835	0.000	94	351972	8.00	7.15	
45 Hexachloroethane	117	6.949	6.949	0.000	88	119414	8.00	7.71	
46 Nitrobenzene	77	6.982	6.982	0.000	93	275400	8.00	7.97	
48 Isophorone	82	7.172	7.172	0.000	93	450033	8.00	7.53	
50 2-Nitrophenol	139	7.248	7.248	0.000	79	131237	8.00	7.59	
51 2,4-Dimethylphenol	122	7.253	7.253	0.000	86	227761	8.00	7.66	
52 Bis(2-chloroethoxy)methane	93	7.329	7.329	0.000	98	264654	8.00	7.68	
54 Benzoic acid	122	7.353	7.353	0.000	93	243292	16.0	15.4	
55 2,4-Dichlorophenol	162	7.448	7.448	0.000	94	220405	8.00	7.68	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	88	254180	8.00	7.94	
58 Naphthalene	128	7.600	7.600	0.000	98	738399	8.00	7.77	
60 4-Chloroaniline	127	7.619	7.619	0.000	94	290932	8.00	7.45	
62 2,6-Dichlorophenol	162	7.633	7.633	0.000	95	221529	8.00	7.67	
63 Hexachlorobutadiene	225	7.695	7.695	0.000	89	134702	8.00	7.93	
65 Caprolactam	113	7.914	7.914	0.000	72	67653	8.00	8.01	
66 4-Chloro-3-methylphenol	107	8.004	8.004	0.000	96	214811	8.00	7.72	
68 2-Methylnaphthalene	142	8.176	8.176	0.000	97	490345	8.00	7.39	
70 1-Methylnaphthalene	142	8.261	8.261	0.000	96	449072	8.00	7.50	
72 Hexachlorocyclopentadiene	237	8.314	8.314	0.000	87	148028	8.00	7.72	
73 1,2,4,5-Tetrachlorobenzene	216	8.323	8.323	0.000	93	233351	8.00	7.58	
74 2,4,6-Trichlorophenol	196	8.404	8.404	0.000	88	159299	8.00	7.75	
76 2,4,5-Trichlorophenol	196	8.437	8.437	0.000	96	154651	8.00	7.46	
79 1,1'-Biphenyl	154	8.561	8.561	0.000	95	569047	8.00	7.52	
80 2-Chloronaphthalene	162	8.594	8.594	0.000	98	476477	8.00	7.50	
81 2-Nitroaniline	65	8.656	8.656	0.000	94	132063	8.00	7.80	
82 Dimethyl phthalate	163	8.789	8.789	0.000	100	490098	8.00	7.63	
83 1,3-Dinitrobenzene	168	8.822	8.822	0.000	83	66583	8.00	7.37	
84 2,6-Dinitrotoluene	165	8.846	8.846	0.000	92	110120	8.00	7.78	
86 Acenaphthylene	152	8.946	8.946	0.000	96	756387	8.00	7.72	
88 3-Nitroaniline	138	9.003	9.003	0.000	91	101711	8.00	7.55	
91 2,4-Dinitrophenol	184	9.084	9.084	0.000	85	114760	16.0	15.1	
90 Acenaphthene	154	9.093	9.093	0.000	94	488892	8.00	7.98	
92 4-Nitrophenol	109	9.112	9.112	0.000	86	143205	16.0	15.3	
95 2,4-Dinitrotoluene	165	9.193	9.193	0.000	93	143405	8.00	7.54	
97 Dibenzofuran	168	9.236	9.236	0.000	91	655827	8.00	7.67	
99 2,3,4,6-Tetrachlorophenol	232	9.331	9.331	0.000	92	117383	8.00	7.46	
101 Hexadecane	57	9.374	9.374	0.000	77	260305	8.00	7.49	
100 Diethyl phthalate	149	9.374	9.374	0.000	97	458139	8.00	7.49	
103 4-Chlorophenyl phenyl ethe	204	9.502	9.502	0.000	89	233922	8.00	7.43	
106 4-Nitroaniline	138	9.517	9.517	0.000	86	96760	8.00	7.91	
104 Fluorene	166	9.526	9.526	0.000	86	496105	8.00	7.65	
109 4,6-Dinitro-2-methylphenol	198	9.545	9.545	0.000	95	149151	16.0	16.0	
111 N-Nitrosodiphenylamine	169	9.598	9.598	0.000	65	344766	8.00	7.84	
98 Diphenylamine	169	9.598	9.598	0.000	84	344766	6.80	6.61	
113 1,2-Diphenylhydrazine	77	9.636	9.636	0.000	96	502585	8.00	7.46	
119 4-Bromophenyl phenyl ether	248	9.921	9.921	0.000	92	126396	8.00	7.59	
122 Hexachlorobenzene	284	10.011	10.011	0.000	92	128401	8.00	7.56	
123 Atrazine	200	10.021	10.021	0.000	90	103950	8.00	7.60	
124 n-Octadecane	43	10.149	10.149	0.000	84	413938	8.00	7.80	
125 Pentachlorophenol	266	10.159	10.159	0.000	94	155385	16.0	16.0	
127 Phenanthrene	178	10.354	10.354	0.000	97	682380	8.00	7.57	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.396	10.396	0.000	99	723361	8.00	7.91	
129 Carbazole	167	10.520	10.520	0.000	83	592364	8.00	7.65	
133 Di-n-butyl phthalate	149	10.786	10.786	0.000	99	730061	8.00	7.63	
136 Fluoranthene	202	11.571	11.571	0.000	98	707624	8.00	7.87	
138 Benzidine	184	11.685	11.685	0.000	97	227269	8.00	7.05	
141 Pyrene	202	11.866	11.866	0.000	98	712763	8.00	7.92	
147 Butyl benzyl phthalate	149	12.703	12.703	0.000	96	329733	8.00	7.80	
149 3,3'-Dichlorobenzidine	252	13.721	13.721	0.000	98	209734	8.00	7.61	
150 Bis(2-ethylhexyl) phthalat	149	13.792	13.792	0.000	84	445680	8.00	7.76	
151 Benzo[a]anthracene	228	13.806	13.806	0.000	98	622068	8.00	7.60	
152 Chrysene	228	13.887	13.887	0.000	96	577573	8.00	7.79	
155 Di-n-octyl phthalate	149	15.380	15.380	0.000	91	765284	8.00	7.52	
157 Benzo[b]fluoranthene	252	16.541	16.541	0.000	89	558609	8.00	7.53	
158 Benzo[k]fluoranthene	252	16.626	16.626	0.000	99	573332	8.00	7.63	
160 Benzo[a]pyrene	252	17.634	17.634	0.000	87	575309	8.00	7.73	
163 Indeno[1,2,3-cd]pyrene	276	20.664	20.664	0.000	98	650386	8.00	8.06	
164 Dibenz(a,h)anthracene	278	20.726	20.726	0.000	87	527051	8.00	7.86	
165 Benzo[g,h,i]perylene	276	21.382	21.382	0.000	96	554591	8.00	7.85	

Reagents:

SMlst1_5uLL8_00034 Amount Added: 1.00 Units: mL

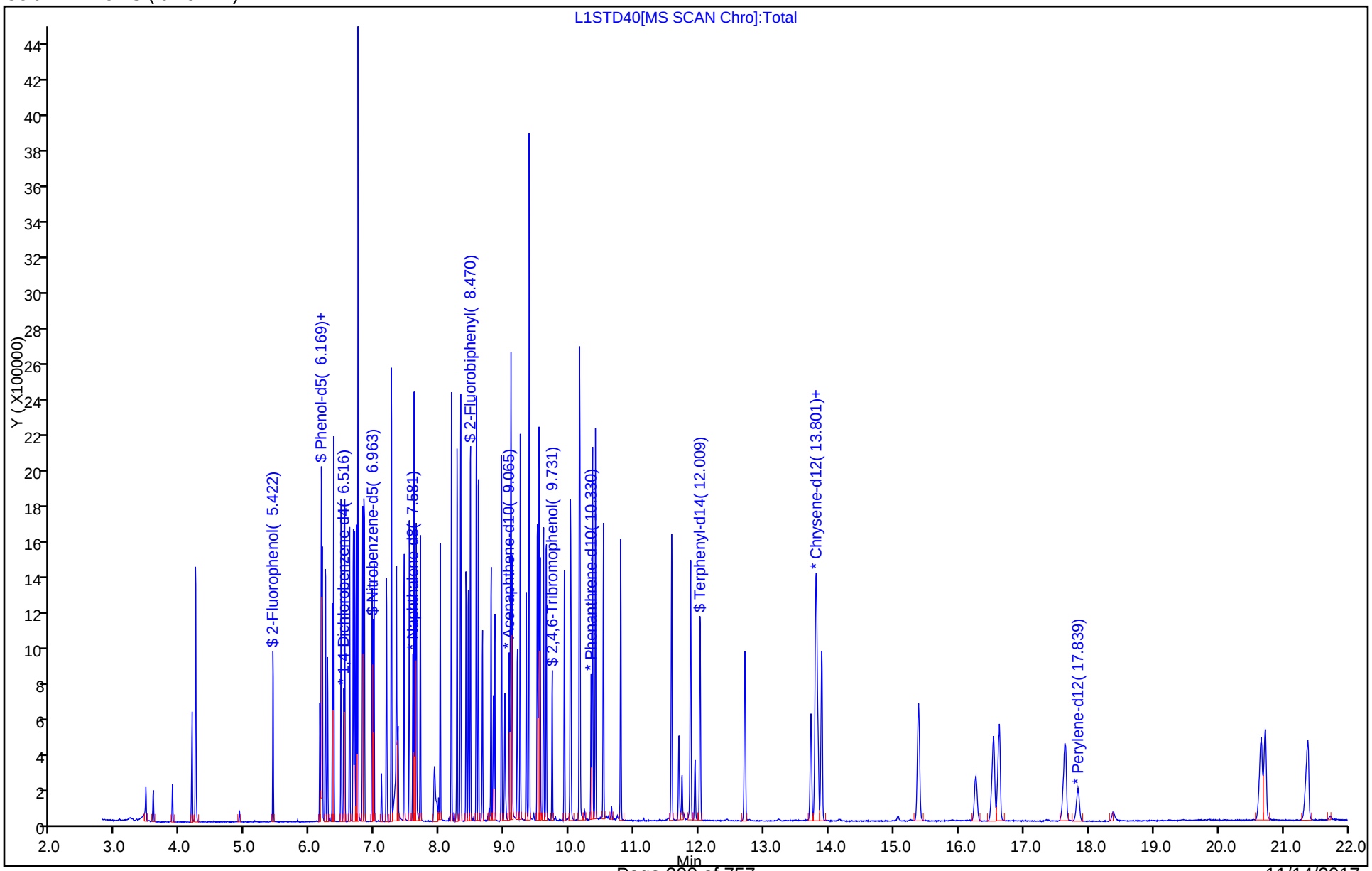
Report Date: 09-Nov-2017 15:46:55 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD40.D

Injection Date:	26-Oct-2017 20:25:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	icis			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD50.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 26-Oct-2017 20:55:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-010
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:47:00 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:18:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	96	118722	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	99	439412	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	94	221144	3.20	3.20	
* 4 Phenanthrene-d10	188	10.335	10.330	0.005	98	358297	3.20	3.20	
* 5 Chrysene-d12	240	13.839	13.830	0.009	99	286983	3.20	3.20	
* 6 Perylene-d12	264	17.853	17.839	0.014	98	285759	3.20	3.20	
$ 7 2-Fluorophenol	112	5.427	5.422	0.005	95	399512	10.0	10.1	
$ 8 Phenol-d5	99	6.178	6.173	0.005	94	561388	10.0	10.9	
$ 9 Nitrobenzene-d5	82	6.968	6.963	0.005	90	553595	10.0	10.8	
$ 10 2-Fluorobiphenyl	172	8.470	8.470	0.000	97	918925	10.0	9.86	
$ 11 2,4,6-Tribromophenol	330	9.735	9.731	0.004	93	118461	10.0	10.2	
$ 12 Terphenyl-d14	244	12.018	12.009	0.009	99	736148	10.0	10.1	
13 1,4-Dioxane	88	3.876	3.872	0.004	85	102896	10.0	9.83	
14 N-Nitrosodimethylamine	42	4.186	4.176	0.010	56	435972	10.0	9.95	
15 Pyridine	79	4.238	4.228	0.010	94	940161	20.0	20.4	
25 Benzaldehyde	77	6.150	6.145	0.005	96	121891	10.0	7.52	
26 Phenol	94	6.192	6.183	0.009	96	567804	10.0	10.6	
27 Aniline	93	6.240	6.231	0.009	98	701939	10.0	9.93	
28 Bis(2-chloroethyl)ether	93	6.269	6.264	0.004	96	391853	10.0	9.55	
29 2-Chlorophenol	128	6.345	6.345	0.000	97	467979	10.0	10.3	
30 n-Decane	43	6.359	6.359	0.000	72	806429	10.0	9.40	
31 1,3-Dichlorobenzene	146	6.478	6.473	0.005	99	561929	10.0	10.1	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	93	569439	10.0	9.95	
36 Benzyl alcohol	108	6.611	6.606	0.005	91	310597	10.0	9.69	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	96	543928	10.0	9.95	
38 2-Methylphenol	107	6.687	6.682	0.005	87	382069	10.0	10.1	
39 2,2'-oxybis[1-chloropropan	45	6.716	6.711	0.005	89	1080634	10.0	9.10	
40 Indene	116	6.739	6.735	0.004	91	1750678	20.0	19.6	
42 3 & 4 Methylphenol	108	6.815	6.806	0.009	97	456187	10.0	9.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.830	6.820	0.010	94	331065	10.0	8.80	
44 Acetophenone	105	6.839	6.835	0.004	93	645593	10.0	9.09	
45 Hexachloroethane	117	6.953	6.949	0.004	92	220537	10.0	9.88	
46 Nitrobenzene	77	6.987	6.982	0.005	94	498019	10.0	10.5	
48 Isophorone	82	7.182	7.172	0.010	96	803629	10.0	9.75	
50 2-Nitrophenol	139	7.253	7.248	0.005	89	247294	10.0	10.4	
51 2,4-Dimethylphenol	122	7.258	7.253	0.005	89	415324	10.0	10.1	
52 Bis(2-chloroethoxy)methane	93	7.329	7.329	0.000	98	473196	10.0	9.96	
54 Benzoic acid	122	7.386	7.353	0.033	94	483127	20.0	20.0	
55 2,4-Dichlorophenol	162	7.453	7.448	0.005	94	395302	10.0	10.0	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	93	445392	10.0	10.1	
58 Naphthalene	128	7.605	7.600	0.005	99	1317227	10.0	10.1	
60 4-Chloroaniline	127	7.624	7.619	0.005	96	528438	10.0	9.82	
62 2,6-Dichlorophenol	162	7.638	7.633	0.005	97	393044	10.0	9.88	
63 Hexachlorobutadiene	225	7.700	7.695	0.005	96	232471	10.0	9.93	
65 Caprolactam	113	7.938	7.914	0.024	70	114027	10.0	9.80	
66 4-Chloro-3-methylphenol	107	8.009	8.004	0.005	97	384167	10.0	10.0	
68 2-Methylnaphthalene	142	8.180	8.176	0.004	99	872543	10.0	9.54	
70 1-Methylnaphthalene	142	8.266	8.261	0.005	99	801813	10.0	9.72	
72 Hexachlorocyclopentadiene	237	8.318	8.314	0.004	95	261763	10.0	9.86	
73 1,2,4,5-Tetrachlorobenzene	216	8.323	8.323	0.000	97	407674	10.0	9.57	
74 2,4,6-Trichlorophenol	196	8.404	8.404	0.000	90	275759	10.0	9.69	
76 2,4,5-Trichlorophenol	196	8.442	8.437	0.005	97	281868	10.0	9.82	
79 1,1'-Biphenyl	154	8.561	8.561	0.000	96	1009827	10.0	9.64	
80 2-Chloronaphthalene	162	8.594	8.594	0.000	98	851518	10.0	9.69	
81 2-Nitroaniline	65	8.661	8.656	0.005	96	229750	10.0	9.80	
82 Dimethyl phthalate	163	8.794	8.789	0.005	99	861000	10.0	9.68	
83 1,3-Dinitrobenzene	168	8.832	8.822	0.010	82	125827	10.0	10.1	
84 2,6-Dinitrotoluene	165	8.851	8.846	0.005	91	196501	10.0	10.0	
86 Acenaphthylene	152	8.951	8.946	0.005	98	1319478	10.0	9.72	
88 3-Nitroaniline	138	9.012	9.003	0.009	92	171891	10.0	9.22	
91 2,4-Dinitrophenol	184	9.093	9.084	0.009	91	220491	20.0	21.0	
90 Acenaphthene	154	9.098	9.093	0.005	94	845192	10.0	9.97	
92 4-Nitrophenol	109	9.122	9.112	0.010	86	265509	20.0	20.6	
95 2,4-Dinitrotoluene	165	9.198	9.193	0.005	89	250787	10.0	9.50	
97 Dibenzofuran	168	9.241	9.236	0.005	96	1124410	10.0	9.50	
99 2,3,4,6-Tetrachlorophenol	232	9.336	9.331	0.005	96	210947	10.0	9.69	
100 Diethyl phthalate	149	9.379	9.374	0.005	97	802822	10.0	9.48	
101 Hexadecane	57	9.379	9.374	0.005	83	507922	10.0	10.6	
103 4-Chlorophenyl phenyl ethe	204	9.502	9.502	0.000	87	406383	10.0	9.33	
106 4-Nitroaniline	138	9.526	9.517	0.009	83	148655	10.0	8.78	
104 Fluorene	166	9.531	9.526	0.005	96	869173	10.0	9.69	
109 4,6-Dinitro-2-methylphenol	198	9.555	9.545	0.010	94	278625	20.0	21.5	
98 Diphenylamine	169	9.602	9.598	0.004	95	596729	8.50	8.25	
111 N-Nitrosodiphenylamine	169	9.602	9.598	0.004	68	596729	10.0	9.79	
113 1,2-Diphenylhydrazine	77	9.640	9.636	0.004	98	905269	10.0	9.71	
119 4-Bromophenyl phenyl ether	248	9.921	9.921	0.000	85	215777	10.0	9.35	
122 Hexachlorobenzene	284	10.011	10.011	0.000	98	220587	10.0	9.38	
123 Atrazine	200	10.025	10.021	0.004	87	177617	10.0	9.37	
124 n-Octadecane	43	10.149	10.149	0.000	91	693135	10.0	9.42	
125 Pentachlorophenol	266	10.163	10.159	0.004	97	277368	20.0	20.6	
127 Phenanthrene	178	10.358	10.354	0.004	97	1220992	10.0	9.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.401	10.396	0.005	99	1260647	10.0	9.95	
129 Carbazole	167	10.525	10.520	0.005	96	1021350	10.0	9.51	
133 Di-n-butyl phthalate	149	10.791	10.786	0.005	99	1329082	10.0	10.0	
136 Fluoranthene	202	11.580	11.571	0.009	98	1245732	10.0	10.0	
138 Benzidine	184	11.690	11.685	0.005	99	520135	10.0	11.4	
141 Pyrene	202	11.871	11.866	0.005	97	1271372	10.0	10.0	
147 Butyl benzyl phthalate	149	12.708	12.703	0.005	97	608051	10.0	10.2	
149 3,3'-Dichlorobenzidine	252	13.730	13.721	0.009	99	385375	10.0	9.91	
150 Bis(2-ethylhexyl) phthalat	149	13.797	13.792	0.005	85	816694	10.0	10.1	
151 Benzo[a]anthracene	228	13.820	13.806	0.014	98	1105484	10.0	9.58	
152 Chrysene	228	13.901	13.887	0.014	99	1033531	10.0	9.88	
155 Di-n-octyl phthalate	149	15.390	15.380	0.010	95	1412926	10.0	10.0	
157 Benzo[b]fluoranthene	252	16.555	16.541	0.014	98	1098393	10.0	10.6	
158 Benzo[k]fluoranthene	252	16.645	16.626	0.019	99	1054086	10.0	10.1	
160 Benzo[a]pyrene	252	17.668	17.634	0.034	97	1046570	10.0	10.1	
163 Indeno[1,2,3-cd]pyrene	276	20.683	20.664	0.019	98	1166500	10.0	10.4	
164 Dibenz(a,h)anthracene	278	20.754	20.726	0.028	97	959353	10.0	10.2	
165 Benzo[g,h,i]perylene	276	21.410	21.382	0.028	98	975766	10.0	9.90	
S 171 Methyl Phenols,Total	1				0			20.0	
S 170 Total Cresols, TCEQ Defini	1				0			20.0	

Reagents:

SMlst1_5uLL9_00033 Amount Added: 1.00 Units: mL

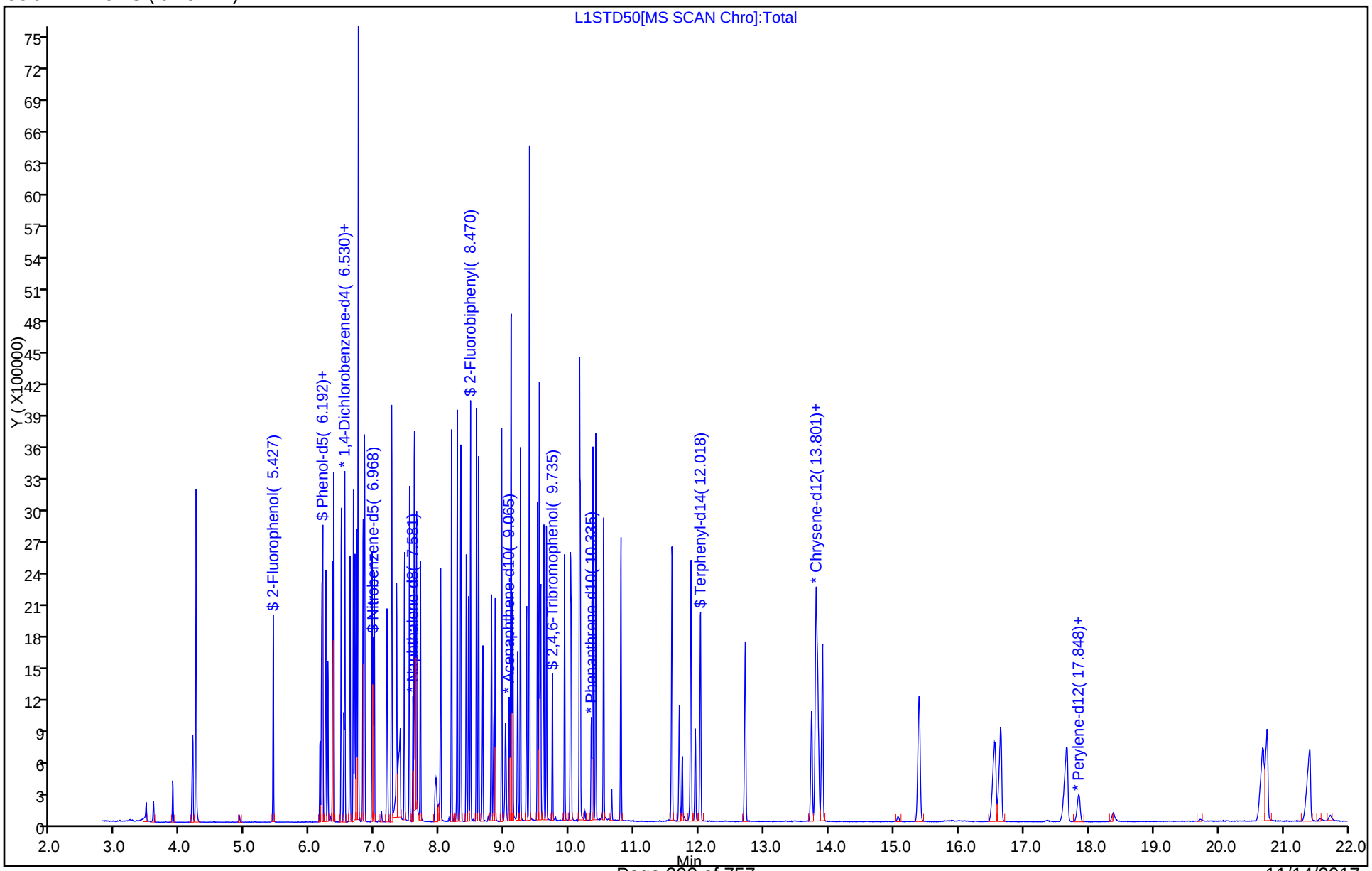
Report Date: 09-Nov-2017 15:47:02 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD50.D

Injection Date:	26-Oct-2017 20:55:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD60.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 10
Inject. Date: 26-Oct-2017 21:25:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-011
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:47:05 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:19:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	97	116223	3.20	3.20	
* 2 Naphthalene-d8	136	7.586	7.581	0.005	99	434862	3.20	3.20	
* 3 Acenaphthene-d10	164	9.070	9.065	0.005	95	213085	3.20	3.20	
* 4 Phenanthrene-d10	188	10.335	10.330	0.005	98	349837	3.20	3.20	
* 5 Chrysene-d12	240	13.844	13.830	0.014	99	278073	3.20	3.20	
* 6 Perylene-d12	264	17.853	17.839	0.014	98	283252	3.20	3.20	
$ 7 2-Fluorophenol	112	5.427	5.422	0.005	95	503672	12.0	12.1	
$ 8 Phenol-d5	99	6.183	6.173	0.010	94	661459	12.0	13.1	
$ 9 Nitrobenzene-d5	82	6.972	6.963	0.009	91	649762	12.0	12.8	
$ 10 2-Fluorobiphenyl	172	8.470	8.470	0.000	98	1089140	12.0	12.1	
$ 11 2,4,6-Tribromophenol	330	9.735	9.731	0.004	91	139736	12.0	12.5	
$ 12 Terphenyl-d14	244	12.018	12.009	0.009	99	870035	12.0	12.3	
13 1,4-Dioxane	88	3.877	3.872	0.004	85	133302	12.0	13.0	
14 N-Nitrosodimethylamine	42	4.195	4.176	0.019	55	532899	12.0	12.4	
15 Pyridine	79	4.238	4.228	0.010	93	1200191	24.0	24.4	
25 Benzaldehyde	77	6.150	6.145	0.005	97	136642	12.0	8.62	
26 Phenol	94	6.197	6.183	0.014	97	709382	12.0	13.5	
27 Aniline	93	6.240	6.231	0.009	98	850464	12.0	12.3	
28 Bis(2-chloroethyl)ether	93	6.273	6.264	0.009	95	507301	12.0	12.6	
29 2-Chlorophenol	128	6.349	6.345	0.004	97	583195	12.0	13.1	
30 n-Decane	43	6.364	6.359	0.005	74	986539	12.0	11.7	
31 1,3-Dichlorobenzene	146	6.478	6.473	0.005	99	683833	12.0	12.5	
33 1,4-Dichlorobenzene	146	6.535	6.530	0.005	94	695747	12.0	12.4	
36 Benzyl alcohol	108	6.616	6.606	0.010	91	374428	12.0	11.9	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	97	663565	12.0	12.4	
38 2-Methylphenol	107	6.687	6.682	0.005	86	469916	12.0	12.7	
39 2,2'-oxybis[1-chloropropan	45	6.716	6.711	0.005	89	1329283	12.0	11.4	
40 Indene	116	6.739	6.735	0.004	91	2129797	24.0	24.3	
42 3 & 4 Methylphenol	108	6.815	6.806	0.009	97	562478	12.0	12.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.834	6.820	0.014	95	419511	12.0	11.4	
44 Acetophenone	105	6.839	6.835	0.004	94	796180	12.0	11.5	
45 Hexachloroethane	117	6.953	6.949	0.004	92	272932	12.0	12.5	
46 Nitrobenzene	77	6.987	6.982	0.005	94	620086	12.0	13.2	
48 Isophorone	82	7.182	7.172	0.010	96	989971	12.0	12.1	
50 2-Nitrophenol	139	7.253	7.248	0.005	88	300192	12.0	12.7	
51 2,4-Dimethylphenol	122	7.258	7.253	0.005	88	499792	12.0	12.3	
52 Bis(2-chloroethoxy)methane	93	7.334	7.329	0.005	98	588045	12.0	12.5	
54 Benzoic acid	122	7.400	7.353	0.047	94	615759	24.0	23.7	
55 2,4-Dichlorophenol	162	7.453	7.448	0.005	94	481326	12.0	12.3	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	93	548866	12.0	12.6	
58 Naphthalene	128	7.605	7.600	0.005	99	1619813	12.0	12.5	
60 4-Chloroaniline	127	7.624	7.619	0.005	96	628989	12.0	11.8	
62 2,6-Dichlorophenol	162	7.638	7.633	0.005	97	481225	12.0	12.2	
63 Hexachlorobutadiene	225	7.700	7.695	0.005	97	279645	12.0	12.1	
65 Caprolactam	113	7.947	7.914	0.033	72	145150	12.0	12.6	
66 4-Chloro-3-methylphenol	107	8.014	8.004	0.010	97	465085	12.0	12.3	
68 2-Methylnaphthalene	142	8.180	8.176	0.004	99	1062556	12.0	11.7	
70 1-Methylnaphthalene	142	8.266	8.261	0.005	100	973472	12.0	11.9	
72 Hexachlorocyclopentadiene	237	8.318	8.314	0.004	95	314366	12.0	12.3	
73 1,2,4,5-Tetrachlorobenzene	216	8.328	8.323	0.005	97	482304	12.0	11.8	
74 2,4,6-Trichlorophenol	196	8.409	8.404	0.005	91	338675	12.0	12.4	
76 2,4,5-Trichlorophenol	196	8.442	8.437	0.005	97	350781	12.0	12.7	
79 1,1'-Biphenyl	154	8.566	8.561	0.005	96	1242552	12.0	12.3	
80 2-Chloronaphthalene	162	8.599	8.594	0.005	98	1035655	12.0	12.2	
81 2-Nitroaniline	65	8.661	8.656	0.005	96	293967	12.0	13.0	
82 Dimethyl phthalate	163	8.799	8.789	0.010	99	1047666	12.0	12.2	
83 1,3-Dinitrobenzene	168	8.837	8.822	0.015	82	155935	12.0	12.9	
84 2,6-Dinitrotoluene	165	8.856	8.846	0.010	92	241608	12.0	12.8	
86 Acenaphthylene	152	8.955	8.946	0.009	98	1600207	12.0	12.2	
88 3-Nitroaniline	138	9.013	9.003	0.010	91	212859	12.0	11.8	
91 2,4-Dinitrophenol	184	9.093	9.084	0.009	89	276718	24.0	27.4	
90 Acenaphthene	154	9.098	9.093	0.005	93	1031284	12.0	12.6	
92 4-Nitrophenol	109	9.127	9.112	0.015	86	329613	24.0	26.5	
95 2,4-Dinitrotoluene	165	9.203	9.193	0.010	88	308707	12.0	12.1	
97 Dibenzofuran	168	9.241	9.236	0.005	96	1373443	12.0	12.0	
99 2,3,4,6-Tetrachlorophenol	232	9.336	9.331	0.005	97	261759	12.0	12.5	
101 Hexadecane	57	9.379	9.374	0.005	95	651153	12.0	14.0	
100 Diethyl phthalate	149	9.383	9.374	0.009	98	972875	12.0	11.9	
103 4-Chlorophenyl phenyl ethe	204	9.507	9.502	0.005	87	491514	12.0	11.7	
106 4-Nitroaniline	138	9.531	9.517	0.014	87	174046	12.0	10.7	
104 Fluorene	166	9.536	9.526	0.010	96	1046287	12.0	12.1	
109 4,6-Dinitro-2-methylphenol	198	9.559	9.545	0.014	94	351503	24.0	27.8	
111 N-Nitrosodiphenylamine	169	9.602	9.598	0.004	67	736922	12.0	12.4	
98 Diphenylamine	169	9.602	9.598	0.004	95	736922	10.2	10.4	
113 1,2-Diphenylhydrazine	77	9.645	9.636	0.009	97	1112650	12.0	12.4	
119 4-Bromophenyl phenyl ether	248	9.921	9.921	0.000	84	272229	12.0	12.1	
122 Hexachlorobenzene	284	10.016	10.011	0.005	98	268553	12.0	11.7	
123 Atrazine	200	10.025	10.021	0.004	86	216055	12.0	11.7	
124 n-Octadecane	43	10.154	10.149	0.005	93	815045	12.0	11.3	
125 Pentachlorophenol	266	10.168	10.159	0.009	96	340801	24.0	25.9	
127 Phenanthrene	178	10.358	10.354	0.004	98	1487445	12.0	12.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.406	10.396	0.010	98	1523204	12.0	12.3	
129 Carbazole	167	10.525	10.520	0.005	96	1262131	12.0	12.0	
133 Di-n-butyl phthalate	149	10.791	10.786	0.005	99	1614900	12.0	12.5	
136 Fluoranthene	202	11.581	11.571	0.010	98	1517575	12.0	12.5	
138 Benzidine	184	11.695	11.685	0.010	99	618176	12.0	14.0	
141 Pyrene	202	11.875	11.866	0.009	97	1514981	12.0	12.3	
147 Butyl benzyl phthalate	149	12.708	12.703	0.005	97	738307	12.0	12.8	
149 3,3'-Dichlorobenzidine	252	13.735	13.721	0.014	100	475662	12.0	12.6	
150 Bis(2-ethylhexyl) phthalat	149	13.801	13.792	0.009	86	1024487	12.0	13.1	
151 Benzo[a]anthracene	228	13.825	13.806	0.019	98	1347076	12.0	12.0	
152 Chrysene	228	13.906	13.887	0.019	99	1262287	12.0	12.4	
155 Di-n-octyl phthalate	149	15.395	15.380	0.014	95	1749327	12.0	12.7	
157 Benzo[b]fluoranthene	252	16.569	16.541	0.028	98	1282214	12.0	12.5	
158 Benzo[k]fluoranthene	252	16.659	16.626	0.033	99	1274239	12.0	12.3	
160 Benzo[a]pyrene	252	17.677	17.634	0.043	97	1275029	12.0	12.4	
163 Indeno[1,2,3-cd]pyrene	276	20.702	20.664	0.038	99	1435753	12.0	12.9	
164 Dibenz(a,h)anthracene	278	20.764	20.726	0.038	97	1152918	12.0	12.4	
165 Benzo[g,h,i]perylene	276	21.425	21.382	0.043	97	1201062	12.0	12.3	
S 170 Total Cresols, TCEQ Defini	1				0			25.1	
S 171 Methyl Phenols,Total	1				0			25.1	

Reagents:

SMlst1_5uLL10_00033 Amount Added: 1.00 Units: mL

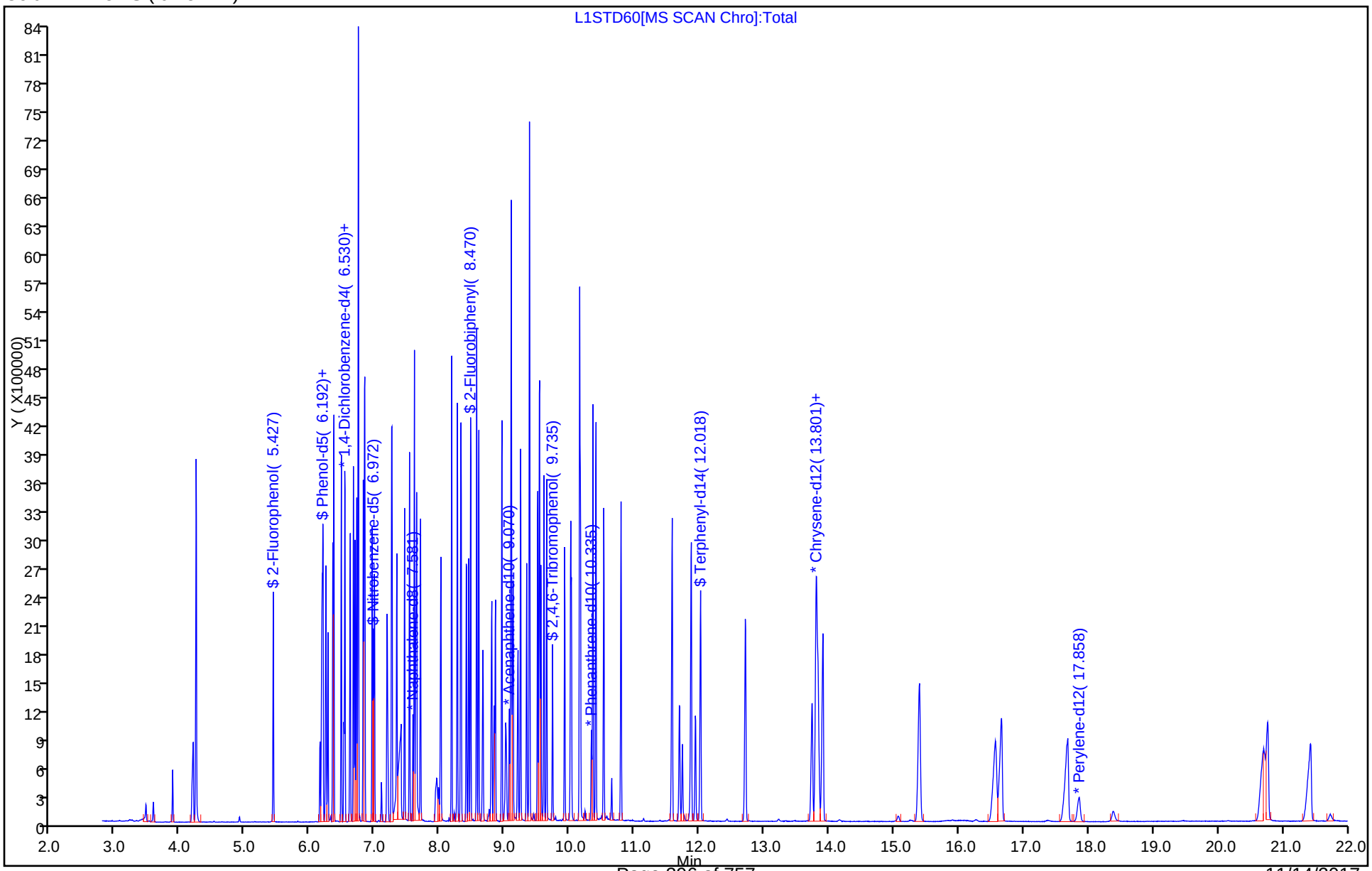
Report Date: 09-Nov-2017 15:47:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD60.D

Injection Date:	26-Oct-2017 21:25:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 11
Inject. Date: 26-Oct-2017 21:55:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ic
Misc. Info.: 500-0048643-012
Operator ID: DA Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:47:15 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:23:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.520	6.516	0.004	95	116885	3.20	3.20	
* 2 Naphthalene-d8	136	7.586	7.581	0.005	99	416918	3.20	3.20	
* 3 Acenaphthene-d10	164	9.069	9.065	0.004	94	210368	3.20	3.20	
* 4 Phenanthrene-d10	188	10.334	10.330	0.004	98	349235	3.20	3.20	
* 5 Chrysene-d12	240	13.849	13.830	0.019	100	286759	3.20	3.20	
* 6 Perylene-d12	264	17.862	17.839	0.023	98	284085	3.20	3.20	
$ 7 2-Fluorophenol	112	5.431	5.422	0.009	95	628108	14.0	14.1	
$ 8 Phenol-d5	99	6.188	6.173	0.015	94	819894	14.0	16.1	
$ 9 Nitrobenzene-d5	82	6.972	6.963	0.009	91	821063	14.0	16.8	
$ 10 2-Fluorobiphenyl	172	8.475	8.470	0.005	97	1322430	14.0	14.9	
$ 11 2,4,6-Tribromophenol	330	9.740	9.731	0.009	90	171585	14.0	15.5	
$ 12 Terphenyl-d14	244	12.023	12.009	0.014	99	1105949	14.0	15.2	
13 1,4-Dioxane	88	3.881	3.872	0.009	85	199510	14.0	19.4	
14 N-Nitrosodimethylamine	42	4.200	4.176	0.024	55	631806	14.0	14.6	
15 Pyridine	79	4.247	4.228	0.019	94	1471814	28.0	27.9	
25 Benzaldehyde	77	6.149	6.145	0.004	96	148071	14.0	9.28	
26 Phenol	94	6.197	6.183	0.014	97	856420	14.0	16.2	
27 Aniline	93	6.245	6.231	0.014	98	1013590	14.0	14.6	
28 Bis(2-chloroethyl)ether	93	6.273	6.264	0.009	96	615308	14.0	15.2	
29 2-Chlorophenol	128	6.349	6.345	0.004	97	706390	14.0	15.7	
30 n-Decane	43	6.363	6.359	0.004	75	1176326	14.0	13.9	
31 1,3-Dichlorobenzene	146	6.478	6.473	0.005	99	815021	14.0	14.9	
33 1,4-Dichlorobenzene	146	6.535	6.530	0.005	93	813984	14.0	14.4	
36 Benzyl alcohol	108	6.620	6.606	0.014	90	449195	14.0	14.2	
37 1,2-Dichlorobenzene	146	6.668	6.663	0.005	96	790116	14.0	14.7	
38 2-Methylphenol	107	6.692	6.682	0.010	88	565216	14.0	15.2	
39 2,2'-oxybis[1-chloropropan	45	6.715	6.711	0.004	89	1578370	14.0	13.5	
40 Indene	116	6.744	6.735	0.009	91	2482495	28.0	28.2	
42 3 & 4 Methylphenol	108	6.820	6.806	0.014	97	675968	14.0	14.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.834	6.820	0.014	94	504176	14.0	13.6	
44 Acetophenone	105	6.844	6.835	0.009	97	959232	14.0	13.7	
45 Hexachloroethane	117	6.953	6.949	0.004	92	324142	14.0	14.7	
46 Nitrobenzene	77	6.991	6.982	0.009	93	739466	14.0	16.4	
48 Isophorone	82	7.186	7.172	0.014	96	1204621	14.0	15.4	
50 2-Nitrophenol	139	7.253	7.248	0.005	91	363526	14.0	16.1	
51 2,4-Dimethylphenol	122	7.262	7.253	0.009	90	607698	14.0	15.6	
52 Bis(2-chloroethoxy)methane	93	7.334	7.329	0.005	98	721988	14.0	16.0	
54 Benzoic acid	122	7.414	7.353	0.061	97	782972	28.0	28.5	
55 2,4-Dichlorophenol	162	7.457	7.448	0.009	97	586790	14.0	15.6	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	94	634087	14.0	15.1	
58 Naphthalene	128	7.605	7.600	0.005	99	1915609	14.0	15.4	
60 4-Chloroaniline	127	7.628	7.619	0.009	95	753110	14.0	14.8	
62 2,6-Dichlorophenol	162	7.643	7.633	0.010	97	571773	14.0	15.1	
63 Hexachlorobutadiene	225	7.700	7.695	0.005	96	325959	14.0	14.7	
65 Caprolactam	113	7.961	7.914	0.047	72	181695	14.0	16.5	
66 4-Chloro-3-methylphenol	107	8.018	8.004	0.014	97	585439	14.0	16.1	
68 2-Methylnaphthalene	142	8.180	8.176	0.004	99	1277852	14.0	14.7	
70 1-Methylnaphthalene	142	8.270	8.261	0.009	99	1161998	14.0	14.8	
72 Hexachlorocyclopentadiene	237	8.318	8.314	0.004	95	375931	14.0	14.9	
73 1,2,4,5-Tetrachlorobenzene	216	8.328	8.323	0.005	96	577184	14.0	14.2	
74 2,4,6-Trichlorophenol	196	8.408	8.404	0.004	89	410382	14.0	15.2	
76 2,4,5-Trichlorophenol	196	8.446	8.437	0.009	97	409653	14.0	15.0	
79 1,1'-Biphenyl	154	8.565	8.561	0.004	96	1486981	14.0	14.9	
80 2-Chloronaphthalene	162	8.599	8.594	0.005	98	1242642	14.0	14.9	
81 2-Nitroaniline	65	8.665	8.656	0.009	96	354944	14.0	15.9	
82 Dimethyl phthalate	163	8.798	8.789	0.009	99	1277247	14.0	15.1	
83 1,3-Dinitrobenzene	168	8.841	8.822	0.019	81	196227	14.0	16.5	
84 2,6-Dinitrotoluene	165	8.855	8.846	0.009	92	295658	14.0	15.9	
86 Acenaphthylene	152	8.955	8.946	0.009	98	1949196	14.0	15.1	
88 3-Nitroaniline	138	9.017	9.003	0.014	94	266907	14.0	15.0	
91 2,4-Dinitrophenol	184	9.098	9.084	0.014	88	345740	28.0	34.6	
90 Acenaphthene	154	9.103	9.093	0.010	95	1221094	14.0	15.1	
92 4-Nitrophenol	109	9.136	9.112	0.024	86	406057	28.0	33.0	
95 2,4-Dinitrotoluene	165	9.207	9.193	0.014	91	385407	14.0	15.3	
97 Dibenzofuran	168	9.245	9.236	0.009	96	1665532	14.0	14.8	
99 2,3,4,6-Tetrachlorophenol	232	9.340	9.331	0.009	96	320414	14.0	15.5	
100 Diethyl phthalate	149	9.388	9.374	0.014	98	1188660	14.0	14.8	
101 Hexadecane	57	9.378	9.374	0.004	86	796651	14.0	17.4	
103 4-Chlorophenyl phenyl ethe	204	9.507	9.502	0.005	86	595386	14.0	14.4	
106 4-Nitroaniline	138	9.535	9.517	0.018	91	224505	14.0	13.9	
104 Fluorene	166	9.535	9.526	0.009	96	1251490	14.0	14.7	
109 4,6-Dinitro-2-methylphenol	198	9.564	9.545	0.019	96	438731	28.0	34.8	
98 Diphenylamine	169	9.607	9.598	0.009	95	895112	11.9	12.7	
111 N-Nitrosodiphenylamine	169	9.607	9.598	0.009	74	895112	14.0	15.1	
113 1,2-Diphenylhydrazine	77	9.645	9.636	0.009	97	1383596	14.0	15.6	
119 4-Bromophenyl phenyl ether	248	9.925	9.921	0.004	89	325576	14.0	14.5	
122 Hexachlorobenzene	284	10.016	10.011	0.005	98	329734	14.0	14.4	
123 Atrazine	200	10.030	10.021	0.009	87	260557	14.0	14.1	
124 n-Octadecane	43	10.154	10.149	0.005	93	966560	14.0	13.5	
125 Pentachlorophenol	266	10.168	10.159	0.009	97	415635	28.0	31.6	
127 Phenanthrene	178	10.358	10.354	0.004	98	1807097	14.0	14.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.406	10.396	0.010	98	1863730	14.0	15.1	
129 Carbazole	167	10.529	10.520	0.009	96	1582452	14.0	15.1	
133 Di-n-butyl phthalate	149	10.791	10.786	0.005	99	2022540	14.0	15.7	
136 Fluoranthene	202	11.580	11.571	0.009	98	1868607	14.0	15.4	
138 Benzidine	184	11.694	11.685	0.009	99	759867	14.0	16.7	
141 Pyrene	202	11.875	11.866	0.009	97	1888665	14.0	14.9	
147 Butyl benzyl phthalate	149	12.712	12.703	0.009	97	926760	14.0	15.5	
149 3,3'-Dichlorobenzidine	252	13.744	13.721	0.023	100	595918	14.0	15.3	
150 Bis(2-ethylhexyl) phthalat	149	13.801	13.792	0.009	86	1237371	14.0	15.3	
151 Benzo[a]anthracene	228	13.830	13.806	0.024	99	1659666	14.0	14.4	
152 Chrysene	228	13.911	13.887	0.024	99	1581603	14.0	15.1	
155 Di-n-octyl phthalate	149	15.394	15.380	0.014	95	2165493	14.0	15.8	
157 Benzo[b]fluoranthene	252	16.578	16.541	0.037	99	1648719	14.0	16.0	
158 Benzo[k]fluoranthene	252	16.669	16.626	0.043	99	1490897	14.0	14.3	
160 Benzo[a]pyrene	252	17.691	17.634	0.057	96	1588833	14.0	15.4	
163 Indeno[1,2,3-cd]pyrene	276	20.702	20.664	0.038	98	1749965	14.0	15.6	
164 Dibenz(a,h)anthracene	278	20.778	20.726	0.052	97	1407629	14.0	15.1	
165 Benzo[g,h,i]perylene	276	21.439	21.382	0.057	97	1433023	14.0	14.6	
S 171 Methyl Phenols,Total	1				0			30.0	
S 170 Total Cresols, TCEQ Defini	1				0			30.0	

Reagents:

SMlst1_5uLL11_00033 Amount Added: 1.00 Units: mL

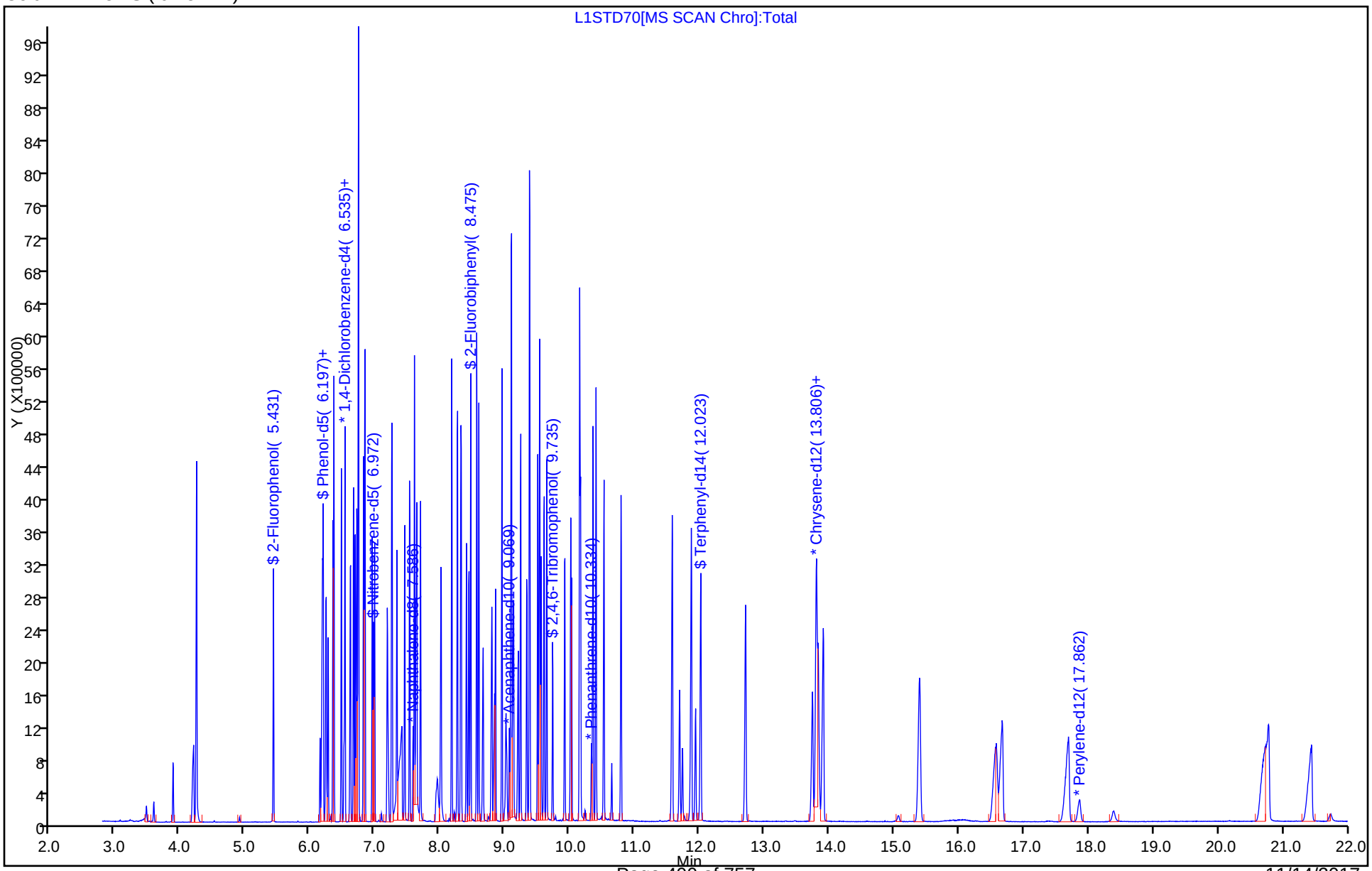
Report Date: 09-Nov-2017 15:47:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Injection Date:	26-Oct-2017 21:55:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	ic			Worklist Smp#:	12
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID (1): CCVIS 500-408793/2 Instrument ID (1): CMS01

GC Column (1): ZB5MS ID: 0.25(mm) Date Analyzed (1): 11/07/2017 12:22

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol (Surr)	5.21	100.0
Benzaldehyde	5.92	100.0
Phenol-d5 (Surr)	5.97	100.0
Phenol	5.98	100.0
Bis(2-chloroethyl)ether	6.04	100.0
2-Chlorophenol	6.12	100.0
2-Methylphenol	6.47	100.0
2,2'-oxybis[1-chloropropane]	6.49	100.0
3 & 4 Methylphenol	6.59	100.0
N-Nitrosodi-n-propylamine	6.60	100.0
Acetophenone	6.61	100.0
Hexachloroethane	6.71	100.0
Nitrobenzene-d5 (Surr)	6.73	100.0
Nitrobenzene	6.75	100.0
Isophorone	6.95	100.0
2-Nitrophenol	7.02	100.0
2,4-Dimethylphenol	7.03	100.0
Bis(2-chloroethoxy)methane	7.10	100.0
2,4-Dichlorophenol	7.22	100.0
Naphthalene	7.36	100.0
4-Chloroaniline	7.39	100.0
Hexachlorobutadiene	7.46	100.0
Caprolactam	7.72	100.0
4-Chloro-3-methylphenol	7.79	100.0
2-Methylnaphthalene	7.93	100.0
Hexachlorocyclopentadiene	8.07	100.0
2,4,6-Trichlorophenol	8.17	100.0
2,4,5-Trichlorophenol	8.20	100.0
2-Fluorobiphenyl (Surr)	8.23	100.0
1,1'-Biphenyl	8.32	100.0
2-Chloronaphthalene	8.35	100.0
2-Nitroaniline	8.42	100.0
Dimethyl phthalate	8.56	100.0
2,6-Dinitrotoluene	8.61	100.0
Acenaphthylene	8.70	100.0
3-Nitroaniline	8.77	100.0
Acenaphthene	8.85	100.0
2,4-Dinitrophenol	8.86	100.0
4-Nitrophenol	8.90	100.0
2,4-Dinitrotoluene	8.96	100.0
Dibenzofuran	8.99	100.0
Diethyl phthalate	9.14	100.0
4-Chlorophenyl phenyl ether	9.25	100.0
Fluorene	9.28	100.0
4-Nitroaniline	9.29	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID (1): CCVIS 500-408793/2 Instrument ID (1): CMS01

GC Column (1): ZB5MS ID: 0.25(mm) Date Analyzed (1): 11/07/2017 12:22

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	9.31	100.0
N-Nitrosodiphenylamine	9.35	100.0
2,4,6-Tribromophenol (Surr)	9.48	100.0
4-Bromophenyl phenyl ether	9.67	100.0
Hexachlorobenzene	9.76	100.0
Atrazine	9.79	100.0
Pentachlorophenol	9.92	100.0
Phenanthrene	10.10	100.0
Anthracene	10.14	100.0
Carbazole	10.26	100.0
Di-n-butyl phthalate	10.52	100.0
Fluoranthene	11.24	100.0
Pyrene	11.51	100.0
Terphenyl-d14 (Surr)	11.65	100.0
Butyl benzyl phthalate	12.30	100.0
3,3'-Dichlorobenzidine	13.24	100.0
Bis(2-ethylhexyl) phthalate	13.30	100.0
Benzo[a]anthracene	13.30	100.0
Chrysene	13.38	100.0
Di-n-octyl phthalate	14.75	100.0
Benzo[b]fluoranthene	15.76	30.70
Benzo[k]fluoranthene	15.84	100.0
Benzo[a]pyrene	16.73	100.0
Indeno[1,2,3-cd]pyrene	19.92	100.0
Dibenz(a,h)anthracene	19.98	100.0

Resolution Report

TestAmerica Chicago

Data File:	\\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1C1107.D				
Injection Date:	07-Nov-2017 12:22:30	Instrument ID:	CMS01		
Lims ID:	ccvis				
Client ID:					
Operator ID:	AD	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

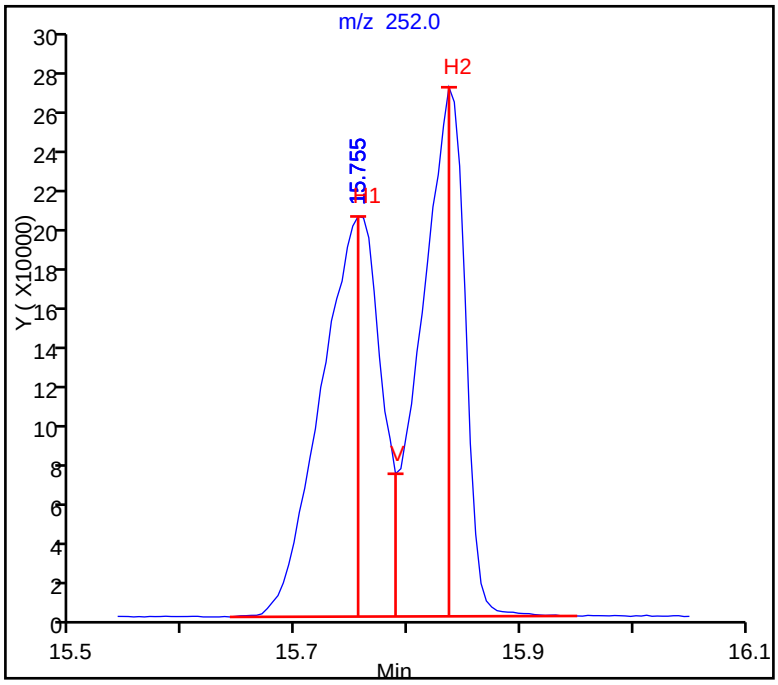
157 Benzo[b]fluoranthene - 158 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 72308
H1(157 Benzo[b]fluoranthen) = 202762
H2(158 Benzo[k]fluoranthen) = 268104

Version D: %R = 30.7 <= 50.0
Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: ICV 500-407173/13 Calibration Date: 10/26/2017 22:25

Instrument ID: CMS01 Calib Start Date: 10/26/2017 16:56

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 10/26/2017 21:55

Lab File ID: L1ICV.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	0.4367	0.1644	0.0100	<32.0	10.0	-62.4*	30.0
Phenol	Ave	1.450	1.468	0.8000	10.1	10.0	1.2	30.0
Bis(2-chloroethyl)ether	Ave	1.106	1.054	0.7000	9.53	10.0	-4.7	30.0
2-Chlorophenol	Ave	1.229	1.243	0.8000	10.1	10.0	1.2	30.0
2-Methylphenol	Ave	1.016	0.9878	0.7000	9.72	10.0	-2.8	30.0
2,2'-oxybis[1-chloropropane]	Ave	3.199	2.688	0.0100	8.40	10.0	-16.0	30.0
3 & 4 Methylphenol	Ave	1.252	1.194	0.6000	9.53	10.0	-4.7	30.0
N-Nitrosodi-n-propylamine	Ave	1.014	0.8600	0.5000	8.48	10.0	-15.2	30.0
Acetophenone	Ave	1.913	1.669	0.0100	8.72	10.0	-12.8	30.0
Hexachloroethane	Ave	0.6018	0.5624	0.3000	9.34	10.0	-6.6	30.0
Nitrobenzene	Ave	0.3468	0.3517	0.2000	10.1	10.0	1.4	30.0
Isophorone	Ave	0.6001	0.5765	0.4000	9.61	10.0	-3.9	30.0
2-Nitrophenol	Ave	0.1735	0.1779	0.1000	10.3	10.0	2.6	30.0
2,4-Dimethylphenol	Ave	0.2983	0.2352	0.2000	7.88	10.0	-21.2	30.0
Bis(2-chloroethoxy)methane	Ave	0.3459	0.3513	0.3000	10.2	10.0	1.6	30.0
2,4-Dichlorophenol	Ave	0.2881	0.2821	0.2000	9.79	10.0	-2.1	30.0
Naphthalene	Ave	0.9538	0.9339	0.7000	9.79	10.0	-2.1	30.0
4-Chloroaniline	Ave	0.3918	0.3244	0.0100	8.28	10.0	-17.2	30.0
Hexachlorobutadiene	Ave	0.1704	0.1621	0.0100	9.51	10.0	-4.9	30.0
Caprolactam	Ave	0.0847	0.0868	0.0100	10.2	10.0	2.4	30.0
4-Chloro-3-methylphenol	Ave	0.2791	0.2783	0.2000	9.97	10.0	-0.3	30.0
2-Methylnaphthalene	Ave	0.6660	0.6088	0.4000	9.14	10.0	-8.6	30.0
Hexachlorocyclopentadiene	Ave	0.3841	0.3071	0.0500	8.00	10.0	-20.0	30.0
2,4,6-Trichlorophenol	Ave	0.4117	0.4146	0.2000	10.1	10.0	0.7	30.0
2,4,5-Trichlorophenol	Ave	0.4153	0.4432	0.2000	10.7	10.0	6.7	30.0
1,1'-Biphenyl	Ave	1.516	1.501	0.0100	9.90	10.0	-1.0	30.0
2-Chloronaphthalene	Ave	1.272	1.262	0.8000	9.92	10.0	-0.8	30.0
2-Nitroaniline	Ave	0.3392	0.3506	0.0100	10.3	10.0	3.4	30.0
Dimethyl phthalate	Ave	1.287	1.264	0.0100	9.83	10.0	-1.7	30.0
2,6-Dinitrotoluene	Ave	0.2835	0.2985	0.2000	10.5	10.0	5.3	30.0
Acenaphthylene	Ave	1.963	1.954	0.9000	9.95	10.0	-0.5	30.0
3-Nitroaniline	Ave	0.2699	0.2357	0.0100	8.73	10.0	-12.7	30.0
2,4-Dinitrophenol	Ave	0.1519	0.1661	0.0100	21.9	20.0	9.4	30.0
Acenaphthene	Ave	1.226	1.231	0.9000	10.0	10.0	0.4	30.0
4-Nitrophenol	Ave	0.1869	0.1894	0.0100	20.3	20.0	1.3	30.0
2,4-Dinitrotoluene	Lin1		0.3771	0.2000	9.87	10.0	-1.3	30.0
Dibenzofuran	Ave	1.713	1.667	0.8000	9.74	10.0	-2.6	30.0
Diethyl phthalate	Ave	1.226	1.180	0.0100	9.63	10.0	-3.7	30.0
4-Chlorophenyl phenyl ether	Ave	0.6302	0.6009	0.4000	9.54	10.0	-4.6	30.0
4-Nitroaniline	Ave	0.2450	0.2038	0.0100	8.32	10.0	-16.8	30.0
Fluorene	Ave	1.298	1.269	0.9000	9.77	10.0	-2.3	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: ICV 500-407173/13 Calibration Date: 10/26/2017 22:25

Instrument ID: CMS01 Calib Start Date: 10/26/2017 16:56

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 10/26/2017 21:55

Lab File ID: L1ICV.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4,6-Dinitro-2-methylphenol	Ave	0.1156	0.1261	0.0100	21.8	20.0	9.0	30.0
N-Nitrosodiphenylamine	Ave	0.5442	0.5119	0.0100	9.41	10.0	-5.9	30.0
4-Bromophenyl phenyl ether	Ave	0.2061	0.1881	0.1000	9.13	10.0	-8.7	30.0
Hexachlorobenzene	Ave	0.2101	0.1954	0.1000	9.30	10.0	-7.0	30.0
Atrazine	Ave	0.1692	0.1496	0.0100	8.84	10.0	-11.6	30.0
Pentachlorophenol	Ave	0.1204	0.1283	0.0500	21.3	20.0	6.5	30.0
Phenanthrene	Ave	1.115	1.051	0.7000	9.42	10.0	-5.8	30.0
Anthracene	Ave	1.131	1.074	0.7000	9.50	10.0	-5.0	30.0
Carbazole	Ave	0.9589	0.8922	0.0100	9.30	10.0	-7.0	30.0
Di-n-butyl phthalate	Ave	1.184	1.174	0.0100	9.92	10.0	-0.8	30.0
Fluoranthene	Ave	1.113	1.073	0.6000	9.65	10.0	-3.5	30.0
Pyrene	Ave	1.416	1.391	0.6000	9.82	10.0	-1.8	30.0
Butyl benzyl phthalate	Ave	0.6654	0.6759	0.0100	10.2	10.0	1.6	30.0
3,3'-Dichlorobenzidine	Ave	0.4338	0.3937	0.0100	9.08	10.0	-9.2	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.9029	0.9058	0.0100	10.0	10.0	0.3	30.0
Benzo[a]anthracene	Ave	1.287	1.198	0.8000	9.31	10.0	-6.9	30.0
Chrysene	Ave	1.167	1.156	0.7000	9.91	10.0	-0.9	30.0
Di-n-octyl phthalate	Ave	1.259	1.225	0.0100	9.73	10.0	-2.7	30.0
Benzo[b]fluoranthene	Ave	1.160	1.147	0.7000	9.89	10.0	-1.1	30.0
Benzo[k]fluoranthene	Ave	1.174	1.111	0.7000	9.46	10.0	-5.4	30.0
Benzo[a]pyrene	Ave	1.164	1.074	0.7000	9.23	10.0	-7.7	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.261	1.212	0.5000	9.61	10.0	-3.9	30.0
Dibenz(a,h)anthracene	Ave	1.048	1.028	0.4000	9.81	10.0	-1.9	30.0
Benzo[g,h,i]perylene	Ave	1.104	1.009	0.5000	9.14	10.0	-8.6	30.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1ICV.D
Lims ID: icv
Client ID:
Sample Type: ICV
Inject. Date: 26-Oct-2017 22:25:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 500-0048643-013
Operator ID: DA Instrument ID: CMS01
Sublist:

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 09-Nov-2017 15:47:15 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: rynkarg Date: 27-Oct-2017 08:24:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.516	6.516	0.000	96	139103	3.20	3.20	
* 2 Naphthalene-d8	136	7.581	7.581	0.000	99	508449	3.20	3.20	
* 3 Acenaphthene-d10	164	9.065	9.065	0.000	94	247723	3.20	3.20	
* 4 Phenanthrene-d10	188	10.334	10.330	0.004	98	417144	3.20	3.20	
* 5 Chrysene-d12	240	13.839	13.830	0.009	99	328729	3.20	3.20	
* 6 Perylene-d12	264	17.858	17.839	0.019	98	333235	3.20	3.20	
13 1,4-Dioxane	88	3.876	3.872	0.004	84	128216	10.0	10.5	
14 N-Nitrosodimethylamine	42	4.190	4.176	0.014	56	485060	10.0	9.45	
15 Pyridine	79	4.238	4.228	0.010	94	1086493	20.0	20.2	
25 Benzaldehyde	77	6.145	6.145	0.000	97	71465	10.0	3.76	
26 Phenol	94	6.188	6.183	0.005	96	637996	10.0	10.1	
27 Aniline	93	6.235	6.231	0.004	98	699567	10.0	8.44	
28 Bis(2-chloroethyl)ether	93	6.268	6.264	0.004	96	458221	10.0	9.53	
29 2-Chlorophenol	128	6.345	6.345	0.000	97	540542	10.0	10.1	
30 n-Decane	43	6.364	6.359	0.005	74	909862	10.0	9.05	
31 1,3-Dichlorobenzene	146	6.478	6.473	0.005	99	619511	10.0	9.49	
33 1,4-Dichlorobenzene	146	6.530	6.530	0.000	94	643542	10.0	9.60	
36 Benzyl alcohol	108	6.611	6.606	0.005	91	355134	10.0	9.46	
37 1,2-Dichlorobenzene	146	6.663	6.663	0.000	95	621666	10.0	9.70	
38 2-Methylphenol	107	6.687	6.682	0.005	88	429399	10.0	9.72	
39 2,2'-oxybis[1-chloropropan	45	6.715	6.711	0.004	89	1168432	10.0	8.40	
40 Indene	116	6.739	6.735	0.004	91	1795411	20.0	17.1	
42 3 & 4 Methylphenol	108	6.815	6.806	0.009	96	518994	10.0	9.53	
43 N-Nitrosodi-n-propylamine	70	6.830	6.820	0.010	95	373829	10.0	8.48	
44 Acetophenone	105	6.839	6.835	0.004	94	725368	10.0	8.72	
45 Hexachloroethane	117	6.953	6.949	0.004	93	244476	10.0	9.34	
46 Nitrobenzene	77	6.987	6.982	0.005	95	558770	10.0	10.1	
48 Isophorone	82	7.182	7.172	0.010	96	916014	10.0	9.61	
50 2-Nitrophenol	139	7.253	7.248	0.005	88	282722	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
51 2,4-Dimethylphenol	122	7.258	7.253	0.005	89	373678	10.0	7.88	
52 Bis(2-chloroethoxy)methane	93	7.329	7.329	0.000	99	558182	10.0	10.2	
54 Benzoic acid	122	7.396	7.353	0.043	96	566165	20.0	20.1	
55 2,4-Dichlorophenol	162	7.453	7.448	0.005	94	448206	10.0	9.79	
56 1,2,4-Trichlorobenzene	180	7.529	7.529	0.000	94	501508	10.0	9.82	
58 Naphthalene	128	7.605	7.600	0.005	99	1483931	10.0	9.79	
60 4-Chloroaniline	127	7.624	7.619	0.005	96	515473	10.0	8.28	
62 2,6-Dichlorophenol	162	7.638	7.633	0.005	96	442184	10.0	9.61	
63 Hexachlorobutadiene	225	7.700	7.695	0.005	96	257615	10.0	9.51	
65 Caprolactam	113	7.938	7.914	0.024	73	137878	10.0	10.2	
66 4-Chloro-3-methylphenol	107	8.014	8.004	0.010	97	442159	10.0	9.97	
68 2-Methylnaphthalene	142	8.180	8.176	0.004	99	967368	10.0	9.14	
70 1-Methylnaphthalene	142	8.266	8.261	0.005	99	921852	10.0	9.65	
72 Hexachlorocyclopentadiene	237	8.318	8.314	0.004	94	237756	10.0	8.00	
73 1,2,4,5-Tetrachlorobenzene	216	8.323	8.323	0.000	97	454758	10.0	9.53	
74 2,4,6-Trichlorophenol	196	8.404	8.404	0.000	90	320948	10.0	10.1	
76 2,4,5-Trichlorophenol	196	8.442	8.437	0.005	97	343083	10.0	10.7	
79 1,1'-Biphenyl	154	8.565	8.561	0.004	96	1162277	10.0	9.90	
80 2-Chloronaphthalene	162	8.594	8.594	0.000	98	976663	10.0	9.92	
81 2-Nitroaniline	65	8.661	8.656	0.005	97	271439	10.0	10.3	
82 Dimethyl phthalate	163	8.794	8.789	0.005	99	978646	10.0	9.83	
83 1,3-Dinitrobenzene	168	8.832	8.822	0.010	82	144781	10.0	10.3	
84 2,6-Dinitrotoluene	165	8.851	8.846	0.005	93	231048	10.0	10.5	
86 Acenaphthylene	152	8.951	8.946	0.005	98	1512871	10.0	9.95	
88 3-Nitroaniline	138	9.012	9.003	0.009	91	182445	10.0	8.73	
91 2,4-Dinitrophenol	184	9.093	9.084	0.009	92	257120	20.0	21.9	
90 Acenaphthene	154	9.098	9.093	0.005	95	953298	10.0	10.0	
92 4-Nitrophenol	109	9.127	9.112	0.015	87	293203	20.0	20.3	
95 2,4-Dinitrotoluene	165	9.203	9.193	0.010	93	291910	10.0	9.87	
97 Dibenzofuran	168	9.241	9.236	0.005	96	1290796	10.0	9.74	
99 2,3,4,6-Tetrachlorophenol	232	9.336	9.331	0.005	96	246396	10.0	10.1	
101 Hexadecane	57	9.379	9.374	0.005	89	603222	10.0	11.2	
100 Diethyl phthalate	149	9.379	9.374	0.005	98	913581	10.0	9.63	
103 4-Chlorophenyl phenyl ethe	204	9.507	9.502	0.005	90	465205	10.0	9.54	
106 4-Nitroaniline	138	9.526	9.517	0.009	84	157751	10.0	8.32	
104 Fluorene	166	9.531	9.526	0.005	96	982292	10.0	9.77	
109 4,6-Dinitro-2-methylphenol	198	9.555	9.545	0.010	96	328711	20.0	21.8	
111 N-Nitrosodiphenylamine	169	9.602	9.598	0.004	68	667293	10.0	9.41	
98 Diphenylamine	169	9.602	9.598	0.004	95	667293	8.50	7.93	
113 1,2-Diphenylhydrazine	77	9.640	9.636	0.004	97	1053781	10.0	10.1	
119 4-Bromophenyl phenyl ether	248	9.921	9.921	0.000	84	245212	10.0	9.13	
122 Hexachlorobenzene	284	10.011	10.011	0.000	98	254774	10.0	9.30	
123 Atrazine	200	10.025	10.021	0.004	86	195005	10.0	8.84	
124 n-Octadecane	43	10.149	10.149	0.000	92	758143	10.0	8.85	
125 Pentachlorophenol	266	10.163	10.159	0.004	97	334400	20.0	21.3	
127 Phenanthrene	178	10.358	10.354	0.004	98	1369969	10.0	9.42	
128 Anthracene	178	10.401	10.396	0.005	99	1400546	10.0	9.50	
129 Carbazole	167	10.525	10.520	0.005	96	1163001	10.0	9.30	
133 Di-n-butyl phthalate	149	10.791	10.786	0.005	99	1530611	10.0	9.92	
136 Fluoranthene	202	11.580	11.571	0.009	98	1399240	10.0	9.65	
138 Benzidine	184	11.690	11.685	0.005	99	337113	10.0	6.47	
141 Pyrene	202	11.871	11.866	0.005	97	1429049	10.0	9.82	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
147 Butyl benzyl phthalate	149	12.708	12.703	0.005	97	694321	10.0	10.2	
149 3,3'-Dichlorobenzidine	252	13.735	13.721	0.014	100	404472	10.0	9.08	
150 Bis(2-ethylhexyl) phthalat	149	13.797	13.792	0.005	86	930488	10.0	10.0	
151 Benzo[a]anthracene	228	13.820	13.806	0.014	98	1230452	10.0	9.31	
152 Chrysene	228	13.901	13.887	0.014	99	1187490	10.0	9.91	
155 Di-n-octyl phthalate	149	15.390	15.380	0.010	95	1596855	10.0	9.73	
157 Benzo[b]fluoranthene	252	16.564	16.541	0.023	98	1194582	10.0	9.89	
158 Benzo[k]fluoranthene	252	16.655	16.626	0.029	100	1156824	10.0	9.46	
160 Benzo[a]pyrene	252	17.668	17.634	0.034	98	1117987	10.0	9.23	
163 Indeno[1,2,3-cd]pyrene	276	20.687	20.664	0.023	99	1262586	10.0	9.61	
164 Dibenz(a,h)anthracene	278	20.763	20.726	0.037	97	1070989	10.0	9.81	
165 Benzo[g,h,i]perylene	276	21.410	21.382	0.028	97	1050281	10.0	9.14	

Reagents:

SMlst1_5uLICV_00037 Amount Added: 1.00 Units: mL

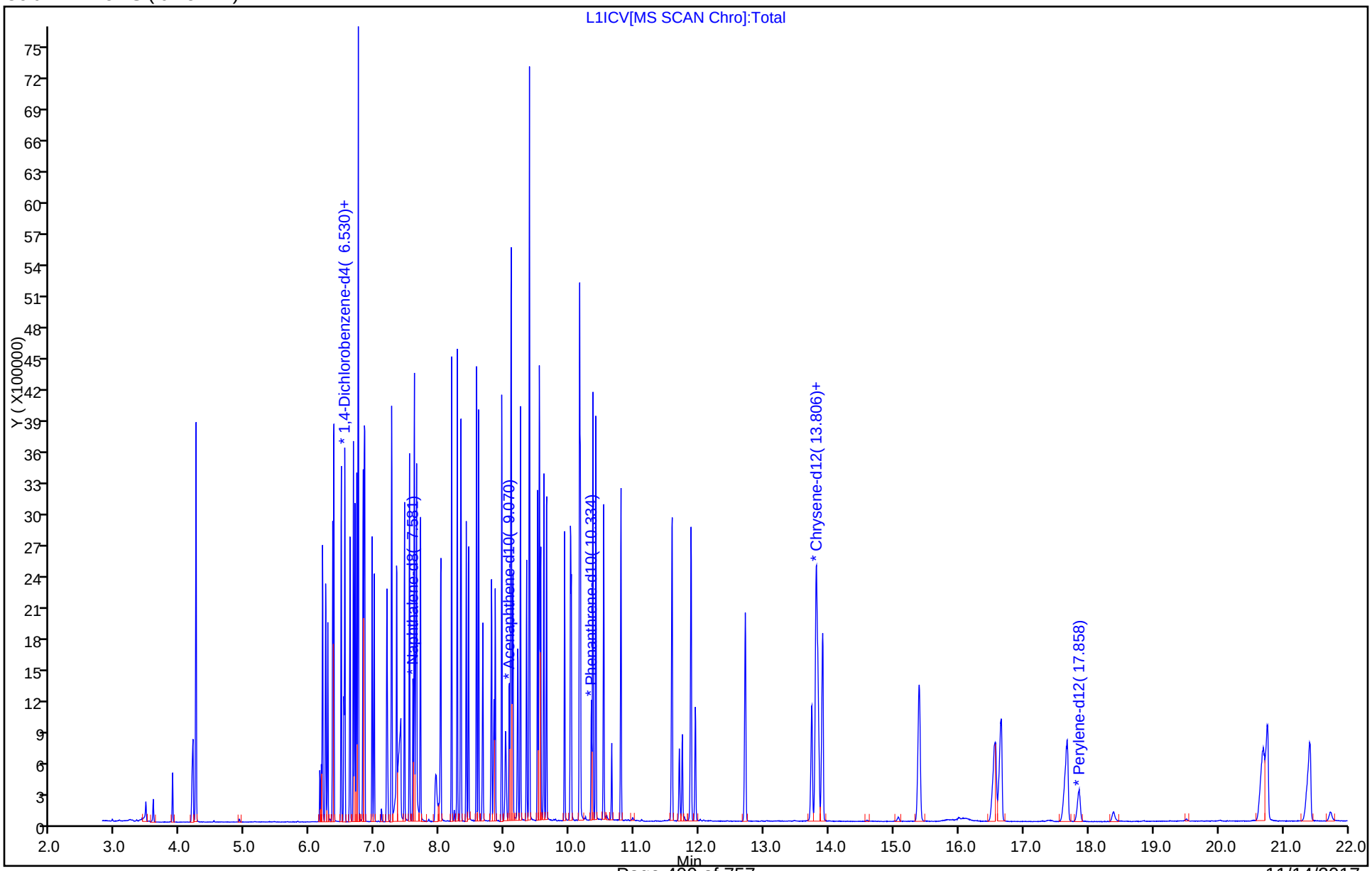
Report Date: 09-Nov-2017 15:47:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1ICV.D

Injection Date:	26-Oct-2017 22:25:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	icv			Worklist Smp#:	13
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Lab Sample ID: CCVIS 500-408793/2 | Calibration Date: 11/07/2017 12:22

Instrument ID: CMS01 | Calib Start Date: 10/26/2017 16:56

GC Column: ZB5MS ID: 0.25(mm) | Calib End Date: 10/26/2017 21:55

Lab File ID: 1C1107.D | Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	0.4367	0.3563	0.0100	<32.0	8.00	-18.4	20.0
Phenol	Ave	1.450	1.521	0.8000	8.39	8.00	4.9	20.0
Bis(2-chloroethyl)ether	Ave	1.106	1.092	0.7000	7.90	8.00	-1.2	20.0
2-Chlorophenol	Ave	1.229	1.238	0.8000	8.06	8.00	0.7	20.0
2-Methylphenol	Ave	1.016	1.013	0.7000	7.98	8.00	-0.3	20.0
2,2'-oxybis[1-chloropropane]	Ave	3.199	3.146	0.0100	7.87	8.00	-1.7	20.0
3 & 4 Methylphenol	Ave	1.252	1.246	0.6000	7.96	8.00	-0.5	20.0
N-Nitrosodi-n-propylamine	Ave	1.014	0.9576	0.5000	7.56	8.00	-5.5	20.0
Acetophenone	Ave	1.913	1.788	0.0100	7.48	8.00	-6.5	20.0
Hexachloroethane	Ave	0.6018	0.6096	0.3000	8.10	8.00	1.3	20.0
Nitrobenzene	Ave	0.3468	0.3919	0.2000	9.04	8.00	13.0	20.0
Isophorone	Ave	0.6001	0.6364	0.4000	8.48	8.00	6.1	20.0
2-Nitrophenol	Ave	0.1735	0.1764	0.1000	8.14	8.00	1.7	20.0
2,4-Dimethylphenol	Ave	0.2983	0.2943	0.2000	7.89	8.00	-1.3	20.0
Bis(2-chloroethoxy)methane	Ave	0.3459	0.3616	0.3000	8.36	8.00	4.5	20.0
2,4-Dichlorophenol	Ave	0.2881	0.2884	0.2000	8.01	8.00	0.1	20.0
Naphthalene	Ave	0.9538	0.9775	0.7000	8.20	8.00	2.5	20.0
4-Chloroaniline	Ave	0.3918	0.3861	0.0100	7.88	8.00	-1.4	20.0
Hexachlorobutadiene	Ave	0.1704	0.1555	0.0100	7.30	8.00	-8.7	20.0
Caprolactam	Ave	0.0847	0.0926	0.0100	8.74	8.00	9.3	20.0
4-Chloro-3-methylphenol	Ave	0.2791	0.2877	0.2000	8.25	8.00	3.1	20.0
2-Methylnaphthalene	Ave	0.6660	0.6401	0.4000	7.69	8.00	-3.9	20.0
Hexachlorocyclopentadiene	Ave	0.3841	0.3315	0.0500	6.90	8.00	-13.7	20.0
2,4,6-Trichlorophenol	Ave	0.4117	0.3889	0.2000	7.56	8.00	-5.5	20.0
2,4,5-Trichlorophenol	Ave	0.4153	0.3981	0.2000	7.67	8.00	-4.1	20.0
1,1'-Biphenyl	Ave	1.516	1.489	0.0100	7.86	8.00	-1.8	20.0
2-Chloronaphthalene	Ave	1.272	1.232	0.8000	7.75	8.00	-3.1	20.0
2-Nitroaniline	Ave	0.3392	0.3872	0.0100	9.13	8.00	14.1	20.0
Dimethyl phthalate	Ave	1.287	1.272	0.0100	7.91	8.00	-1.2	20.0
2,6-Dinitrotoluene	Ave	0.2835	0.2992	0.2000	8.44	8.00	5.5	20.0
Acenaphthylene	Ave	1.963	1.958	0.9000	7.98	8.00	-0.3	20.0
3-Nitroaniline	Ave	0.2699	0.2832	0.0100	8.40	8.00	4.9	20.0
Acenaphthene	Ave	1.226	1.284	0.9000	8.38	8.00	4.7	20.0
2,4-Dinitrophenol	Ave	0.1519	0.1878	0.0100	19.8	16.0	23.6*	20.0
4-Nitrophenol	Ave	0.1869	0.2111	0.0100	18.1	16.0	13.0	20.0
2,4-Dinitrotoluene	Lin1		0.3911	0.2000	8.20	8.00	2.5	20.0
Dibenzofuran	Ave	1.713	1.660	0.8000	7.75	8.00	-3.1	20.0
Diethyl phthalate	Ave	1.226	1.247	0.0100	8.14	8.00	1.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.6302	0.5871	0.4000	7.45	8.00	-6.8	20.0
Fluorene	Ave	1.298	1.300	0.9000	8.01	8.00	0.1	20.0
4-Nitroaniline	Ave	0.2450	0.2115	0.0100	6.91	8.00	-13.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: CCVIS 500-408793/2 Calibration Date: 11/07/2017 12:22

Instrument ID: CMS01 Calib Start Date: 10/26/2017 16:56

GC Column: ZB5MS ID: 0.25(mm) Calib End Date: 10/26/2017 21:55

Lab File ID: 1C1107.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4,6-Dinitro-2-methylphenol	Ave	0.1156	0.1385	0.0100	19.2	16.0	19.8	20.0
N-Nitrosodiphenylamine	Ave	0.5442	0.5243	0.0100	7.71	8.00	-3.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2061	0.1816	0.1000	7.05	8.00	-11.9	20.0
Hexachlorobenzene	Ave	0.2101	0.1872	0.1000	7.13	8.00	-10.9	20.0
Atrazine	Ave	0.1692	0.1568	0.0100	7.41	8.00	-7.3	20.0
Pentachlorophenol	Ave	0.1204	0.1120	0.0500	14.9	16.0	-7.0	20.0
Phenanthrene	Ave	1.115	1.095	0.7000	7.85	8.00	-1.8	20.0
Anthracene	Ave	1.131	1.141	0.7000	8.07	8.00	0.9	20.0
Carbazole	Ave	0.9589	0.9063	0.0100	7.56	8.00	-5.5	20.0
Di-n-butyl phthalate	Ave	1.184	1.241	0.0100	8.39	8.00	4.9	20.0
Fluoranthene	Ave	1.113	1.127	0.6000	8.11	8.00	1.3	20.0
Pyrene	Ave	1.416	1.434	0.6000	8.10	8.00	1.3	20.0
Butyl benzyl phthalate	Ave	0.6654	0.7310	0.0100	8.79	8.00	9.9	20.0
3,3'-Dichlorobenzidine	Ave	0.4338	0.3838	0.0100	7.08	8.00	-11.5	20.0
Benzo[a]anthracene	Ave	1.287	1.209	0.8000	7.51	8.00	-6.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.9029	1.002	0.0100	8.88	8.00	11.0	20.0
Chrysene	Ave	1.167	1.176	0.7000	8.06	8.00	0.8	20.0
Di-n-octyl phthalate	Ave	1.259	1.384	0.0100	8.79	8.00	9.9	20.0
Benzo[b]fluoranthene	Ave	1.160	1.109	0.7000	7.65	8.00	-4.4	20.0
Benzo[k]fluoranthene	Ave	1.174	1.102	0.7000	7.51	8.00	-6.1	20.0
Benzo[a]pyrene	Ave	1.164	1.108	0.7000	7.62	8.00	-4.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.261	1.251	0.5000	7.93	8.00	-0.8	20.0
Dibenz(a,h)anthracene	Ave	1.048	1.008	0.4000	7.69	8.00	-3.8	20.0
Benzo[g,h,i]perylene	Ave	1.104	1.059	0.5000	7.68	8.00	-4.1	20.0
2-Fluorophenol (Surr)	Qua2		1.111	0.0100	8.77	8.00	9.7	20.0
Phenol-d5 (Surr)	Ave	1.393	1.481	0.0100	8.51	8.00	6.3	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3749	0.3755	0.0100	8.01	8.00	0.2	20.0
2-Fluorobiphenyl (Surr)	Ave	1.348	1.282	0.0100	7.61	8.00	-4.9	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1679	0.1655	0.0100	7.89	8.00	-1.4	20.0
Terphenyl-d14 (Surr)	Ave	0.8119	0.7594	0.0100	7.48	8.00	-6.5	20.0

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1C1107.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Nov-2017 12:22:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: ccvis
Misc. Info.: 500-0048887-002
Operator ID: AD Instrument ID: CMS01
Sublist: chrom-1-LVI8270*sub91

Method: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 07-Nov-2017 15:05:19 Calib Date: 05-Nov-2017 14:37:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171105-48841.b\1C1105b.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: lesiakk Date: 07-Nov-2017 15:05:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.282	6.282	0.000	98	103210	3.20	3.20	
* 2 Naphthalene-d8	136	7.343	7.343	0.000	99	374173	3.20	3.20	
* 3 Acenaphthene-d10	164	8.817	8.817	0.000	95	187908	3.20	3.20	
* 4 Phenanthrene-d10	188	10.072	10.072	0.000	98	323555	3.20	3.20	
* 5 Chrysene-d12	240	13.325	13.325	0.000	99	257295	3.20	3.20	
* 6 Perylene-d12	264	16.892	16.892	0.000	97	268013	3.20	3.20	
$ 7 2-Fluorophenol	112	5.212	5.212	0.000	95	286735	8.00	8.77	
$ 8 Phenol-d5	99	5.968	5.968	0.000	93	382067	8.00	8.51	
$ 9 Nitrobenzene-d5	82	6.734	6.734	0.000	92	351262	8.00	8.01	
$ 10 2-Fluorobiphenyl	172	8.227	8.227	0.000	97	602308	8.00	7.61	
$ 11 2,4,6-Tribromophenol	330	9.483	9.483	0.000	88	77745	8.00	7.89	
$ 12 Terphenyl-d14	244	11.651	11.651	0.000	99	488497	8.00	7.48	
13 1,4-Dioxane	88	3.648	3.648	0.000	82	82262	8.00	9.04	
14 N-Nitrosodimethylamine	42	3.966	3.966	0.000	53	305153	8.00	8.01	
15 Pyridine	79	4.009	4.009	0.000	94	608142	16.0	16.6	
25 Benzaldehyde	77	5.916	5.916	0.000	97	91938	8.00	6.53	
26 Phenol	94	5.978	5.978	0.000	96	392366	8.00	8.39	
27 Aniline	93	6.011	6.011	0.000	98	470111	8.00	7.65	
28 Bis(2-chloroethyl)ether	93	6.044	6.044	0.000	95	281838	8.00	7.90	
29 2-Chlorophenol	128	6.116	6.116	0.000	97	319360	8.00	8.06	
30 n-Decane	43	6.135	6.135	0.000	72	650459	8.00	8.72	
31 1,3-Dichlorobenzene	146	6.239	6.239	0.000	98	383832	8.00	7.92	
33 1,4-Dichlorobenzene	146	6.296	6.296	0.000	93	388229	8.00	7.80	
36 Benzyl alcohol	108	6.387	6.387	0.000	90	212291	8.00	7.62	
37 1,2-Dichlorobenzene	146	6.430	6.430	0.000	95	366596	8.00	7.71	
38 2-Methylphenol	107	6.472	6.472	0.000	90	261465	8.00	7.98	
39 2,2'-oxybis[1-chloropropan	45	6.487	6.487	0.000	89	811662	8.00	7.87	
40 Indene	116	6.506	6.506	0.000	90	1200642	16.0	15.4	
42 3 & 4 Methylphenol	108	6.591	6.591	0.000	97	321571	8.00	7.96	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
43 N-Nitrosodi-n-propylamine	70	6.601	6.601	0.000	95	247095	8.00	7.56	
44 Acetophenone	105	6.606	6.606	0.000	92	461442	8.00	7.48	
45 Hexachloroethane	117	6.710	6.710	0.000	93	157288	8.00	8.10	
46 Nitrobenzene	77	6.753	6.753	0.000	93	366595	8.00	9.04	
48 Isophorone	82	6.948	6.948	0.000	96	595309	8.00	8.48	
50 2-Nitrophenol	139	7.015	7.015	0.000	83	165044	8.00	8.14	
51 2,4-Dimethylphenol	122	7.034	7.034	0.000	88	275261	8.00	7.89	
52 Bis(2-chloroethoxy)methane	93	7.100	7.100	0.000	98	338273	8.00	8.36	
54 Benzoic acid	122	7.172	7.172	0.000	93	301607	16.0	16.1	
55 2,4-Dichlorophenol	162	7.219	7.219	0.000	94	269820	8.00	8.01	
56 1,2,4-Trichlorobenzene	180	7.290	7.290	0.000	93	293120	8.00	7.80	
58 Naphthalene	128	7.362	7.362	0.000	99	914412	8.00	8.20	
60 4-Chloroaniline	127	7.390	7.390	0.000	96	361177	8.00	7.88	
62 2,6-Dichlorophenol	162	7.400	7.400	0.000	96	271524	8.00	8.02	
63 Hexachlorobutadiene	225	7.457	7.457	0.000	95	145489	8.00	7.30	
65 Caprolactam	113	7.718	7.718	0.000	71	86637	8.00	8.74	
66 4-Chloro-3-methylphenol	107	7.785	7.785	0.000	96	269163	8.00	8.25	
68 2-Methylnaphthalene	142	7.932	7.932	0.000	99	598769	8.00	7.69	
70 1-Methylnaphthalene	142	8.018	8.018	0.000	99	554681	8.00	7.89	
72 Hexachlorocyclopentadiene	237	8.070	8.070	0.000	95	155731	8.00	6.90	
73 1,2,4,5-Tetrachlorobenzene	216	8.080	8.080	0.000	96	264747	8.00	7.32	
74 2,4,6-Trichlorophenol	196	8.165	8.165	0.000	88	182685	8.00	7.56	
76 2,4,5-Trichlorophenol	196	8.203	8.203	0.000	95	187034	8.00	7.67	
79 1,1'-Biphenyl	154	8.318	8.318	0.000	96	699519	8.00	7.86	
80 2-Chloronaphthalene	162	8.346	8.346	0.000	98	578598	8.00	7.75	
81 2-Nitroaniline	65	8.422	8.422	0.000	96	181888	8.00	9.13	
82 Dimethyl phthalate	163	8.560	8.560	0.000	99	597400	8.00	7.91	
83 1,3-Dinitrobenzene	168	8.593	8.593	0.000	83	91592	8.00	8.62	
84 2,6-Dinitrotoluene	165	8.612	8.612	0.000	89	140534	8.00	8.44	
86 Acenaphthylene	152	8.703	8.703	0.000	98	919846	8.00	7.98	
88 3-Nitroaniline	138	8.769	8.769	0.000	91	133047	8.00	8.40	
90 Acenaphthene	154	8.845	8.845	0.000	95	603074	8.00	8.38	
91 2,4-Dinitrophenol	184	8.855	8.855	0.000	87	176402	16.0	19.8	
92 4-Nitrophenol	109	8.903	8.903	0.000	87	198337	16.0	18.1	
95 2,4-Dinitrotoluene	165	8.960	8.960	0.000	87	183724	8.00	8.20	
97 Dibenzofuran	168	8.988	8.988	0.000	96	779819	8.00	7.75	
99 2,3,4,6-Tetrachlorophenol	232	9.088	9.088	0.000	97	145109	8.00	7.84	
100 Diethyl phthalate	149	9.140	9.140	0.000	95	585978	8.00	8.14	
101 Hexadecane	57	9.140	9.140	0.000	83	379491	8.00	9.28	
103 4-Chlorophenyl phenyl ethe	204	9.254	9.254	0.000	84	275785	8.00	7.45	
104 Fluorene	166	9.278	9.278	0.000	96	610778	8.00	8.01	
106 4-Nitroaniline	138	9.288	9.288	0.000	85	99359	8.00	6.91	
109 4,6-Dinitro-2-methylphenol	198	9.312	9.312	0.000	96	224117	16.0	19.2	
98 Diphenylamine	169	9.354	9.354	0.000	95	424122	6.80	6.50	
111 N-Nitrosodiphenylamine	169	9.354	9.354	0.000	68	424122	8.00	7.71	
113 1,2-Diphenylhydrazine	77	9.392	9.392	0.000	97	707545	8.00	8.93	
119 4-Bromophenyl phenyl ether	248	9.673	9.673	0.000	85	146917	8.00	7.05	
122 Hexachlorobenzene	284	9.759	9.759	0.000	97	151387	8.00	7.13	
123 Atrazine	200	9.787	9.787	0.000	82	126844	8.00	7.41	
124 n-Octadecane	43	9.911	9.911	0.000	93	475339	8.00	7.16	
125 Pentachlorophenol	266	9.915	9.915	0.000	94	181122	16.0	14.9	
127 Phenanthrene	178	10.096	10.096	0.000	98	885678	8.00	7.85	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
128 Anthracene	178	10.139	10.139	0.000	98	923023	8.00	8.07	
129 Carbazole	167	10.258	10.258	0.000	96	733080	8.00	7.56	
133 Di-n-butyl phthalate	149	10.519	10.519	0.000	99	1003905	8.00	8.39	
136 Fluoranthene	202	11.238	11.238	0.000	97	911936	8.00	8.11	
138 Benzidine	184	11.352	11.352	0.000	99	289564	8.00	7.10	
141 Pyrene	202	11.509	11.509	0.000	97	922543	8.00	8.10	
147 Butyl benzyl phthalate	149	12.298	12.298	0.000	97	470188	8.00	8.79	
149 3,3'-Dichlorobenzidine	252	13.235	13.235	0.000	99	246851	8.00	7.08	
150 Bis(2-ethylhexyl) phthalat	149	13.301	13.301	0.000	89	644683	8.00	8.88	
151 Benzo[a]anthracene	228	13.301	13.301	0.000	98	777592	8.00	7.51	
152 Chrysene	228	13.378	13.378	0.000	99	756541	8.00	8.06	
155 Di-n-octyl phthalate	149	14.747	14.747	0.000	94	1119092	8.00	8.79	
157 Benzo[b]fluoranthene	252	15.755	15.755	0.000	98	742838	8.00	7.65	
158 Benzo[k]fluoranthene	252	15.836	15.836	0.000	99	738600	8.00	7.51	
160 Benzo[a]pyrene	252	16.725	16.725	0.000	96	742192	8.00	7.62	
163 Indeno[1,2,3-cd]pyrene	276	19.916	19.916	0.000	98	838158	8.00	7.93	
164 Dibenz(a,h)anthracene	278	19.978	19.978	0.000	96	675450	8.00	7.69	
165 Benzo[g,h,i]perylene	276	20.549	20.549	0.000	95	709781	8.00	7.68	

Reagents:

SMlst1_5uLL8X_00107 Amount Added: 1.00 Units: mL

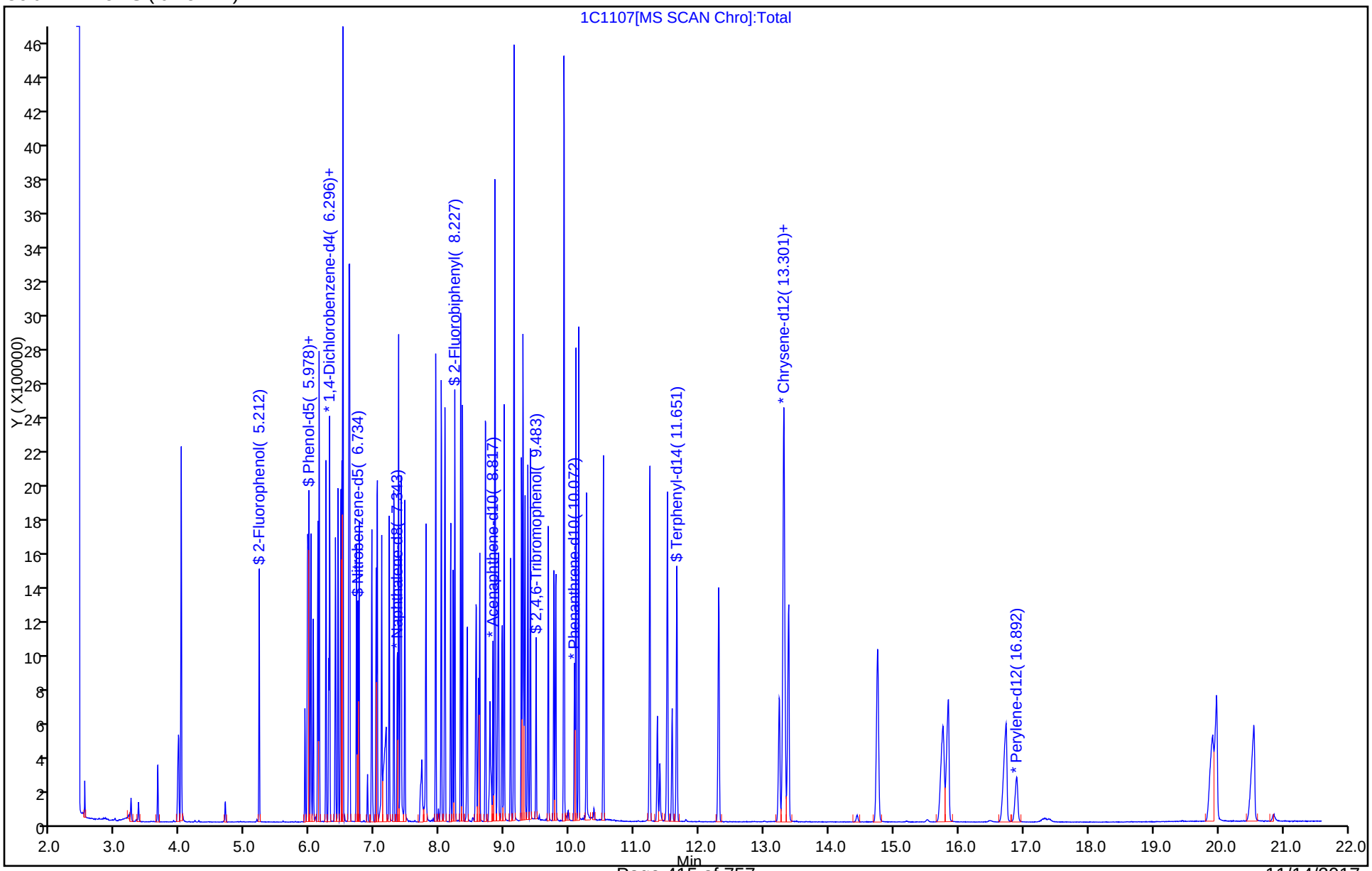
Report Date: 07-Nov-2017 15:05:21 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1C1107.D

Injection Date:	07-Nov-2017 12:22:30	Instrument ID:	CMS01	Operator ID:	AD
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 26-Oct-2017 16:17:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 500-0048606-011
Operator ID: DA Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 27-Oct-2017 08:33:03 Calib Date: 26-Oct-2017 21:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\L1STD70.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: akcakald Date: 26-Oct-2017 16:43:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
125 Pentachlorophenol	266	10.159	10.159	0.000	98	102432	NR	NR	
138 Benzidine	184	11.685	11.685	0.000	99	596445	NR	NR	
166 DFTPP									
167 4,4'-DDE	246	11.932	11.932	0.000	1	231		NR	
168 4,4'-DDD	235	12.403	12.403	0.000	89	1532		NR	
169 4,4'-DDT	235	12.907	12.907	0.000	97	257950	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

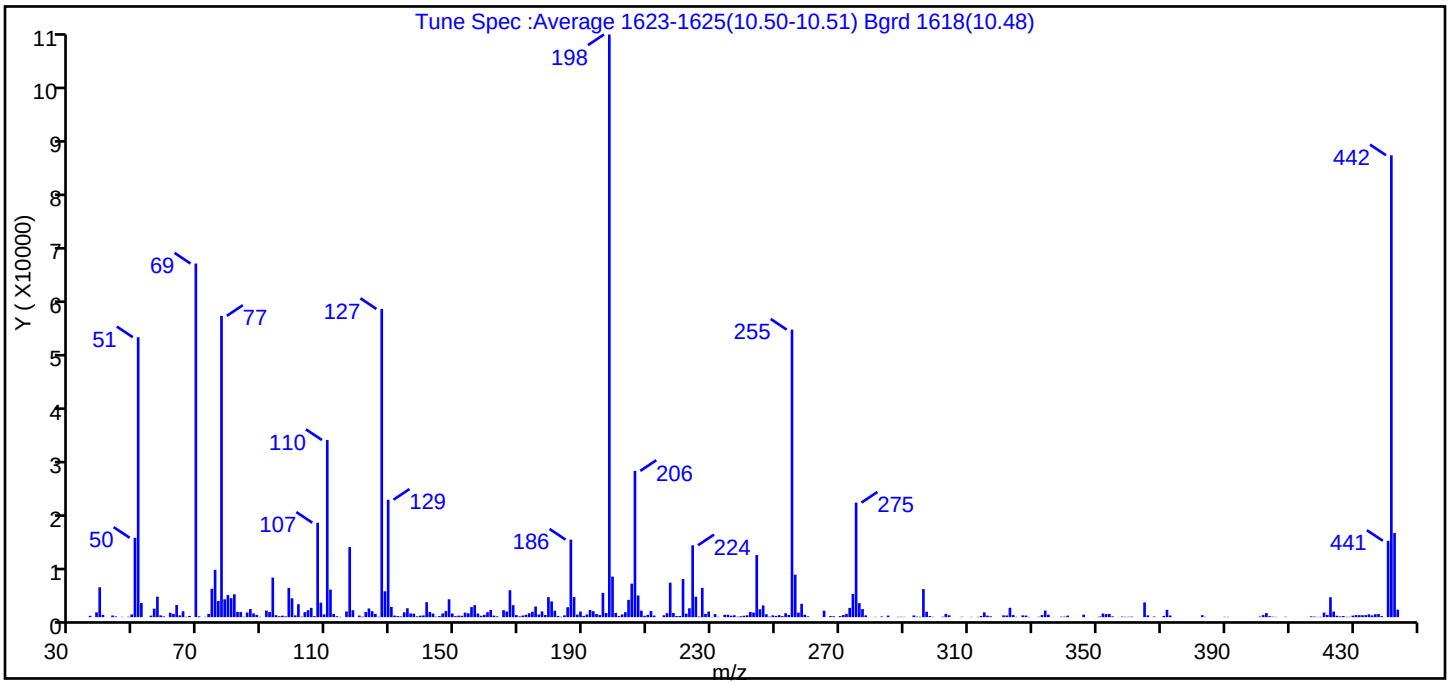
HIVOL_DFTPPWK_00069 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D
Injection Date: 26-Oct-2017 16:17:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL
Tune Method: DFTPP Method 8270D, BP 198

166 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (126.2)
51	10-80% of the base peak	48.0
68	<2% of mass 69	0.0 (0.0)
69	Present	60.7
70	<2% of mass 69	0.1 (0.2)
127	10-80% of the base peak	52.9
197	<2% of mass 198	0.7
199	5-9% of mass 198	7.0
275	10-60% of the base peak	19.7
365	>1% of mass 198	2.5
441	present but <24% of mass 442	13.1 (16.5)
442	base peak, or >50% of 198	79.3
443	15-24% of mass 442	14.4 (18.2)

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D\1-LVI8270.rslt\spectra.d
Injection Date: 26-Oct-2017 16:17:30
Spectrum: Tune Spec :Average 1623-1625(10.50-10.51) Bgrd 1618(10.48)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	246	127.00	57112	206.00	27104	303.00	606
38.00	889	128.00	4790	207.00	4006	304.00	345
39.00	5536	129.00	21760	208.00	1200	308.00	70
40.00	425	130.00	1904	209.00	244	311.00	51
43.00	308	131.00	290	210.00	417	313.00	58
44.00	127	132.00	197	211.00	1127	314.00	221
46.00	57	133.00	131	212.00	289	315.00	891
48.00	81	134.00	895	215.00	346	316.00	281
49.00	500	135.00	1649	216.00	738	317.00	148
50.00	14702	136.00	688	217.00	6391	321.00	326
51.00	51872	137.00	646	218.00	764	322.00	309
52.00	2615	138.00	154	219.00	203	323.00	1729
55.00	278	139.00	274	220.00	210	324.00	380
56.00	1574	140.00	322	221.00	7061	325.00	66
57.00	3794	141.00	2779	222.00	642	327.00	327
58.00	328	142.00	950	223.00	1650	328.00	288
59.00	137	143.00	660	224.00	13320	329.00	51
61.00	814	144.00	83	225.00	3784	332.00	71
62.00	596	145.00	194	226.00	110	333.00	377
63.00	2249	146.00	678	227.00	5418	334.00	1223
64.00	327	147.00	1121	228.00	611	335.00	446
65.00	1088	148.00	3310	229.00	1048	339.00	81
66.00	66	149.00	674	230.00	47	340.00	86
67.00	217	150.00	186	231.00	564	341.00	285
69.00	65528	151.00	285	232.00	62	346.00	458
70.00	144	152.00	259	234.00	433	351.00	114
72.00	57	153.00	831	235.00	431	352.00	664
73.00	600	154.00	709	236.00	269	353.00	562
74.00	5261	155.00	1866	237.00	354	354.00	590
75.00	8764	156.00	2224	238.00	81	355.00	148
76.00	2995	157.00	668	239.00	165	358.00	98
77.00	55832	158.00	257	240.00	264	359.00	64
78.00	3304	159.00	425	241.00	348	360.00	66

Report Date: 27-Oct-2017 08:33:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D\1-LVI8270.rslt\spectra.d
Injection Date: 26-Oct-2017 16:17:30
Spectrum: Tune Spec :Average 1623-1625(10.50-10.51) Bgrd 1618(10.48)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	4092	160.00	908	242.00	947	361.00	96
80.00	3523	161.00	1333	243.00	850	365.00	2730
81.00	4231	162.00	282	244.00	11517	366.00	331
82.00	969	163.00	150	245.00	1467	368.00	116
83.00	939	165.00	1299	246.00	2173	371.00	233
84.00	71	166.00	1047	247.00	536	372.00	1357
85.00	853	167.00	4996	248.00	93	373.00	310
86.00	1496	168.00	2213	249.00	329	383.00	365
87.00	696	169.00	384	250.00	229	384.00	51
88.00	419	170.00	140	251.00	370	390.00	59
89.00	67	171.00	301	252.00	186	391.00	54
91.00	1232	172.00	434	253.00	725	401.00	115
92.00	956	173.00	723	254.00	403	402.00	384
93.00	7335	174.00	1005	255.00	53280	403.00	749
94.00	362	175.00	1968	256.00	7877	404.00	181
95.00	172	176.00	477	257.00	837	405.00	79
96.00	276	177.00	1063	258.00	2477	406.00	52
97.00	146	178.00	391	259.00	451	409.00	72
98.00	5412	179.00	3714	260.00	143	417.00	146
99.00	3496	180.00	2919	265.00	1189	418.00	94
100.00	320	181.00	1200	267.00	189	419.00	51
101.00	2390	182.00	224	268.00	165	420.00	62
102.00	84	183.00	64	270.00	192	421.00	850
103.00	930	184.00	332	271.00	385	422.00	402
104.00	1288	185.00	1838	272.00	607	423.00	3683
105.00	1718	186.00	14368	273.00	1707	424.00	1026
106.00	181	187.00	3731	274.00	4308	425.00	259
107.00	17496	188.00	471	275.00	21224	426.00	141
108.00	2689	189.00	1032	276.00	2589	427.00	205
109.00	501	190.00	232	277.00	1498	428.00	60
110.00	32824	191.00	496	278.00	323	429.00	64
111.00	5098	192.00	1314	281.00	52	430.00	281
112.00	598	193.00	1099	283.00	129	431.00	383
113.00	171	194.00	586	285.00	285	432.00	368

Report Date: 27-Oct-2017 08:33:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D\1-LVI8270.rslt\spectra.d
Injection Date: 26-Oct-2017 16:17:30
Spectrum: Tune Spec :Average 1623-1625(10.50-10.51) Bgrd 1618(10.48)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 312

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	57	195.00	387	288.00	56	433.00	354
116.00	1057	196.00	4496	289.00	67	434.00	370
117.00	12999	197.00	762	290.00	50	435.00	521
118.00	1277	198.00	107976	293.00	322	436.00	323
120.00	292	199.00	7511	294.00	97	437.00	543
121.00	86	200.00	798	295.00	73	438.00	581
122.00	945	201.00	204	296.00	5203	439.00	189
123.00	1605	202.00	501	297.00	1004	441.00	14146
124.00	1101	203.00	922	298.00	191	442.00	85592
125.00	611	204.00	3201	299.00	59	443.00	15591
126.00	68	205.00	6211	302.00	84	444.00	1391

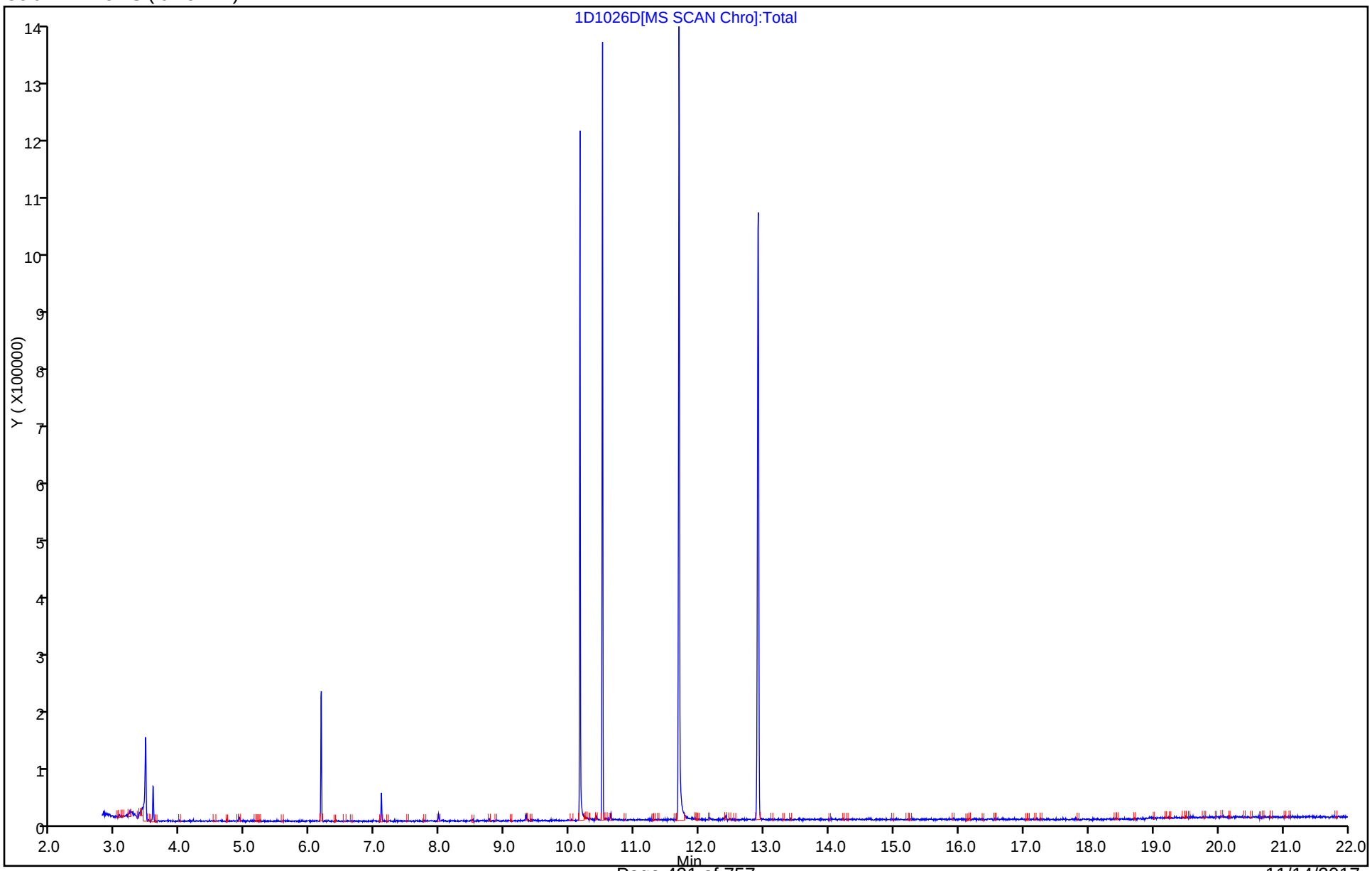
Report Date: 27-Oct-2017 08:33:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D

Injection Date:	26-Oct-2017 16:17:30	Instrument ID:	CMS01	Operator ID:	DA
Lims ID:	dftpp			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)

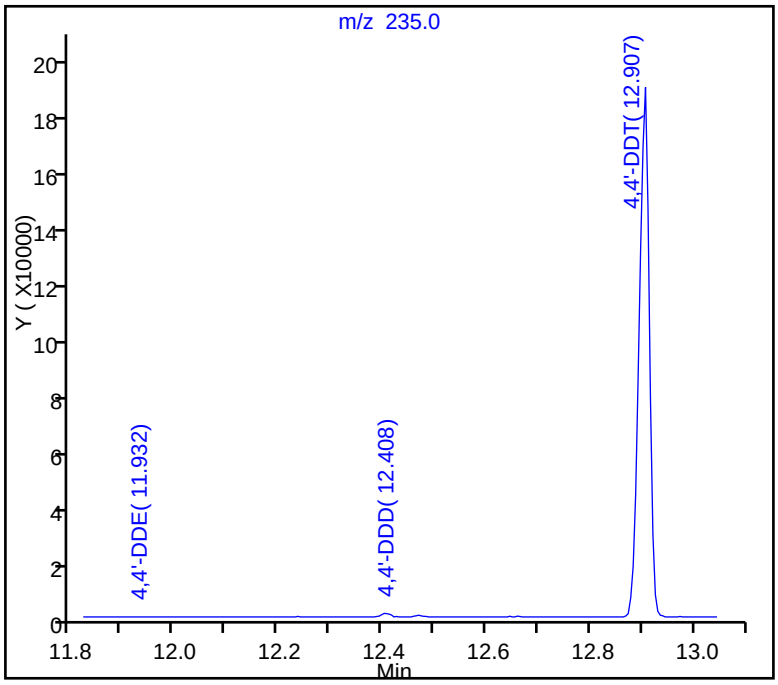


Breakdown Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D
Injection Date: 26-Oct-2017 16:17:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

169 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

169 4,4'-DDT, Area = 257950
168 4,4'-DDD, Area = 1532
167 4,4'-DDE, Area = 231

%Breakdown: 0.68%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Chicago

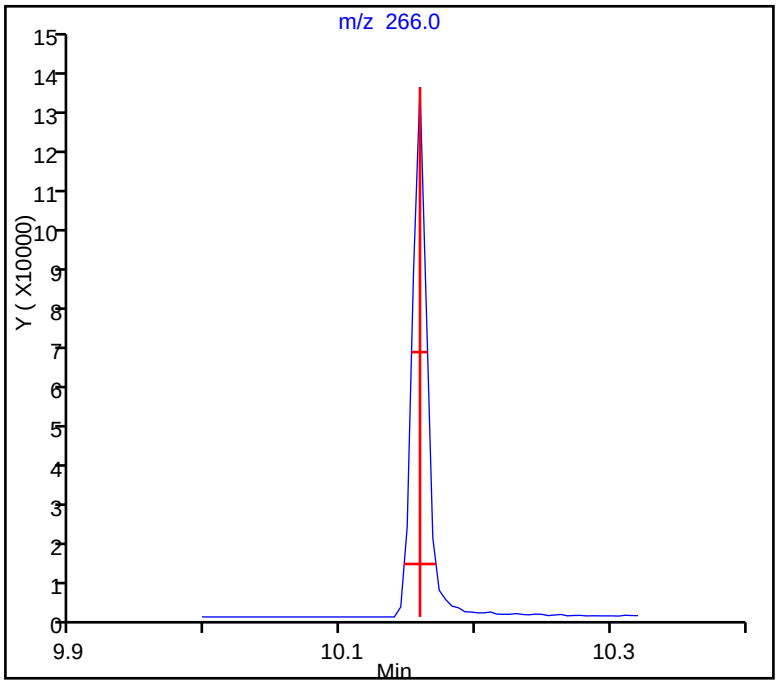
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D
Injection Date: 26-Oct-2017 16:17:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

125 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Chicago

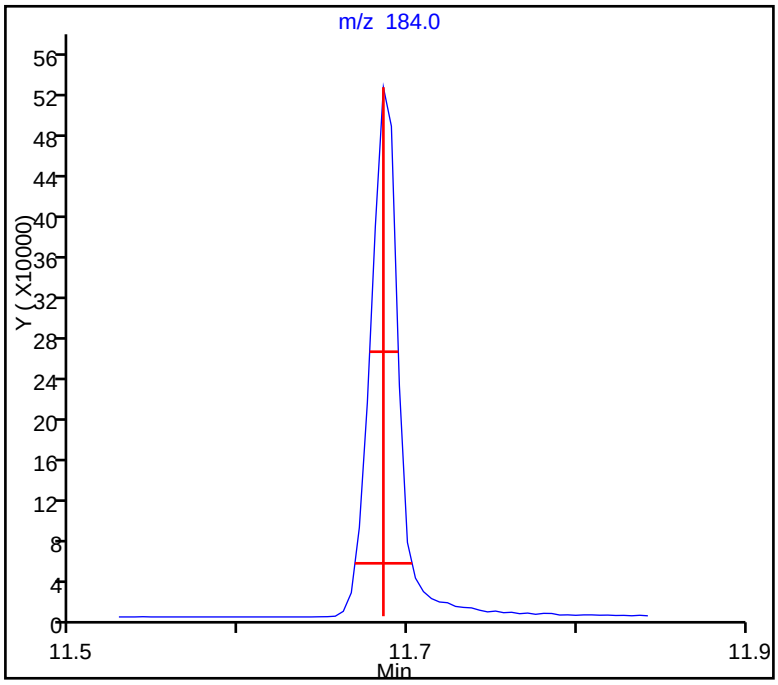
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171026-48643.b\1D1026D.D
Injection Date: 26-Oct-2017 16:17:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: DA ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

138 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1D1107.D
Lims ID: dftpp
Client ID:
Sample Type: DFTPP
Inject. Date: 07-Nov-2017 11:53:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 500-0048887-001
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 07-Nov-2017 15:04:13 Calib Date: 05-Nov-2017 14:37:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171105-48841.b\1C1105b.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: lesiakk Date: 07-Nov-2017 15:04:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
125 Pentachlorophenol	266	9.911	9.911	0.000	95	107354	NR	NR	
138 Benzidine	184	11.352	11.352	0.000	99	460160	NR	NR	
166 DFTPP									
167 4,4'-DDE	246	11.575	11.575	0.000	74	471		NR	
168 4,4'-DDD	235	12.022	12.022	0.000	83	1667		NR	
169 4,4'-DDT	235	12.474	12.474	0.000	96	262931	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

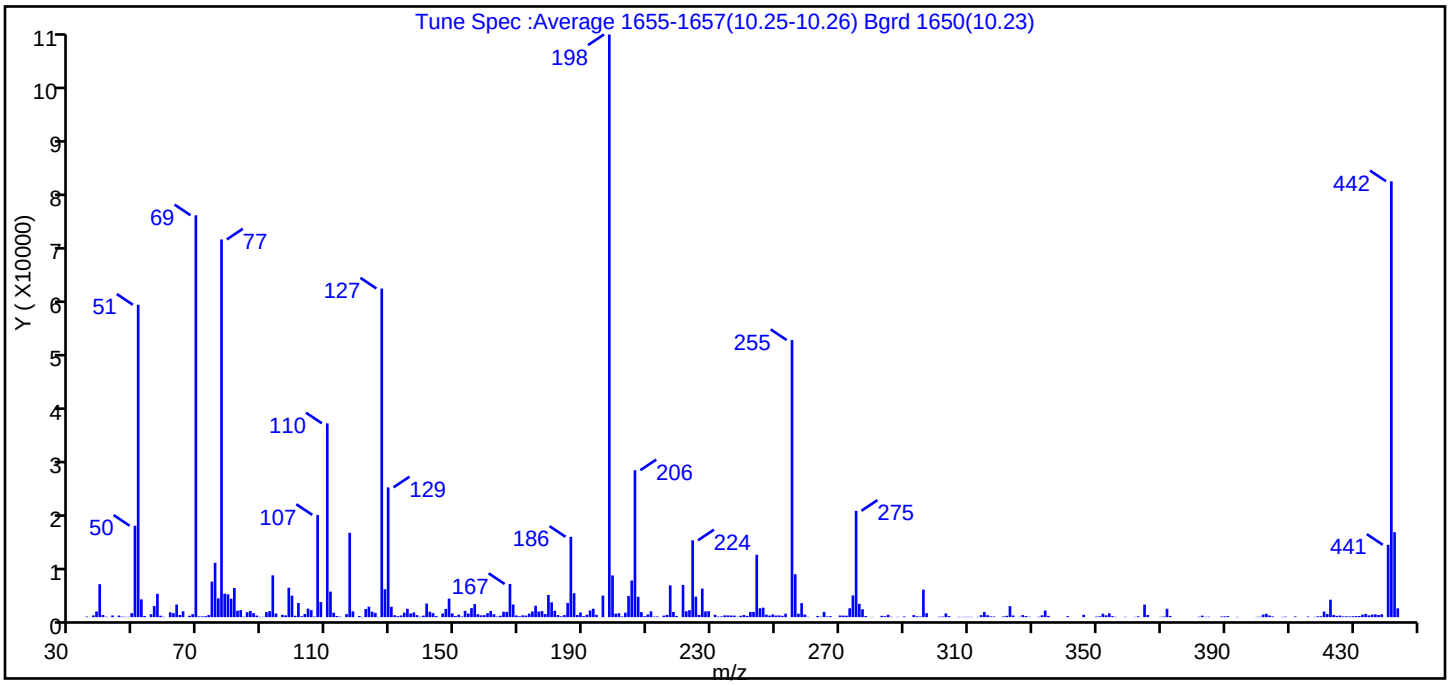
HIVOL_DFTPPWK_00069 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1D1107.D
Injection Date: 07-Nov-2017 11:53:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL
Tune Method: DFTPP Method 8270D, BP 198

166 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (133.7)
51	10-80% of the base peak	53.6
68	<2% of mass 69	0.5 (0.7)
69	Present	69.0
70	<2% of mass 69	0.1 (0.2)
127	10-80% of the base peak	56.4
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.2
275	10-60% of the base peak	18.3
365	>1% of mass 198	2.2
441	present but <24% of mass 442	12.4 (16.6)
442	base peak, or >50% of 198	74.8
443	15-24% of mass 442	14.6 (19.5)

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1D1107.D\1-LVI8270.rslt\spectra.d
Injection Date: 07-Nov-2017 11:53:30
Spectrum: Tune Spec :Average 1655-1657(10.25-10.26) Bgrd 1650(10.23)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	106	126.00	58	210.00	473	311.00	55
37.00	314	127.00	59176	211.00	1045	313.00	50
38.00	1014	128.00	5031	212.00	96	314.00	361
39.00	5930	129.00	23368	213.00	126	315.00	934
40.00	375	130.00	1866	215.00	277	316.00	353
41.00	83	131.00	348	216.00	408	317.00	130
43.00	301	132.00	178	217.00	5728	318.00	117
45.00	282	133.00	300	218.00	927	321.00	131
46.00	88	134.00	811	219.00	213	322.00	238
47.00	58	135.00	1507	221.00	5800	323.00	1979
48.00	55	136.00	656	222.00	1061	324.00	294
49.00	714	137.00	853	223.00	1253	326.00	65
50.00	16456	138.00	357	224.00	13834	327.00	371
51.00	56256	139.00	77	225.00	3688	328.00	197
52.00	3205	140.00	274	226.00	395	329.00	68
53.00	208	141.00	2445	227.00	5152	332.00	79
55.00	525	142.00	978	228.00	1041	333.00	329
56.00	2001	143.00	722	229.00	1072	334.00	1185
57.00	4210	144.00	191	231.00	416	335.00	229
58.00	261	146.00	674	232.00	98	341.00	183
59.00	66	147.00	1489	233.00	131	346.00	420
61.00	874	148.00	3345	234.00	318	350.00	104
62.00	714	149.00	668	235.00	316	351.00	142
63.00	2265	150.00	197	236.00	306	352.00	618
64.00	384	151.00	443	237.00	277	353.00	334
65.00	1062	152.00	117	238.00	66	354.00	677
67.00	253	153.00	1123	239.00	250	355.00	180
68.00	532	154.00	647	240.00	383	356.00	51
69.00	72368	155.00	1628	241.00	236	359.00	63
70.00	135	156.00	2348	242.00	921	362.00	52
71.00	133	157.00	528	243.00	935	363.00	153
72.00	174	158.00	335	244.00	11233	365.00	2259
73.00	371	159.00	352	245.00	1599	366.00	383

Report Date: 07-Nov-2017 15:04:15 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1D1107.D\1-LVI8270.rslt\spectra.d
Injection Date: 07-Nov-2017 11:53:30
Spectrum: Tune Spec :Average 1655-1657(10.25-10.26) Bgrd 1650(10.23)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	6401	160.00	707	246.00	1698	370.00	61
75.00	9777	161.00	1113	247.00	445	371.00	112
76.00	3378	162.00	520	248.00	288	372.00	1507
77.00	68016	163.00	112	249.00	487	373.00	217
78.00	4224	164.00	253	250.00	300	382.00	80
79.00	4109	165.00	972	251.00	311	383.00	268
80.00	3335	166.00	945	252.00	245	384.00	60
81.00	5243	167.00	5972	253.00	621	385.00	78
82.00	1155	168.00	2277	255.00	49896	389.00	111
83.00	1273	169.00	306	256.00	7730	390.00	143
84.00	85	170.00	162	257.00	614	391.00	190
85.00	892	171.00	327	258.00	2515	394.00	57
86.00	1112	172.00	278	259.00	466	400.00	54
87.00	724	173.00	634	260.00	67	401.00	74
88.00	283	174.00	1018	263.00	219	402.00	471
89.00	65	175.00	2055	264.00	74	403.00	603
90.00	65	176.00	1005	265.00	945	404.00	293
91.00	903	177.00	1089	266.00	125	405.00	129
92.00	1080	178.00	565	267.00	178	408.00	55
93.00	7525	179.00	3989	270.00	302	409.00	91
94.00	652	180.00	2669	271.00	278	412.00	134
96.00	403	181.00	1150	272.00	262	416.00	116
97.00	313	182.00	368	273.00	1597	418.00	52
98.00	5291	183.00	143	274.00	3908	419.00	147
99.00	3860	184.00	376	275.00	19152	420.00	158
100.00	246	185.00	2553	276.00	2398	421.00	997
101.00	2548	186.00	14465	277.00	1417	422.00	559
102.00	162	187.00	4308	278.00	211	423.00	3138
103.00	563	188.00	388	280.00	51	424.00	379
104.00	1532	189.00	840	283.00	239	425.00	236
105.00	1248	190.00	185	284.00	174	426.00	284
106.00	104	191.00	442	285.00	428	427.00	130
107.00	18408	192.00	1210	286.00	74	428.00	154
108.00	2713	193.00	1511	288.00	55	429.00	124

Report Date: 07-Nov-2017 15:04:15 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1D1107.D\1-LVI8270.rslt\spectra.d
Injection Date: 07-Nov-2017 11:53:30
Spectrum: Tune Spec :Average 1655-1657(10.25-10.26) Bgrd 1650(10.23)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 324

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	34896	194.00	411	290.00	134	430.00	163
111.00	4599	196.00	3880	293.00	373	431.00	191
112.00	796	198.00	104920	294.00	158	432.00	211
113.00	215	199.00	7514	295.00	106	433.00	458
114.00	92	200.00	616	296.00	4955	434.00	567
116.00	553	201.00	696	297.00	718	435.00	311
117.00	15180	202.00	127	301.00	86	436.00	456
118.00	1041	203.00	804	302.00	105	437.00	503
120.00	202	204.00	3795	303.00	665	438.00	381
121.00	51	205.00	6602	304.00	186	439.00	508
122.00	1470	206.00	26456	307.00	56	441.00	13027
123.00	1895	207.00	3656	308.00	50	442.00	78488
124.00	981	208.00	911	309.00	52	443.00	15294
125.00	767	209.00	171	310.00	61	444.00	1593

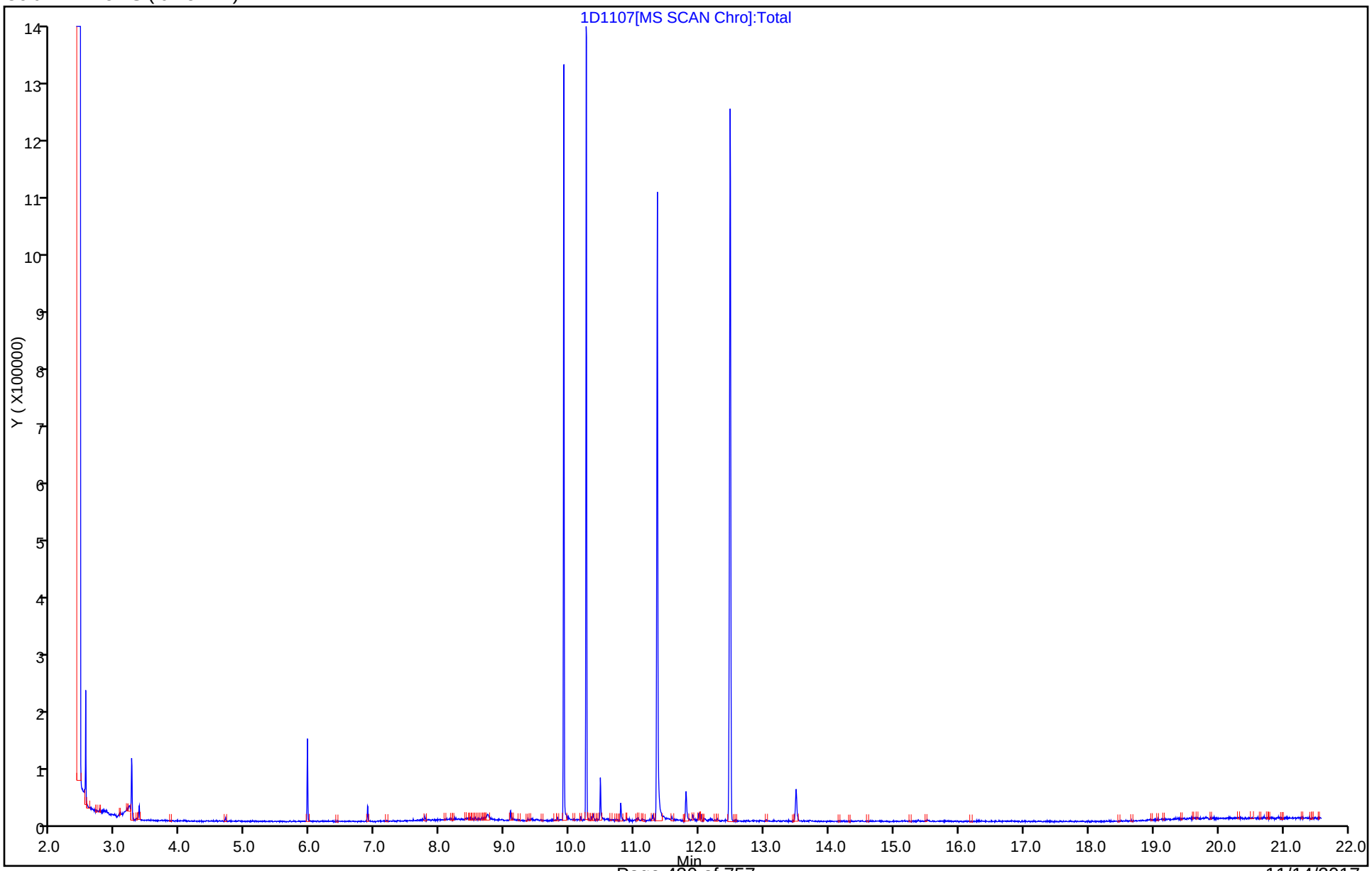
Report Date: 07-Nov-2017 15:04:15 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1D1107.D

Injection Date:	07-Nov-2017 11:53:30	Instrument ID:	CMS01	Operator ID:	AD
Lims ID:	dftpp			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)

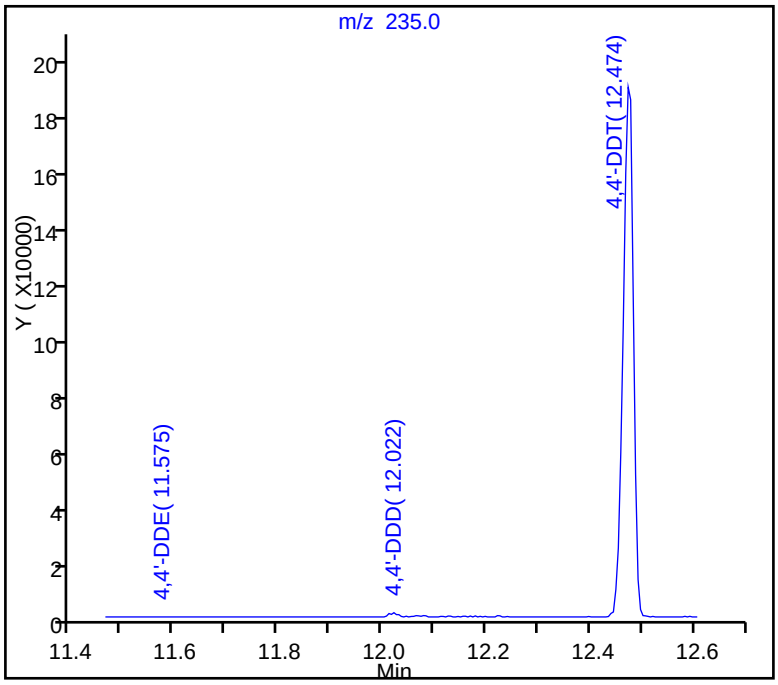


Breakdown Report

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1D1107.D
Injection Date: 07-Nov-2017 11:53:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

169 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

169 4,4'-DDT, Area = 262931
168 4,4'-DDD, Area = 1667
167 4,4'-DDE, Area = 471

%Breakdown: 0.81%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Chicago

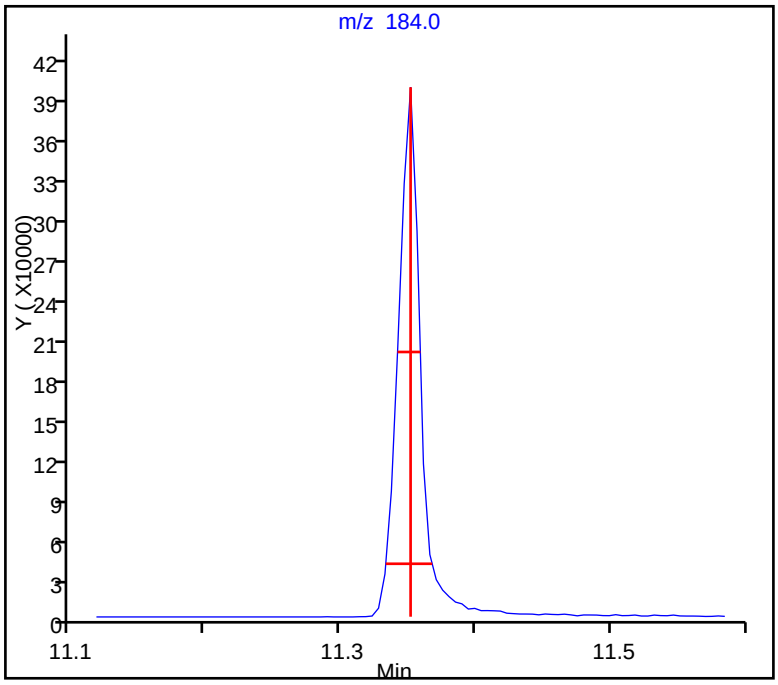
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1D1107.D
Injection Date: 07-Nov-2017 11:53:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

138 Benzidine, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Chicago

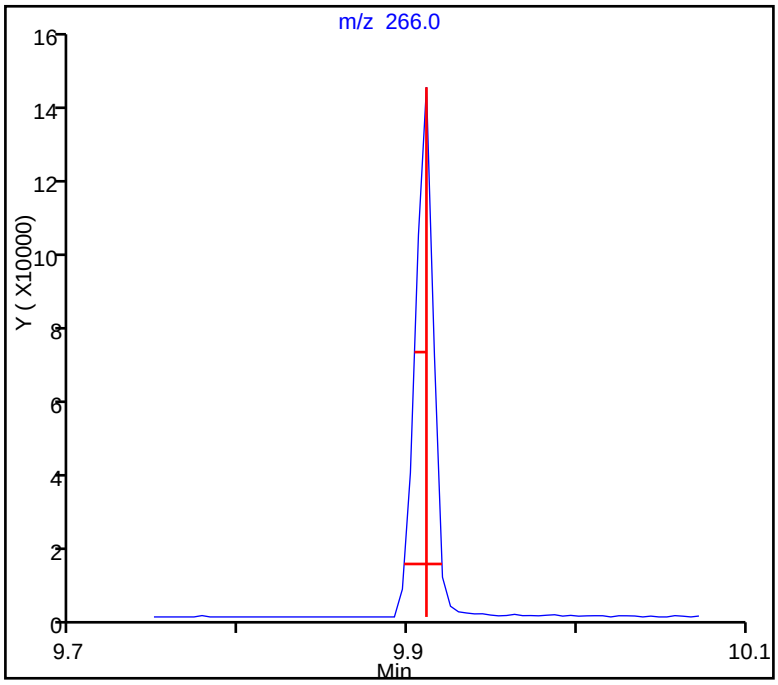
Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1D1107.D
Injection Date: 07-Nov-2017 11:53:30 Instrument ID: CMS01
Lims ID: dftpp
Client ID:
Operator ID: AD ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: 1-LVI8270 Limit Group: MSBNA_8270D_ICAL

125 Pentachlorophenol, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 0.7, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-408755/1-A

Matrix: Water | Lab File ID: MB 500-408755.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250.0(mL) | Date Analyzed: 11/07/2017 17:52

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-52-7	Benzaldehyde	<32		32	12
108-95-2	Phenol	<4.0		4.0	0.54
111-44-4	Bis(2-chloroethyl)ether	<1.6		1.6	0.23
95-57-8	2-Chlorophenol	<4.0		4.0	0.45
95-48-7	2-Methylphenol	<1.6		1.6	0.24
108-60-1	2,2'-oxybis[1-chloropropane]	<1.6		1.6	0.30
98-86-2	Acetophenone	<4.0		4.0	0.53
621-64-7	N-Nitrosodi-n-propylamine	<0.40		0.40	0.12
67-72-1	Hexachloroethane	<4.0		4.0	0.48
98-95-3	Nitrobenzene	<0.80		0.80	0.36
78-59-1	Isophorone	<1.6		1.6	0.30
88-75-5	2-Nitrophenol	<8.0		8.0	2.0
105-67-9	2,4-Dimethylphenol	<8.0		8.0	1.4
111-91-1	Bis(2-chloroethoxy)methane	<1.6		1.6	0.23
120-83-2	2,4-Dichlorophenol	<8.0		8.0	2.1
91-20-3	Naphthalene	<0.80		0.80	0.25
106-47-8	4-Chloroaniline	<8.0		8.0	1.6
87-68-3	Hexachlorobutadiene	<4.0		4.0	0.41
105-60-2	Caprolactam	<8.0		8.0	1.2
59-50-7	4-Chloro-3-methylphenol	<8.0		8.0	1.8
91-57-6	2-Methylnaphthalene	<1.6		1.6	0.052
77-47-4	Hexachlorocyclopentadiene	<16		16	5.1
88-06-2	2,4,6-Trichlorophenol	<4.0		4.0	0.57
95-95-4	2,4,5-Trichlorophenol	<8.0		8.0	2.1
92-52-4	1,1'-Biphenyl	<4.0		4.0	0.29
91-58-7	2-Chloronaphthalene	<1.6		1.6	0.19
88-74-4	2-Nitroaniline	<4.0		4.0	1.0
131-11-3	Dimethyl phthalate	<4.0		4.0	0.25
606-20-2	2,6-Dinitrotoluene	<0.80		0.80	0.059
208-96-8	Acenaphthylene	<0.80		0.80	0.21
99-09-2	3-Nitroaniline	<8.0		8.0	1.4
83-32-9	Acenaphthene	<0.80		0.80	0.25
51-28-5	2,4-Dinitrophenol	<16		16	6.9
100-02-7	4-Nitrophenol	<16		16	5.9

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-408755/1-A

Matrix: Water | Lab File ID: MB 500-408755.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250.0(mL) | Date Analyzed: 11/07/2017 17:52

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
132-64-9	Dibenzofuran	<1.6		1.6	0.21
121-14-2	2,4-Dinitrotoluene	<0.80		0.80	0.20
84-66-2	Diethyl phthalate	<4.0		4.0	0.29
86-73-7	Fluorene	<0.80		0.80	0.20
7005-72-3	4-Chlorophenyl phenyl ether	<4.0		4.0	0.51
100-01-6	4-Nitroaniline	<8.0		8.0	1.3
534-52-1	4,6-Dinitro-2-methylphenol	<16		16	4.7
86-30-6	N-Nitrosodiphenylamine	<1.6		1.6	0.30
101-55-3	4-Bromophenyl phenyl ether	<4.0		4.0	0.43
118-74-1	Hexachlorobenzene	<0.40		0.40	0.064
1912-24-9	Atrazine	<4.0		4.0	0.50
87-86-5	Pentachlorophenol	<16		16	3.2
85-01-8	Phenanthrene	<0.80		0.80	0.24
120-12-7	Anthracene	<0.80		0.80	0.27
86-74-8	Carbazole	<4.0		4.0	0.28
84-74-2	Di-n-butyl phthalate	<4.0		4.0	0.58
206-44-0	Fluoranthene	<0.80		0.80	0.36
129-00-0	Pyrene	<0.80		0.80	0.34
85-68-7	Butyl benzyl phthalate	<1.6		1.6	0.38
91-94-1	3,3'-Dichlorobenzidine	<4.0		4.0	1.4
56-55-3	Benzo[a]anthracene	<0.16		0.16	0.045
218-01-9	Chrysene	<0.16		0.16	0.055
117-81-7	Bis(2-ethylhexyl) phthalate	<8.0		8.0	1.4
117-84-0	Di-n-octyl phthalate	<8.0		8.0	0.84
205-99-2	Benzo[b]fluoranthene	<0.16		0.16	0.065
207-08-9	Benzo[k]fluoranthene	<0.16		0.16	0.051
50-32-8	Benzo[a]pyrene	<0.16		0.16	0.079
193-39-5	Indeno[1,2,3-cd]pyrene	<0.16		0.16	0.060
53-70-3	Dibenz(a,h)anthracene	<0.24		0.24	0.041
191-24-2	Benzo[g,h,i]perylene	<0.80		0.80	0.30
15831-10-4	3 & 4 Methylphenol	<1.6		1.6	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-408755/1-A

Matrix: Water | Lab File ID: MB 500-408755.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250.0(mL) | Date Analyzed: 11/07/2017 17:52

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	77		27-110
4165-62-2	Phenol-d5 (Surr)	50		20-100
4165-60-0	Nitrobenzene-d5 (Surr)	83		36-120
321-60-8	2-Fluorobiphenyl (Surr)	74		34-110
118-79-6	2,4,6-Tribromophenol (Surr)	80		40-145
1718-51-0	Terphenyl-d14 (Surr)	95		40-145

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\MB 500-408755.D
Lims ID: MB 500-408755/1-A
Client ID:
Sample Type: MB
Inject. Date: 07-Nov-2017 17:52:30 ALS Bottle#: 12 Worklist Smp#: 18
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: MB 500-408755/1-A
Misc. Info.: 500-0048887-018
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 14-Nov-2017 12:10:21 Calib Date: 05-Nov-2017 14:37:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171105-48841.b\1C1105b.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: squiresb Date: 14-Nov-2017 12:10:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.282	6.282	0.000	97	96819	3.20	3.20	
* 2 Naphthalene-d8	136	7.338	7.343	-0.005	99	383423	3.20	3.20	
* 3 Acenaphthene-d10	164	8.812	8.817	-0.005	96	190618	3.20	3.20	
* 4 Phenanthrene-d10	188	10.068	10.072	-0.004	99	332368	3.20	3.20	
* 5 Chrysene-d12	240	13.306	13.325	-0.019	99	262736	3.20	3.20	
* 6 Perylene-d12	264	16.878	16.892	-0.014	96	250327	3.20	3.20	
$ 7 2-Fluorophenol	112	5.212	5.212	0.000	95	225156	10.0	7.66	
$ 8 Phenol-d5	99	5.954	5.968	-0.014	93	208907	10.0	4.96	
$ 9 Nitrobenzene-d5	82	6.729	6.734	-0.005	91	371936	10.0	8.28	
$ 10 2-Fluorobiphenyl	172	8.227	8.227	0.000	97	595642	10.0	7.42	
$ 11 2,4,6-Tribromophenol	330	9.478	9.483	-0.005	88	79808	10.0	7.98	
$ 12 Terphenyl-d14	244	11.651	11.651	0.000	99	636075	10.0	9.54	

Reagents:

SM_HIVOLISTD_00158 Amount Added: 10.00 Units: uL Run Reagent

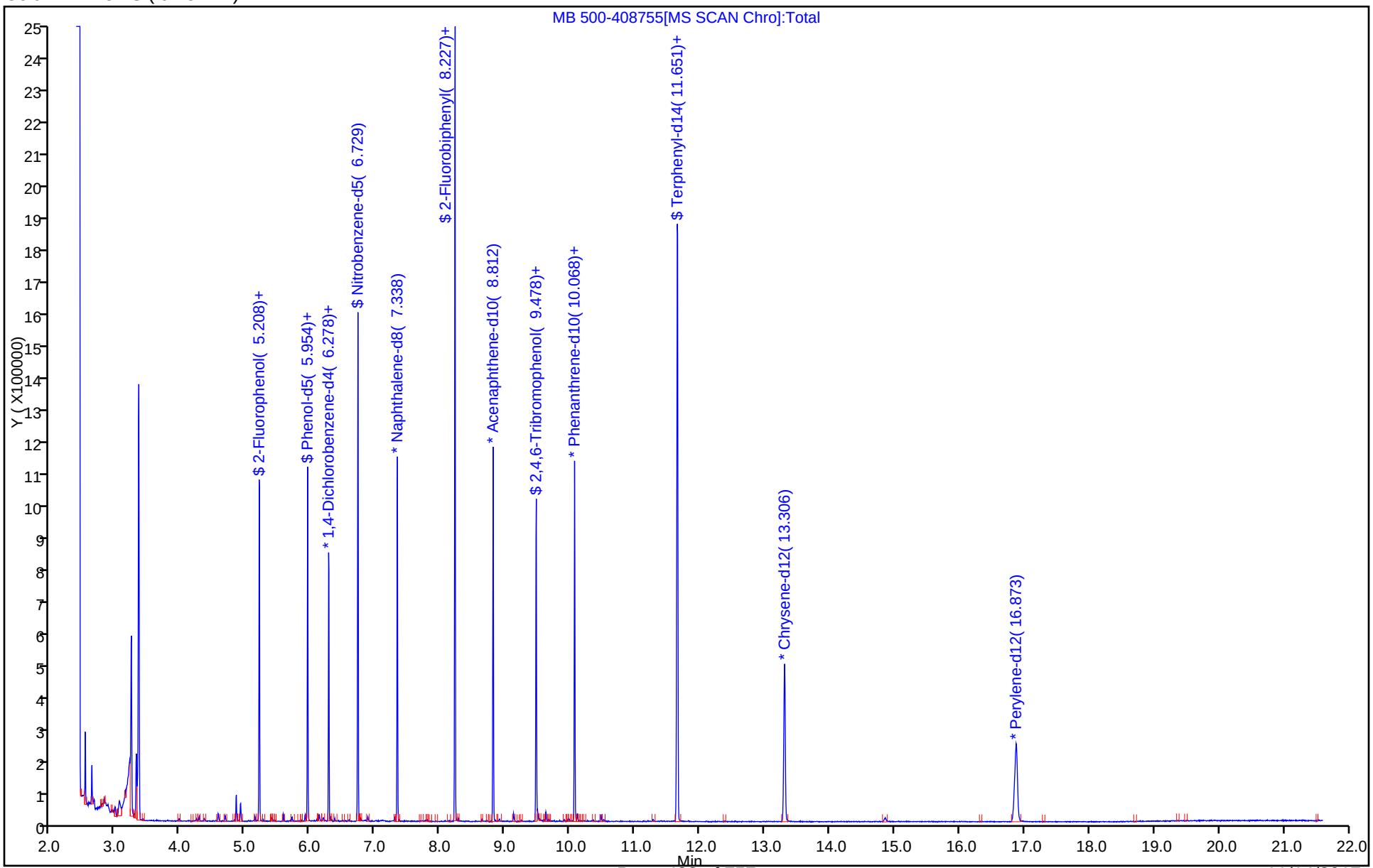
Report Date: 14-Nov-2017 12:10:22 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\MB 500-408755.D

Injection Date:	07-Nov-2017 17:52:30	Instrument ID:	CMS01	Operator ID:	AD
Lims ID:	MB 500-408755/1-A			Worklist Smp#:	18
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File:	\\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\MB 500-408755.D				
Lims ID:	MB 500-408755/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	07-Nov-2017 17:52:30	ALS Bottle#:	12	Worklist Smp#:	18
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 500-408755/1-A				
Misc. Info.:	500-0048887-018				
Operator ID:	AD	Instrument ID:	CMS01		
Method:	\\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1-LVI8270.m				
Limit Group:	MSBNA_8270D_ICAL				
Method Label:	TestAmerica Chicago GC/MS SVOA				
Last Update:	14-Nov-2017 12:10:21	Calib Date:	05-Nov-2017 14:37:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\CMS01\20171105-48841.b\1C1105b.D				
Column 1 :	ZB5MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK023				

First Level Reviewer: squiresb Date: 14-Nov-2017 12:10:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	10.0	7.66	76.61
$ 8 Phenol-d5	10.0	4.96	49.58
$ 9 Nitrobenzene-d5	10.0	8.28	82.81
$ 10 2-Fluorobiphenyl	10.0	7.42	74.17
$ 11 2,4,6-Tribromophenol	10.0	7.98	79.81
$ 12 Terphenyl-d14	10.0	9.54	95.42

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-408755/2-A

Matrix: Water | Lab File ID: LCS 500-408755.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250.0(mL) | Date Analyzed: 11/07/2017 15:54

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	19.4		4.0	0.54
111-44-4	Bis(2-chloroethyl)ether	27.0		1.6	0.23
95-57-8	2-Chlorophenol	27.2		4.0	0.45
95-48-7	2-Methylphenol	27.7		1.6	0.24
108-60-1	2,2'-oxybis[1-chloropropane]	25.5		1.6	0.30
98-86-2	Acetophenone	26.4		4.0	0.53
621-64-7	N-Nitrosodi-n-propylamine	28.0		0.40	0.12
67-72-1	Hexachloroethane	18.2		4.0	0.48
98-95-3	Nitrobenzene	29.2		0.80	0.36
78-59-1	Isophorone	29.5		1.6	0.30
88-75-5	2-Nitrophenol	28.1		8.0	2.0
105-67-9	2,4-Dimethylphenol	27.3		8.0	1.4
111-91-1	Bis(2-chloroethoxy)methane	30.2		1.6	0.23
120-83-2	2,4-Dichlorophenol	27.7		8.0	2.1
91-20-3	Naphthalene	22.2		0.80	0.25
106-47-8	4-Chloroaniline	27.9		8.0	1.6
87-68-3	Hexachlorobutadiene	16.8		4.0	0.41
105-60-2	Caprolactam	19.1		8.0	1.2
59-50-7	4-Chloro-3-methylphenol	30.4		8.0	1.8
91-57-6	2-Methylnaphthalene	21.8		1.6	0.052
77-47-4	Hexachlorocyclopentadiene	16.1		16	5.1
88-06-2	2,4,6-Trichlorophenol	27.7		4.0	0.57
95-95-4	2,4,5-Trichlorophenol	28.4		8.0	2.1
92-52-4	1,1'-Biphenyl	24.6		4.0	0.29
91-58-7	2-Chloronaphthalene	23.6		1.6	0.19
88-74-4	2-Nitroaniline	33.8		4.0	1.0
131-11-3	Dimethyl phthalate	30.8		4.0	0.25
606-20-2	2,6-Dinitrotoluene	32.5		0.80	0.059
208-96-8	Acenaphthylene	25.5		0.80	0.21
99-09-2	3-Nitroaniline	31.2		8.0	1.4
83-32-9	Acenaphthene	27.7		0.80	0.25
51-28-5	2,4-Dinitrophenol	69.7		16	6.9
100-02-7	4-Nitrophenol	43.3		16	5.9
132-64-9	Dibenzofuran	26.5		1.6	0.21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-408755/2-A

Matrix: Water | Lab File ID: LCS 500-408755.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250.0(mL) | Date Analyzed: 11/07/2017 15:54

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	32.2		0.80	0.20
84-66-2	Diethyl phthalate	31.5		4.0	0.29
86-73-7	Fluorene	27.7		0.80	0.20
7005-72-3	4-Chlorophenyl phenyl ether	25.0		4.0	0.51
100-01-6	4-Nitroaniline	29.2		8.0	1.3
534-52-1	4,6-Dinitro-2-methylphenol	63.3		16	4.7
86-30-6	N-Nitrosodiphenylamine	28.5		1.6	0.30
101-55-3	4-Bromophenyl phenyl ether	24.7		4.0	0.43
118-74-1	Hexachlorobenzene	25.0		0.40	0.064
1912-24-9	Atrazine	25.9		4.0	0.50
87-86-5	Pentachlorophenol	51.2		16	3.2
85-01-8	Phenanthrene	28.2		0.80	0.24
120-12-7	Anthracene	29.2		0.80	0.27
86-74-8	Carbazole	28.9		4.0	0.28
84-74-2	Di-n-butyl phthalate	31.1		4.0	0.58
206-44-0	Fluoranthene	29.5		0.80	0.36
129-00-0	Pyrene	31.4		0.80	0.34
85-68-7	Butyl benzyl phthalate	33.8		1.6	0.38
91-94-1	3,3'-Dichlorobenzidine	26.9		4.0	1.4
56-55-3	Benzo[a]anthracene	29.3		0.16	0.045
218-01-9	Chrysene	30.8		0.16	0.055
117-81-7	Bis(2-ethylhexyl) phthalate	34.6		8.0	1.4
117-84-0	Di-n-octyl phthalate	32.0		8.0	0.84
205-99-2	Benzo[b]fluoranthene	30.8		0.16	0.065
207-08-9	Benzo[k]fluoranthene	30.7		0.16	0.051
50-32-8	Benzo[a]pyrene	30.0		0.16	0.079
193-39-5	Indeno[1,2,3-cd]pyrene	30.9		0.16	0.060
53-70-3	Dibenz(a,h)anthracene	30.0		0.24	0.041
191-24-2	Benzo[g,h,i]perylene	30.0		0.80	0.30
15831-10-4	3 & 4 Methylphenol	27.4		1.6	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-408755/2-A

Matrix: Water | Lab File ID: LCS 500-408755.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250.0(mL) | Date Analyzed: 11/07/2017 15:54

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	78		27-110
4165-62-2	Phenol-d5 (Surr)	58		20-100
4165-60-0	Nitrobenzene-d5 (Surr)	85		36-120
321-60-8	2-Fluorobiphenyl (Surr)	79		34-110
118-79-6	2,4,6-Tribromophenol (Surr)	92		40-145
1718-51-0	Terphenyl-d14 (Surr)	94		40-145

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\LCS 500-408755.D
Lims ID: LCS 500-408755/2-A
Client ID:
Sample Type: LCS
Inject. Date: 07-Nov-2017 15:54:30 ALS Bottle#: 10 Worklist Smp#: 15
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: LCS 500-408755/2-A
Misc. Info.: 500-0048887-015
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 07-Nov-2017 18:47:04 Calib Date: 05-Nov-2017 14:37:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171105-48841.b\1C1105b.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: swaneyg Date: 07-Nov-2017 18:47:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.282	6.282	0.000	96	99884	3.20	3.20	
* 2 Naphthalene-d8	136	7.338	7.343	-0.005	99	377936	3.20	3.20	
* 3 Acenaphthene-d10	164	8.817	8.817	0.000	96	182955	3.20	3.20	
* 4 Phenanthrene-d10	188	10.072	10.072	0.000	99	316310	3.20	3.20	
* 5 Chrysene-d12	240	13.321	13.325	-0.004	99	237776	3.20	3.20	
* 6 Perylene-d12	264	16.882	16.892	-0.010	97	244952	3.20	3.20	
$ 7 2-Fluorophenol	112	5.212	5.212	0.000	95	237195	10.0	7.79	
$ 8 Phenol-d5	99	5.964	5.968	-0.004	93	252921	10.0	5.82	
$ 9 Nitrobenzene-d5	82	6.734	6.734	0.000	90	377619	10.0	8.53	
$ 10 2-Fluorobiphenyl	172	8.227	8.227	0.000	98	612247	10.0	7.94	
$ 11 2,4,6-Tribromophenol	330	9.483	9.483	0.000	91	88377	10.0	9.21	
$ 12 Terphenyl-d14	244	11.651	11.651	0.000	98	569425	10.0	9.44	
13 1,4-Dioxane	88	3.652	3.648	0.004	84	62094	8.00	7.05	
14 N-Nitrosodimethylamine	42	3.962	3.966	-0.004	57	215455	8.00	5.84	
15 Pyridine	79	4.009	4.009	0.000	94	143967	16.0	5.60	
25 Benzaldehyde	77	5.916	5.916	0.000	96	99739	8.00	7.32	
26 Phenol	94	5.973	5.978	-0.005	97	219907	8.00	4.86	
27 Aniline	93	6.006	6.011	-0.005	98	328682	8.00	5.52	
28 Bis(2-chloroethyl)ether	93	6.045	6.044	0.000	96	233159	8.00	6.76	
29 2-Chlorophenol	128	6.116	6.116	0.000	97	260867	8.00	6.80	
30 n-Decane	43	6.135	6.135	0.000	71	362467	8.00	5.02	
31 1,3-Dichlorobenzene	146	6.239	6.239	0.000	99	216095	8.00	4.61	
33 1,4-Dichlorobenzene	146	6.297	6.296	0.001	93	220749	8.00	4.58	
36 Benzyl alcohol	108	6.387	6.387	0.000	90	180823	8.00	6.71	
37 1,2-Dichlorobenzene	146	6.425	6.430	-0.005	95	218102	8.00	4.74	
38 2-Methylphenol	107	6.468	6.472	-0.004	89	219627	8.00	6.93	
39 2,2'-oxybis[1-chloropropan	45	6.482	6.487	-0.005	89	636064	8.00	6.37	
40 Indene	116	6.501	6.506	-0.005	91	746984	16.0	9.92	
42 3 & 4 Methylphenol	108	6.591	6.591	0.000	97	267678	8.00	6.85	
43 N-Nitrosodi-n-propylamine	70	6.601	6.601	0.000	95	221082	8.00	6.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
44 Acetophenone	105	6.606	6.606	0.000	93	394404	8.00	6.60	
45 Hexachloroethane	117	6.710	6.710	0.000	93	85406	8.00	4.55	
46 Nitrobenzene	77	6.753	6.753	0.000	95	299069	8.00	7.30	
48 Isophorone	82	6.943	6.948	-0.005	96	521982	8.00	7.37	
50 2-Nitrophenol	139	7.015	7.015	0.000	88	143819	8.00	7.02	
51 2,4-Dimethylphenol	122	7.029	7.034	-0.005	88	240090	8.00	6.82	
52 Bis(2-chloroethoxy)methane	93	7.100	7.100	0.000	97	308650	8.00	7.55	
54 Benzoic acid	122	7.138	7.172	-0.034	95	180782	16.0	10.9	
55 2,4-Dichlorophenol	162	7.214	7.219	-0.005	94	235674	8.00	6.93	
56 1,2,4-Trichlorobenzene	180	7.286	7.290	-0.004	93	183490	8.00	4.83	
58 Naphthalene	128	7.357	7.362	-0.005	99	625472	8.00	5.55	
60 4-Chloroaniline	127	7.386	7.390	-0.004	97	322773	8.00	6.98	
62 2,6-Dichlorophenol	162	7.400	7.400	0.000	96	233765	8.00	6.83	
63 Hexachlorobutadiene	225	7.457	7.457	0.000	95	84613	8.00	4.20	
65 Caprolactam	113	7.704	7.718	-0.014	71	47715	8.00	4.77	
66 4-Chloro-3-methylphenol	107	7.780	7.785	-0.005	96	250611	8.00	7.60	
68 2-Methylnaphthalene	142	7.932	7.932	0.000	99	428925	8.00	5.45	
70 1-Methylnaphthalene	142	8.018	8.018	0.000	99	416048	8.00	5.86	
72 Hexachlorocyclopentadiene	237	8.070	8.070	0.000	94	88618	8.00	4.04	
73 1,2,4,5-Tetrachlorobenzene	216	8.075	8.080	-0.005	95	180918	8.00	5.14	
74 2,4,6-Trichlorophenol	196	8.161	8.165	-0.004	88	163006	8.00	6.92	
76 2,4,5-Trichlorophenol	196	8.199	8.203	-0.004	95	168386	8.00	7.09	
79 1,1'-Biphenyl	154	8.318	8.318	0.000	96	532860	8.00	6.15	
80 2-Chloronaphthalene	162	8.346	8.346	0.000	98	428564	8.00	5.89	
81 2-Nitroaniline	65	8.418	8.422	-0.004	97	163954	8.00	8.45	
82 Dimethyl phthalate	163	8.555	8.560	-0.005	99	566174	8.00	7.70	
83 1,3-Dinitrobenzene	168	8.593	8.593	0.000	80	85508	8.00	8.26	
84 2,6-Dinitrotoluene	165	8.613	8.612	0.000	92	131721	8.00	8.13	
86 Acenaphthylene	152	8.698	8.703	-0.005	98	714649	8.00	6.37	
88 3-Nitroaniline	138	8.765	8.769	-0.004	93	120424	8.00	7.81	
90 Acenaphthene	154	8.846	8.845	0.001	93	485064	8.00	6.92	
91 2,4-Dinitrophenol	184	8.850	8.855	-0.005	87	151258	16.0	17.4	
92 4-Nitrophenol	109	8.893	8.903	-0.010	87	115639	16.0	10.8	
95 2,4-Dinitrotoluene	165	8.955	8.960	-0.005	89	175299	8.00	8.04	
97 Dibenzofuran	168	8.988	8.988	0.000	96	648844	8.00	6.63	
99 2,3,4,6-Tetrachlorophenol	232	9.088	9.088	0.000	97	129254	8.00	7.18	
100 Diethyl phthalate	149	9.140	9.140	0.000	97	552116	8.00	7.88	
101 Hexadecane	57	9.140	9.140	0.000	81	276626	8.00	6.95	
103 4-Chlorophenyl phenyl ethe	204	9.255	9.254	0.000	85	225179	8.00	6.25	
104 Fluorene	166	9.278	9.278	0.000	95	514992	8.00	6.94	
106 4-Nitroaniline	138	9.283	9.288	-0.005	85	102148	8.00	7.29	
109 4,6-Dinitro-2-methylphenol	198	9.307	9.312	-0.005	95	180797	16.0	15.8	
111 N-Nitrosodiphenylamine	169	9.354	9.354	0.000	68	383875	8.00	7.14	
113 1,2-Diphenylhydrazine	77	9.392	9.392	0.000	97	620101	8.00	8.04	
119 4-Bromophenyl phenyl ether	248	9.673	9.673	0.000	90	125639	8.00	6.17	
122 Hexachlorobenzene	284	9.754	9.759	-0.005	97	129886	8.00	6.25	
123 Atrazine	200	9.782	9.787	-0.005	82	108374	8.00	6.48	
124 n-Octadecane	43	9.911	9.911	0.000	93	422326	8.00	6.50	
125 Pentachlorophenol	266	9.911	9.915	-0.004	94	152495	16.0	12.8	
127 Phenanthrene	178	10.096	10.096	0.000	98	777176	8.00	7.05	
128 Anthracene	178	10.139	10.139	0.000	98	816797	8.00	7.30	
129 Carbazole	167	10.258	10.258	0.000	96	684515	8.00	7.22	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
133 Di-n-butyl phthalate	149	10.519	10.519	0.000	99	908660	8.00	7.77	
136 Fluoranthene	202	11.238	11.238	0.000	97	809762	8.00	7.36	
138 Benzidine	184	11.347	11.352	-0.005	97	10126	8.00	0.2687	7
141 Pyrene	202	11.504	11.509	-0.005	97	826157	8.00	7.85	
147 Butyl benzyl phthalate	149	12.298	12.298	0.000	98	418403	8.00	8.46	
149 3,3'-Dichlorobenzidine	252	13.230	13.235	-0.005	99	216729	8.00	6.72	
150 Bis(2-ethylhexyl) phthalat	149	13.302	13.301	0.001	87	580099	8.00	8.65	
151 Benzo[a]anthracene	228	13.297	13.301	-0.004	98	700590	8.00	7.33	
152 Chrysene	228	13.373	13.378	-0.005	99	667234	8.00	7.70	
155 Di-n-octyl phthalate	149	14.742	14.747	-0.005	94	994688	8.00	7.99	
157 Benzo[b]fluoranthene	252	15.751	15.755	-0.004	97	683753	8.00	7.70	
158 Benzo[k]fluoranthene	252	15.831	15.836	-0.005	95	689906	8.00	7.68	
160 Benzo[a]pyrene	252	16.721	16.725	-0.004	96	668093	8.00	7.50	
163 Indeno[1,2,3-cd]pyrene	276	19.897	19.916	-0.019	97	746911	8.00	7.73	
164 Dibenz(a,h)anthracene	278	19.964	19.978	-0.014	96	600910	8.00	7.49	
165 Benzo[g,h,i]perylene	276	20.544	20.549	-0.005	95	633765	8.00	7.50	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SM_HIVOLISTD_00158 Amount Added: 10.00 Units: uL Run Reagent

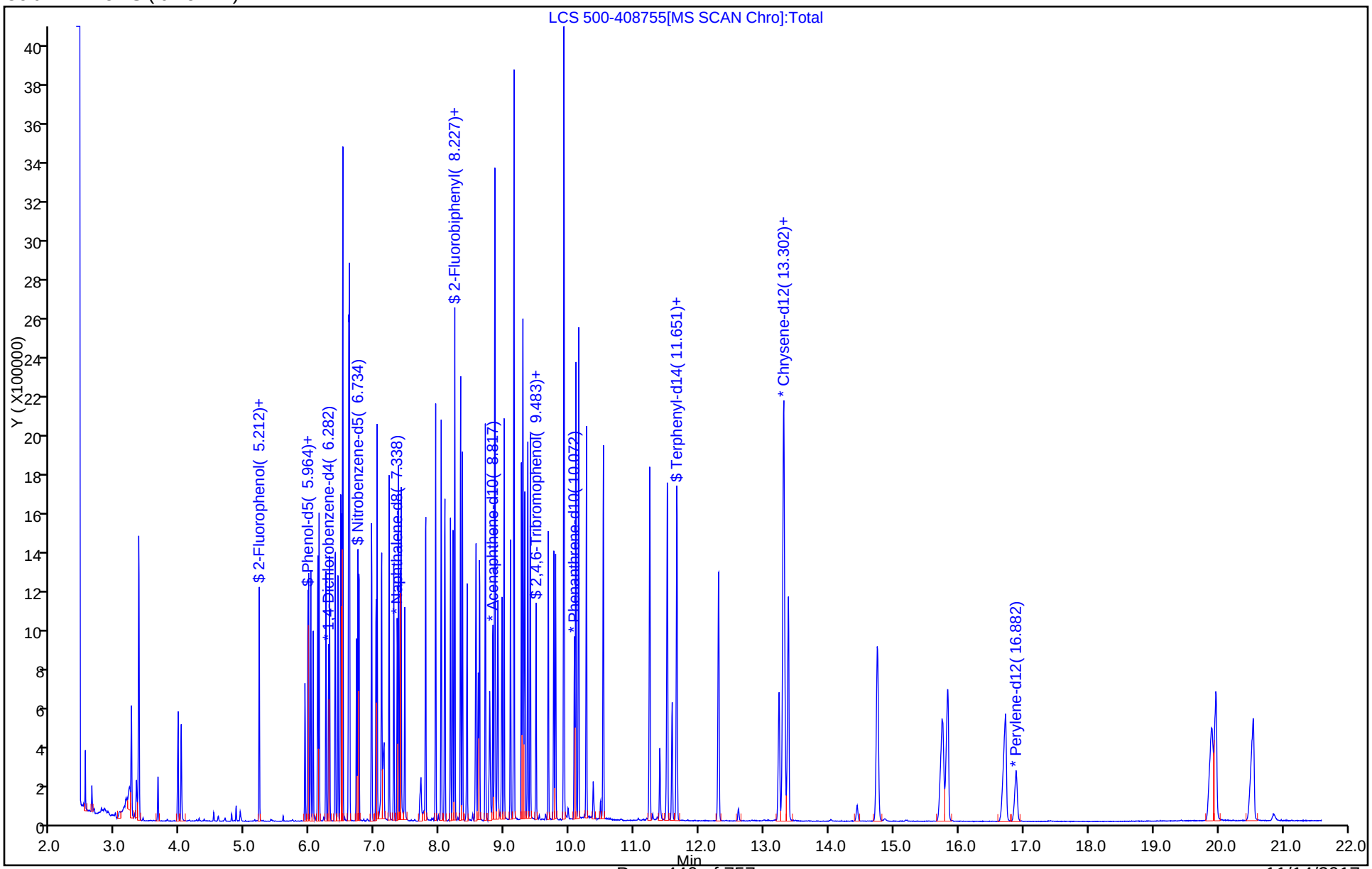
Report Date: 07-Nov-2017 18:47:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\LCS 500-408755.D

Injection Date:	07-Nov-2017 15:54:30	Instrument ID:	CMS01	Operator ID:	AD
Lims ID:	LCS 500-408755/2-A			Worklist Smp#:	15
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\LCS 500-408755.D
Lims ID: LCS 500-408755/2-A
Client ID:
Sample Type: LCS
Inject. Date: 07-Nov-2017 15:54:30 ALS Bottle#: 10 Worklist Smp#: 15
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: LCS 500-408755/2-A
Misc. Info.: 500-0048887-015
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 07-Nov-2017 18:47:04 Calib Date: 05-Nov-2017 14:37:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171105-48841.b\1C1105b.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: swaneyg Date: 07-Nov-2017 18:47:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	10.0	7.79	77.85
$ 8 Phenol-d5	10.0	5.82	58.19
$ 9 Nitrobenzene-d5	10.0	8.53	85.29
$ 10 2-Fluorobiphenyl	10.0	7.94	79.43
$ 11 2,4,6-Tribromophenol	10.0	9.21	92.08
$ 12 Terphenyl-d14	10.0	9.44	94.39

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 500-408755/3-A

Matrix: Water | Lab File ID: LCSD 500-408755.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250.0(mL) | Date Analyzed: 11/07/2017 16:23

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-95-2	Phenol	17.8		4.0	0.54
111-44-4	Bis(2-chloroethyl)ether	25.5		1.6	0.23
95-57-8	2-Chlorophenol	25.1		4.0	0.45
95-48-7	2-Methylphenol	26.1		1.6	0.24
108-60-1	2,2'-oxybis[1-chloropropane]	24.3		1.6	0.30
98-86-2	Acetophenone	24.3		4.0	0.53
621-64-7	N-Nitrosodi-n-propylamine	25.8		0.40	0.12
67-72-1	Hexachloroethane	16.8		4.0	0.48
98-95-3	Nitrobenzene	28.0		0.80	0.36
78-59-1	Isophorone	28.2		1.6	0.30
88-75-5	2-Nitrophenol	26.6		8.0	2.0
105-67-9	2,4-Dimethylphenol	26.6		8.0	1.4
111-91-1	Bis(2-chloroethoxy)methane	29.0		1.6	0.23
120-83-2	2,4-Dichlorophenol	26.2		8.0	2.1
91-20-3	Naphthalene	21.4		0.80	0.25
106-47-8	4-Chloroaniline	26.6		8.0	1.6
87-68-3	Hexachlorobutadiene	15.8		4.0	0.41
105-60-2	Caprolactam	18.2		8.0	1.2
59-50-7	4-Chloro-3-methylphenol	29.7		8.0	1.8
91-57-6	2-Methylnaphthalene	20.9		1.6	0.052
77-47-4	Hexachlorocyclopentadiene	15.0	J	16	5.1
88-06-2	2,4,6-Trichlorophenol	25.5		4.0	0.57
95-95-4	2,4,5-Trichlorophenol	27.1		8.0	2.1
92-52-4	1,1'-Biphenyl	23.6		4.0	0.29
91-58-7	2-Chloronaphthalene	22.3		1.6	0.19
88-74-4	2-Nitroaniline	33.1		4.0	1.0
131-11-3	Dimethyl phthalate	30.1		4.0	0.25
606-20-2	2,6-Dinitrotoluene	30.8		0.80	0.059
208-96-8	Acenaphthylene	24.3		0.80	0.21
99-09-2	3-Nitroaniline	33.4		8.0	1.4
83-32-9	Acenaphthene	26.9		0.80	0.25
51-28-5	2,4-Dinitrophenol	67.0		16	6.9
100-02-7	4-Nitrophenol	43.4		16	5.9
132-64-9	Dibenzofuran	25.4		1.6	0.21

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 500-408755/3-A

Matrix: Water | Lab File ID: LCSD 500-408755.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250.0(mL) | Date Analyzed: 11/07/2017 16:23

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	31.8		0.80	0.20
84-66-2	Diethyl phthalate	30.4		4.0	0.29
86-73-7	Fluorene	27.2		0.80	0.20
7005-72-3	4-Chlorophenyl phenyl ether	24.3		4.0	0.51
100-01-6	4-Nitroaniline	28.1		8.0	1.3
534-52-1	4,6-Dinitro-2-methylphenol	65.3		16	4.7
86-30-6	N-Nitrosodiphenylamine	29.6		1.6	0.30
101-55-3	4-Bromophenyl phenyl ether	24.4		4.0	0.43
118-74-1	Hexachlorobenzene	25.8		0.40	0.064
1912-24-9	Atrazine	26.3		4.0	0.50
87-86-5	Pentachlorophenol	53.8		16	3.2
85-01-8	Phenanthrene	29.8		0.80	0.24
120-12-7	Anthracene	30.7		0.80	0.27
86-74-8	Carbazole	31.2		4.0	0.28
84-74-2	Di-n-butyl phthalate	32.8		4.0	0.58
206-44-0	Fluoranthene	30.7		0.80	0.36
129-00-0	Pyrene	32.1		0.80	0.34
85-68-7	Butyl benzyl phthalate	34.3		1.6	0.38
91-94-1	3,3'-Dichlorobenzidine	28.9		4.0	1.4
56-55-3	Benzo[a]anthracene	29.8		0.16	0.045
218-01-9	Chrysene	31.3		0.16	0.055
117-81-7	Bis(2-ethylhexyl) phthalate	34.9		8.0	1.4
117-84-0	Di-n-octyl phthalate	33.5		8.0	0.84
205-99-2	Benzo[b]fluoranthene	30.6		0.16	0.065
207-08-9	Benzo[k]fluoranthene	28.4		0.16	0.051
50-32-8	Benzo[a]pyrene	29.6		0.16	0.079
193-39-5	Indeno[1,2,3-cd]pyrene	30.9		0.16	0.060
53-70-3	Dibenz(a,h)anthracene	30.4		0.24	0.041
191-24-2	Benzo[g,h,i]perylene	29.8		0.80	0.30
15831-10-4	3 & 4 Methylphenol	25.7		1.6	0.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 500-408755/3-A

Matrix: Water | Lab File ID: LCSD 500-408755.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 11/07/2017 08:30

Sample wt/vol: 250.0(mL) | Date Analyzed: 11/07/2017 16:23

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408793 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol (Surr)	75		27-110
4165-62-2	Phenol-d5 (Surr)	57		20-100
4165-60-0	Nitrobenzene-d5 (Surr)	85		36-120
321-60-8	2-Fluorobiphenyl (Surr)	78		34-110
118-79-6	2,4,6-Tribromophenol (Surr)	91		40-145
1718-51-0	Terphenyl-d14 (Surr)	100		40-145

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\LCSD 500-408755.D
Lims ID: LCSD 500-408755/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 07-Nov-2017 16:23:30 ALS Bottle#: 11 Worklist Smp#: 16
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 500-408755/3-A
Misc. Info.: 500-0048887-016
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 07-Nov-2017 18:48:23 Calib Date: 05-Nov-2017 14:37:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171105-48841.b\1C1105b.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: swaneyg Date: 07-Nov-2017 18:48:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.282	6.282	0.000	97	99360	3.20	3.20	
* 2 Naphthalene-d8	136	7.338	7.343	-0.005	99	373503	3.20	3.20	
* 3 Acenaphthene-d10	164	8.817	8.817	0.000	94	184277	3.20	3.20	
* 4 Phenanthrene-d10	188	10.073	10.072	0.001	99	304359	3.20	3.20	
* 5 Chrysene-d12	240	13.321	13.325	-0.004	99	231521	3.20	3.20	
* 6 Perylene-d12	264	16.883	16.892	-0.009	96	245553	3.20	3.20	
$ 7 2-Fluorophenol	112	5.212	5.212	0.000	95	225277	10.0	7.51	
$ 8 Phenol-d5	99	5.964	5.968	-0.004	93	247745	10.0	5.73	
$ 9 Nitrobenzene-d5	82	6.734	6.734	0.000	90	371913	10.0	8.50	
$ 10 2-Fluorobiphenyl	172	8.227	8.227	0.000	97	601711	10.0	7.75	
$ 11 2,4,6-Tribromophenol	330	9.483	9.483	0.000	90	88171	10.0	9.12	
$ 12 Terphenyl-d14	244	11.651	11.651	0.000	98	590038	10.0	10.0	
13 1,4-Dioxane	88	3.653	3.648	0.004	84	56504	8.00	6.45	
14 N-Nitrosodimethylamine	42	3.962	3.966	-0.004	56	200787	8.00	5.48	
15 Pyridine	79	4.009	4.009	0.000	94	307729	16.0	10.3	
25 Benzaldehyde	77	5.916	5.916	0.000	97	87059	8.00	6.42	
26 Phenol	94	5.973	5.978	-0.005	96	200757	8.00	4.46	
27 Aniline	93	6.007	6.011	-0.005	98	347691	8.00	5.87	
28 Bis(2-chloroethyl)ether	93	6.045	6.044	0.001	95	218687	8.00	6.37	
29 2-Chlorophenol	128	6.116	6.116	0.000	97	239902	8.00	6.29	
30 n-Decane	43	6.135	6.135	0.000	71	332170	8.00	4.63	
31 1,3-Dichlorobenzene	146	6.240	6.239	0.001	98	205485	8.00	4.41	
33 1,4-Dichlorobenzene	146	6.297	6.296	0.001	94	207224	8.00	4.33	
36 Benzyl alcohol	108	6.382	6.387	-0.005	91	171244	8.00	6.38	
37 1,2-Dichlorobenzene	146	6.425	6.430	-0.005	95	201353	8.00	4.40	
38 2-Methylphenol	107	6.468	6.472	-0.004	89	205836	8.00	6.52	
39 2,2'-oxybis[1-chloropropan	45	6.482	6.487	-0.005	89	604675	8.00	6.09	
40 Indene	116	6.501	6.506	-0.005	91	702318	16.0	9.38	
42 3 & 4 Methylphenol	108	6.591	6.591	0.000	97	249600	8.00	6.42	
43 N-Nitrosodi-n-propylamine	70	6.596	6.601	-0.005	96	203278	8.00	6.46	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
44 Acetophenone	105	6.606	6.606	0.000	94	361297	8.00	6.08	
45 Hexachloroethane	117	6.710	6.710	0.000	92	78557	8.00	4.20	
46 Nitrobenzene	77	6.748	6.753	-0.005	94	283685	8.00	7.01	
48 Isophorone	82	6.943	6.948	-0.005	96	493109	8.00	7.04	
50 2-Nitrophenol	139	7.015	7.015	0.000	89	134520	8.00	6.64	
51 2,4-Dimethylphenol	122	7.029	7.034	-0.005	88	231152	8.00	6.64	
52 Bis(2-chloroethoxy)methane	93	7.100	7.100	0.000	98	292655	8.00	7.25	
54 Benzoic acid	122	7.134	7.172	-0.038	93	160544	16.0	10.0	
55 2,4-Dichlorophenol	162	7.214	7.219	-0.005	94	220696	8.00	6.56	
56 1,2,4-Trichlorobenzene	180	7.286	7.290	-0.004	93	169881	8.00	4.53	
58 Naphthalene	128	7.357	7.362	-0.005	99	594694	8.00	5.34	
60 4-Chloroaniline	127	7.386	7.390	-0.004	97	304064	8.00	6.65	
62 2,6-Dichlorophenol	162	7.400	7.400	0.000	96	217971	8.00	6.45	
63 Hexachlorobutadiene	225	7.457	7.457	0.000	96	78377	8.00	3.94	
65 Caprolactam	113	7.704	7.718	-0.014	74	44888	8.00	4.54	
66 4-Chloro-3-methylphenol	107	7.776	7.785	-0.009	96	242154	8.00	7.43	
68 2-Methylnaphthalene	142	7.933	7.932	0.001	100	406968	8.00	5.24	
70 1-Methylnaphthalene	142	8.018	8.018	0.000	100	390660	8.00	5.57	
72 Hexachlorocyclopentadiene	237	8.070	8.070	0.000	94	83014	8.00	3.75	
73 1,2,4,5-Tetrachlorobenzene	216	8.075	8.080	-0.005	95	168908	8.00	4.76	
74 2,4,6-Trichlorophenol	196	8.161	8.165	-0.004	87	151367	8.00	6.38	
76 2,4,5-Trichlorophenol	196	8.199	8.203	-0.004	95	162252	8.00	6.78	
79 1,1'-Biphenyl	154	8.318	8.318	0.000	95	515851	8.00	5.91	
80 2-Chloronaphthalene	162	8.346	8.346	0.000	98	408901	8.00	5.58	
81 2-Nitroaniline	65	8.418	8.422	-0.004	96	161856	8.00	8.29	
82 Dimethyl phthalate	163	8.556	8.560	-0.004	99	557750	8.00	7.53	
83 1,3-Dinitrobenzene	168	8.594	8.593	0.001	82	86016	8.00	8.25	
84 2,6-Dinitrotoluene	165	8.613	8.612	0.001	91	125803	8.00	7.71	
86 Acenaphthylene	152	8.698	8.703	-0.005	98	685721	8.00	6.06	
88 3-Nitroaniline	138	8.765	8.769	-0.004	92	129604	8.00	8.34	
90 Acenaphthene	154	8.846	8.845	0.001	95	474874	8.00	6.72	
91 2,4-Dinitrophenol	184	8.850	8.855	-0.005	89	146430	16.0	16.7	
92 4-Nitrophenol	109	8.893	8.903	-0.010	85	116905	16.0	10.9	
95 2,4-Dinitrotoluene	165	8.955	8.960	-0.005	89	174668	8.00	7.96	
97 Dibenzofuran	168	8.988	8.988	0.000	96	626934	8.00	6.36	
99 2,3,4,6-Tetrachlorophenol	232	9.088	9.088	0.000	97	123358	8.00	6.80	
100 Diethyl phthalate	149	9.140	9.140	0.000	97	537112	8.00	7.61	
101 Hexadecane	57	9.140	9.140	0.000	82	279587	8.00	6.97	
103 4-Chlorophenyl phenyl ethe	204	9.255	9.254	0.001	83	220326	8.00	6.07	
104 Fluorene	166	9.278	9.278	0.000	96	509274	8.00	6.81	
106 4-Nitroaniline	138	9.283	9.288	-0.005	88	99124	8.00	7.02	
109 4,6-Dinitro-2-methylphenol	198	9.307	9.312	-0.005	96	179642	16.0	16.3	
111 N-Nitrosodiphenylamine	169	9.354	9.354	0.000	68	382870	8.00	7.40	
113 1,2-Diphenylhydrazine	77	9.392	9.392	0.000	96	632295	8.00	8.14	
119 4-Bromophenyl phenyl ether	248	9.668	9.673	-0.005	77	119347	8.00	6.09	
122 Hexachlorobenzene	284	9.754	9.759	-0.005	97	128718	8.00	6.44	
123 Atrazine	200	9.782	9.787	-0.005	84	105924	8.00	6.58	
124 n-Octadecane	43	9.911	9.911	0.000	93	422403	8.00	6.76	
125 Pentachlorophenol	266	9.911	9.915	-0.004	93	154215	16.0	13.5	
127 Phenanthrene	178	10.096	10.096	0.000	98	789330	8.00	7.44	
128 Anthracene	178	10.139	10.139	0.000	98	825831	8.00	7.67	
129 Carbazole	167	10.258	10.258	0.000	96	711711	8.00	7.80	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/mL	OnCol Amt ug/mL	Flags
133 Di-n-butyl phthalate	149	10.520	10.519	0.001	99	922687	8.00	8.20	
136 Fluoranthene	202	11.238	11.238	0.000	97	813208	8.00	7.68	
138 Benzidine	184	11.352	11.352	0.000	98	50510	8.00	1.38	7
141 Pyrene	202	11.504	11.509	-0.005	97	822550	8.00	8.03	
147 Butyl benzyl phthalate	149	12.298	12.298	0.000	97	413090	8.00	8.58	
149 3,3'-Dichlorobenzidine	252	13.230	13.235	-0.005	99	226627	8.00	7.22	
150 Bis(2-ethylhexyl) phthalat	149	13.302	13.301	0.001	87	569345	8.00	8.72	
151 Benzo[a]anthracene	228	13.297	13.301	-0.004	98	692729	8.00	7.44	
152 Chrysene	228	13.373	13.378	-0.005	98	661061	8.00	7.83	
155 Di-n-octyl phthalate	149	14.747	14.747	0.000	95	1004169	8.00	8.38	
157 Benzo[b]fluoranthene	252	15.751	15.755	-0.004	97	680585	8.00	7.65	
158 Benzo[k]fluoranthene	252	15.832	15.836	-0.004	99	638992	8.00	7.09	
160 Benzo[a]pyrene	252	16.721	16.725	-0.004	96	661569	8.00	7.41	
163 Indeno[1,2,3-cd]pyrene	276	19.902	19.916	-0.014	96	746590	8.00	7.71	
164 Dibenz(a,h)anthracene	278	19.969	19.978	-0.009	96	612150	8.00	7.61	
165 Benzo[g,h,i]perylene	276	20.544	20.549	-0.005	95	630550	8.00	7.44	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

SM_HIVOLISTD_00158 Amount Added: 10.00 Units: uL Run Reagent

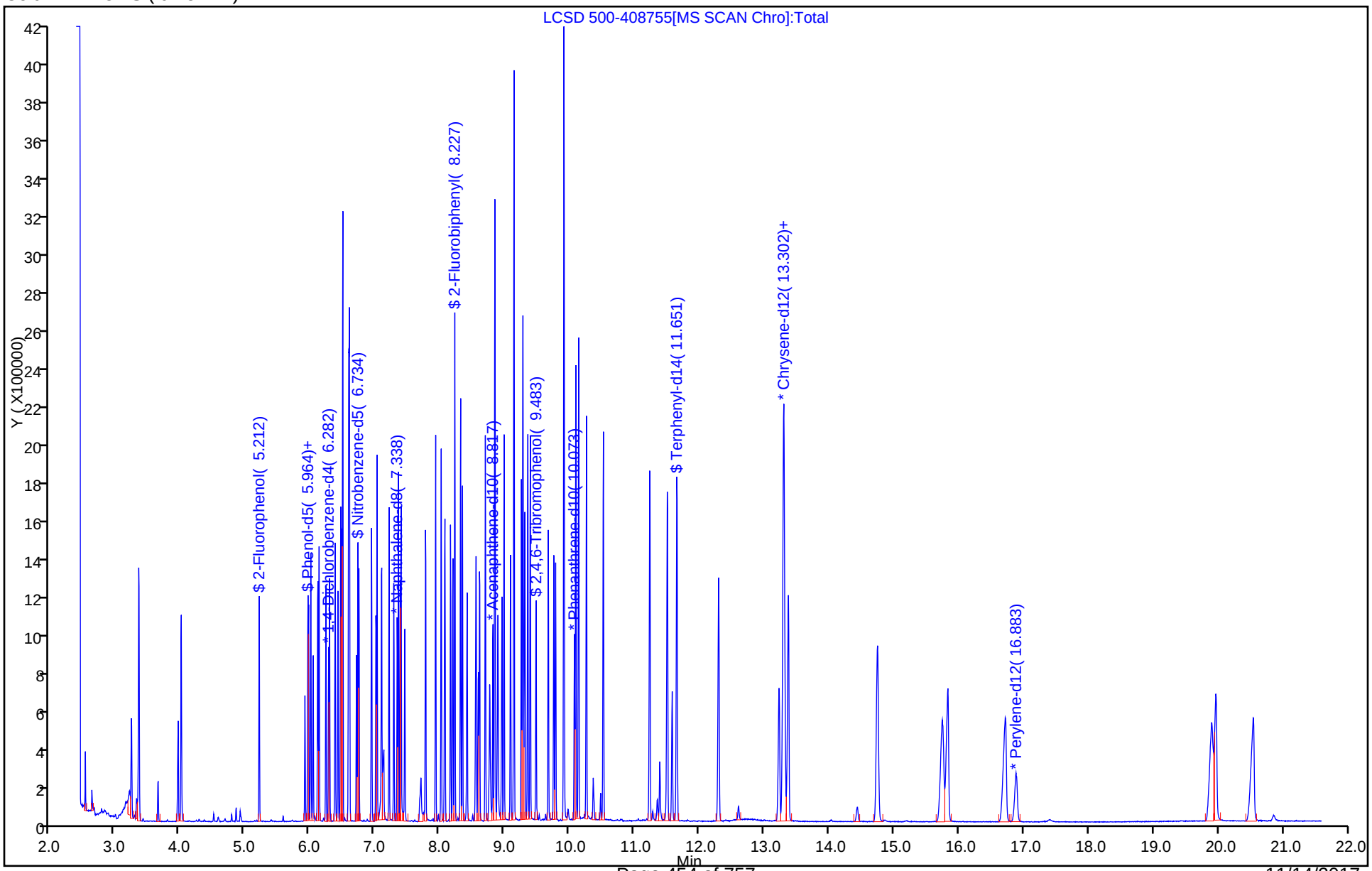
Report Date: 07-Nov-2017 18:48:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\LCSD 500-408755.D

Injection Date:	07-Nov-2017 16:23:30	Instrument ID:	CMS01	Operator ID:	AD
Lims ID:	LCSD 500-408755/3-A			Worklist Smp#:	16
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	1-LVI8270	Limit Group:	MSBNA_8270D_ICAL		

Column: ZB5MS (0.25 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\LCSD 500-408755.D
Lims ID: LCSD 500-408755/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 07-Nov-2017 16:23:30 ALS Bottle#: 11 Worklist Smp#: 16
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 500-408755/3-A
Misc. Info.: 500-0048887-016
Operator ID: AD Instrument ID: CMS01

Method: \\ChromNA\Chicago\ChromData\CMS01\20171107-48887.b\1-LVI8270.m
Limit Group: MSBNA_8270D_ICAL
Method Label: TestAmerica Chicago GC/MS SVOA
Last Update: 07-Nov-2017 18:48:23 Calib Date: 05-Nov-2017 14:37:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\CMS01\20171105-48841.b\1C1105b.D

Column 1 : ZB5MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: swaneyg Date: 07-Nov-2017 18:48:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	10.0	7.51	75.13
$ 8 Phenol-d5	10.0	5.73	57.30
$ 9 Nitrobenzene-d5	10.0	8.50	85.00
$ 10 2-Fluorobiphenyl	10.0	7.75	77.51
$ 11 2,4,6-Tribromophenol	10.0	9.12	91.21
$ 12 Terphenyl-d14	10.0	10.0	100.45

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: CMS01 Start Date: 10/26/2017 16:17

Analysis Batch Number: 407173 End Date: 10/26/2017 22:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-407173/1		10/26/2017 16:17	1	1D1026D.D	ZB5MS 0.25(mm)
IC 500-407173/2		10/26/2017 16:56	1	L1STD2.D	ZB5MS 0.25(mm)
IC 500-407173/3		10/26/2017 17:26	1	L1STD02.D	ZB5MS 0.25(mm)
IC 500-407173/4		10/26/2017 17:56	1	L1STD05.D	ZB5MS 0.25(mm)
IC 500-407173/5		10/26/2017 18:26	1	L1STD1.D	ZB5MS 0.25(mm)
IC 500-407173/6		10/26/2017 18:56	1	L1STD5.D	ZB5MS 0.25(mm)
IC 500-407173/7		10/26/2017 19:25	1	L1STD10.D	ZB5MS 0.25(mm)
IC 500-407173/8		10/26/2017 19:55	1	L1STD20.D	ZB5MS 0.25(mm)
ICIS 500-407173/9		10/26/2017 20:25	1	L1STD40.D	ZB5MS 0.25(mm)
IC 500-407173/10		10/26/2017 20:55	1	L1STD50.D	ZB5MS 0.25(mm)
IC 500-407173/11		10/26/2017 21:25	1	L1STD60.D	ZB5MS 0.25(mm)
IC 500-407173/12		10/26/2017 21:55	1	L1STD70.D	ZB5MS 0.25(mm)
ICV 500-407173/13		10/26/2017 22:25	1	L1ICV.D	ZB5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: CMS01 Start Date: 11/07/2017 11:53

Analysis Batch Number: 408793 End Date: 11/07/2017 22:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 500-408793/1		11/07/2017 11:53	1	1D1107.D	ZB5MS 0.25(mm)
CCVIS 500-408793/2		11/07/2017 12:22	1	1C1107.D	ZB5MS 0.25(mm)
ZZZZZ		11/07/2017 12:59	1		ZB5MS 0.25(mm)
ZZZZZ		11/07/2017 13:57	1		ZB5MS 0.25(mm)
ZZZZZ		11/07/2017 14:26	1		ZB5MS 0.25(mm)
ZZZZZ		11/07/2017 14:56	1		ZB5MS 0.25(mm)
ZZZZZ		11/07/2017 15:25	1		ZB5MS 0.25(mm)
LCS 500-408755/2-A		11/07/2017 15:54	1	LCS 500-408755.D	ZB5MS 0.25(mm)
LCSD 500-408755/3-A		11/07/2017 16:23	1	LCSD 500-408755.D	ZB5MS 0.25(mm)
ZZZZZ		11/07/2017 17:22	1		ZB5MS 0.25(mm)
MB 500-408755/1-A		11/07/2017 17:52	1	MB 500-408755.D	ZB5MS 0.25(mm)
500-136788-1		11/07/2017 18:50	10	500-136788-E-1-B.D	ZB5MS 0.25(mm)
ZZZZZ		11/07/2017 19:51	1		ZB5MS 0.25(mm)
ZZZZZ		11/07/2017 20:20	1		ZB5MS 0.25(mm)
ZZZZZ		11/07/2017 22:17	1		ZB5MS 0.25(mm)
ZZZZZ		11/07/2017 22:47	1		ZB5MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Batch Number: 408755 Batch Start Date: 11/07/17 08:30 Batch Analyst: Corona, Dayamara X

Batch Method: 3510C Batch End Date: 11/07/17 09:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	EXBNAL1SPW 00190
MB 500-408755/1		3510C, 8270D		6 SU	250.0 mL	1.0 mL	2 SU	12 SU	
LCS 500-408755/2		3510C, 8270D		6 SU	250.0 mL	1.0 mL	2 SU	12 SU	200 uL
LCSD 500-408755/3		3510C, 8270D		6 SU	250.0 mL	1.0 mL	2 SU	12 SU	200 uL
500-136788-E-1	CRMS-SW-04-110317	3510C, 8270D	T	7 SU	250 mL	1.0 mL	2 SU	12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXBNASURTS 00042					
MB 500-408755/1		3510C, 8270D		100 uL					
LCS 500-408755/2		3510C, 8270D		100 uL					
LCSD 500-408755/3		3510C, 8270D		100 uL					
500-136788-E-1	CRMS-SW-04-110317	3510C, 8270D	T	100 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Batch Number: 408755 Batch Start Date: 11/07/17 08:30 Batch Analyst: Corona, Dayamara X

Batch Method: 3510C Batch End Date: 11/07/17 09:45

Batch Notes	
Acid used for pH adjustment	H2SO4
Acid Used for pH Adjustment ID	4428400
Base used for pH adjustment	10 N NaOH
Base Used to Adjust pH ID	4070184
Batch Comment	Glass wool:4379465
Concentration End Time	1015
Concentration Start Time	0915
Analyst ID - Concentration	DAK
Final Concentrator Volume	1.0 mL
N-evap ID	C-0655
N-evap Temperature	30.5 Degrees C
Na2SO4 ID	4501614
Prep Solvent ID	4507245
Prep Solvent Name	DCM
Person's name who did the prep	BSO/DC/NG
Analyst ID - Spike Analyst	BSO
Analyst ID - Spike Witness Analyst	DC/NG
Syringe ID	A83, A85
Uncorrected N-evap Temperature	30.0 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low

GC Column (2): ZB-5 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX2 #	DCBP2 #
CRMS-SW-04-110317	500-136788-1	65	107
	MB 500-408564/1-A	73	52
	LCS 500-408564/2-A	77	53
	LCSD 500-408564/3-A	72	50

	QC LIMITS
TCX = Tetrachloro-m-xylene	30-120
DCBP = DCB Decachlorobiphenyl	30-140

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 103017_091.D

Lab ID: LCS 500-408564/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	4.00	3.35	84	56-120	
PCB-1260	4.00	2.93	73	53-137	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 103017_092.D

Lab ID: LCSD 500-408564/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	4.00	3.29	82	2	20	56-120	
PCB-1260	4.00	2.68	67	9	20	53-137	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: MB 500-408564/1-A

Matrix: Water Date Extracted: 11/06/2017 08:38

Lab File ID:(1) Lab File ID:(2) 103017_090.D

Date Analyzed:(1) Date Analyzed:(2) 11/06/2017 22:09

Instrument ID:(1) Instrument ID:(2) INST31-32

GC Column:(1) ID: GC Column:(2) ZB-5 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 500-408564/2-A		11/06/2017 22:25
	LCSD 500-408564/3-A		11/06/2017 22:41
CRMS-SW-04-110317	500-136788-1		11/07/2017 01:40

FORM VIII
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Sample No.: ICIS 500-407585/3 Date Analyzed: 10/30/2017 12:34

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 103017_003.D Heated Purge: (Y/N) N

Calibration ID: 25675

		BNB					
		HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
INITIAL CALIBRATION MID-POINT		46172	0.93				
UPPER LIMIT		92344	1.43				
LOWER LIMIT		23086	0.43				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 500-407585/11		42603	0.92				
CCVIS 500-408581/1		46600	0.93				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD HEIGHT AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Sample No.: CCVIS 500-408581/1 Date Analyzed: 11/06/2017 10:32

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 103017_047.D Heated Purge: (Y/N) N

Calibration ID: 25691

		BNB					
		HEIGHT #	RT #	HEIGHT #	RT #	HEIGHT #	RT #
12/24 HOUR STD		46600	0.93				
UPPER LIMIT		93200	1.43				
LOWER LIMIT		23300	0.43				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 500-408581/43		45558	0.93				
MB 500-408564/1-A		44966	0.93				
LCS 500-408564/2-A		45880	0.93				
LCSD 500-408564/3-A		47604	0.93				
500-136788-1	CRMS-SW-04-110317	35412	0.93				

BNB = 1-Bromo-2-nitrobenzene
BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 500-408564/2-A

Instrument ID (1): Instrument ID (2): INST31-32

Date Analyzed (1): Date Analyzed (2): 11/06/2017 22:25

GC Column (1): ID: GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.45	3.44	3.46	3.21	3.35	
		2	3.61	3.60	3.62	4.04		
		3	3.84	3.82	3.84	3.18		
		4	3.92	3.90	3.92	3.28		
		5	4.37	4.36	4.38	3.06		
PCB-1260	1	1	5.22	5.19	5.25	2.71	2.93	
		2	5.39	5.36	5.42	2.78		
		3	5.59	5.56	5.62	2.97		
		4	5.87	5.84	5.90	2.91		
		5	6.26	6.23	6.29	3.28		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 500-408564/3-A

Instrument ID (1): Instrument ID (2): INST31-32

Date Analyzed (1): Date Analyzed (2): 11/06/2017 22:41

GC Column (1): ID: GC Column (2): ZB-5 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.46	3.44	3.46	3.09	3.29	
		2	3.61	3.60	3.62	3.90		
		3	3.83	3.82	3.84	3.17		
		4	3.92	3.90	3.92	3.23		
		5	4.37	4.36	4.38	3.06		
PCB-1260	1	1	5.22	5.19	5.25	2.51	2.68	
		2	5.39	5.36	5.42	2.60		
		3	5.59	5.56	5.62	2.74		
		4	5.87	5.84	5.90	2.67		
		5	6.26	6.23	6.29	2.89		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: CRMS-SW-04-110317 | Lab Sample ID: 500-136788-1

Matrix: Water | Lab File ID: 103017_103.D

Analysis Method: 8082A | Date Collected: 11/03/2017 15:35

Extraction Method: 3510C | Date Extracted: 11/06/2017 08:38

Sample wt/vol: 250(mL) | Date Analyzed: 11/07/2017 01:40

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408581 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	<0.40		0.40	0.067
11104-28-2	PCB-1221	<0.40		0.40	0.20
11141-16-5	PCB-1232	<0.40		0.40	0.20
53469-21-9	PCB-1242	<0.40		0.40	0.20
12672-29-6	PCB-1248	<0.40		0.40	0.20
11097-69-1	PCB-1254	<0.40		0.40	0.20
11096-82-5	PCB-1260	<0.40		0.40	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	65		30-120
2051-24-3	DCB Decachlorobiphenyl	107		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_103.D
Lims ID: 500-136788-E-1-A
Client ID: CRMS-SW-04-110317
Sample Type: Client
Inject. Date: 07-Nov-2017 01:40:13 ALS Bottle#: 0 Worklist Smp#: 57
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048859-057
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 10-Nov-2017 15:13:47 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 07-Nov-2017 01:40:13
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 07-Nov-2017 01:56:23
Process Host: XAWRK028

First Level Reviewer: hamnerb Date: 10-Nov-2017 15:13:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene						s
1	0.928	0.944	-0.016	35412H	0.0200	
2	1.428	1.424	0.004	149873H	0.0200	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.700	2.700	0.000	15344H	0.005225	
2	2.588	2.584	0.004	64260H	0.004636	
					RPD = 11.93	
11 PCB-1232						
1		2.916			ND	
1		3.068				
1		3.448				
1		3.828				
1		3.908				
2		2.920				
2		3.112				
2		3.484				
2		3.852				
2		3.960				
6 PCB-1221						
1		2.924			ND	
1		3.024				
1		3.076				
2		2.928				
2		3.064				
2		3.120				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
14 PCB-1242						
1		3.448			ND	
1		3.608				
1		3.828				
1		3.972				
1		4.364				
2		3.484				
2		3.852				
2		3.960				
2		4.416				
2		4.632				
1 PCB-1016						
1		3.452			ND	
1		3.608				
1		3.832				
1		3.912				
1		4.368				
2		3.116				
2		3.856				
2		3.964				
2		4.048				
2		4.420				
7 PCB-1248						
1		3.824			ND	
1		4.268				
1		4.360				
1		4.596				
1		4.720				
2		3.848				
2		4.324				
2		4.600				
2		4.412				
2		4.800				
13 PCB-1254						
1		4.608			ND	
1		4.780				
1		5.048				
1		5.232				
1		5.592				
2		4.640				
2		4.776				
2		5.104				
2		5.260				
2		5.496				

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
15 PCB-1260						
1		5.220			ND	
1		5.392				
1		5.588				
1		5.868				
1		6.260				
2		5.240				
2		5.380				
2		5.492				
2		5.892				
2		6.312				
9 PCB-1262						
1		5.700			ND	
1		5.864				
1		6.052				
1		6.348				
2		5.888				
2		6.056				
2		6.300				
2		6.692				
16 PCB-1268						
1		6.312			ND	
1		6.348				
1		6.540				
1		6.596				
1		6.680				
2		6.300				
2		6.332				
2		6.508				
2		6.572				
2		6.692				
8 1260 Res 1						
1		6.508			ND	
2		4.232				
2 1260 Res 2						
1		6.620			ND	
2		4.400				
5 1260 Res 3						
1		6.660			ND	
2		4.928				
$ 10 DCB Decachlorobiphenyl						
1	7.136	7.096	0.040	21978H	0.008544	
2	7.100	7.048	0.052	50631H	0.006894	
					RPD = 21.37	
S 12 Polychlorinated biphenyls, Total						
1		0.000			ND	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

H - Response Measured by Height

Reagents:

IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

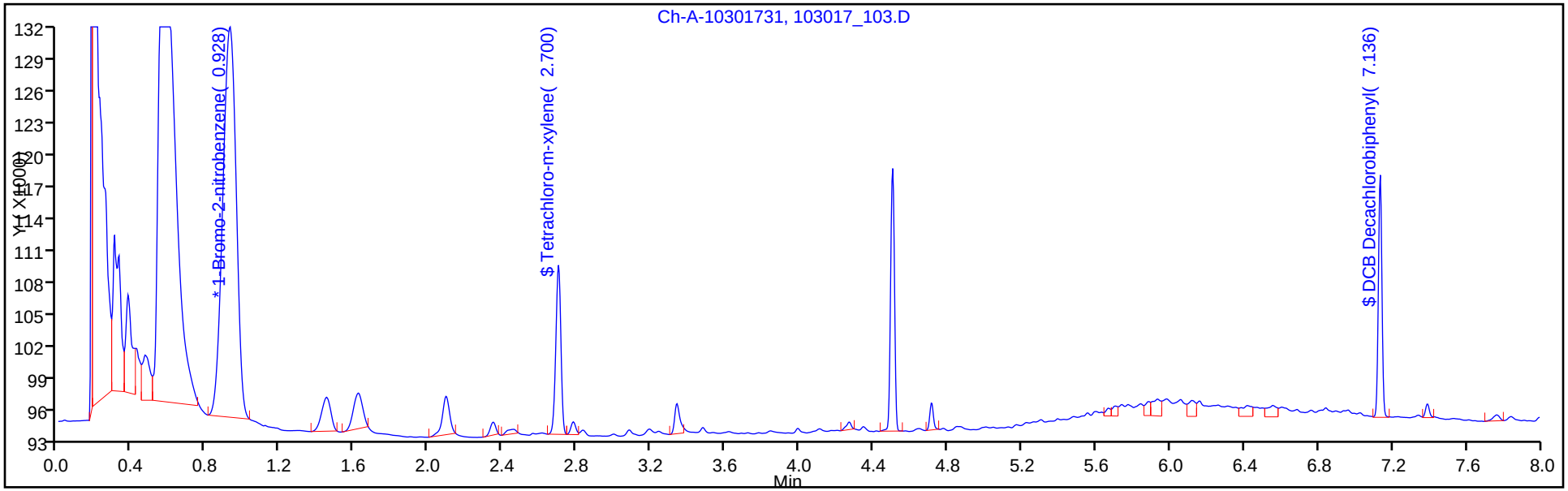
Report Date: 10-Nov-2017 15:13:47 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

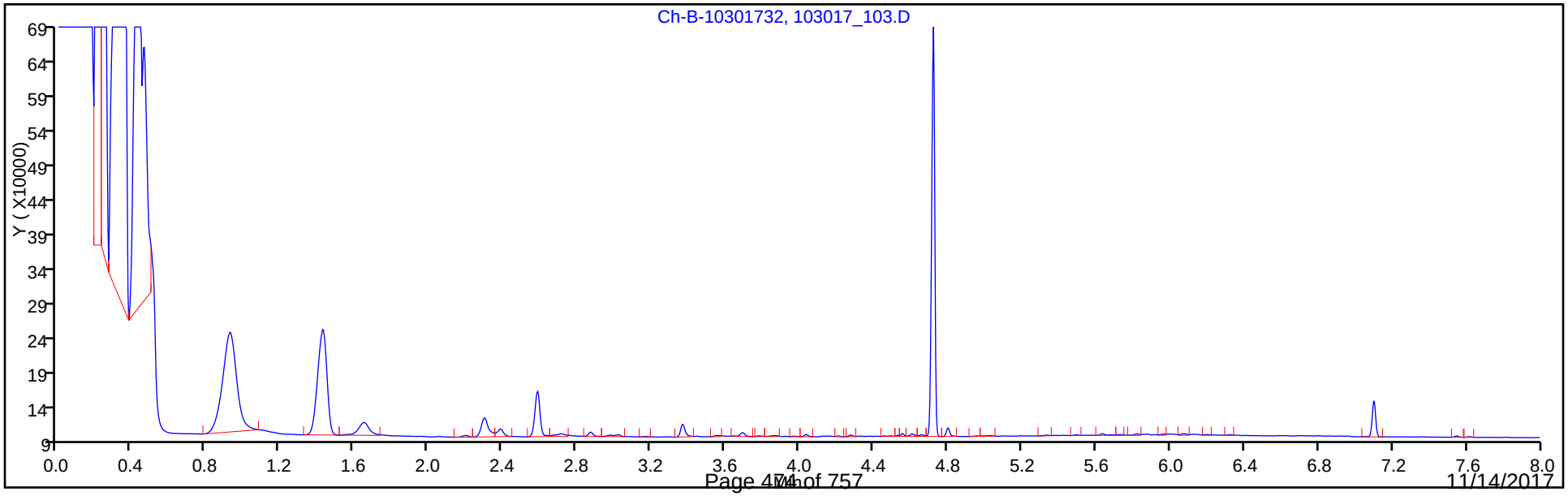
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_103.D

Injection Date:	07-Nov-2017 01:40:13	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	500-136788-E-1-A	Lab Sample ID:	500-136788-1	Worklist Smp#:	57
Client ID:	CRMS-SW-04-110317				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Recovery Report

Data File:	\\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_103.D				
Lims ID:	500-136788-E-1-A				
Client ID:	CRMS-SW-04-110317				
Sample Type:	Client				
Inject. Date:	07-Nov-2017 01:40:13	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: dc= Name: 103017,pcb31,500-0048859-057				
Operator ID:	hamnerb	Instrument ID:	INST31-32		
Method:	\\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\8082LVIIS_31-32.m				
Limit Group:	GC_PCB_8082A_IS				
Last Update:	10-Nov-2017 15:13:47	Calib Date:	30-Oct-2017 14:27:52		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D				
Column 1 :	ZB-5 (0.50 mm)		Det: Ch-A-04091547 07-Nov-2017 01:40:13		
Column 2 :	ZB-CLP-Pesticide 2 (0.32 mm)		Det: Ch-B-04091548 07-Nov-2017 01:56:23		
Process Host:	XAWRK028				
First Level Reviewer: hamnerb		Date:	10-Nov-2017 15:13:47		

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.005225	65.31
$ 10 DCB Decachlorobiphenyl	0.008000	0.008544	106.80

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.004636	57.95
$ 10 DCB Decachlorobiphenyl	0.008000	0.006894	86.18

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 12:01 Calibration End Date: 10/30/2017 13:23 Calibration ID: 25675

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/6	103017_006.D
Level 2	IC 500-407585/5	103017_005.D
Level 3	IC 500-407585/4	103017_004.D
Level 4	ICIS 500-407585/3	103017_003.D
Level 5	IC 500-407585/2	103017_002.D
Level 6	IC 500-407585/1	103017_001.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0448 0.0404	0.0476	0.0420	0.0407	0.0420	Ave		0.0429				6.5		20.0			
PCB-1016 Peak 2	0.0302 0.0302	0.0327	0.0297	0.0320	0.0305	Ave		0.0309				3.9		20.0			
PCB-1016 Peak 3	0.1158 0.1072	0.1163	0.1104	0.1145	0.1194	Ave		0.1139				3.9		20.0			
PCB-1016 Peak 4	0.0549 0.0468	0.0550	0.0515	0.0509	0.0528	Ave		0.0520				5.9		20.0			
PCB-1016 Peak 5	0.0489 0.0446	0.0498	0.0448	0.0448	0.0467	Ave		0.0466				4.8		20.0			
PCB-1260 Peak 1	0.0933 0.0887	0.0932	0.0842	0.0858	0.0897	Ave		0.0892				4.2		20.0			
PCB-1260 Peak 2	0.1097 0.1083	0.1131	0.1002	0.1022	0.1112	Ave		0.1075				4.8		20.0			
PCB-1260 Peak 3	0.1323 0.1401	0.1355	0.1249	0.1314	0.1419	Ave		0.1344				4.6		20.0			
PCB-1260 Peak 4	0.0744 0.0688	0.0726	0.0657	0.0652	0.0712	Ave		0.0697				5.4		20.0			
PCB-1260 Peak 5	0.0920 0.0875	0.0869	0.0753	0.0775	0.0851	Ave		0.0840				7.6		20.0			
Tetrachloro-m-xylene	1.5798 1.7194	1.4684	1.6619	1.7607	1.7616	Ave		1.6586				7.0		20.0			
DCB Decachlorobiphenyl	1.4856 1.7162	1.3295	1.2924	1.3725	1.5206	Ave		1.4528				10.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 12:01 Calibration End Date: 10/30/2017 13:23 Calibration ID: 25675

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/6	103017_006.D
Level 2	IC 500-407585/5	103017_005.D
Level 3	IC 500-407585/4	103017_004.D
Level 4	ICIS 500-407585/3	103017_003.D
Level 5	IC 500-407585/2	103017_002.D
Level 6	IC 500-407585/1	103017_001.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	799 18026	2009	4622	9401	13806	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1016 Peak 2	BNB	Ave	539 13465	1382	3266	7395	10048	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1016 Peak 3	BNB	Ave	2065 47857	4910	12147	26430	39280	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1016 Peak 4	BNB	Ave	979 20894	2320	5674	11759	17373	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1016 Peak 5	BNB	Ave	871 19919	2101	4932	10348	15365	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1260 Peak 1	BNB	Ave	1663 39617	3936	9271	19815	29524	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1260 Peak 2	BNB	Ave	1955 48352	4776	11031	23599	36602	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1260 Peak 3	BNB	Ave	2359 62563	5722	13749	30337	46700	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1260 Peak 4	BNB	Ave	1326 30738	3065	7228	15054	23427	0.00800 0.200	0.0200	0.0500	0.100	0.150
PCB-1260 Peak 5	BNB	Ave	1640 39058	3668	8285	17895	28010	0.00800 0.200	0.0200	0.0500	0.100	0.150
Tetrachloro-m-xylene	BNB	Ave	2816 61421	4959	14635	32518	46373	0.000800 0.0160	0.00160	0.00400	0.00800	0.0120
DCB Decachlorobiphenyl	BNB	Ave	2648 61305	4490	11381	25348	40029	0.000800 0.0160	0.00160	0.00400	0.00800	0.0120

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_001.D
Lims ID: IC AR16606
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 30-Oct-2017 12:01:55 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-001
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:27 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 12:01:55
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 12:18:04
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 12:43:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.928	0.920	0.008	44653H	0.0200	0.0200	
2	1.424	1.424	0.000	483831H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.692	2.688	0.004	61421H	0.0160	0.0166	
2	2.584	2.584	0.000	828668H	0.0160	0.0185	
						RPD = 11.02	
1 PCB-1016							
1	3.448	3.444	0.004	18026H	0.2000	0.1882	
1	3.608	3.604	0.004	13465H	0.2000	0.1952	
1	3.828	3.824	0.004	47857H	0.2000	0.1882	
1	3.908	3.904	0.004	20894H	0.2000	0.1800	
1	4.364	4.360	0.004	19919H	0.2000	0.1915	
2	3.116	3.116	0.000	123023H	0.2000	0.1791	
2	3.856	3.856	0.000	555941H	0.2000	0.1995	
2	3.964	3.964	0.000	238825H	0.2000	0.1833	
2	4.048	4.048	0.000	114958H	0.2000	0.1680	
2	4.420	4.416	0.004	207183H	0.2000	0.1880	
						RPD = 2.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.216	5.212	0.004	39617H	0.2000	0.1990	
1	5.388	5.384	0.004	48352H	0.2000	0.2015	
1	5.584	5.580	0.004	62563H	0.2000	0.2085	
1	5.864	5.860	0.004	30738H	0.2000	0.1977	
1	6.256	6.252	0.004	39058H	0.2000	0.2082	
2	5.240	5.236	0.004	442237H	0.2000	0.1965	
2	5.380	5.380	0.000	260125H	0.2000	0.1960	
2	5.492	5.488	0.004	406848H	0.2000	0.2083	
2	5.892	5.892	0.000	312387H	0.2000	0.1826	
2	6.312	6.308	0.004	464588H	0.2000	0.1963	
						RPD = 3.53	
$ 10 DCB Decachlorobiphenyl							
1	7.124	7.120	0.004	61305H	0.0160	0.0189	
2	7.100	7.096	0.004	420861H	0.0160	0.0178	
						RPD = 6.27	
S 12 Polychlorinated biphenyls, Total							
1						0.1886	

Reagents:

AR1660-6 LVI_00004	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

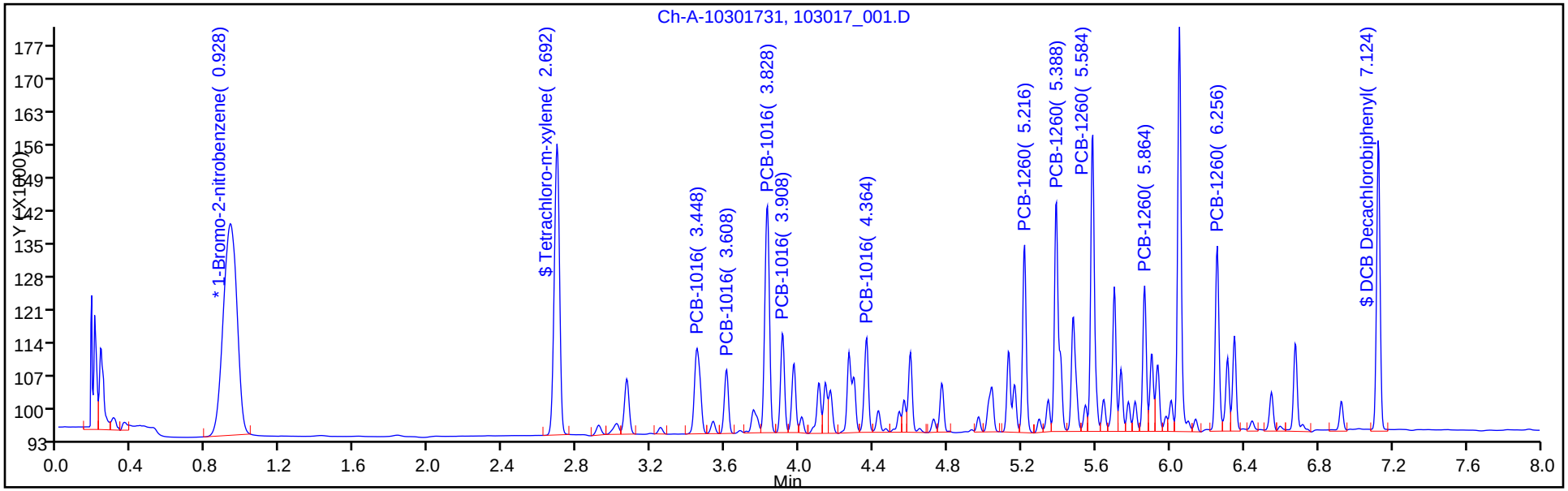
Report Date: 30-Oct-2017 16:56:28 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

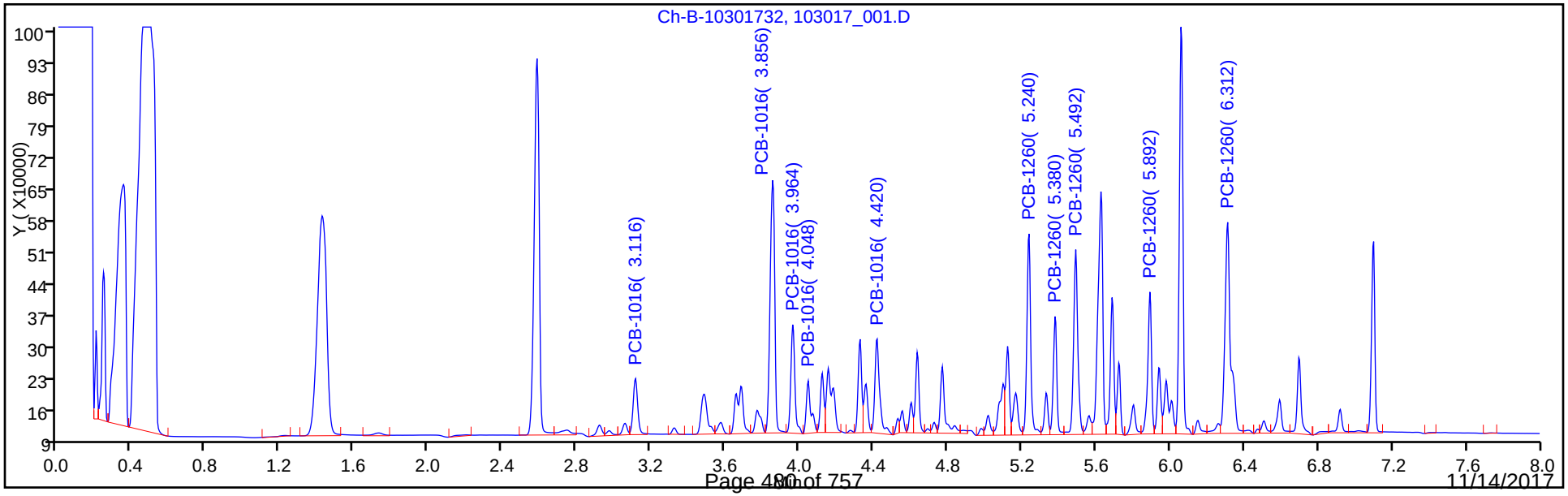
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_001.D

Injection Date:	30-Oct-2017 12:01:55	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR16606			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_002.D
Lims ID: IC AR16605
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Oct-2017 12:18:04 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-002
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:29 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 12:18:04
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 12:34:14
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 14:50:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.924	0.920	0.004	43874H	0.0200	0.0200	
2	1.424	1.424	0.000	484554H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.688	2.688	0.000	46373H	0.0120	0.0127	
2	2.584	2.584	0.000	571152H	0.0120	0.0127	
						RPD = 0.01	
1 PCB-1016							
1	3.444	3.444	0.000	13806H	0.1500	0.1467	
1	3.604	3.604	0.000	10048H	0.1500	0.1483	
1	3.824	3.824	0.000	39280H	0.1500	0.1572	
1	3.908	3.904	0.004	17373H	0.1500	0.1523	
1	4.360	4.360	0.000	15365H	0.1500	0.1503	
2	3.116	3.116	0.000	94984H	0.1500	0.1381	
2	3.856	3.856	0.000	444022H	0.1500	0.1591	
2	3.964	3.964	0.000	195498H	0.1500	0.1498	
2	4.048	4.048	0.000	93186H	0.1500	0.1360	
2	4.416	4.416	0.000	162676H	0.1500	0.1474	
						RPD = 3.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.212	5.212	0.000	29524H	0.1500	0.1509	
1	5.384	5.384	0.000	36602H	0.1500	0.1553	
1	5.580	5.580	0.000	46700H	0.1500	0.1584	
1	5.860	5.860	0.000	23427H	0.1500	0.1533	
1	6.252	6.252	0.000	28010H	0.1500	0.1519	
2	5.240	5.236	0.004	349223H	0.1500	0.1549	
2	5.380	5.380	0.000	220375H	0.1500	0.1658	
2	5.492	5.488	0.004	308222H	0.1500	0.1576	
2	5.892	5.892	0.000	280613H	0.1500	0.1638	
2	6.312	6.308	0.004	402971H	0.1500	0.1700	
						RPD = 5.33	
$ 10 DCB Decachlorobiphenyl							
1	7.124	7.120	0.004	40029H	0.0120	0.0126	
2	7.096	7.096	0.000	340589H	0.0120	0.0143	
						RPD = 13.26	
S 12 Polychlorinated biphenyls, Total							
1						0.1509	

Reagents:

AR1660-5 LVI_00003	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

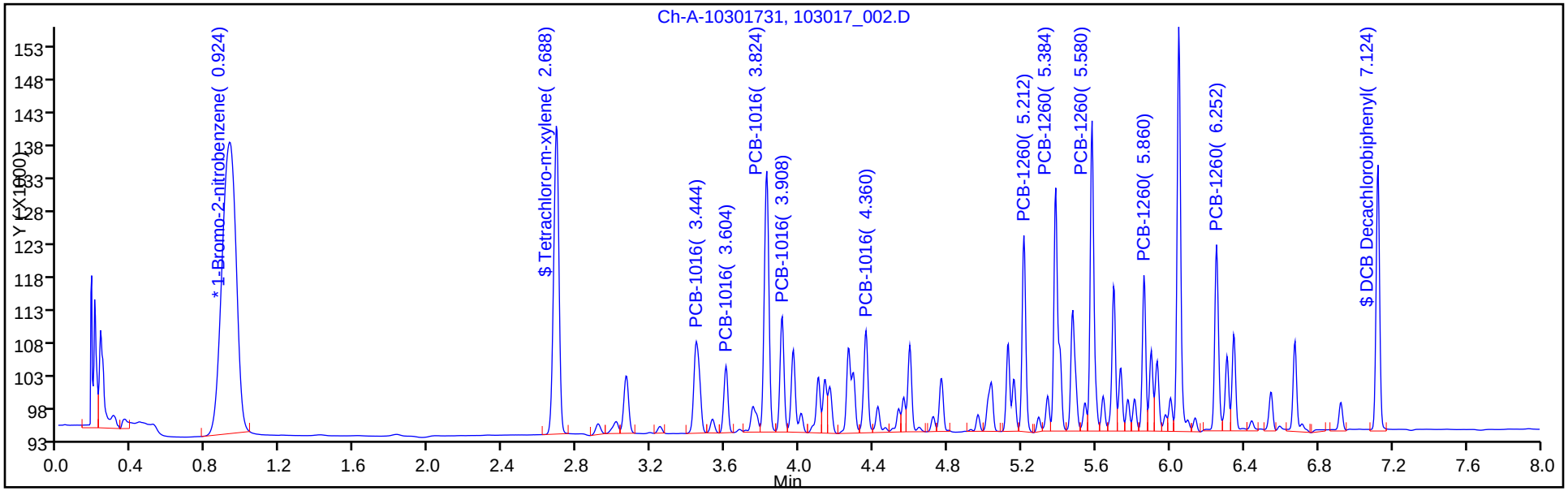
Report Date: 30-Oct-2017 16:56:29 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

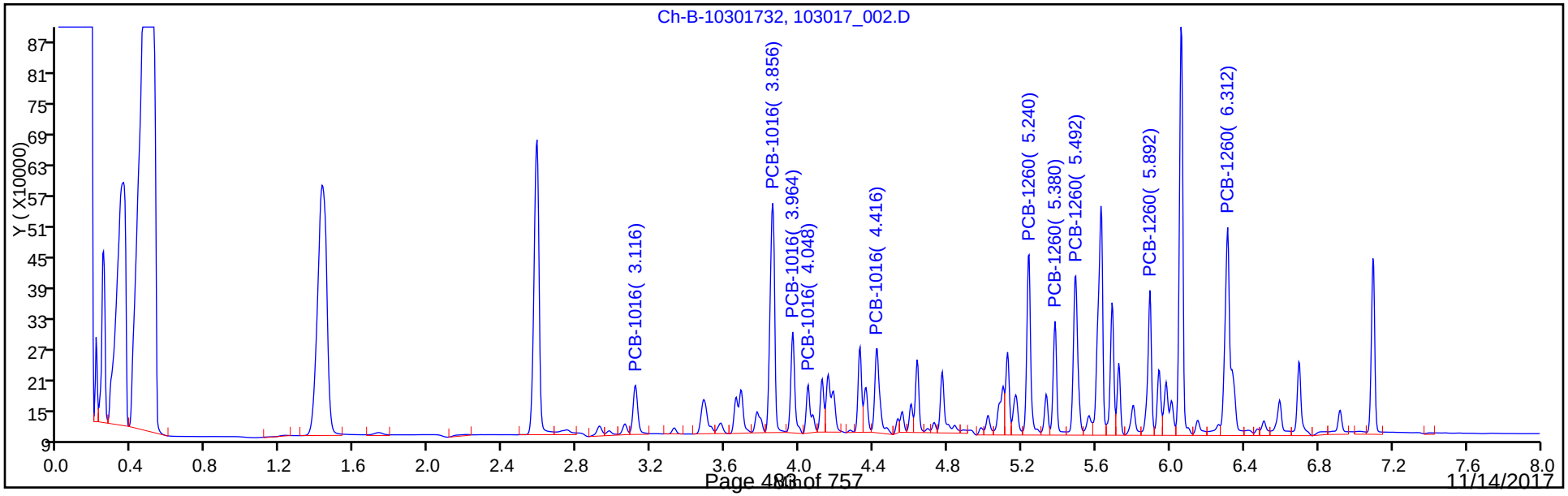
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_002.D

Injection Date:	30-Oct-2017 12:18:04	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR16605			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_003.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 30-Oct-2017 12:34:14 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-003
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:30 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 12:34:14
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 12:50:25
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 13:43:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.928	0.928	0.000	46172H	0.0200	0.0200	
2	1.424	1.424	0.000	506461H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.688	2.688	0.000	32518H	0.008000	0.008492	
2	2.584	2.584	0.000	414134H	0.008000	0.008842	
						RPD = 4.04	
1 PCB-1016							
1	3.444	3.444	0.000	9401H	0.1000	0.0949	
1	3.604	3.604	0.000	7395H	0.1000	0.1037	
1	3.824	3.824	0.000	26430H	0.1000	0.1005	
1	3.904	3.904	0.000	11759H	0.1000	0.0980	
1	4.360	4.360	0.000	10348H	0.1000	0.0962	
2	3.116	3.116	0.000	68876H	0.1000	0.0958	
2	3.856	3.856	0.000	288488H	0.1000	0.0989	
2	3.964	3.964	0.000	127739H	0.1000	0.0937	
2	4.048	4.048	0.000	69099H	0.1000	0.0965	
2	4.416	4.416	0.000	109235H	0.1000	0.0947	
						RPD = 2.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.212	5.212	0.000	19815H	0.1000	0.0963	
1	5.384	5.384	0.000	23599H	0.1000	0.0951	
1	5.580	5.580	0.000	30337H	0.1000	0.0978	
1	5.860	5.860	0.000	15054H	0.1000	0.0936	
1	6.252	6.252	0.000	17895H	0.1000	0.0922	
2	5.236	5.236	0.000	213755H	0.1000	0.0907	
2	5.380	5.380	0.000	155326H	0.1000	0.1118	
2	5.488	5.488	0.000	182282H	0.1000	0.0892	
2	5.892	5.892	0.000	158983H	0.1000	0.0888	
2	6.308	6.308	0.000	213706H	0.1000	0.0863	
						RPD = 1.77	
$ 10 DCB Decachlorobiphenyl							
1	7.120	7.120	0.000	25348H	0.008000	0.007558	
2	7.096	7.096	0.000	206357H	0.008000	0.008315	
						RPD = 9.54	

Reagents:

1660-LVI-4_00007	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

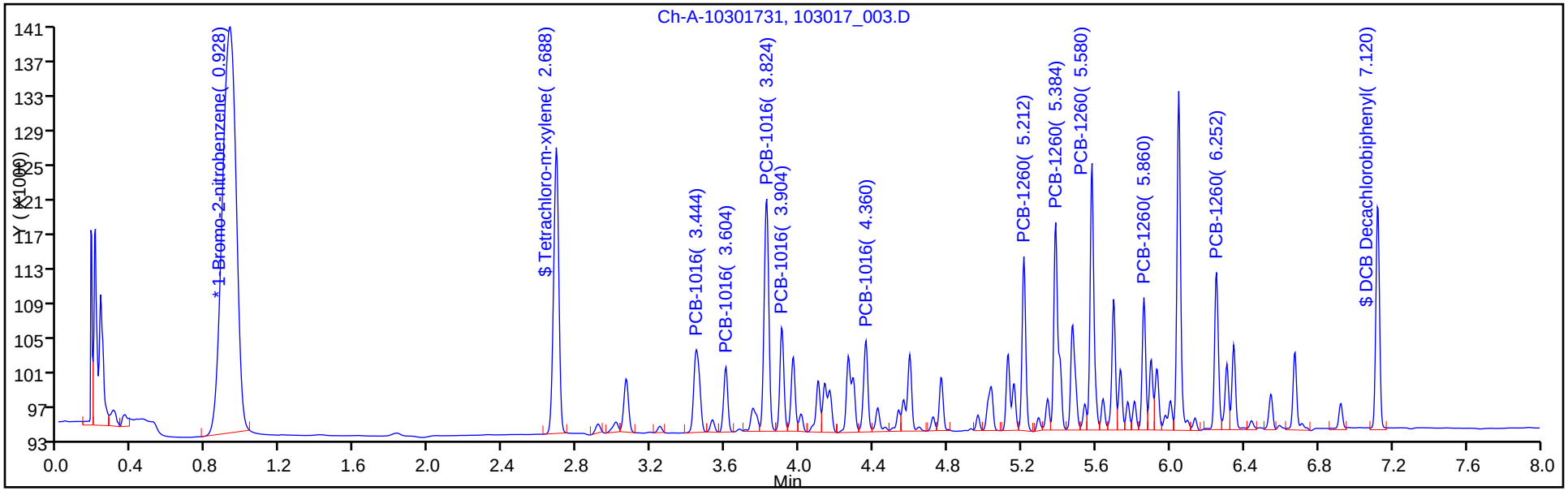
Report Date: 30-Oct-2017 16:56:31 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

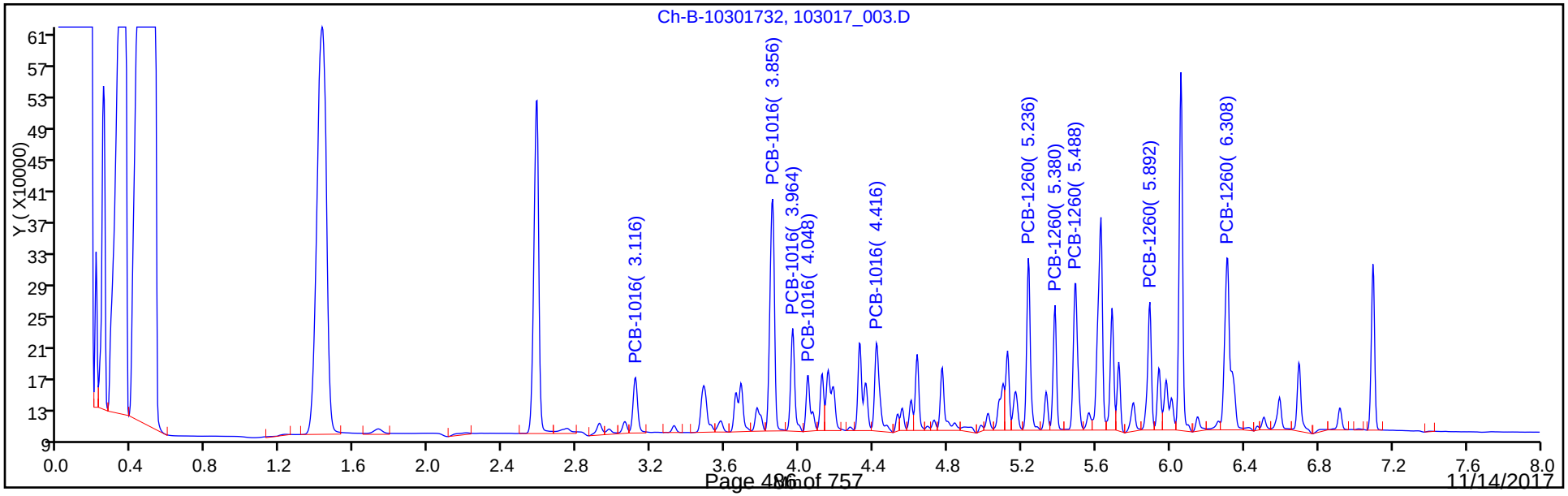
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_003.D

Injection Date:	30-Oct-2017 12:34:14	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	ICIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_004.D
Lims ID: IC AR16603
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Oct-2017 12:50:25 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-004
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:32 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 12:50:25
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 13:06:50
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 14:31:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	44030H	0.0200	0.0200	
2	1.428	1.428	0.000	530211H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.688	2.688	0.000	14635H	0.004000	0.004008	
2	2.580	2.580	0.000	180801H	0.004000	0.003687	
						RPD = 8.33	
1 PCB-1016							
1	3.444	3.444	0.000	4622H	0.0500	0.0489	
1	3.604	3.604	0.000	3266H	0.0500	0.0480	
1	3.824	3.824	0.000	12147H	0.0500	0.0484	
1	3.908	3.908	0.000	5674H	0.0500	0.0496	
1	4.360	4.360	0.000	4932H	0.0500	0.0481	
2	3.116	3.116	0.000	38212H	0.0500	0.0508	
2	3.856	3.856	0.000	147289H	0.0500	0.0482	
2	3.964	3.964	0.000	72160H	0.0500	0.0505	
2	4.048	4.048	0.000	36910H	0.0500	0.0492	
2	4.416	4.416	0.000	63435H	0.0500	0.0525	
						RPD = 3.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.212	5.212	0.000	9271H	0.0500	0.0472	
1	5.384	5.384	0.000	11031H	0.0500	0.0466	
1	5.580	5.580	0.000	13749H	0.0500	0.0465	
1	5.860	5.860	0.000	7228H	0.0500	0.0471	
1	6.252	6.252	0.000	8285H	0.0500	0.0448	
2	5.236	5.236	0.000	123419H	0.0500	0.0500	
2	5.380	5.380	0.000	70983H	0.0500	0.0488	
2	5.488	5.488	0.000	105148H	0.0500	0.0491	
2	5.892	5.892	0.000	93144H	0.0500	0.0497	
2	6.308	6.308	0.000	124015H	0.0500	0.0478	
						RPD = 5.53	
$ 10 DCB Decachlorobiphenyl							
1	7.124	7.124	0.000	11381H	0.004000	0.003558	
2	7.096	7.096	0.000	99562H	0.004000	0.003832	
						RPD = 7.40	
S 12 Polychlorinated biphenyls, Total							
1						0.0486	

Reagents:

AR1660-3 LVI_00004	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

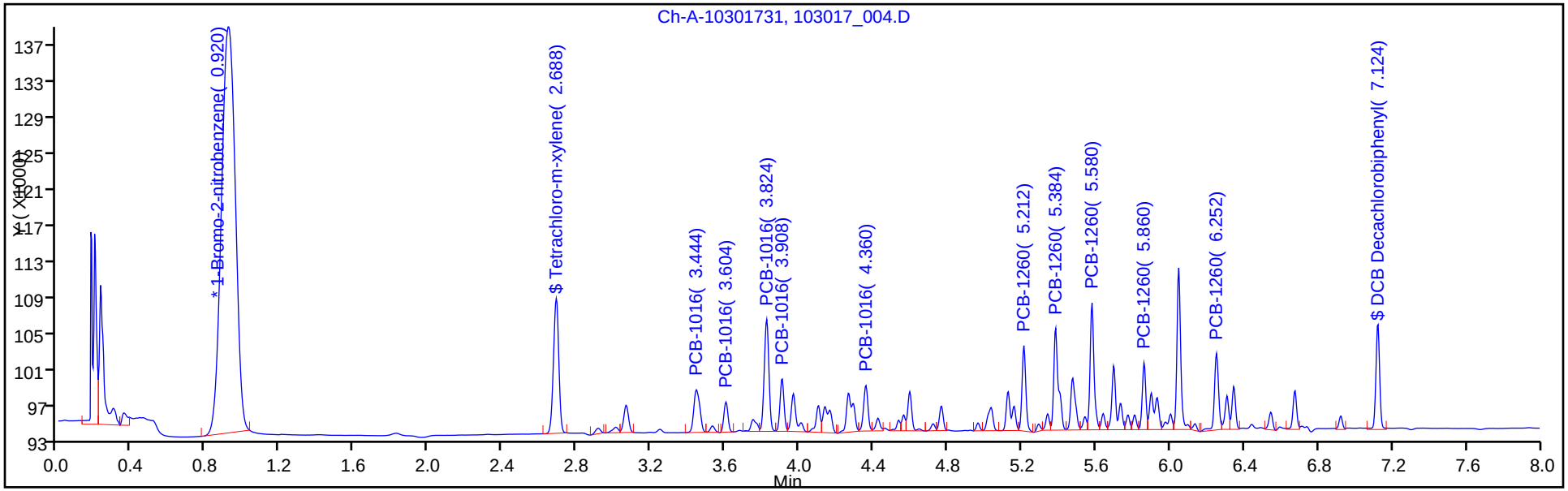
Report Date: 30-Oct-2017 16:56:33 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

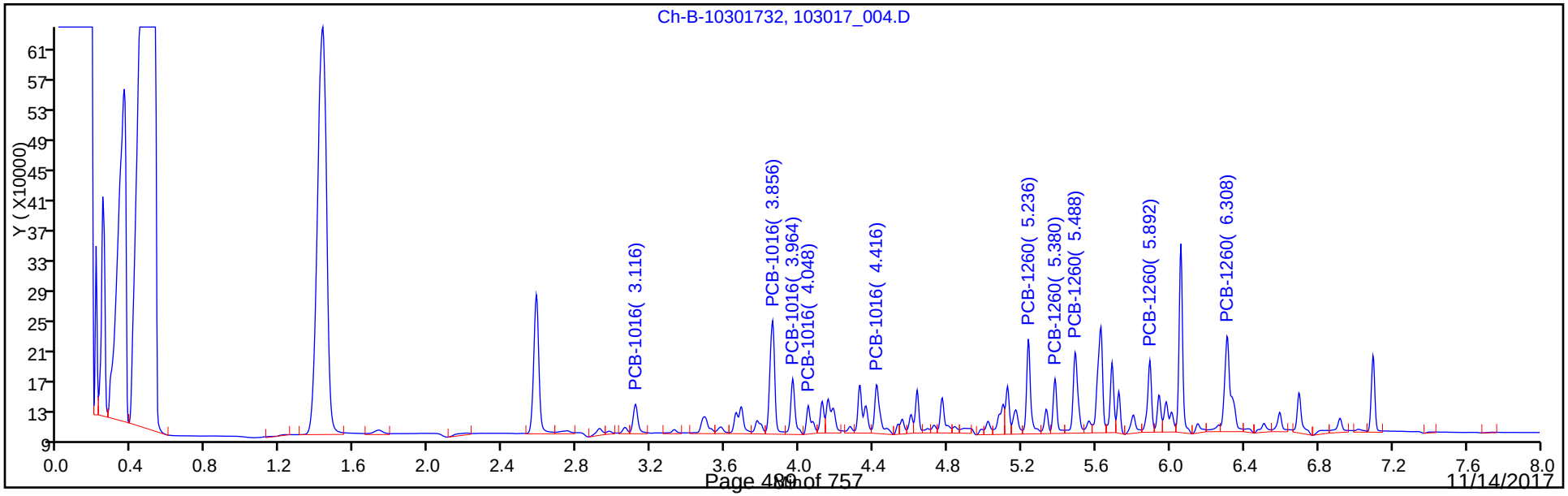
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_004.D

Injection Date:	30-Oct-2017 12:50:25	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR16603			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_005.D
Lims ID: IC AR16602
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Oct-2017 13:06:50 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-005
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:34 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 13:06:50
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 13:23:00
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 14:13:03

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.916	0.920	-0.004	42214H	0.0200	0.0200	
2	1.428	1.428	0.000	509262H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.688	2.688	0.000	4959H	0.001600	0.001416	
2	2.580	2.580	0.000	62168H	0.001600	0.001320	
						RPD = 7.05	
1 PCB-1016							
1	3.444	3.444	0.000	2009H	0.0200	0.0222	
1	3.604	3.604	0.000	1382H	0.0200	0.0212	
1	3.824	3.824	0.000	4910H	0.0200	0.0204	
1	3.908	3.908	0.000	2320H	0.0200	0.0211	
1	4.360	4.360	0.000	2101H	0.0200	0.0214	
2	3.116	3.116	0.000	16461H	0.0200	0.0228	
2	3.852	3.856	-0.004	60678H	0.0200	0.0207	
2	3.964	3.964	0.000	32292H	0.0200	0.0235	
2	4.048	4.048	0.000	16215H	0.0200	0.0225	
2	4.416	4.416	0.000	28106H	0.0200	0.0242	
						RPD = 6.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.212	5.212	0.000	3936H	0.0200	0.0209	
1	5.384	5.384	0.000	4776H	0.0200	0.0211	
1	5.580	5.580	0.000	5722H	0.0200	0.0202	
1	5.860	5.860	0.000	3065H	0.0200	0.0208	
1	6.252	6.252	0.000	3668H	0.0200	0.0207	
2	5.236	5.236	0.000	52412H	0.0200	0.0221	
2	5.380	5.380	0.000	28575H	0.0200	0.0205	
2	5.488	5.488	0.000	44875H	0.0200	0.0218	
2	5.892	5.892	0.000	40086H	0.0200	0.0223	
2	6.308	6.308	0.000	52438H	0.0200	0.0210	
						RPD = 3.83	
$ 10 DCB Decachlorobiphenyl							
1	7.124	7.124	0.000	4490H	0.001600	0.001464	
2	7.096	7.096	0.000	33051H	0.001600	0.001324	
						RPD = 10.03	
S 12 Polychlorinated biphenyls, Total							
1						0.0213	

Reagents:

AR1660-2 LVI_00003	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

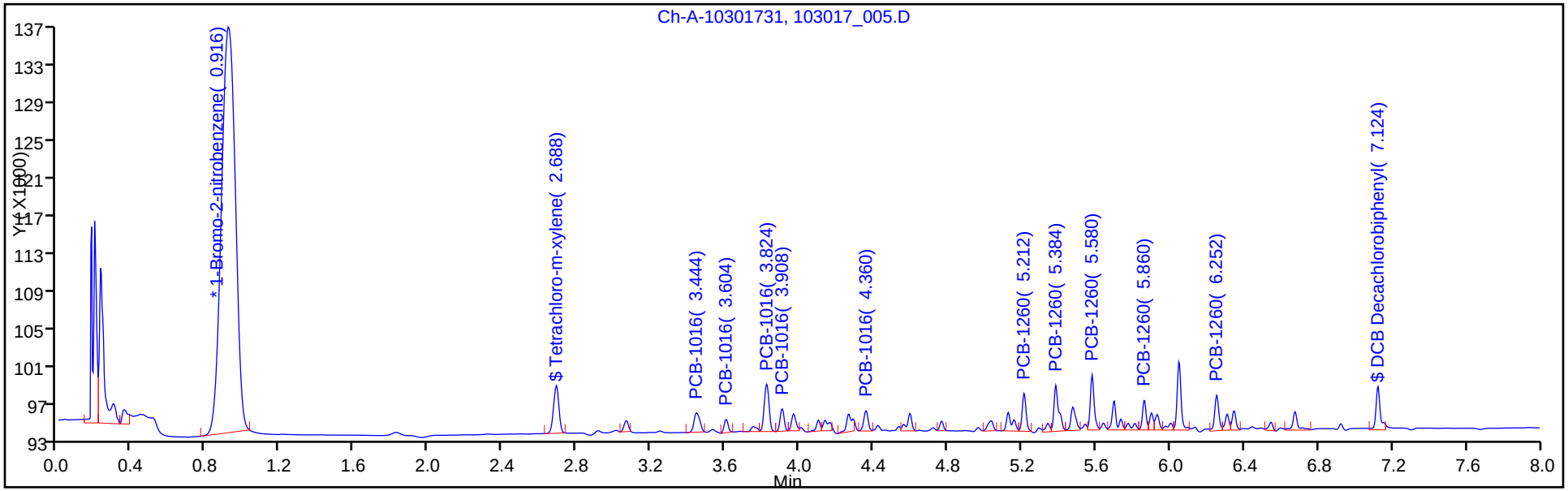
Report Date: 30-Oct-2017 16:56:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

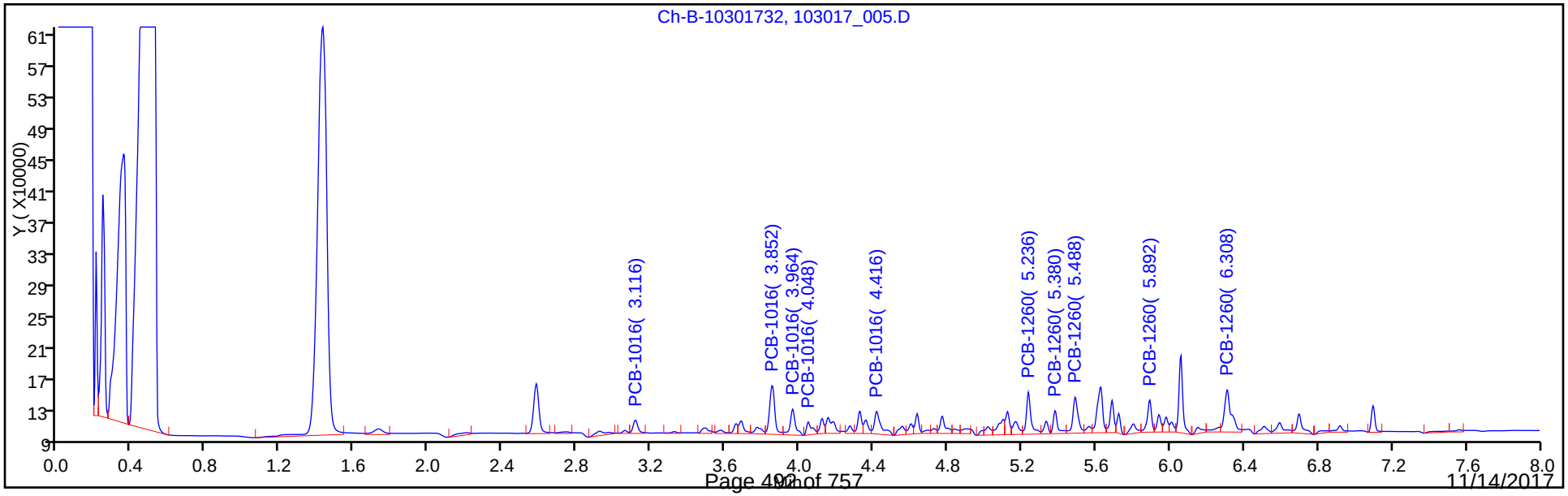
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_005.D

Injection Date:	30-Oct-2017 13:06:50	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR16602			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_006.D
Lims ID: IC AR16601
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Oct-2017 13:23:00 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-006
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub1

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:36 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 13:23:00
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 13:39:07
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 14:06:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	44562H	0.0200	0.0200	
2	1.424	1.428	-0.004	505752H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.688	2.688	0.000	2816H	0.000800	0.000762	
2	2.580	2.580	0.000	34729H	0.000800	0.000743	
						RPD = 2.58	
1 PCB-1016							M
1	3.444	3.444	0.000	799H	0.008000	0.008357	
1	3.608	3.604	0.004	539H	0.008000	0.007830	M
1	3.824	3.824	0.000	2065H	0.008000	0.008135	
1	3.908	3.908	0.000	979H	0.008000	0.008451	
1	4.360	4.360	0.000	871H	0.008000	0.008390	
2	3.116	3.116	0.000	6156H	0.008000	0.008575	M
2	3.852	3.856	-0.004	22216H	0.008000	0.007627	M
2	3.964	3.964	0.000	10457H	0.008000	0.007678	M
2	4.048	4.048	0.000	6736H	0.008000	0.009420	M
2	4.416	4.416	0.000	8010H	0.008000	0.006952	M
						RPD = 2.24	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.212	5.212	0.000	1663H	0.008000	0.008370	
1	5.384	5.384	0.000	1955H	0.008000	0.008165	
1	5.580	5.580	0.000	2359H	0.008000	0.007879	
1	5.860	5.860	0.000	1326H	0.008000	0.008544	
1	6.252	6.252	0.000	1640H	0.008000	0.008758	
2	5.236	5.236	0.000	18273H	0.008000	0.007766	
2	5.384	5.380	0.004	8869H	0.008000	0.006391	
2	5.488	5.488	0.000	15400H	0.008000	0.007542	
2	5.892	5.892	0.000	14304H	0.008000	0.008000	
2	6.308	6.308	0.000	20066H	0.008000	0.008111	
						RPD = 9.82	
$ 10 DCB Decachlorobiphenyl							
1	7.124	7.124	0.000	2648H	0.000800	0.000818	
2	7.096	7.096	0.000	17250H	0.000800	0.000696	
						RPD = 16.12	
S 12 Polychlorinated biphenyls, Total							
1						0.008233	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660-1 LVI_00003	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

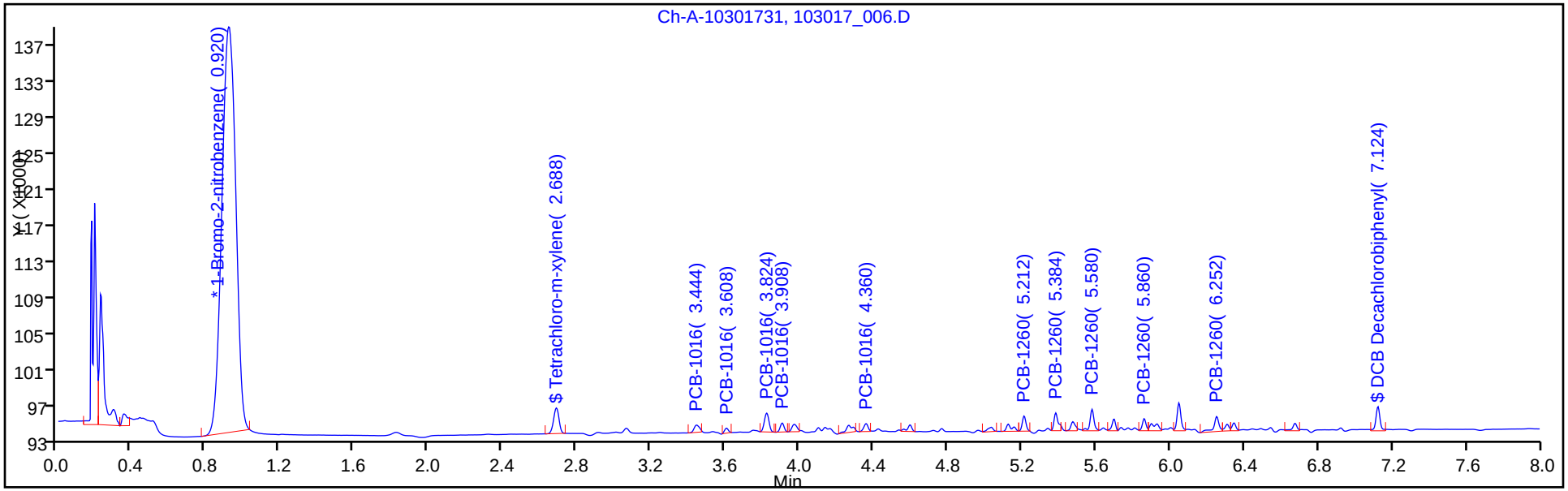
Report Date: 30-Oct-2017 16:56:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

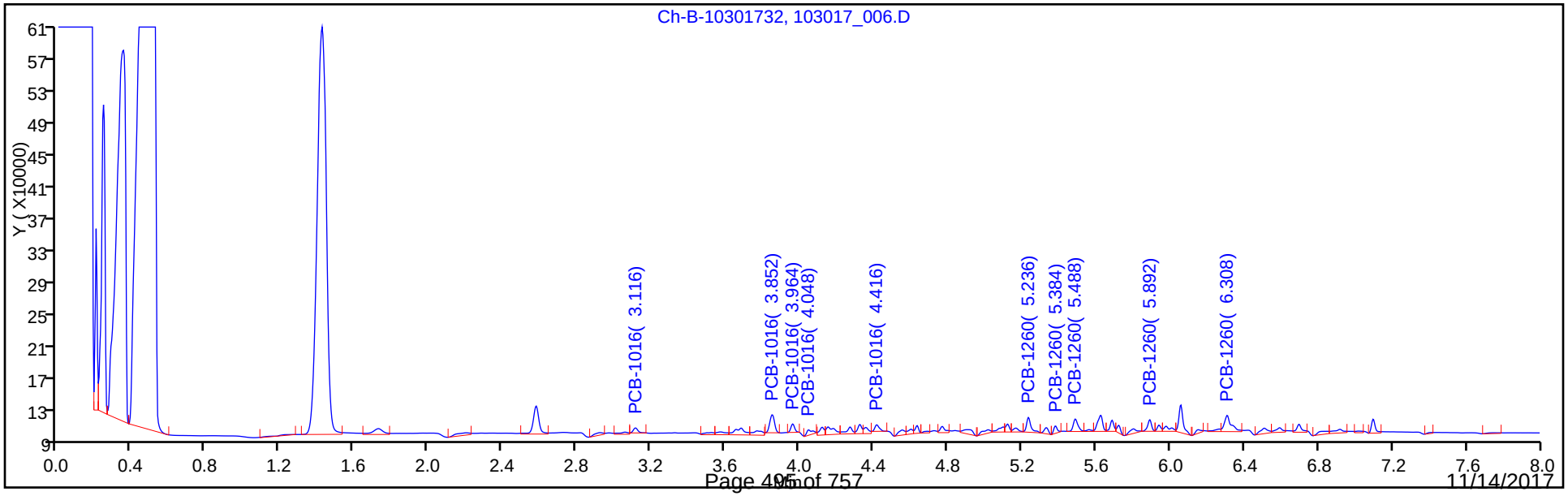
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_006.D

Injection Date:	30-Oct-2017 13:23:00	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR16601			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



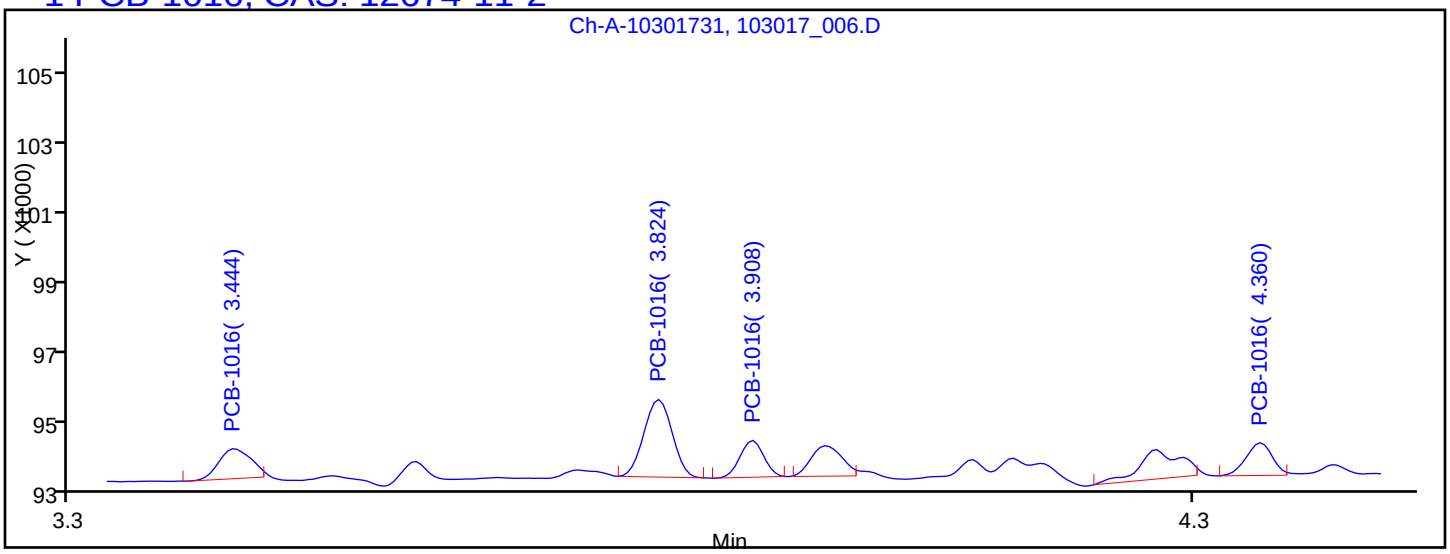
Report Date: 30-Oct-2017 16:56:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_006.D

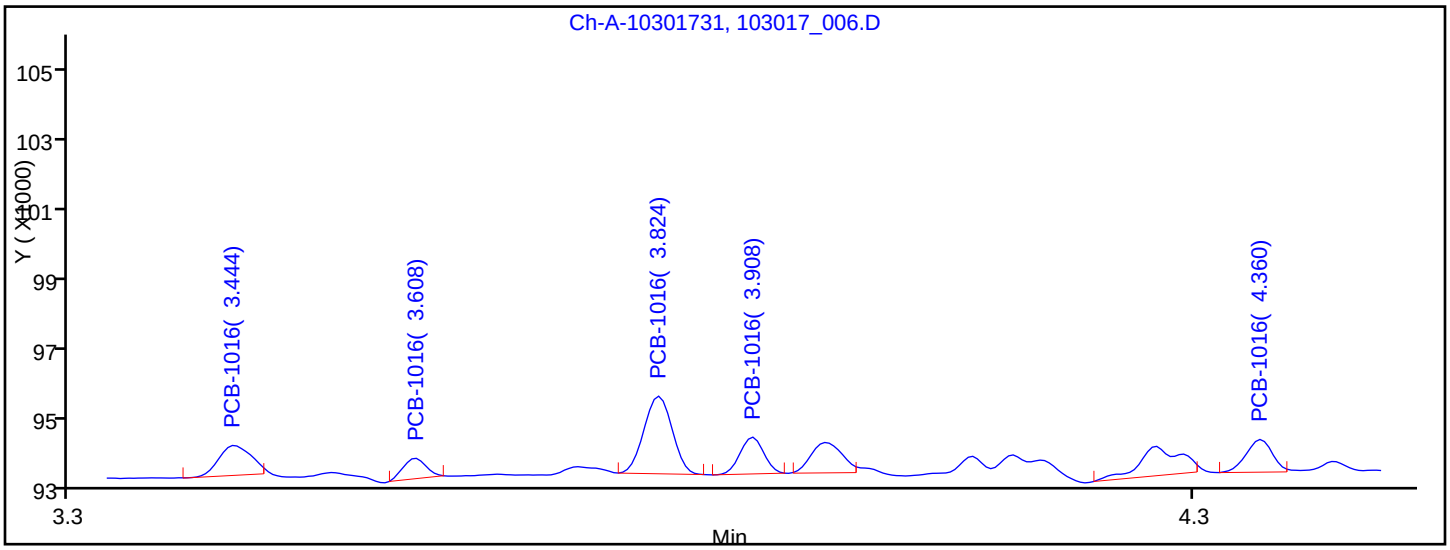
Injection Date:	30-Oct-2017 13:23:00	Instrument ID:	INST31-32		
Lims ID:	IC AR16601				
Client ID:					
Operator ID:	hamnerb	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		
Column:	ZB-5 (0.50 mm)	Detector	Ch-A-04091547		

1 PCB-1016, CAS: 12674-11-2



Processing Integration Results

3.444	Response = 799
3.604	Response = 0
3.824	Response = 2065
3.908	Response = 979
4.360	Response = 871



Manual Integration Results

3.444	Response = 799	
3.608	Response = 539	M
3.824	Response = 2065	
3.908	Response = 979	
4.360	Response = 871	

Reviewer: hamnerb, 30-Oct-2017 16:05:20

Audit Action: Manually Integrated Audit Reason: Peak not integrated

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 13:39 Calibration End Date: 10/30/2017 13:39 Calibration ID: 25679

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/7	103017_007.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0161					Ave		0.0161						20.0			
PCB-1221 Peak 2	0.0106					Ave		0.0106						20.0			
PCB-1221 Peak 3	0.0403					Ave		0.0403						20.0			
PCB-1254 Peak 1	0.0659					Ave		0.0659						20.0			
PCB-1254 Peak 2	0.0711					Ave		0.0711						20.0			
PCB-1254 Peak 3	0.1258					Ave		0.1258						20.0			
PCB-1254 Peak 4	0.1065					Ave		0.1065						20.0			
PCB-1254 Peak 5	0.1019					Ave		0.1019						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 13:39 Calibration End Date: 10/30/2017 13:39 Calibration ID: 25679

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/7	103017_007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	3356					0.100				
PCB-1221 Peak 2	BNB	Ave	2198					0.100				
PCB-1221 Peak 3	BNB	Ave	8381					0.100				
PCB-1254 Peak 1	BNB	Ave	13697					0.100				
PCB-1254 Peak 2	BNB	Ave	14785					0.100				
PCB-1254 Peak 3	BNB	Ave	26154					0.100				
PCB-1254 Peak 4	BNB	Ave	22147					0.100				
PCB-1254 Peak 5	BNB	Ave	21182					0.100				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_007.D
Lims ID: IC AR21544
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Oct-2017 13:39:07 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-007
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub13

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:38 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 13:39:07
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 13:55:16
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 14:42:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	41584H	0.0200	0.0200	
2	1.424	1.428	-0.004	474493H	0.0200	0.0200	
						RPD = 0.00	
6 PCB-1221							
1	2.916	2.916	0.000	3356H	0.1000	0.1000	
1	3.012	3.012	0.000	2198H	0.1000	0.1000	
1	3.068	3.068	0.000	8381H	0.1000	0.1000	
2	2.920	2.920	0.000	38786H	0.1000	0.1000	
2	3.060	3.060	0.000	26309H	0.1000	0.1000	
2	3.116	3.116	0.000	88114H	0.1000	0.1000	
						RPD = 0.00	
13 PCB-1254							
1	4.600	4.600	0.000	13697H	0.1000	0.1000	
1	4.768	4.768	0.000	14785H	0.1000	0.1000	
1	5.040	5.040	0.000	26154H	0.1000	0.1000	
1	5.224	5.224	0.000	22147H	0.1000	0.1000	
1	5.580	5.580	0.000	21182H	0.1000	0.1000	
2	4.632	4.632	0.000	167338H	0.1000	0.1000	
2	4.768	4.768	0.000	194643H	0.1000	0.1000	
2	5.100	5.100	0.000	354626H	0.1000	0.1000	
2	5.252	5.252	0.000	245671H	0.1000	0.1000	
2	5.492	5.492	0.000	194489H	0.1000	0.1000	
						RPD = 0.00	
S 12 Polychlorinated biphenyls, Total							
1						0.1000	

Reagents:

AR2154-4 LVI_00003	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

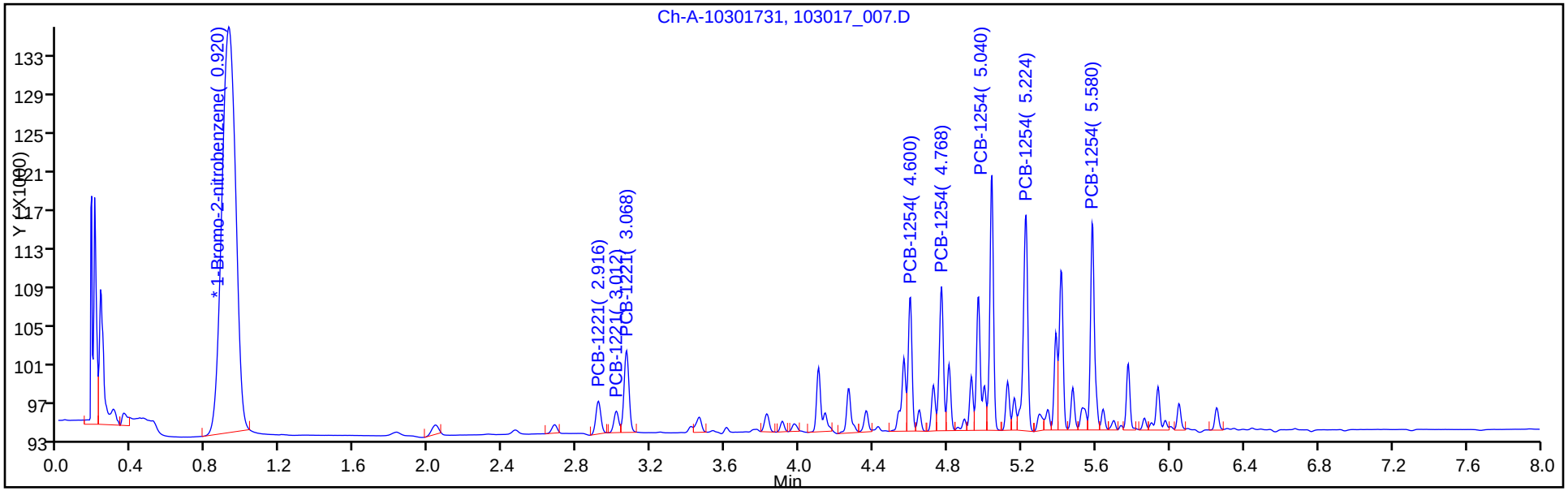
Report Date: 30-Oct-2017 16:56:39 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

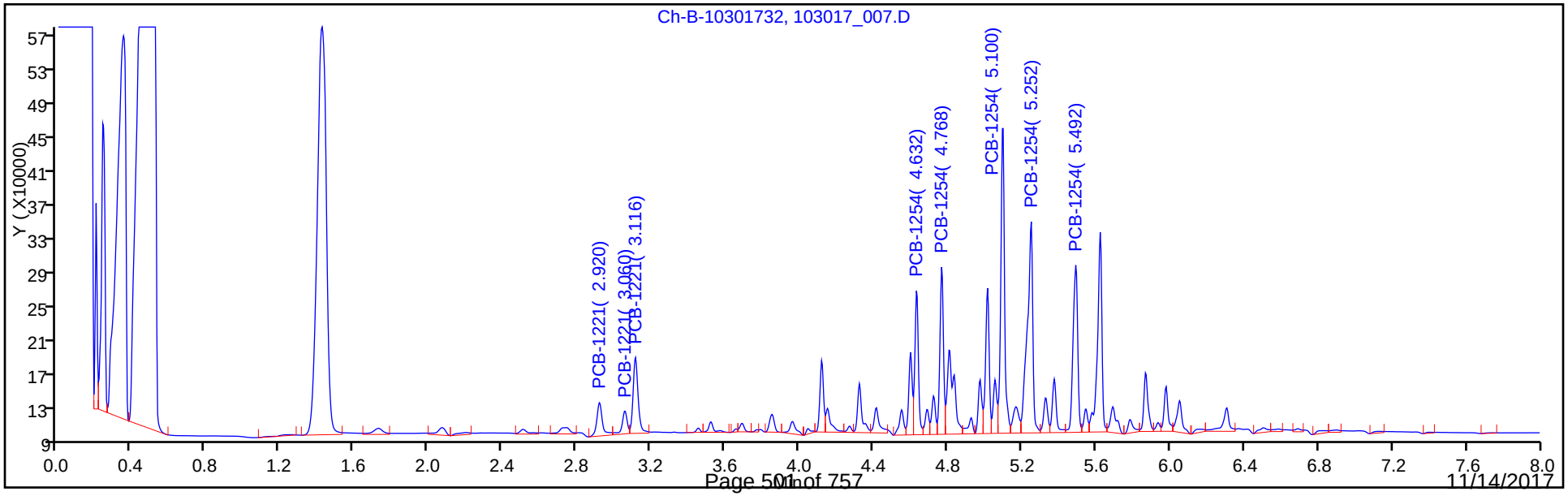
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_007.D

Injection Date:	30-Oct-2017 13:39:07	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR21544			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 13:55 Calibration End Date: 10/30/2017 13:55 Calibration ID: 25683

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/8	103017_008.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0604					Ave		0.0604						20.0			
PCB-1248 Peak 2	0.0543					Ave		0.0543						20.0			
PCB-1248 Peak 3	0.0576					Ave		0.0576						20.0			
PCB-1248 Peak 4	0.0777					Ave		0.0777						20.0			
PCB-1248 Peak 5	0.0662					Ave		0.0662						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 13:55 Calibration End Date: 10/30/2017 13:55 Calibration ID: 25683

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/8	103017_008.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	12291					0.100				
PCB-1248 Peak 2	BNB	Ave	11046					0.100				
PCB-1248 Peak 3	BNB	Ave	11710					0.100				
PCB-1248 Peak 4	BNB	Ave	15799					0.100				
PCB-1248 Peak 5	BNB	Ave	13455					0.100				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_008.D
Lims ID: IC AR1248
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Oct-2017 13:55:16 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-008
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub3

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:39 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 13:55:16
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 14:11:41
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 16:33:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	40673H	0.0200	0.0200	
2	1.428	1.428	0.000	472175H	0.0200	0.0200	
						RPD = 0.00	
7 PCB-1248							
1	3.824	3.824	0.000	12291H	0.1000	0.1000	
1	4.268	4.268	0.000	11046H	0.1000	0.1000	
1	4.360	4.360	0.000	11710H	0.1000	0.1000	
1	4.596	4.596	0.000	15799H	0.1000	0.1000	
1	4.720	4.720	0.000	13455H	0.1000	0.1000	
2	3.848	3.848	0.000	137922H	0.1000	0.1000	
2	4.324	4.324	0.000	147047H	0.1000	0.1000	
2	4.600	4.600	0.000	175064H	0.1000	0.1000	
2	4.412	4.412	0.000	141496H	0.1000	0.1000	
2	4.800	4.800	0.000	179951H	0.1000	0.1000	
						RPD = 0.00	
S 12 Polychlorinated biphenyls, Total							
1						0.1000	

Reagents:

AR1248-4 LVI_00005 Amount Added: 1.00 Units: ml
IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

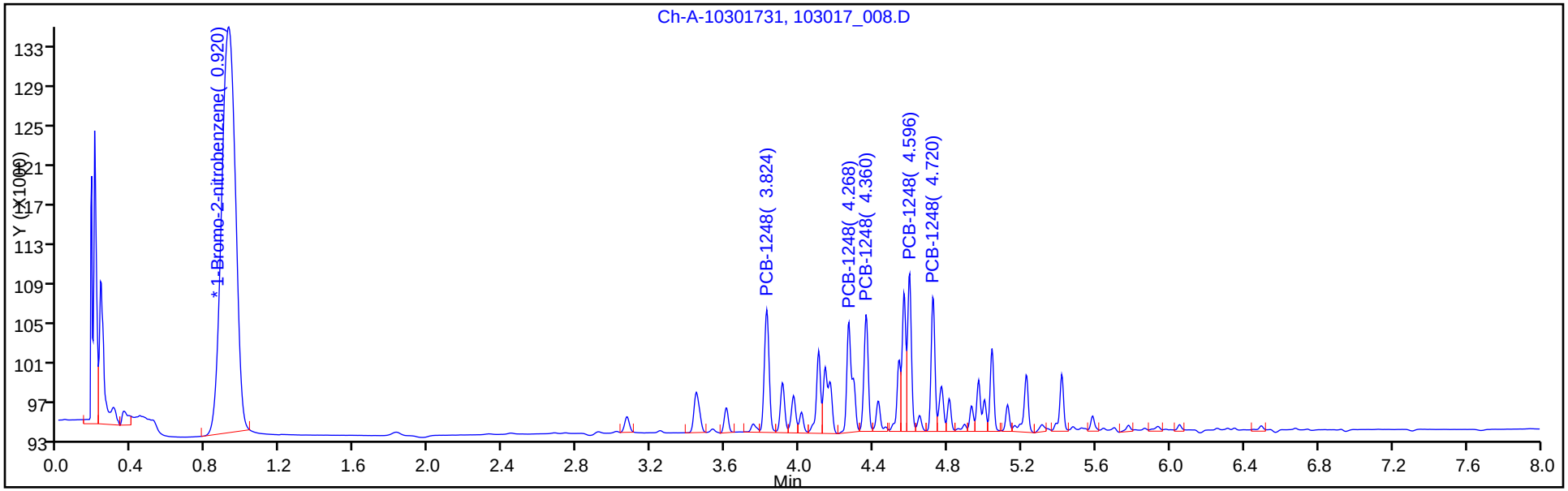
Report Date: 30-Oct-2017 16:56:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

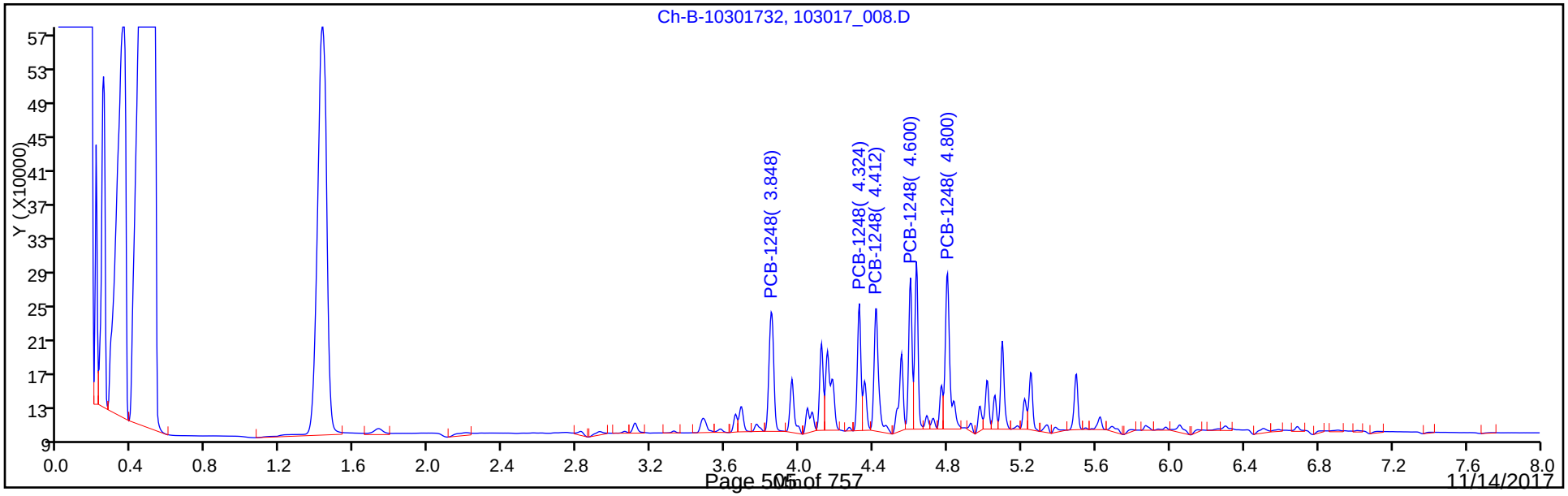
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_008.D

Injection Date:	30-Oct-2017 13:55:16	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR1248			Worklist Smp#:	8
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:11 Calibration End Date: 10/30/2017 14:11 Calibration ID: 25687

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/9	103017_009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0383					Ave		0.0383						20.0			
PCB-1242 Peak 2	0.0286					Ave		0.0286						20.0			
PCB-1242 Peak 3	0.1030					Ave		0.1030						20.0			
PCB-1242 Peak 4	0.0340					Ave		0.0340						20.0			
PCB-1242 Peak 5	0.0430					Ave		0.0430						20.0			
PCB-1268 Peak 1	0.2601					Ave		0.2601						20.0			
PCB-1268 Peak 2	0.2654					Ave		0.2654						20.0			
PCB-1268 Peak 3	0.2067					Ave		0.2067						20.0			
PCB-1268 Peak 4	0.0481					Ave		0.0481						20.0			
PCB-1268 Peak 5	0.0800					Ave		0.0800						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:11 Calibration End Date: 10/30/2017 14:11 Calibration ID: 25687

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/9	103017_009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	7635					0.100				
PCB-1242 Peak 2	BNB	Ave	5701					0.100				
PCB-1242 Peak 3	BNB	Ave	20529					0.100				
PCB-1242 Peak 4	BNB	Ave	6774					0.100				
PCB-1242 Peak 5	BNB	Ave	8577					0.100				
PCB-1268 Peak 1	BNB	Ave	51826					0.100				
PCB-1268 Peak 2	BNB	Ave	52881					0.100				
PCB-1268 Peak 3	BNB	Ave	41189					0.100				
PCB-1268 Peak 4	BNB	Ave	9579					0.100				
PCB-1268 Peak 5	BNB	Ave	15947					0.100				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_009.D
Lims ID: IC AR42684
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Oct-2017 14:11:41 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-009
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub16

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:41 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 14:11:41
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 14:27:52
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 16:39:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	39852H	0.0200	0.0200	
2	1.424	1.428	-0.004	466783H	0.0200	0.0200	
						RPD = 0.00	
14 PCB-1242							
1	3.448	3.448	0.000	7635H	0.1000	0.1000	
1	3.608	3.608	0.000	5701H	0.1000	0.1000	
1	3.828	3.828	0.000	20529H	0.1000	0.1000	
1	3.972	3.972	0.000	6774H	0.1000	0.1000	
1	4.364	4.364	0.000	8577H	0.1000	0.1000	
2	3.484	3.484	0.000	40268H	0.1000	0.1000	
2	3.852	3.852	0.000	246719H	0.1000	0.1000	
2	3.960	3.960	0.000	110176H	0.1000	0.1000	
2	4.416	4.416	0.000	96662H	0.1000	0.1000	
2	4.632	4.632	0.000	125931H	0.1000	0.1000	
						RPD = 0.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
16 PCB-1268							
1	6.312	6.312	0.000	51826H	0.1000	0.1000	
1	6.348	6.348	0.000	52881H	0.1000	0.1000	
1	6.540	6.540	0.000	41189H	0.1000	0.1000	
1	6.596	6.596	0.000	9579H	0.1000	0.1000	
1	6.680	6.680	0.000	15947H	0.1000	0.1000	
2	6.300	6.300	0.000	838819H	0.1000	0.1000	
2	6.332	6.332	0.000	823785H	0.1000	0.1000	
2	6.508	6.508	0.000	714171H	0.1000	0.1000	
2	6.572	6.572	0.000	134469H	0.1000	0.1000	
2	6.692	6.692	0.000	221731H	0.1000	0.1000	
						RPD = 0.00	
S 12 Polychlorinated biphenyls, Total							
1						0.1000	

Reagents:

AR4268-4 LVI_00003 Amount Added: 1.00 Units: ml
IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

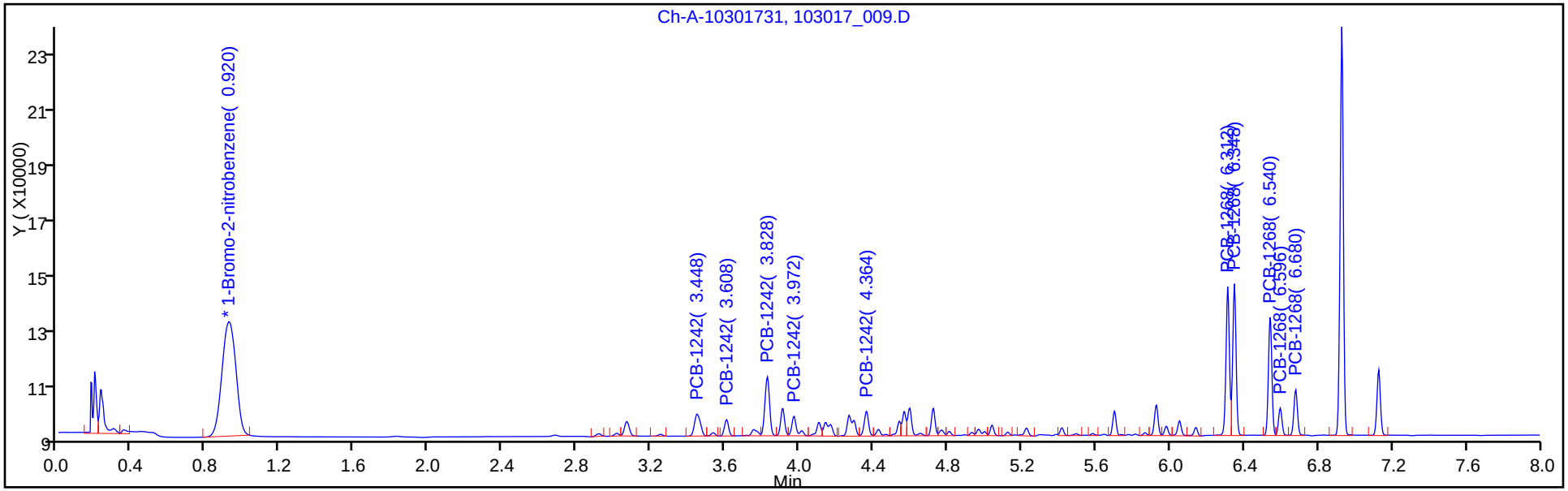
Report Date: 30-Oct-2017 16:56:41 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

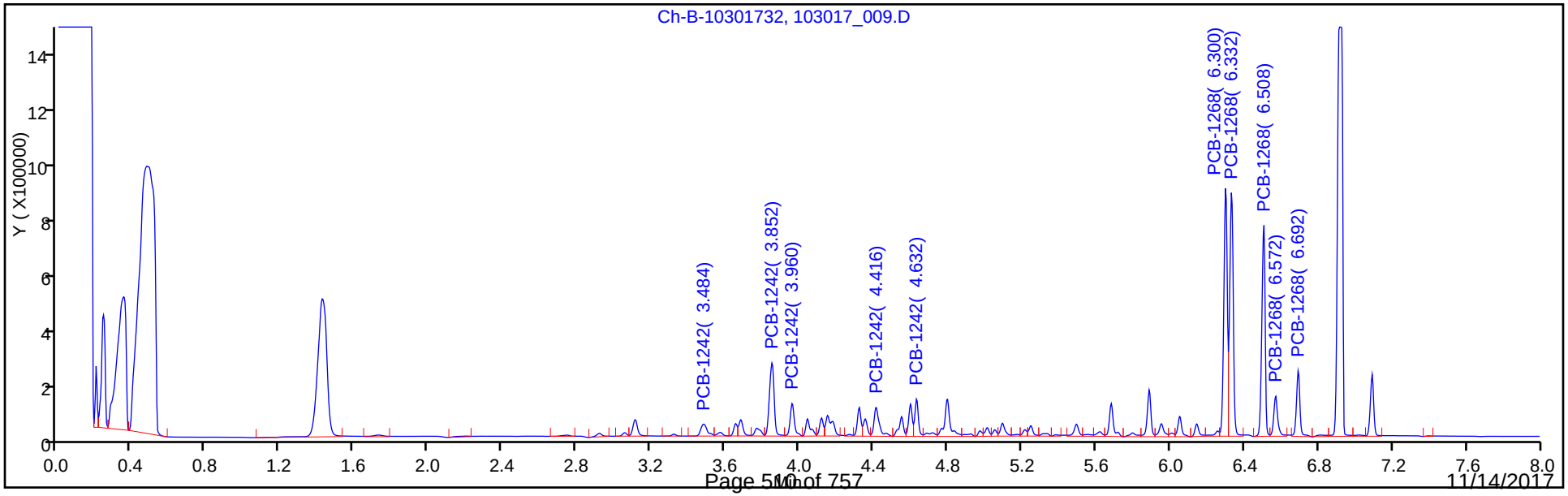
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_009.D

Injection Date:	30-Oct-2017 14:11:41	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR42684			Worklist Smp#:	9
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:27 Calibration End Date: 10/30/2017 14:27 Calibration ID: 25691

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/10	103017_010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0119					Ave		0.0119						20.0			
PCB-1232 Peak 2	0.0352					Ave		0.0352						20.0			
PCB-1232 Peak 3	0.0219					Ave		0.0219						20.0			
PCB-1232 Peak 4	0.0543					Ave		0.0543						20.0			
PCB-1232 Peak 5	0.0263					Ave		0.0263						20.0			
PCB-1262 Peak 1	0.1161					Ave		0.1161						20.0			
PCB-1262 Peak 2	0.0964					Ave		0.0964						20.0			
PCB-1262 Peak 3	0.2287					Ave		0.2287						20.0			
PCB-1262 Peak 4	0.0967					Ave		0.0967						20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 500-136788-1 Analy Batch No.: 407585

SDG No.:

Instrument ID: INST31-32 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/30/2017 14:27 Calibration End Date: 10/30/2017 14:27 Calibration ID: 25691

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-407585/10	103017_010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	2429					0.100				
PCB-1232 Peak 2	BNB	Ave	7163					0.100				
PCB-1232 Peak 3	BNB	Ave	4457					0.100				
PCB-1232 Peak 4	BNB	Ave	11046					0.100				
PCB-1232 Peak 5	BNB	Ave	5349					0.100				
PCB-1262 Peak 1	BNB	Ave	23630					0.100				
PCB-1262 Peak 2	BNB	Ave	19615					0.100				
PCB-1262 Peak 3	BNB	Ave	46565					0.100				
PCB-1262 Peak 4	BNB	Ave	19676					0.100				

Curve Type Legend:
Ave = Average ISTD by Height

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D
Lims ID: IC AR3262
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Oct-2017 14:27:52 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-010
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub14

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:42 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 14:27:52
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 14:44:02
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 16:48:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	40715H	0.0200	0.0200	
2	1.424	1.428	-0.004	472425H	0.0200	0.0200	
						RPD = 0.00	
11 PCB-1232							
1	2.916	2.916	0.000	2429H	0.1000	0.1000	
1	3.068	3.068	0.000	7163H	0.1000	0.1000	
1	3.448	3.448	0.000	4457H	0.1000	0.1000	
1	3.828	3.828	0.000	11046H	0.1000	0.1000	
1	3.908	3.908	0.000	5349H	0.1000	0.1000	
2	2.920	2.920	0.000	27128H	0.1000	0.1000	
2	3.112	3.112	0.000	74978H	0.1000	0.1000	
2	3.484	3.484	0.000	19851H	0.1000	0.1000	
2	3.852	3.852	0.000	127380H	0.1000	0.1000	
2	3.960	3.960	0.000	60002H	0.1000	0.1000	
						RPD = 0.00	
9 PCB-1262							
1	5.700	5.700	0.000	23630H	0.1000	0.1000	
1	5.864	5.864	0.000	19615H	0.1000	0.1000	
1	6.052	6.052	0.000	46565H	0.1000	0.1000	
1	6.348	6.348	0.000	19676H	0.1000	0.1000	
2	5.888	5.888	0.000	246832H	0.1000	0.1000	
2	6.056	6.056	0.000	598889H	0.1000	0.1000	
2	6.300	6.300	0.000	314985H	0.1000	0.1000	
2	6.692	6.692	0.000	169239H	0.1000	0.1000	
						RPD = 0.00	
S 12 Polychlorinated biphenyls, Total							
1						0.1000	

Reagents:

AR3262-4 LVI_00002	Amount Added: 1.00	Units: ml	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

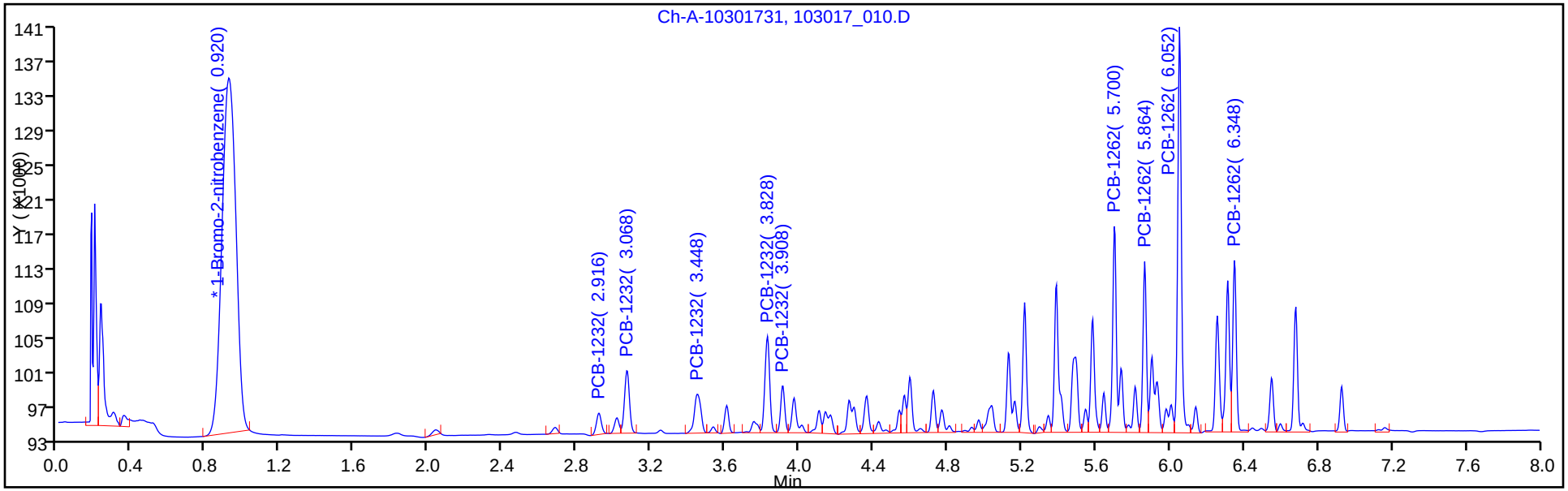
Report Date: 30-Oct-2017 16:56:42 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

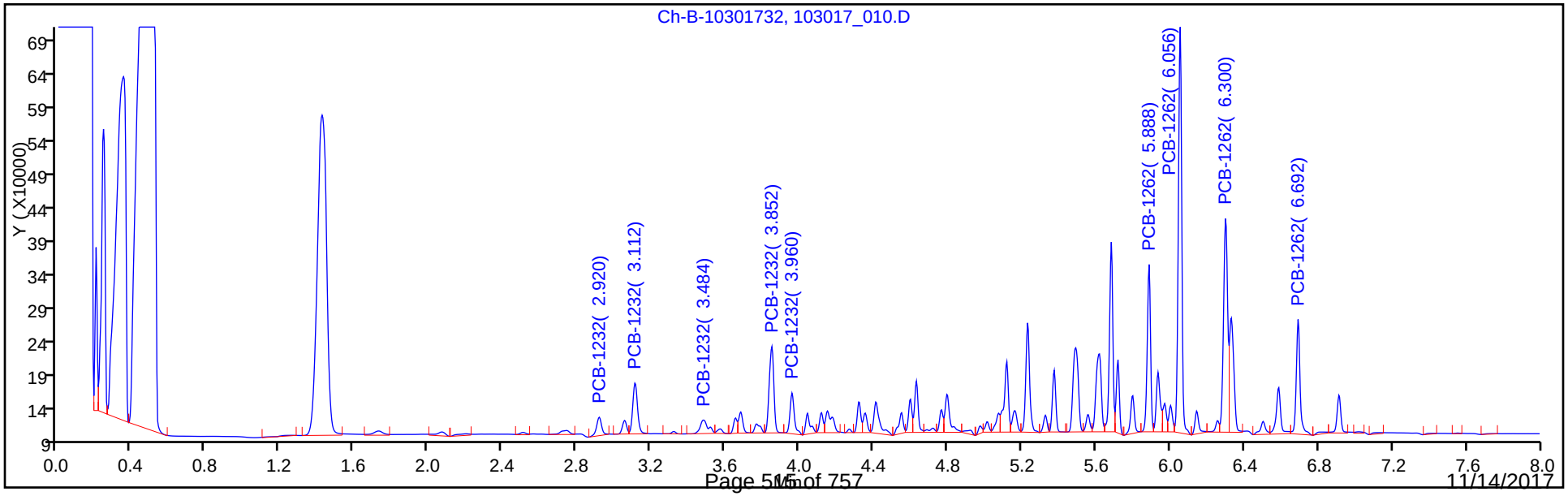
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Injection Date:	30-Oct-2017 14:27:52	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	IC AR3262			Worklist Smp#:	10
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: ICV 500-407585/11 Calibration Date: 10/30/2017 14:44

Instrument ID: INST31-32 Calib Start Date: 10/30/2017 12:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 13:23

Lab File ID: 103017_011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0429	0.0472		0.0550	0.0500	10.0	20.0
PCB-1016 Peak 2	Ave	0.0309	0.0342		0.0553	0.0500	10.7	20.0
PCB-1016 Peak 3	Ave	0.1139	0.1231		0.0540	0.0500	8.1	20.0
PCB-1016 Peak 4	Ave	0.0520	0.0572		0.0550	0.0500	9.9	20.0
PCB-1016 Peak 5	Ave	0.0466	0.0442		0.0474	0.0500	-5.2	20.0
PCB-1260 Peak 1	Ave	0.0892	0.0856		0.0480	0.0500	-4.0	20.0
PCB-1260 Peak 2	Ave	0.1075	0.1054		0.0490	0.0500	-2.0	20.0
PCB-1260 Peak 3	Ave	0.1344	0.1158		0.0431	0.0500	-13.8	20.0
PCB-1260 Peak 4	Ave	0.0697	0.0802		0.0576	0.0500	15.2	20.0
PCB-1260 Peak 5	Ave	0.0840	0.0848		0.0504	0.0500	0.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: ICV 500-407585/11 Calibration Date: 10/30/2017 14:44

Instrument ID: INST31-32 Calib Start Date: 10/30/2017 12:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 13:23

Lab File ID: 103017_011.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.45	3.43	3.45
PCB-1016 Peak 2	3.61	3.59	3.61
PCB-1016 Peak 3	3.83	3.81	3.83
PCB-1016 Peak 4	3.91	3.90	3.92
PCB-1016 Peak 5	4.36	4.35	4.37
PCB-1260 Peak 1	5.22	5.18	5.24
PCB-1260 Peak 2	5.39	5.35	5.41
PCB-1260 Peak 3	5.58	5.55	5.61
PCB-1260 Peak 4	5.86	5.83	5.89
PCB-1260 Peak 5	6.26	6.22	6.28

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_011.D
Lims ID: ICV AR1660
Client ID:
Sample Type: ICV
Inject. Date: 30-Oct-2017 14:44:02 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048708-011
Operator ID: hamnerb Instrument ID: INST31-32
Sublist:

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 30-Oct-2017 16:56:42 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 30-Oct-2017 14:44:02
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 30-Oct-2017 15:00:11
Process Host: XAWRK016

First Level Reviewer: hamnerb Date: 30-Oct-2017 16:23:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.920	0.920	0.000	42603H	0.0200	0.0200	
2	1.428	1.428	0.000	487113H	0.0200	0.0200	
						RPD = 0.00	
1 PCB-1016							
1	3.448	3.444	0.004	5027H	0.0500	0.0550	
1	3.608	3.604	0.004	3642H	0.0500	0.0553	
1	3.828	3.824	0.004	13112H	0.0500	0.0540	
1	3.908	3.908	0.000	6087H	0.0500	0.0550	
1	4.364	4.360	0.004	4704H	0.0500	0.0474	
2	3.112	3.116	-0.004	36329H	0.0500	0.0525	
2	3.852	3.856	-0.004	156314H	0.0500	0.0557	
2	3.960	3.964	-0.004	74107H	0.0500	0.0565	
2	4.044	4.048	-0.004	36409H	0.0500	0.0529	
2	4.412	4.416	-0.004	57087H	0.0500	0.0514	
						RPD = 0.87	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.216	5.212	0.004	9120H	0.0500	0.0480	
1	5.388	5.384	0.004	11222H	0.0500	0.0490	
1	5.584	5.580	0.004	12336H	0.0500	0.0431	
1	5.864	5.860	0.004	8545H	0.0500	0.0576	
1	6.256	6.252	0.004	9031H	0.0500	0.0504	
2	5.232	5.236	-0.004	114195H	0.0500	0.0504	
2	5.376	5.380	-0.004	67314H	0.0500	0.0504	
2	5.484	5.488	-0.004	94451H	0.0500	0.0480	
2	5.888	5.892	-0.004	104548H	0.0500	0.0607	
2	6.304	6.308	-0.004	132707H	0.0500	0.0557	
						RPD = 6.63	

Reagents:

ICV1660-3_00044	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

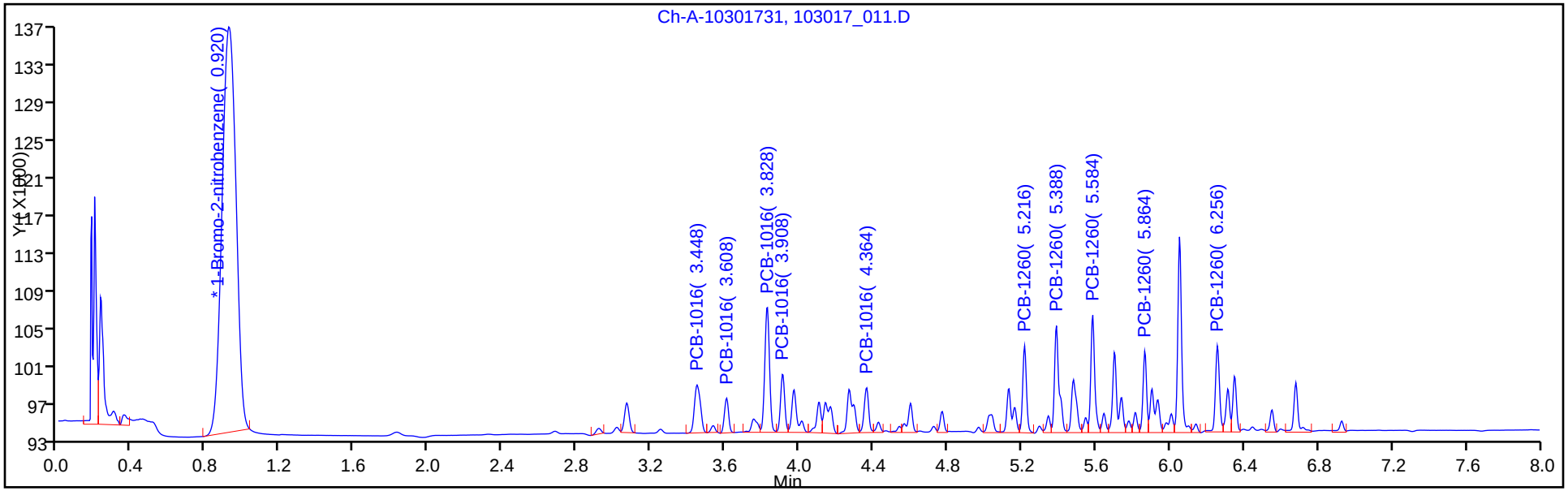
Report Date: 30-Oct-2017 16:56:43 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

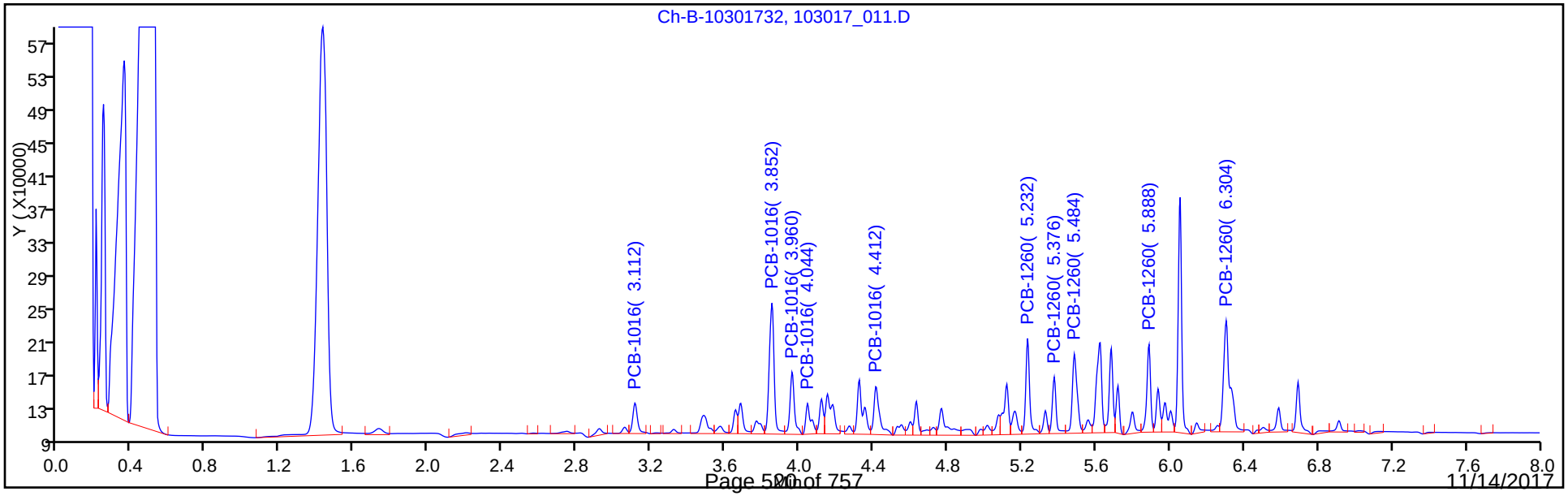
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_011.D

Injection Date:	30-Oct-2017 14:44:02	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	ICV AR1660			Worklist Smp#:	11
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: CCVIS 500-408581/1 Calibration Date: 11/06/2017 10:32

Instrument ID: INST31-32 Calib Start Date: 10/30/2017 12:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 13:23

Lab File ID: 103017_047.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0429	0.0386		0.0900	0.100	-10.0	20.0
PCB-1016 Peak 2	Ave	0.0309	0.0334		0.108	0.100	8.0	20.0
PCB-1016 Peak 3	Ave	0.1139	0.1037		0.0910	0.100	-9.0	20.0
PCB-1016 Peak 4	Ave	0.0520	0.0476		0.0916	0.100	-8.4	20.0
PCB-1016 Peak 5	Ave	0.0466	0.0410		0.0879	0.100	-12.1	20.0
PCB-1260 Peak 1	Ave	0.0892	0.0703		0.0788	0.100	-21.2*	20.0
PCB-1260 Peak 2	Ave	0.1075	0.0857		0.0797	0.100	-20.3*	20.0
PCB-1260 Peak 3	Ave	0.1344	0.0994		0.0740	0.100	-26.0*	20.0
PCB-1260 Peak 4	Ave	0.0697	0.0632		0.0908	0.100	-9.2	20.0
PCB-1260 Peak 5	Ave	0.0840	0.0717		0.0854	0.100	-14.6	20.0
Tetrachloro-m-xylene	Ave	1.659	1.585		0.00764	0.00800	-4.5	20.0
DCB Decachlorobiphenyl	Ave	1.453	1.563		0.00861	0.00800	7.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: CCVIS 500-408581/1 Calibration Date: 11/06/2017 10:32

Instrument ID: INST31-32 Calib Start Date: 10/30/2017 12:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 13:23

Lab File ID: 103017_047.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.45	3.44	3.46
PCB-1016 Peak 2	3.61	3.60	3.62
PCB-1016 Peak 3	3.83	3.82	3.84
PCB-1016 Peak 4	3.91	3.90	3.92
PCB-1016 Peak 5	4.37	4.36	4.38
PCB-1260 Peak 1	5.22	5.19	5.25
PCB-1260 Peak 2	5.39	5.36	5.42
PCB-1260 Peak 3	5.59	5.56	5.62
PCB-1260 Peak 4	5.87	5.84	5.90
PCB-1260 Peak 5	6.26	6.23	6.29
Tetrachloro-m-xylene	2.70	2.69	2.71
DCB Decachlorobiphenyl	7.13	7.12	7.14

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_047.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Nov-2017 10:32:08 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048859-001
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub9

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 06-Nov-2017 11:32:13 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 06-Nov-2017 10:32:08
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 06-Nov-2017 10:48:19
Process Host: XAWRK012

First Level Reviewer: hamnerb Date: 06-Nov-2017 11:32:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.928	0.928	0.000	46600H	0.0200	0.0200	
2	1.424	1.424	0.000	478729H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.696	2.696	0.000	29536H	0.008000	0.007643	
2	2.584	2.584	0.000	308551H	0.008000	0.006969	
						RPD = 9.21	
1 PCB-1016							
1	3.452	3.452	0.000	9002H	0.1000	0.0900	
1	3.608	3.608	0.000	7776H	0.1000	0.1080	
1	3.832	3.832	0.000	24153H	0.1000	0.0910	
1	3.912	3.912	0.000	11097H	0.1000	0.0916	
1	4.368	4.368	0.000	9545H	0.1000	0.0879	
2	3.116	3.116	0.000	58638H	0.1000	0.0863	
2	3.856	3.856	0.000	271936H	0.1000	0.0986	
2	3.964	3.964	0.000	114897H	0.1000	0.0891	
2	4.048	4.048	0.000	71167H	0.1000	0.1051	
2	4.420	4.420	0.000	95682H	0.1000	0.0877	
						RPD = 0.35	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.220	5.220	0.000	16375H	0.1000	0.0788	
1	5.392	5.392	0.000	19959H	0.1000	0.0797	
1	5.588	5.588	0.000	23168H	0.1000	0.0740	
1	5.868	5.868	0.000	14736H	0.1000	0.0908	
1	6.260	6.260	0.000	16714H	0.1000	0.0854	
2	5.240	5.240	0.000	179275H	0.1000	0.0805	
2	5.380	5.380	0.000	145808H	0.1000	0.1110	
2	5.492	5.492	0.000	158964H	0.1000	0.0823	
2	5.892	5.892	0.000	173185H	0.1000	0.1023	
2	6.312	6.312	0.000	266621H	0.1000	0.1139	
						RPD = 18.08	
8 1260 Res 1							
1		6.508			ND	ND	
2		4.232					
2 1260 Res 2							
1		6.620			ND	ND	
2		4.400					
5 1260 Res 3							
1		6.660			ND	ND	
2		4.928					
$ 10 DCB Decachlorobiphenyl							
1	7.128	7.128	0.000	29131H	0.008000	0.008606	
2	7.096	7.096	0.000	222692H	0.008000	0.009493	
						RPD = 9.80	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Reagents:

AR1660CCV4LVI_00051	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

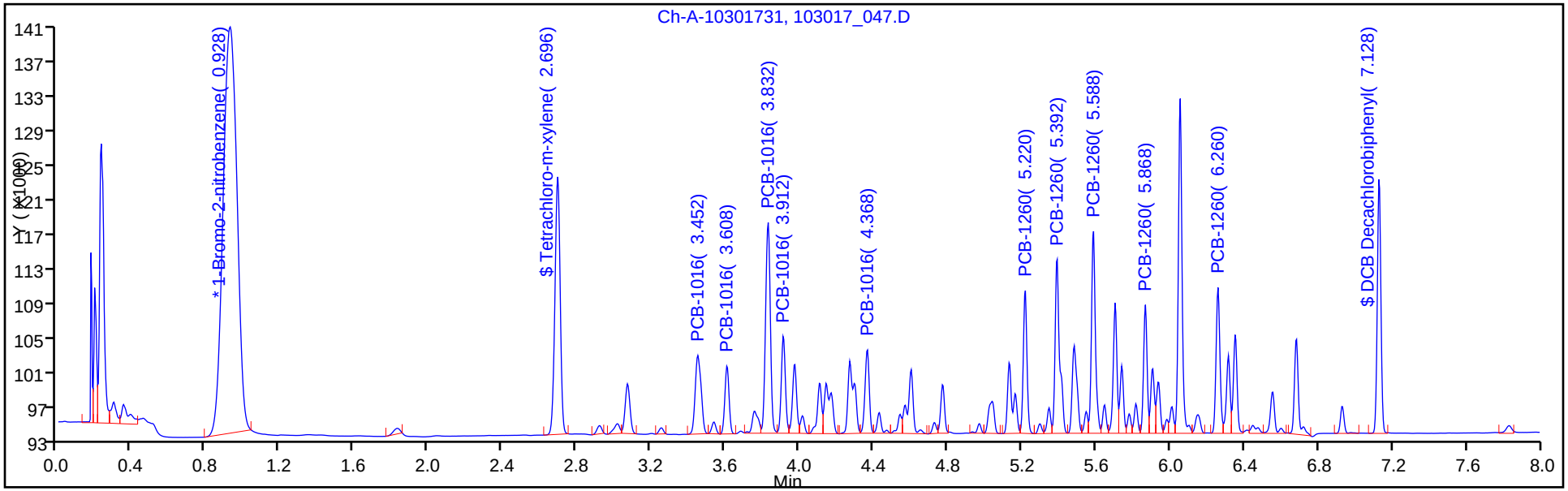
Report Date: 06-Nov-2017 11:32:15 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

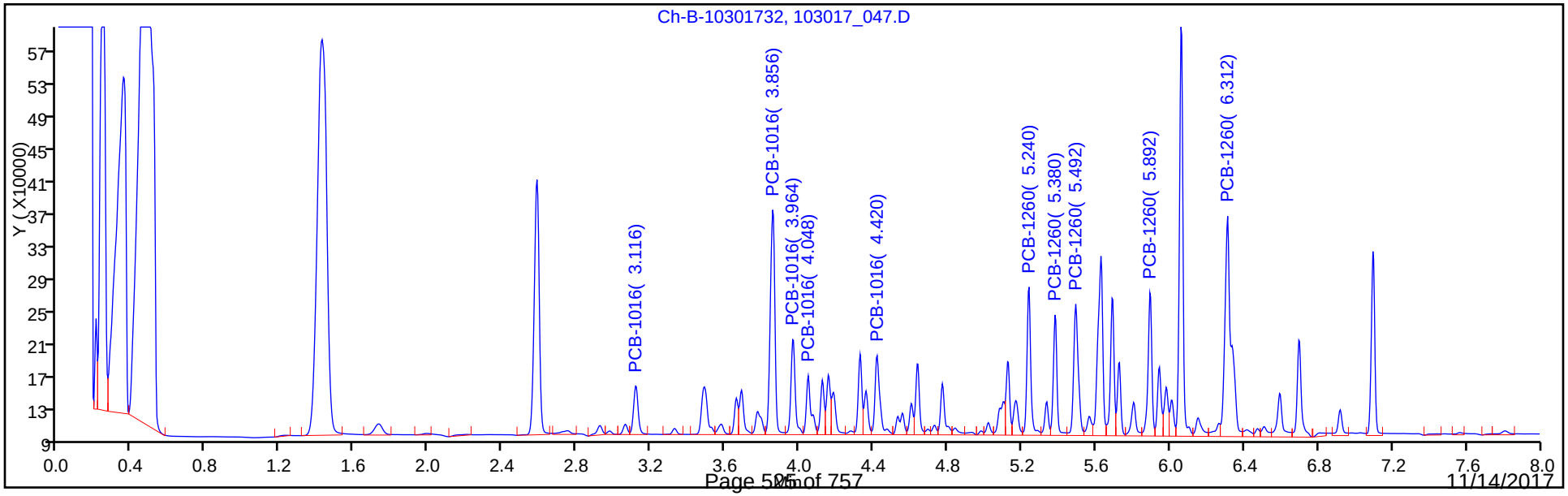
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_047.D

Injection Date:	06-Nov-2017 10:32:08	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	CCVIS			Worklist Smp#:	1
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: CCV 500-408581/43 Calibration Date: 11/06/2017 21:53

Instrument ID: INST31-32 Calib Start Date: 10/30/2017 12:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 13:23

Lab File ID: 103017_089.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0429	0.0406		0.0946	0.100	-5.4	20.0
PCB-1016 Peak 2	Ave	0.0309	0.0361		0.117	0.100	16.9	20.0
PCB-1016 Peak 3	Ave	0.1139	0.1081		0.0949	0.100	-5.1	20.0
PCB-1016 Peak 4	Ave	0.0520	0.0502		0.0966	0.100	-3.4	20.0
PCB-1016 Peak 5	Ave	0.0466	0.0417		0.0894	0.100	-10.6	20.0
PCB-1260 Peak 1	Ave	0.0892	0.0674		0.0756	0.100	-24.4*	20.0
PCB-1260 Peak 2	Ave	0.1075	0.0866		0.0806	0.100	-19.4	20.0
PCB-1260 Peak 3	Ave	0.1344	0.1026		0.0763	0.100	-23.7*	20.0
PCB-1260 Peak 4	Ave	0.0697	0.0677		0.0972	0.100	-2.8	20.0
PCB-1260 Peak 5	Ave	0.0840	0.0834		0.0992	0.100	-0.8	20.0
Tetrachloro-m-xylene	Ave	1.659	1.753		0.00846	0.00800	5.7	20.0
DCB Decachlorobiphenyl	Ave	1.453	1.436		0.00791	0.00800	-1.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: CCV 500-408581/43 Calibration Date: 11/06/2017 21:53

Instrument ID: INST31-32 Calib Start Date: 10/30/2017 12:01

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 10/30/2017 13:23

Lab File ID: 103017_089.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	3.46	3.44	3.46
PCB-1016 Peak 2	3.61	3.60	3.62
PCB-1016 Peak 3	3.83	3.82	3.84
PCB-1016 Peak 4	3.92	3.90	3.92
PCB-1016 Peak 5	4.37	4.36	4.38
PCB-1260 Peak 1	5.22	5.19	5.25
PCB-1260 Peak 2	5.39	5.36	5.42
PCB-1260 Peak 3	5.59	5.56	5.62
PCB-1260 Peak 4	5.87	5.84	5.90
PCB-1260 Peak 5	6.26	6.23	6.29
Tetrachloro-m-xylene	2.70	2.69	2.71
DCB Decachlorobiphenyl	7.13	7.12	7.14

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_089.D
Lims ID: CCV AR 1660
Client ID:
Sample Type: CCV
Inject. Date: 06-Nov-2017 21:53:20 ALS Bottle#: 0 Worklist Smp#: 43
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048859-043
Operator ID: hamnerb Instrument ID: INST31-32
Sublist: chrom-8082LVIIS_31-32*sub9

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 07-Nov-2017 08:09:06 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 06-Nov-2017 21:53:20
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 06-Nov-2017 22:09:30
Process Host: XAWRK018

First Level Reviewer: hamnerb Date: 07-Nov-2017 08:09:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.932	0.924	0.008	45558H	0.0200	0.0200	
2	1.428	1.428	0.000	466474H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.700	2.696	0.004	31953H	0.008000	0.008457	
2	2.584	2.584	0.000	344535H	0.008000	0.007987	
						RPD = 5.72	
1 PCB-1016							
1	3.456	3.452	0.004	9245H	0.1000	0.0946	
1	3.612	3.608	0.004	8226H	0.1000	0.1169	
1	3.832	3.832	0.000	24621H	0.1000	0.0949	
1	3.916	3.912	0.004	11436H	0.1000	0.0966	
1	4.368	4.368	0.000	9490H	0.1000	0.0894	
2	3.120	3.116	0.004	66617H	0.1000	0.1006	
2	3.860	3.856	0.004	343130H	0.1000	0.1277	
2	3.968	3.964	0.004	147799H	0.1000	0.1177	
2	4.048	4.048	0.000	82098H	0.1000	0.1245	
2	4.420	4.420	0.000	118160H	0.1000	0.1112	
						RPD = 16.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.220	5.220	0.000	15357H	0.1000	0.0756	
1	5.392	5.392	0.000	19721H	0.1000	0.0806	
1	5.588	5.588	0.000	23368H	0.1000	0.0763	
1	5.868	5.868	0.000	15423H	0.1000	0.0972	
1	6.260	6.260	0.000	18989H	0.1000	0.0992	
2	5.240	5.240	0.000	277183H	0.1000	0.1277	
2	5.384	5.380	0.004	211251H	0.1000	0.1651	
2	5.492	5.492	0.000	228242H	0.1000	0.1212	
2	5.896	5.892	0.004	275143H	0.1000	0.1668	
2	6.312	6.312	0.000	409463H	0.1000	0.1794	
						RPD = 55.73	
8 1260 Res 1							
1		6.508			ND	ND	
2		4.232					
2 1260 Res 2							
1		6.620			ND	ND	
2		4.400					
5 1260 Res 3							
1		6.660			ND	ND	
2		4.928					
$ 10 DCB Decachlorobiphenyl							
1	7.132	7.128	0.004	26176H	0.008000	0.007910	
2	7.100	7.096	0.004	240462H	0.008000	0.0105	
						RPD = 28.32	
S 12 Polychlorinated biphenyls, Total							
1						0.0985	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Reagents:

AR1660CCV4LVI_00051	Amount Added: 1.00	Units: mL	
IS8000WRK_00017	Amount Added: 10.00	Units: uL	Run Reagent

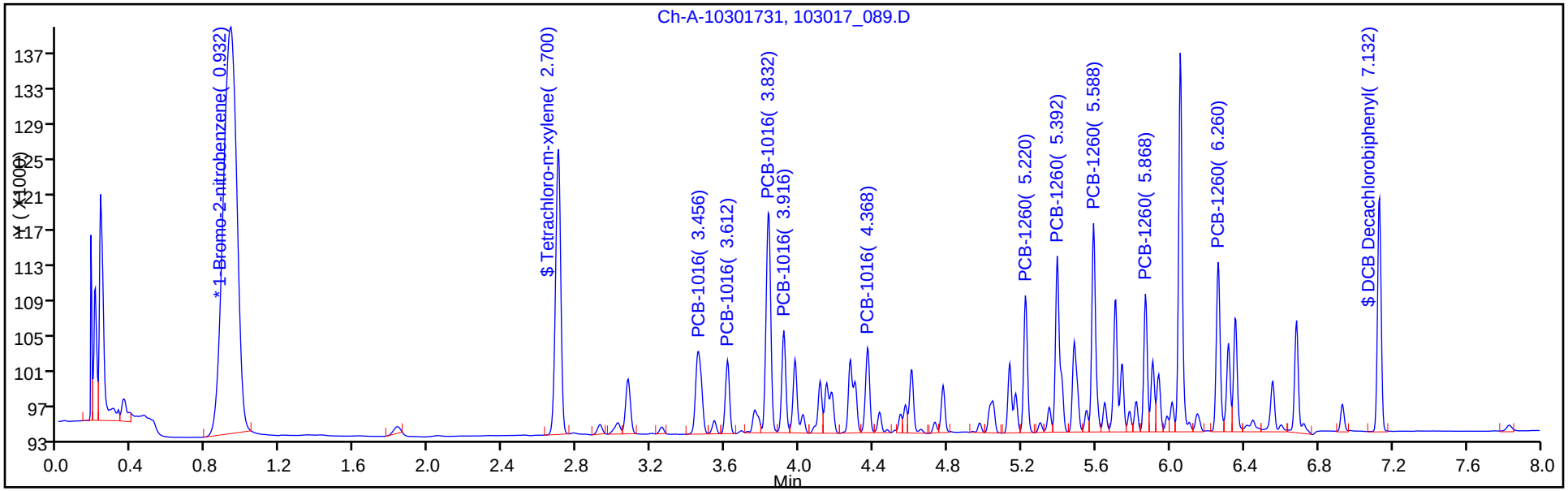
Report Date: 07-Nov-2017 08:09:06 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

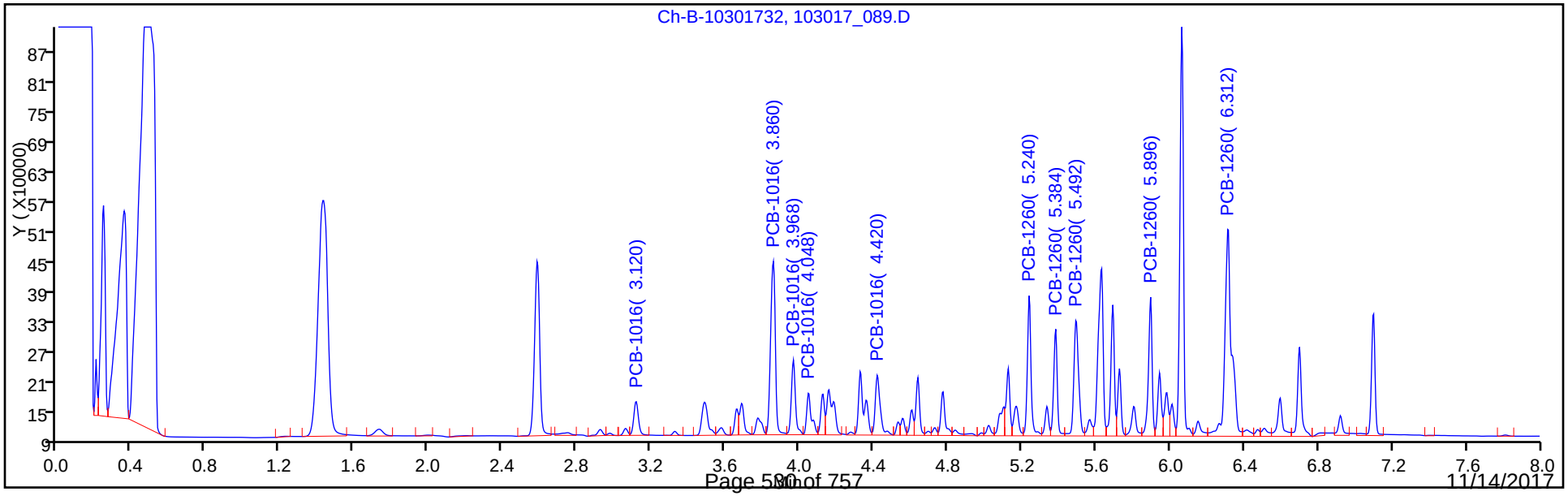
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_089.D

Injection Date:	06-Nov-2017 21:53:20	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	CCV AR 1660			Worklist Smp#:	43
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 500-408564/1-A

Matrix: Water | Lab File ID: 103017_090.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 11/06/2017 08:38

Sample wt/vol: 250(mL) | Date Analyzed: 11/06/2017 22:09

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408581 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	<0.40		0.40	0.067
11104-28-2	PCB-1221	<0.40		0.40	0.20
11141-16-5	PCB-1232	<0.40		0.40	0.20
53469-21-9	PCB-1242	<0.40		0.40	0.20
12672-29-6	PCB-1248	<0.40		0.40	0.20
11097-69-1	PCB-1254	<0.40		0.40	0.20
11096-82-5	PCB-1260	<0.40		0.40	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	73		30-120
2051-24-3	DCB Decachlorobiphenyl	52		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_090.D
Lims ID: MB 500-408564/1-A
Client ID:
Sample Type: MB
Inject. Date: 06-Nov-2017 22:09:30 ALS Bottle#: 0 Worklist Smp#: 44
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048859-044
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 07-Nov-2017 08:48:26 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 06-Nov-2017 22:09:30
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 06-Nov-2017 22:25:35
Process Host: XAWRK018

First Level Reviewer: hamnerb Date: 07-Nov-2017 08:48:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.928	0.940	-0.012	44966H	0.0200	0.0200	
2	1.428	1.428	0.000	479188H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.700	2.692	0.008	21687H	0.008000	0.005816	
2	2.584	2.584	0.000	230615H	0.008000	0.005204	
						RPD = 11.10	
11 PCB-1232							
1		2.916				ND	
1		3.068					
1		3.448					
1		3.828					
1		3.908					
2		2.920					
2		3.112					
2		3.484					
2		3.852					
2		3.960					
6 PCB-1221							
1		2.924				ND	
1		3.024					
1		3.076					
2		2.928					
2		3.064					
2		3.120					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
14 PCB-1242							
1		3.448				ND	
1		3.608					
1		3.828					
1		3.972					
1		4.364					
2		3.484					
2		3.852					
2		3.960					
2		4.416					
2		4.632					
1 PCB-1016							
1		3.452				ND	
1		3.608					
1		3.832					
1		3.912					
1		4.368					
2		3.116					
2		3.856					
2		3.964					
2		4.048					
2		4.420					
7 PCB-1248							
1		3.824				ND	
1		4.268					
1		4.360					
1		4.596					
1		4.720					
2		3.848					
2		4.324					
2		4.600					
2		4.412					
2		4.800					
13 PCB-1254							
1		4.608				ND	
1		4.776					
1		5.048					
1		5.232					
1		5.592					
2		4.640					
2		4.776					
2		5.104					
2		5.260					
2		5.500					

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1		5.220				ND	
1		5.392					
1		5.588					
1		5.868					
1		6.260					
2		5.240					
2		5.380					
2		5.492					
2		5.892					
2		6.312					
9 PCB-1262							
1		5.700				ND	
1		5.864					
1		6.052					
1		6.348					
2		5.888					
2		6.056					
2		6.300					
2		6.692					
16 PCB-1268							
1		6.312				ND	
1		6.348					
1		6.540					
1		6.596					
1		6.680					
2		6.300					
2		6.332					
2		6.508					
2		6.572					
2		6.692					
8 1260 Res 1							
1		6.508				ND	
2		4.232					
2 1260 Res 2							
1		6.620				ND	
2		4.400					
5 1260 Res 3							
1		6.660				ND	
2		4.928					
$ 10 DCB Decachlorobiphenyl							
1	7.132	7.124	0.008	13523H	0.008000	0.004140	
2	7.096	7.048	0.048	110325H	0.008000	0.004698	
						RPD = 12.63	
S 12 Polychlorinated biphenyls, Total							
1		0.000				ND	

Reagents:

IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

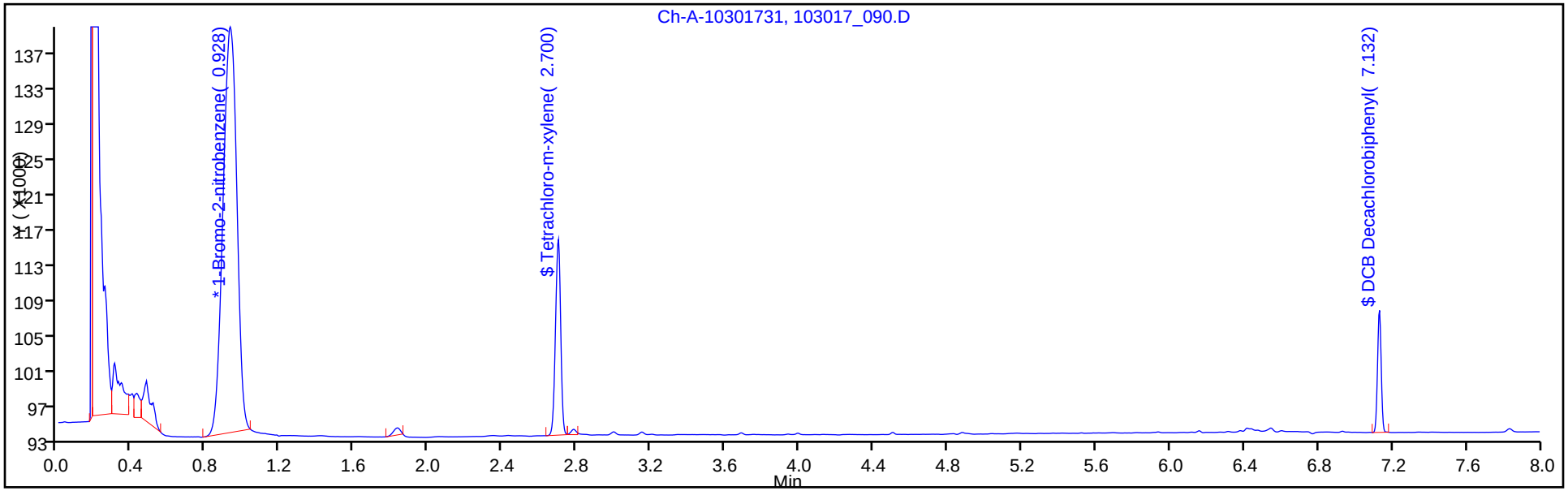
Report Date: 07-Nov-2017 08:48:27 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

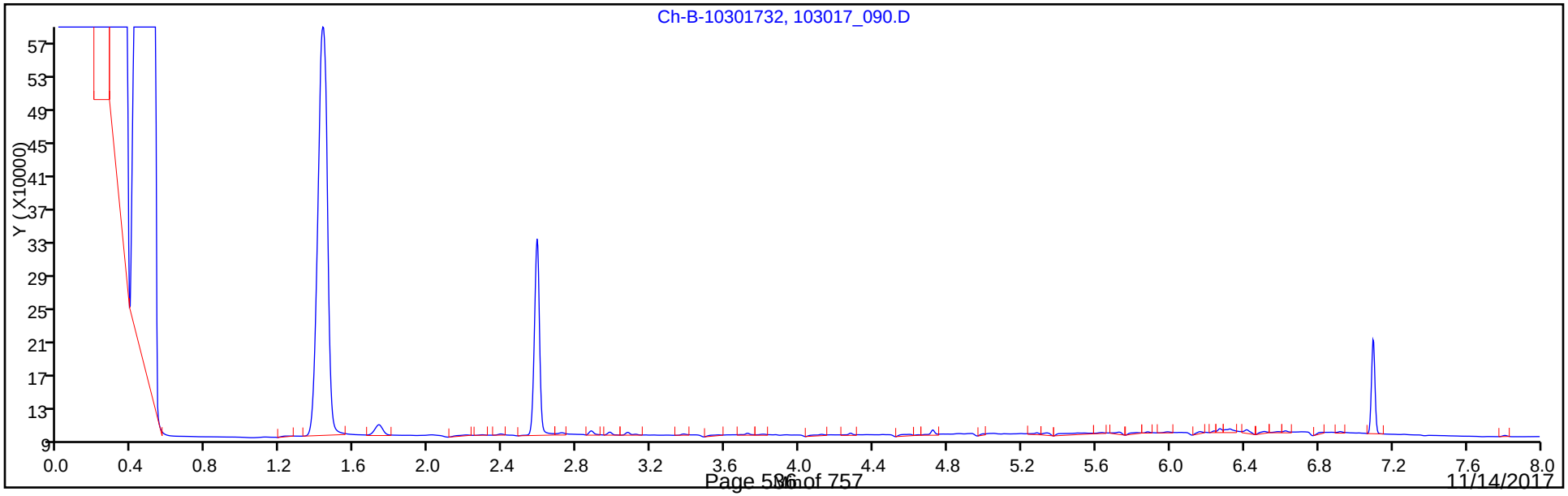
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_090.D

Injection Date:	06-Nov-2017 22:09:30	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	MB 500-408564/1-A			Worklist Smp#:	44
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Recovery Report

Data File:	\\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_090.D				
Lims ID:	MB 500-408564/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	06-Nov-2017 22:09:30	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Sample Info:	#: dc= Name: 103017,pcb31,500-0048859-044				
Operator ID:	hamnerb	Instrument ID:	INST31-32		
Method:	\\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\8082LVIIS_31-32.m				
Limit Group:	GC_PCB_8082A_IS				
Last Update:	07-Nov-2017 08:48:26	Calib Date:	30-Oct-2017 14:27:52		
Integrator:	Falcon				
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D				
Column 1 :	ZB-5 (0.50 mm)		Det: Ch-A-04091547 06-Nov-2017 22:09:30		
Column 2 :	ZB-CLP-Pesticide 2 (0.32 mm)		Det: Ch-B-04091548 06-Nov-2017 22:25:35		
Process Host:	XAWRK018				
First Level Reviewer: hamnerb		Date:	07-Nov-2017 08:48:26		

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.005816	72.69
$ 10 DCB Decachlorobiphenyl	0.008000	0.004140	51.75

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.005204	65.05
$ 10 DCB Decachlorobiphenyl	0.008000	0.004698	58.73

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 500-408564/2-A

Matrix: Water | Lab File ID: 103017_091.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 11/06/2017 08:38

Sample wt/vol: 250(mL) | Date Analyzed: 11/06/2017 22:25

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408581 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.35		0.40	0.067
11096-82-5	PCB-1260	2.93		0.40	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	77		30-120
2051-24-3	DCB Decachlorobiphenyl	53		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_091.D
Lims ID: LCS 500-408564/2-A
Client ID:
Sample Type: LCS
Inject. Date: 06-Nov-2017 22:25:35 ALS Bottle#: 0 Worklist Smp#: 45
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048859-045
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 07-Nov-2017 08:48:57 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 06-Nov-2017 22:25:35
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 06-Nov-2017 22:41:47
Process Host: XAWRK018

First Level Reviewer: hamnerb Date: 07-Nov-2017 08:48:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.928	0.940	-0.012	45880H	0.0200	0.0200	
2	1.428	1.428	0.000	487529H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.700	2.692	0.008	23350H	0.008000	0.006137	
2	2.584	2.584	0.000	243839H	0.008000	0.005408	
						RPD = 12.62	
1 PCB-1016							
1	3.452	3.452	0.000	7894H	0.1000	0.0802	
1	3.612	3.608	0.004	7150H	0.1000	0.1009	
1	3.836	3.832	0.004	20759H	0.1000	0.0794	
1	3.916	3.912	0.004	9769H	0.1000	0.0819	
1	4.368	4.368	0.000	8182H	0.1000	0.0765	
2	3.120	3.116	0.004	53841H	0.1000	0.0778	
2	3.860	3.856	0.004	266544H	0.1000	0.0949	
2	3.968	3.964	0.004	109497H	0.1000	0.0834	
2	4.048	4.048	0.000	60657H	0.1000	0.0880	
2	4.420	4.420	0.000	94390H	0.1000	0.0850	
						RPD = 2.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.220	5.220	0.000	13846H	0.1000	0.0677	
1	5.392	5.392	0.000	17107H	0.1000	0.0694	
1	5.588	5.588	0.000	22906H	0.1000	0.0743	
1	5.868	5.868	0.000	11624H	0.1000	0.0728	
1	6.260	6.260	0.000	15791H	0.1000	0.0819	
2	5.240	5.240	0.000	205375H	0.1000	0.0906	
2	5.384	5.380	0.004	154699H	0.1000	0.1157	
2	5.492	5.492	0.000	194025H	0.1000	0.0986	
2	5.896	5.892	0.004	180789H	0.1000	0.1049	
2	6.312	6.312	0.000	272541H	0.1000	0.1143	
						RPD = 35.48	
8 1260 Res 1							
1		6.508			ND	ND	
2		4.232					
2 1260 Res 2							
1		6.620			ND	ND	
2		4.400					
5 1260 Res 3							
1		6.660			ND	ND	
2		4.928					
$ 10 DCB Decachlorobiphenyl							
1	7.132	7.124	0.008	14261H	0.008000	0.004279	
2	7.100	7.048	0.052	122347H	0.008000	0.005121	
						RPD = 17.92	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Reagents:

IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

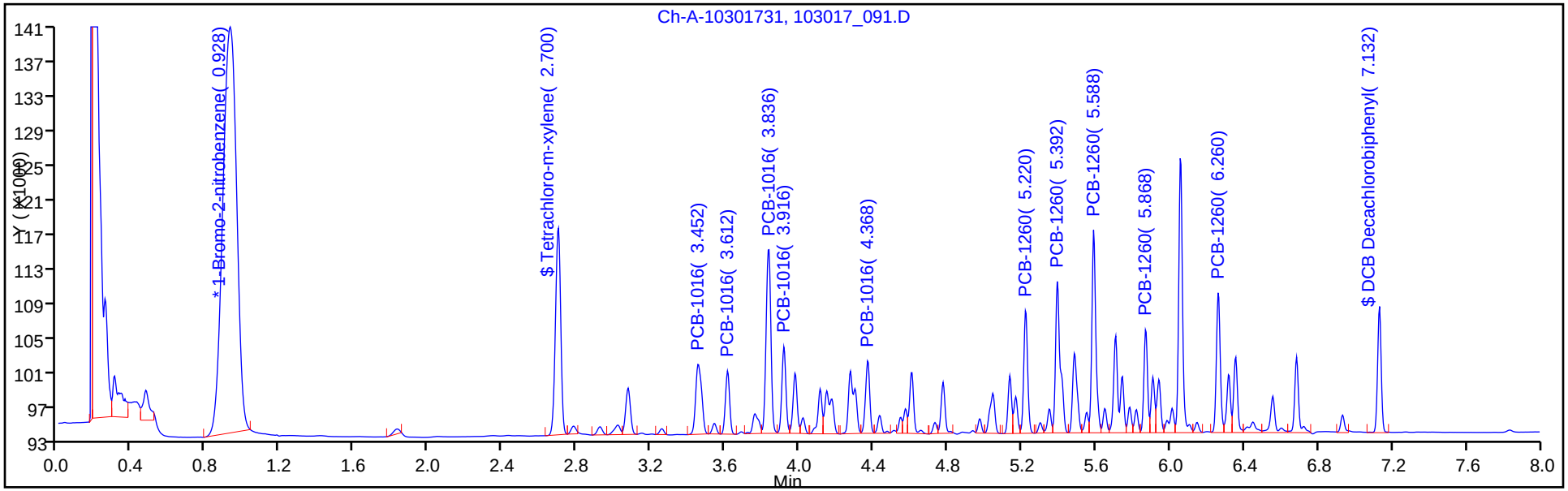
Report Date: 07-Nov-2017 08:48:58 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

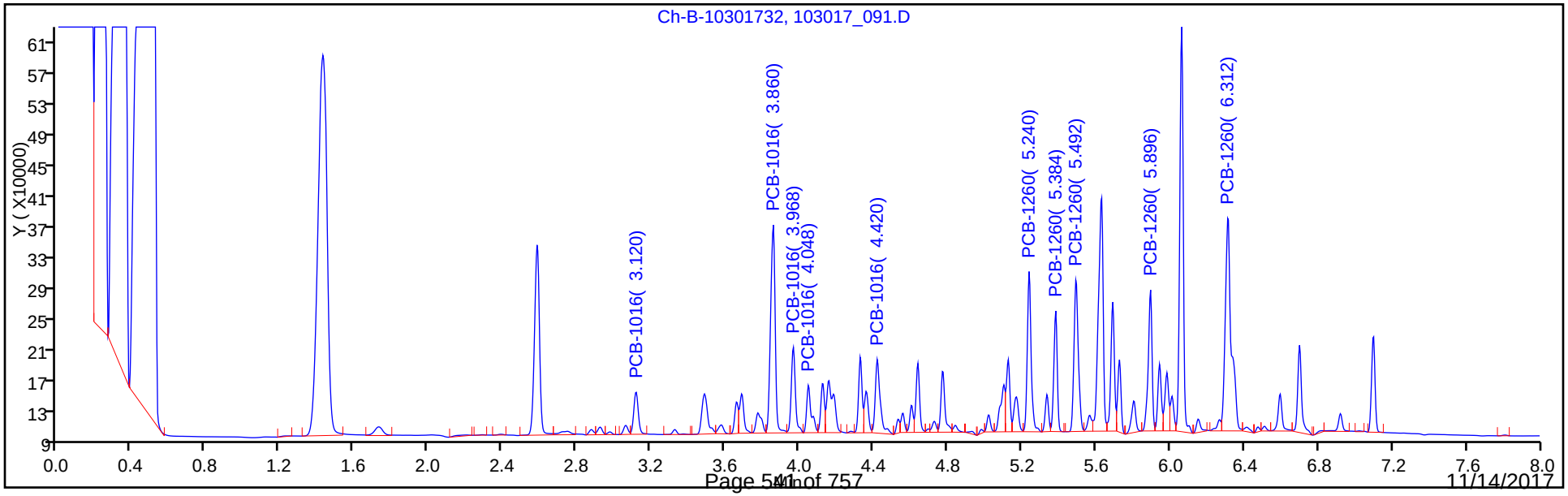
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_091.D

Injection Date:	06-Nov-2017 22:25:35	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	LCS 500-408564/2-A			Worklist Smp#:	45
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_091.D
Lims ID: LCS 500-408564/2-A
Client ID:
Sample Type: LCS
Inject. Date: 06-Nov-2017 22:25:35 ALS Bottle#: 0 Worklist Smp#: 45
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048859-045
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 07-Nov-2017 08:48:57 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 06-Nov-2017 22:25:35
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 06-Nov-2017 22:41:47
Process Host: XAWRK018

First Level Reviewer: hamnerb Date: 07-Nov-2017 08:48:57

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.006137	76.71
$ 10 DCB Decachlorobiphenyl	0.008000	0.004279	53.49

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.005408	67.60
$ 10 DCB Decachlorobiphenyl	0.008000	0.005121	64.02

Report Date: 07-Nov-2017 08:48:59 Chrom Revision: 2.2 16-Aug-2017 16:24:46

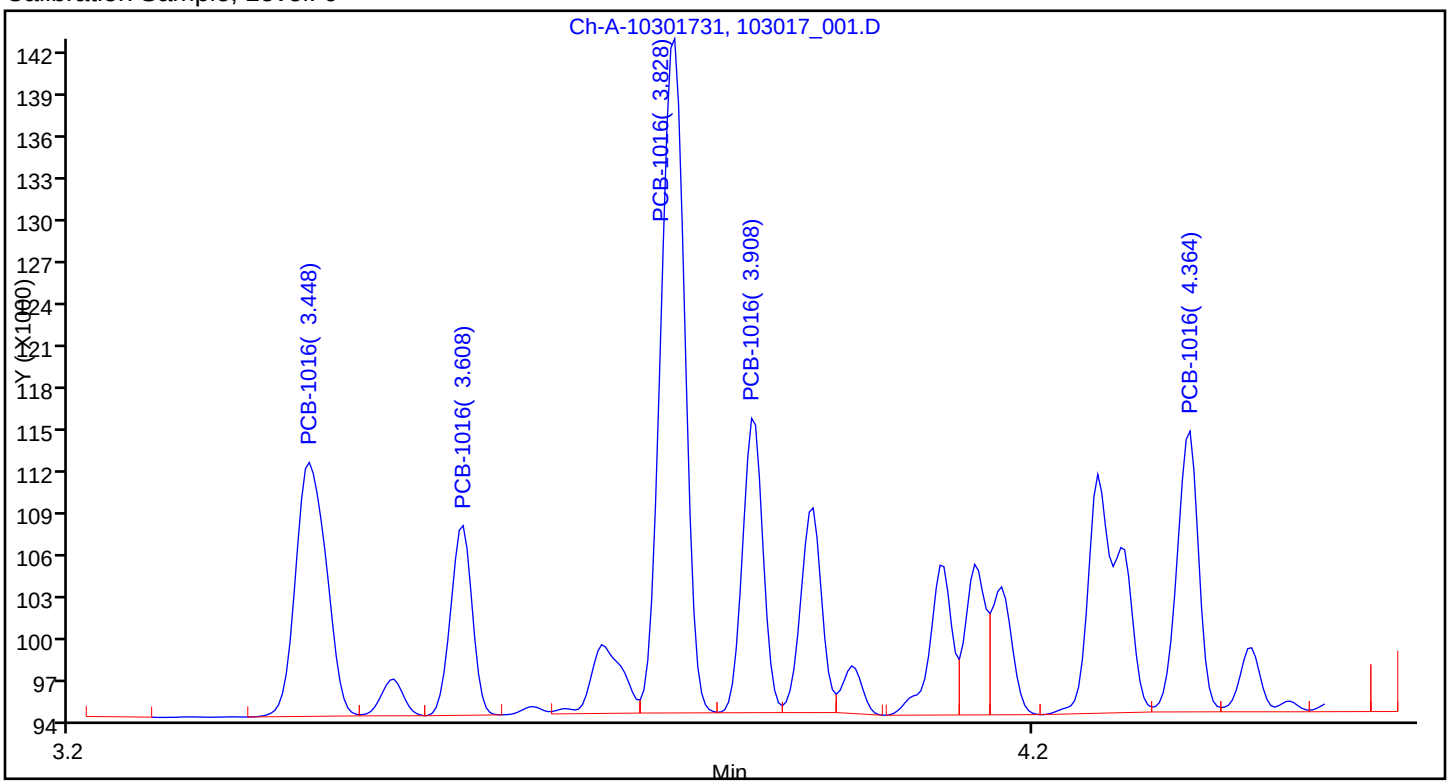
TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_091.D

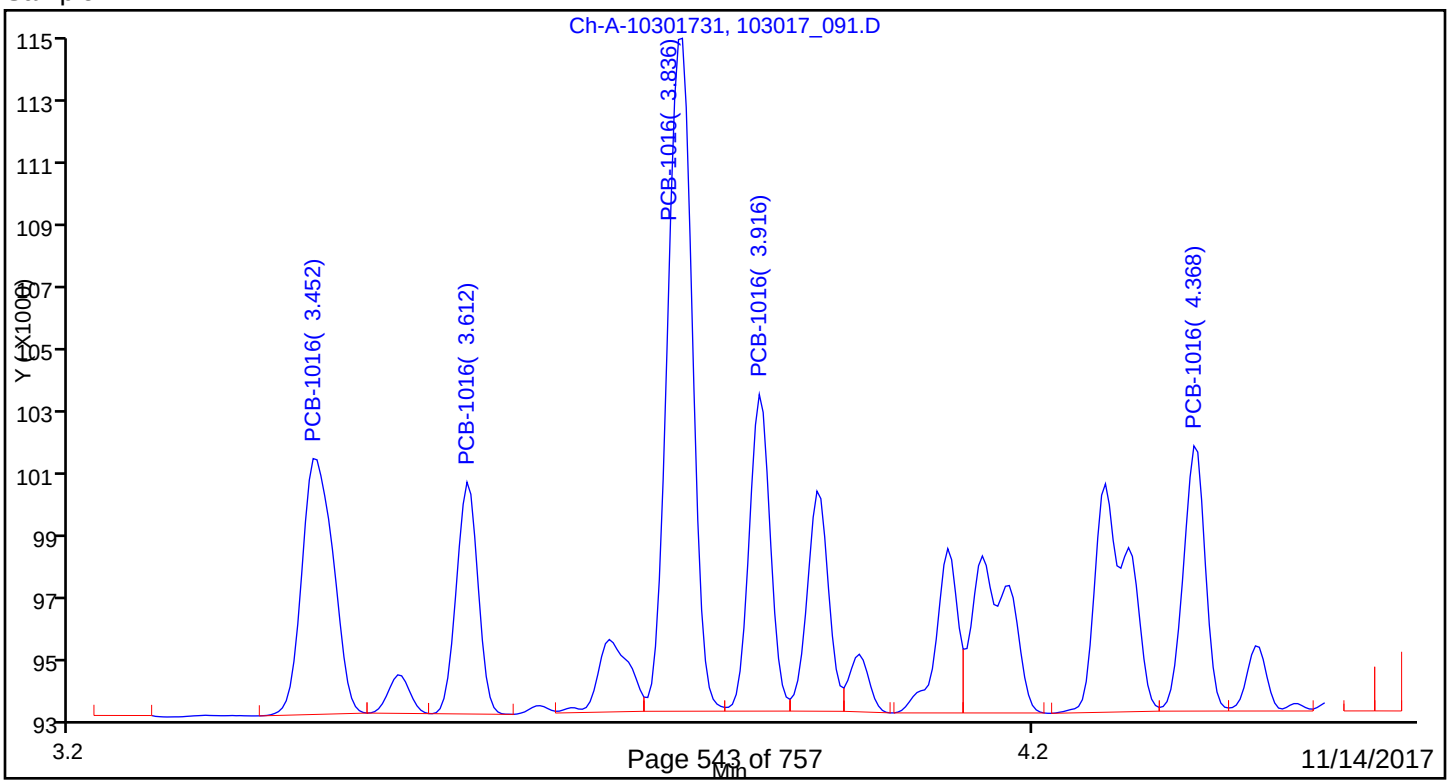
Injection Date:	06-Nov-2017 22:25:35	Instrument ID:	INST31-32		
Lims ID:	LCS 500-408564/2-A				
Client ID:					
Operator ID:	hamnerb	ALS Bottle#:	0	Worklist Smp#:	45
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		
Column:	ZB-5 (0.50 mm)	Detector	Ch-A-04091547		

1 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 07-Nov-2017 08:48:59 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_091.D

Injection Date: 06-Nov-2017 22:25:35 Instrument ID: INST31-32

Lims ID: LCS 500-408564/2-A

Client ID:

Operator ID: hamnerb ALS Bottle#: 0 Worklist Smp#: 45

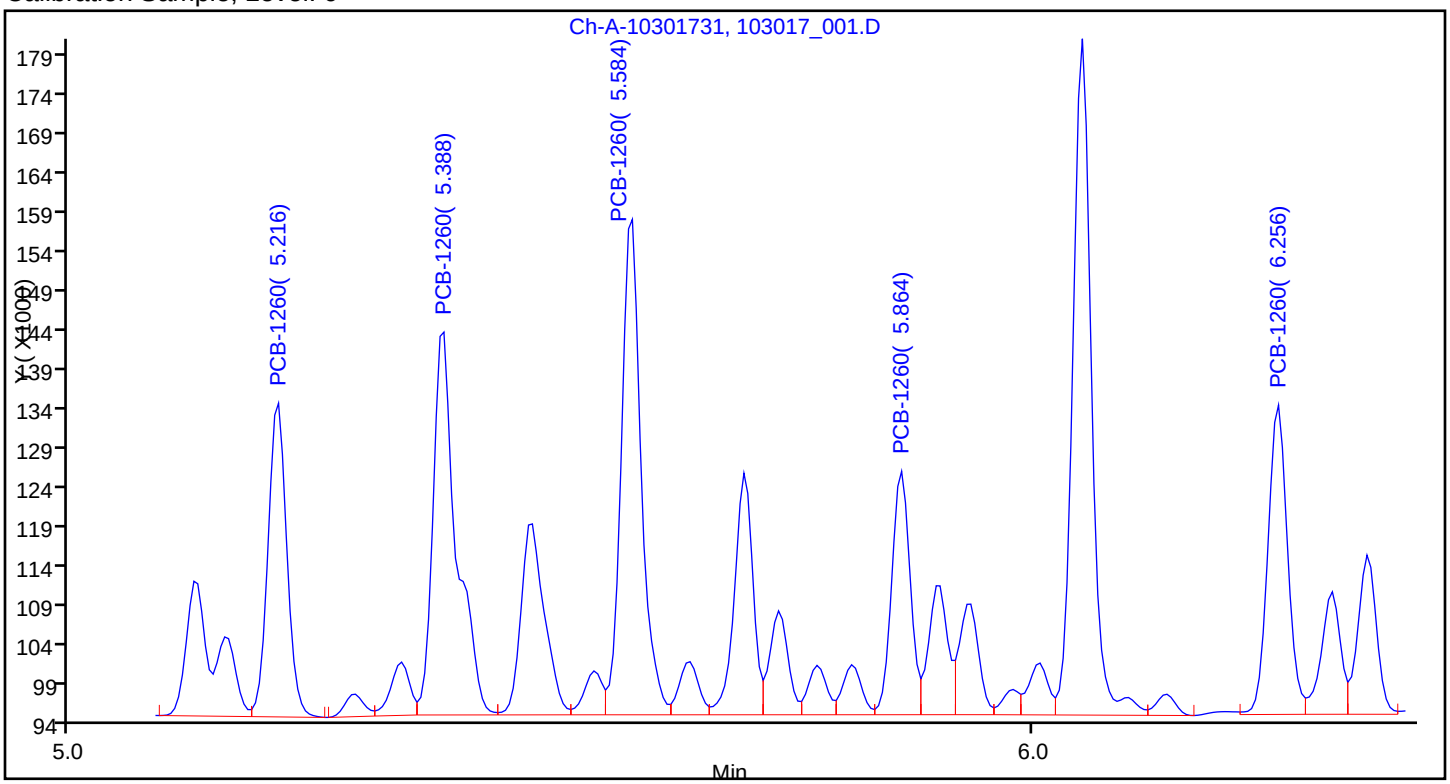
Injection Vol: 5.0 ul Dil. Factor: 1.0000

Method: 8082LVIIS_31-32 Limit Group: GC_PCB_8082A_IS

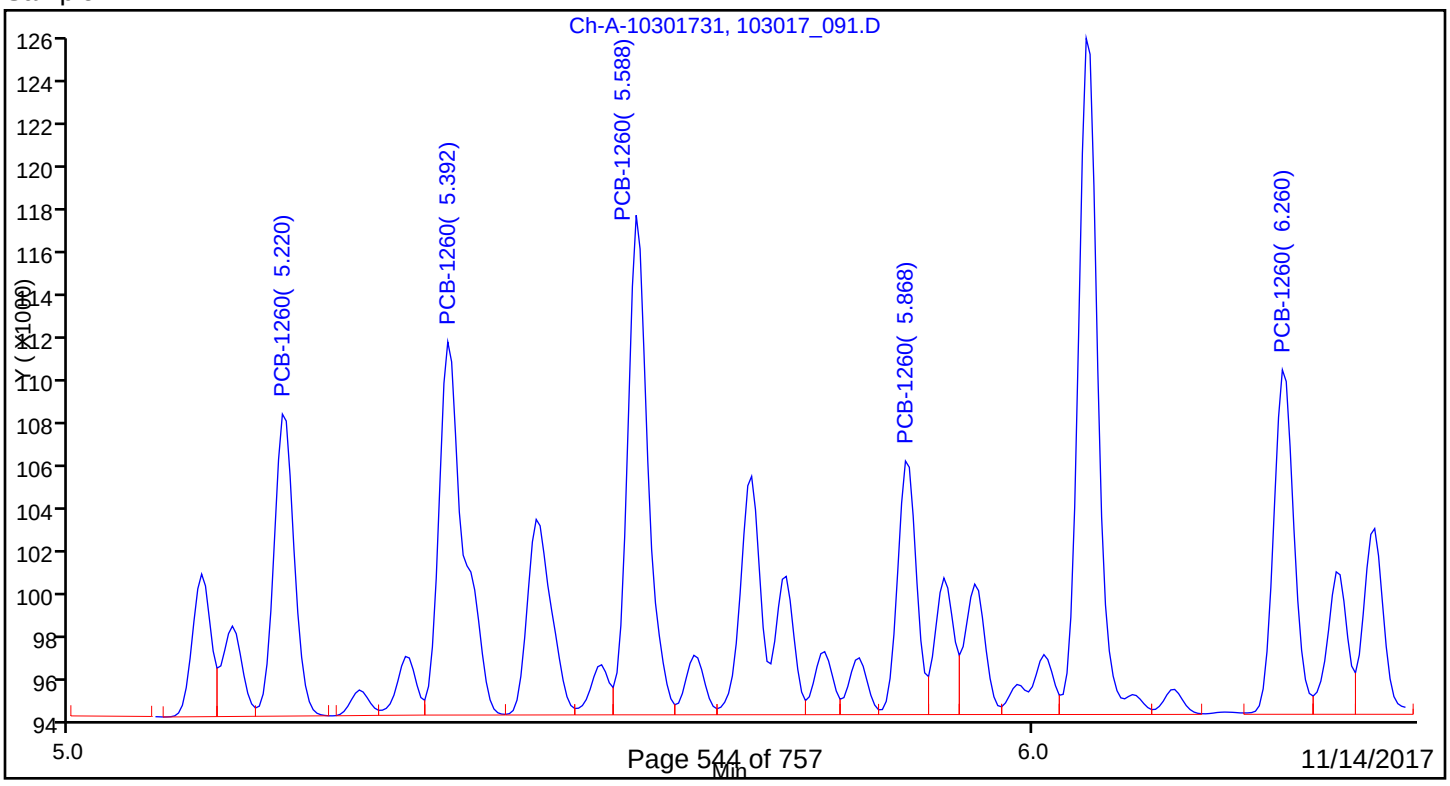
Column: ZB-5 (0.50 mm) Detector Ch-A-04091547

15 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago | Job No.: 500-136788-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 500-408564/3-A

Matrix: Water | Lab File ID: 103017_092.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 11/06/2017 08:38

Sample wt/vol: 250(mL) | Date Analyzed: 11/06/2017 22:41

Con. Extract Vol.: 10.0(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 408581 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.29		0.40	0.067
11096-82-5	PCB-1260	2.68		0.40	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	72		30-120
2051-24-3	DCB Decachlorobiphenyl	50		30-140

TestAmerica Chicago
Target Compound Quantitation Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_092.D
Lims ID: LCSD 500-408564/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 06-Nov-2017 22:41:47 ALS Bottle#: 0 Worklist Smp#: 46
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048859-046
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 07-Nov-2017 08:49:19 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 06-Nov-2017 22:41:47
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 06-Nov-2017 22:58:08
Process Host: XAWRK018

First Level Reviewer: hamnerb Date: 07-Nov-2017 08:49:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 3 1-Bromo-2-nitrobenzene							
1	0.928	0.940	-0.012	47604H	0.0200	0.0200	
2	1.428	1.428	0.000	485532H	0.0200	0.0200	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.696	2.692	0.004	22784H	0.008000	0.005771	
2	2.584	2.584	0.000	246219H	0.008000	0.005484	
						RPD = 5.11	
1 PCB-1016							
1	3.456	3.452	0.004	7883H	0.1000	0.0772	
1	3.612	3.608	0.004	7170H	0.1000	0.0975	
1	3.832	3.832	0.000	21488H	0.1000	0.0792	
1	3.916	3.912	0.004	10001H	0.1000	0.0808	
1	4.368	4.368	0.000	8479H	0.1000	0.0765	
2	3.116	3.116	0.000	57633H	0.1000	0.0836	
2	3.856	3.856	0.000	298811H	0.1000	0.1069	
2	3.968	3.964	0.004	127008H	0.1000	0.0971	
2	4.048	4.048	0.000	66156H	0.1000	0.0964	
2	4.420	4.420	0.000	103071H	0.1000	0.0932	
						RPD = 14.85	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
15 PCB-1260							
1	5.220	5.220	0.000	13295H	0.1000	0.0626	
1	5.392	5.392	0.000	16600H	0.1000	0.0649	
1	5.588	5.588	0.000	21907H	0.1000	0.0685	
1	5.868	5.868	0.000	11083H	0.1000	0.0669	
1	6.260	6.260	0.000	14433H	0.1000	0.0721	
2	5.240	5.240	0.000	227553H	0.1000	0.1007	
2	5.384	5.380	0.004	147249H	0.1000	0.1105	
2	5.492	5.492	0.000	213956H	0.1000	0.1092	
2	5.896	5.892	0.004	190743H	0.1000	0.1111	
2	6.312	6.312	0.000	285663H	0.1000	0.1203	
						RPD = 48.89	
8 1260 Res 1							
1		6.508			ND	ND	
2		4.232					
2 1260 Res 2							
1		6.620			ND	ND	
2		4.400					
5 1260 Res 3							
1		6.660			ND	ND	
2		4.928					
$ 10 DCB Decachlorobiphenyl							
1	7.132	7.124	0.008	13754H	0.008000	0.003978	
2	7.100	7.048	0.052	124829H	0.008000	0.005247	
						RPD = 27.52	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

H - Response Measured by Height

Reagents:

IS8000WRK_00017 Amount Added: 10.00 Units: uL Run Reagent

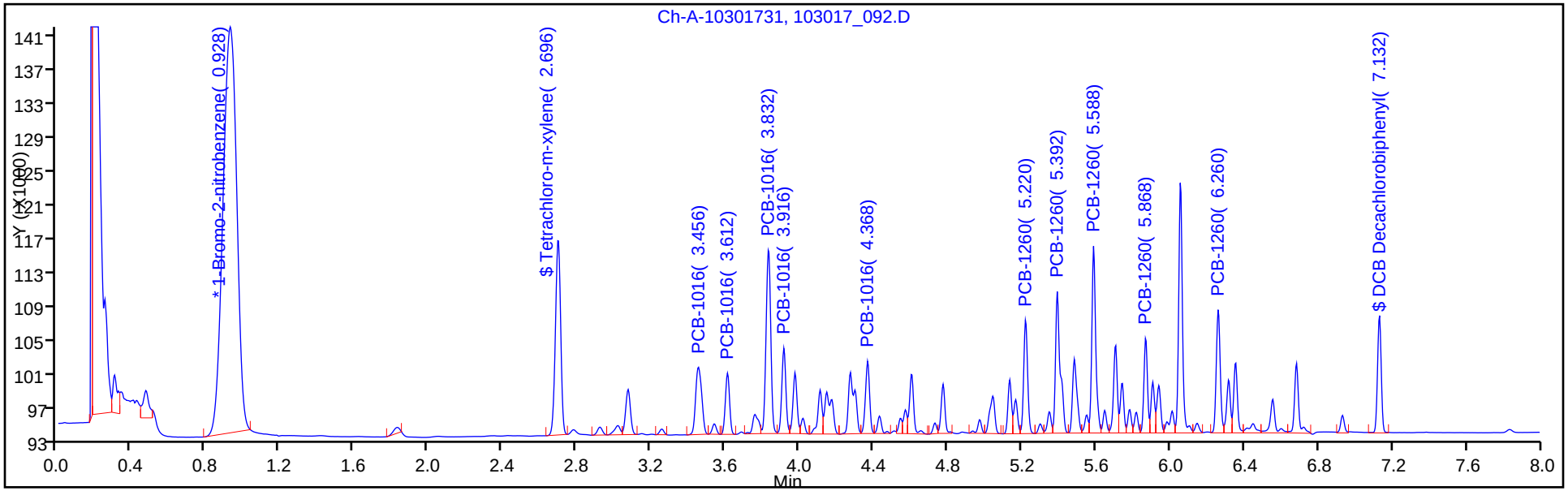
Report Date: 07-Nov-2017 08:49:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

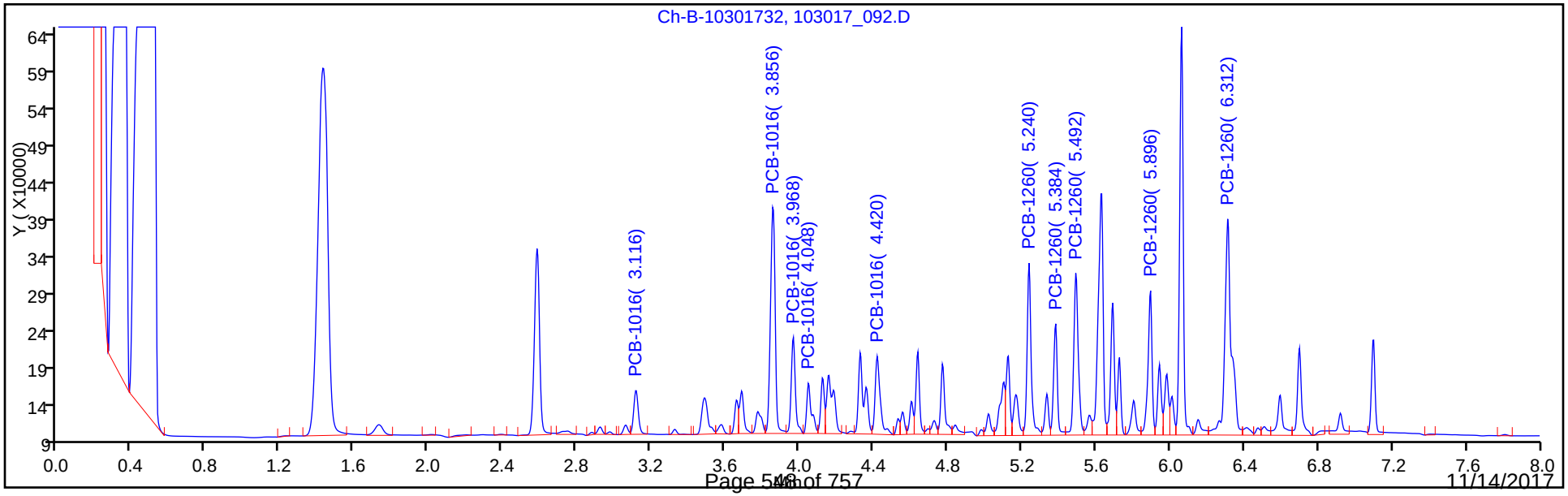
Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_092.D

Injection Date:	06-Nov-2017 22:41:47	Instrument ID:	INST31-32	Operator ID:	hamnerb
Lims ID:	LCSD 500-408564/3-A			Worklist Smp#:	46
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		

Column: ZB-5 (0.50 mm)



Column: ZB-CLP-Pesticide 2 (0.32 mm)



TestAmerica Chicago
Recovery Report

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_092.D
Lims ID: LCSD 500-408564/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 06-Nov-2017 22:41:47 ALS Bottle#: 0 Worklist Smp#: 46
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: #: dc= Name: 103017,pcb31,500-0048859-046
Operator ID: hamnerb Instrument ID: INST31-32

Method: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\8082LVIIS_31-32.m
Limit Group: GC_PCB_8082A_IS
Last Update: 07-Nov-2017 08:49:19 Calib Date: 30-Oct-2017 14:27:52
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Chicago\ChromData\GC31-32\20171030-48708.b\103017_010.D

Column 1 : ZB-5 (0.50 mm) Det: Ch-A-04091547 06-Nov-2017 22:41:47
Column 2 : ZB-CLP-Pesticide 2 (0.32 mm) Det: Ch-B-04091548 06-Nov-2017 22:58:08
Process Host: XAWRK018

First Level Reviewer: hamnerb Date: 07-Nov-2017 08:49:19

Surrogate Recovery, Detector: Ch-A-04091547

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.005771	72.14
$ 10 DCB Decachlorobiphenyl	0.008000	0.003978	49.72

Surrogate Recovery, Detector: Ch-B-04091548

Compound	Amount Added	Amount Recovered	% Rec.
$ 4 Tetrachloro-m-xylene	0.008000	0.005484	68.55
$ 10 DCB Decachlorobiphenyl	0.008000	0.005247	65.58

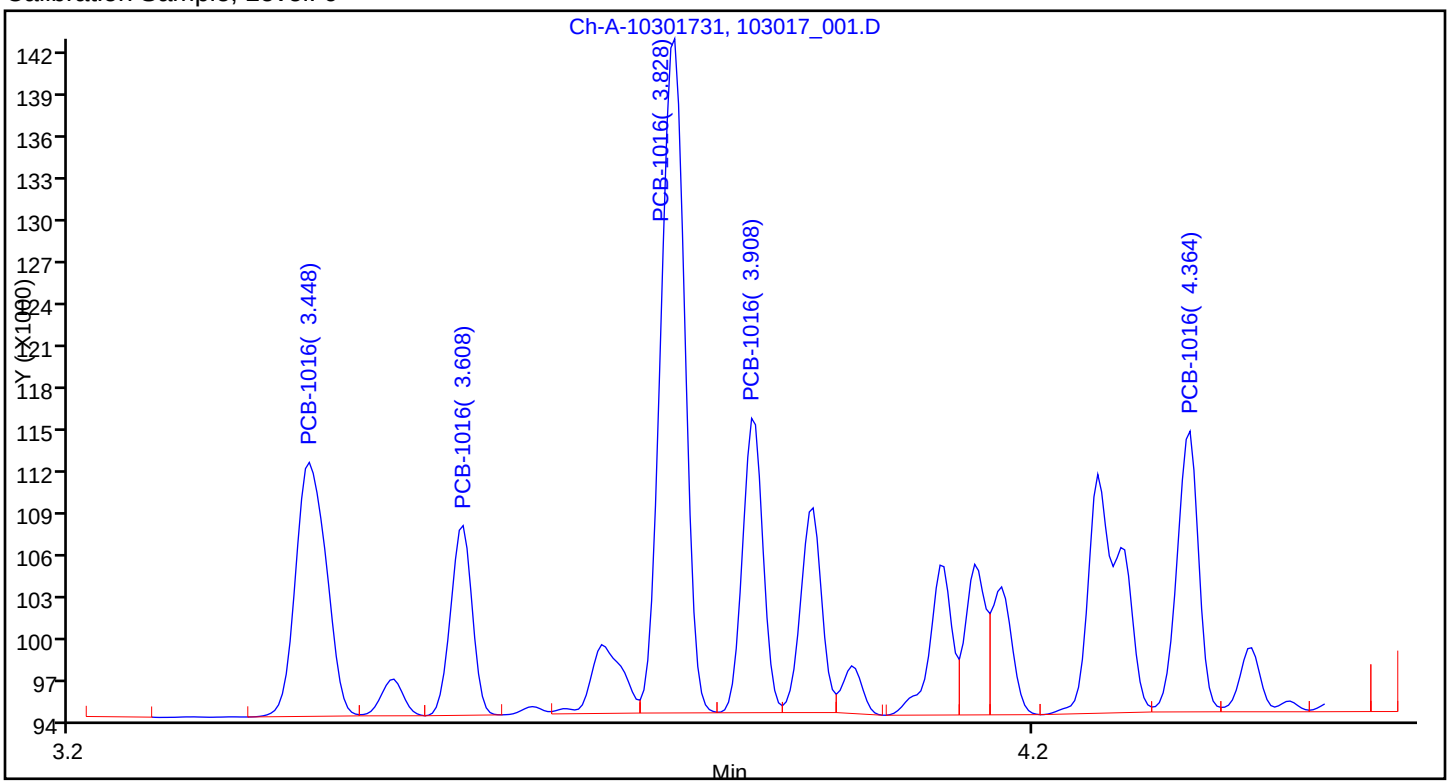
Report Date: 07-Nov-2017 08:49:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Chicago

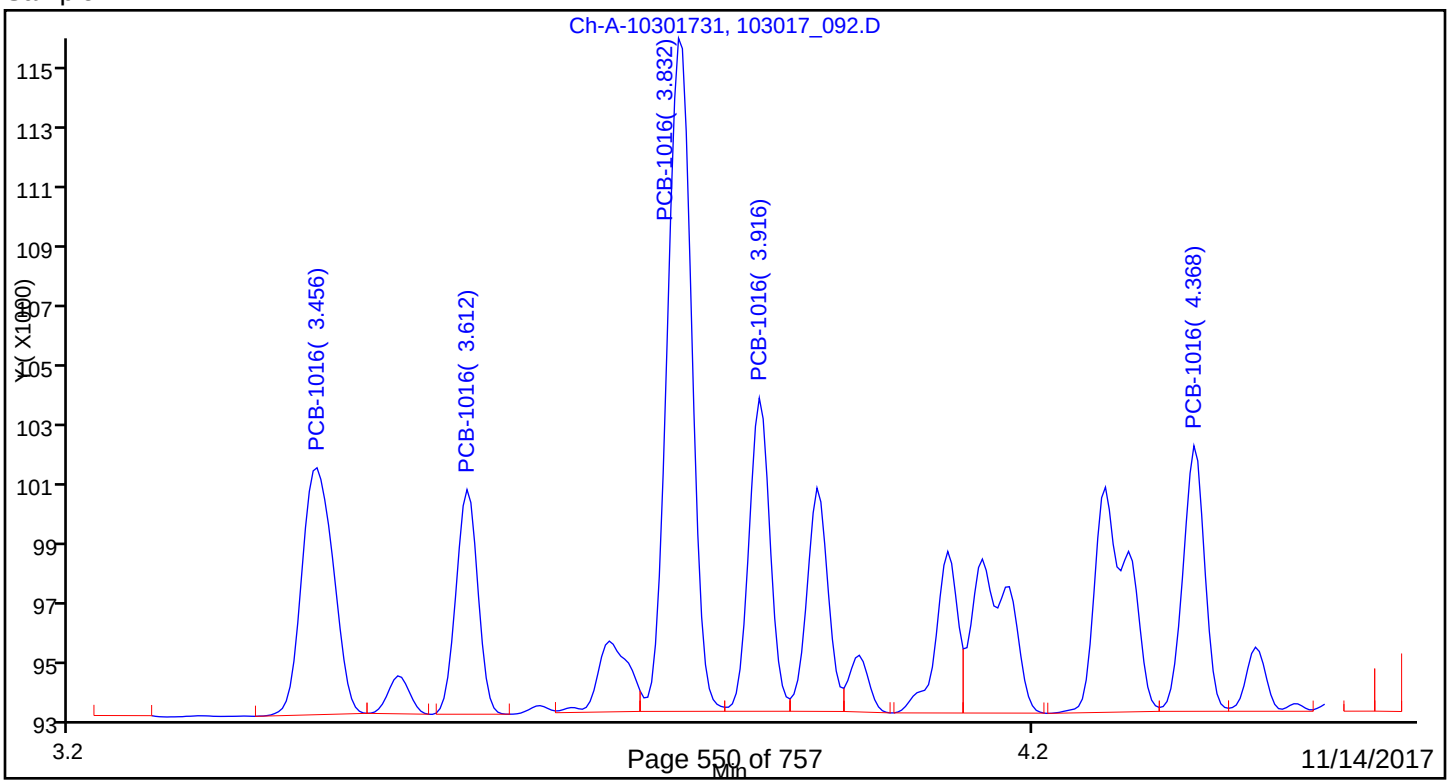
Data File:	\\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_092.D				
Injection Date:	06-Nov-2017 22:41:47	Instrument ID:	INST31-32		
Lims ID:	LCSD 500-408564/3-A				
Client ID:					
Operator ID:	hamnerb	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		
Column:	ZB-5 (0.50 mm)	Detector	Ch-A-04091547		

1 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 6



Sample



Report Date: 07-Nov-2017 08:49:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

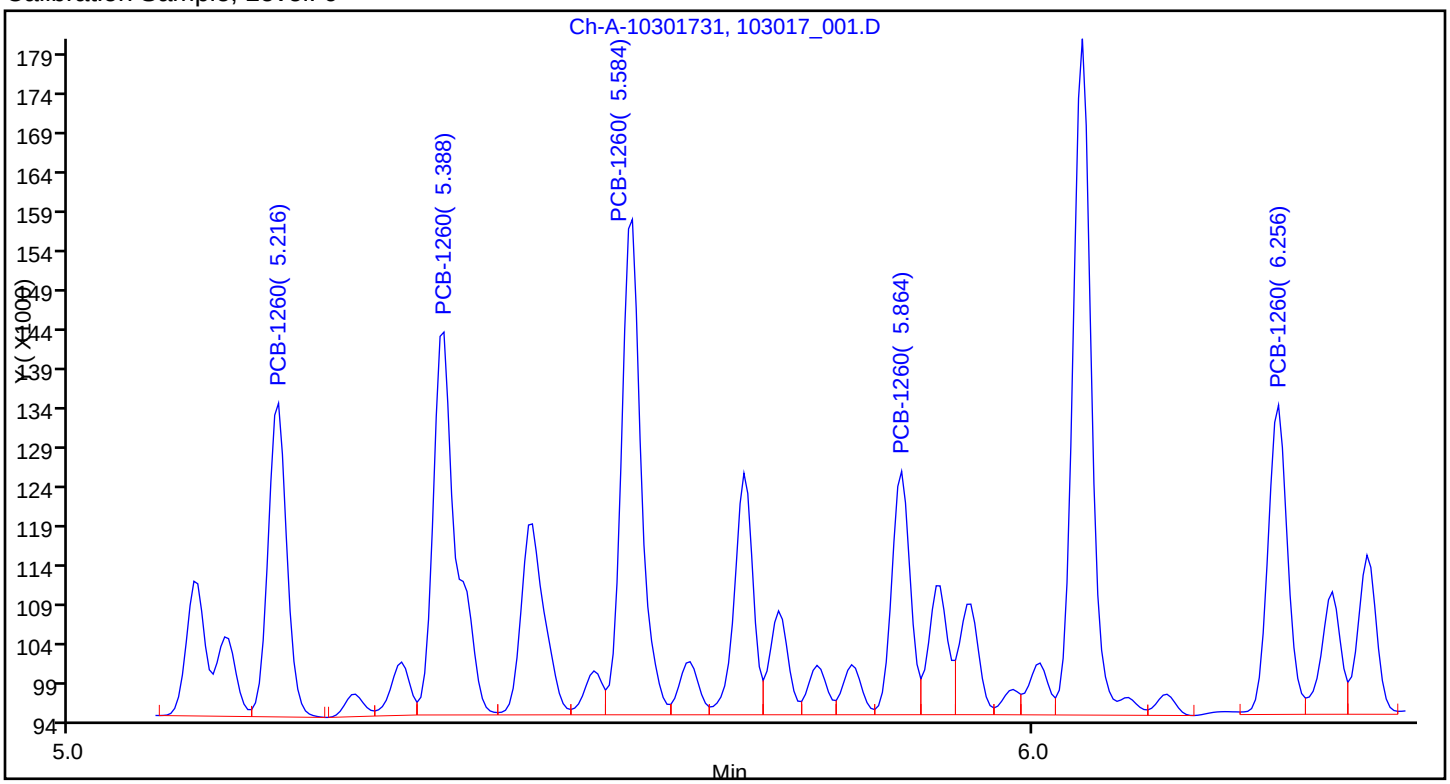
TestAmerica Chicago

Data File: \\ChromNA\Chicago\ChromData\GC31-32\20171106-48859.b\103017_092.D

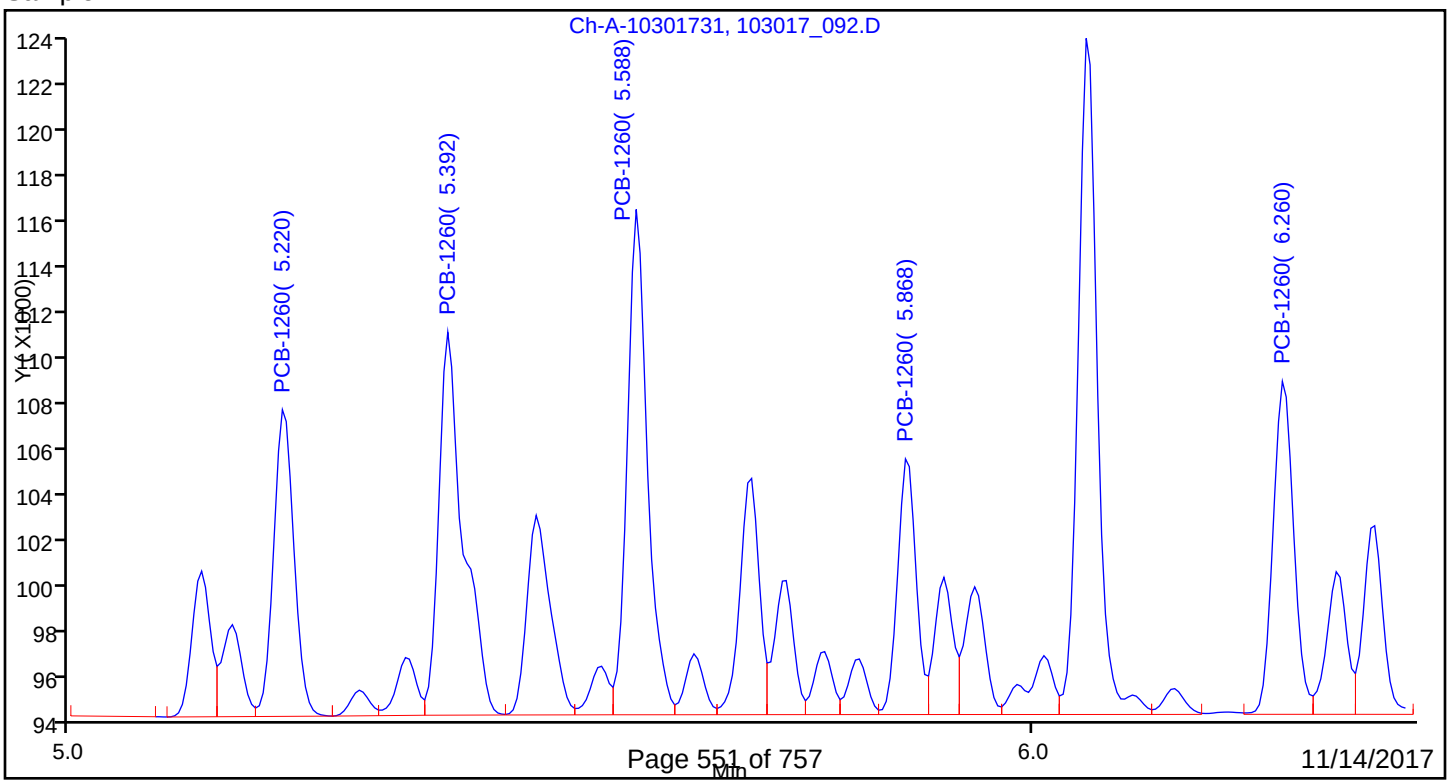
Injection Date:	06-Nov-2017 22:41:47	Instrument ID:	INST31-32		
Lims ID:	LCSD 500-408564/3-A				
Client ID:					
Operator ID:	hamnerb	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	8082LVIIS_31-32	Limit Group:	GC_PCB_8082A_IS		
Column:	ZB-5 (0.50 mm)	Detector	Ch-A-04091547		

15 PCB-1260, CAS: 11096-82-5

Calibration Sample, Level: 6



Sample



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: INST31-32 Start Date: 10/30/2017 12:01

Analysis Batch Number: 407585 End Date: 10/30/2017 14:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 500-407585/1		10/30/2017 12:01	1	103017_001.D	ZB-5 0.53(mm)
IC 500-407585/1		10/30/2017 12:01	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/2		10/30/2017 12:18	1	103017_002.D	ZB-5 0.53(mm)
IC 500-407585/2		10/30/2017 12:18	1		ZB-CLP-Pest2 0.53(mm)
ICIS 500-407585/3		10/30/2017 12:34	1	103017_003.D	ZB-5 0.53(mm)
ICIS 500-407585/3		10/30/2017 12:34	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/4		10/30/2017 12:50	1	103017_004.D	ZB-5 0.53(mm)
IC 500-407585/4		10/30/2017 12:50	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/5		10/30/2017 13:06	1	103017_005.D	ZB-5 0.53(mm)
IC 500-407585/5		10/30/2017 13:06	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/6		10/30/2017 13:23	1	103017_006.D	ZB-5 0.53(mm)
IC 500-407585/6		10/30/2017 13:23	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/7		10/30/2017 13:39	1	103017_007.D	ZB-5 0.53(mm)
IC 500-407585/7		10/30/2017 13:39	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/8		10/30/2017 13:55	1	103017_008.D	ZB-5 0.53(mm)
IC 500-407585/8		10/30/2017 13:55	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/9		10/30/2017 14:11	1	103017_009.D	ZB-5 0.53(mm)
IC 500-407585/9		10/30/2017 14:11	1		ZB-CLP-Pest2 0.53(mm)
IC 500-407585/10		10/30/2017 14:27	1	103017_010.D	ZB-5 0.53(mm)
IC 500-407585/10		10/30/2017 14:27	1		ZB-CLP-Pest2 0.53(mm)
ICV 500-407585/11		10/30/2017 14:44	1	103017_011.D	ZB-5 0.53(mm)
ICV 500-407585/11		10/30/2017 14:44	1		ZB-CLP-Pest2 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: INST31-32 Start Date: 11/06/2017 10:32

Analysis Batch Number: 408581 End Date: 11/07/2017 01:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 500-408581/1		11/06/2017 10:32	1	103017_047.D	ZB-5 0.53(mm)
CCVIS 500-408581/1		11/06/2017 10:32	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 10:48	1		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 10:48	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 11:04	1		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 11:04	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 11:20	1		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 11:20	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 11:53	1		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 11:53	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 12:09	1		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 12:09	1		ZB-CLP-Pest2 0.53(mm)
CCV 500-408581/9		11/06/2017 12:41	1		ZB-5 0.53(mm)
CCV 500-408581/9		11/06/2017 12:41	1		ZB-CLP-Pest2 0.53(mm)
CCV 500-408581/20		11/06/2017 15:40	1		ZB-5 0.53(mm)
CCV 500-408581/20		11/06/2017 15:40	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 15:56	1		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 15:56	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 16:12	1		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 16:12	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 16:45	10		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 16:45	10		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 17:17	10		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 17:17	10		ZB-CLP-Pest2 0.53(mm)
CCV 500-408581/29		11/06/2017 18:06	1		ZB-5 0.53(mm)
CCV 500-408581/29		11/06/2017 18:06	1		ZB-CLP-Pest2 0.53(mm)
CCV 500-408581/43		11/06/2017 21:53	1	103017_089.D	ZB-5 0.53(mm)
CCV 500-408581/43		11/06/2017 21:53	1		ZB-CLP-Pest2 0.53(mm)
MB 500-408564/1-A		11/06/2017 22:09	1	103017_090.D	ZB-5 0.53(mm)
ZZZZZ		11/06/2017 22:09	1		ZB-CLP-Pest2 0.53(mm)
LCS 500-408564/2-A		11/06/2017 22:25	1	103017_091.D	ZB-5 0.53(mm)
ZZZZZ		11/06/2017 22:25	1		ZB-CLP-Pest2 0.53(mm)
LCSD 500-408564/3-A		11/06/2017 22:41	1	103017_092.D	ZB-5 0.53(mm)
ZZZZZ		11/06/2017 22:41	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 22:58	1		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 22:58	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 23:14	1		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 23:14	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 23:30	1		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 23:30	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/06/2017 23:46	1		ZB-5 0.53(mm)
ZZZZZ		11/06/2017 23:46	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/07/2017 00:03	1		ZB-5 0.53(mm)
ZZZZZ		11/07/2017 00:03	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/07/2017 00:19	1		ZB-5 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: INST31-32 Start Date: 11/06/2017 10:32

Analysis Batch Number: 408581 End Date: 11/07/2017 01:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/07/2017 00:19	1		ZB-CLP-Pest2 0.53(mm)
ZZZZZ		11/07/2017 00:35	1		ZB-5 0.53(mm)
ZZZZZ		11/07/2017 00:35	1		ZB-CLP-Pest2 0.53(mm)
500-136788-1		11/07/2017 01:40	1	103017_103.D	ZB-5 0.53(mm)
ZZZZZ		11/07/2017 01:40	1		ZB-CLP-Pest2 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Batch Number: 408564 Batch Start Date: 11/06/17 08:45 Batch Analyst: Orr, Brejah S

Batch Method: 3510C Batch End Date: 11/06/17 09:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	EXCPPSUW 00936	EXPCBSPW66 00156	
MB 500-408564/1		3510C, 8082A		6 SU	250 mL	10.0 mL	200 uL		
LCS 500-408564/2		3510C, 8082A		6 SU	250 mL	10.0 mL	200 uL	200 uL	
LCSD 500-408564/3		3510C, 8082A		6 SU	250 mL	10.0 mL	200 uL	200 uL	
500-136788-E-1	CRMS-SW-04-110317	3510C, 8082A	T	7 SU	250 mL	10.0 mL	200 uL		

Batch Notes	
Balance ID	C-2619
Concentration End Time	2230
Concentration Start Time	2000
Analyst ID - Concentration	DAK
Exchange Solvent ID	4469548
Exchange Solvent Name	Hexane
Final Concentrator Volume	10.0 mL
Glass Wool ID	4379465
N-evap ID	C-2091
N-evap Temperature	30.0 Degrees C
Na2SO4 ID	4501612
NaCl ID	4488704
Prep Solvent ID	4507245
Prep Solvent Name	DCM
Prep Solvent Volume Used	90 mL
Person's name who did the prep	BSO/DC/NG
Sufficient volume for MS/MSD?	n
Syringe ID	A83, A85
Uncorrected N-evap Temperature	30.0 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136788-1

SDG No.:

Project: Chicago River Mystery Spill

Client Sample ID	Lab Sample ID
CRMS-SW-04-110317	500-136788-1

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CRMS-SW-04-110317 Lab Sample ID: 500-136788-1

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG ID.:

Matrix: Water Date Sampled: 11/03/2017 15:35

Reporting Basis: WET Date Received: 11/03/2017 17:56

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	<0.050	0.050	0.018	mg/L			5	6010C
7440-39-3	Barium	0.12	0.050	0.0062	mg/L			5	6010C
7440-43-9	Cadmium	0.0035	0.010	0.0022	mg/L	J	B	5	6010C
7440-47-3	Chromium	0.022	0.050	0.0085	mg/L	J		5	6010C
7439-92-1	Lead	0.061	0.025	0.014	mg/L			5	6010C
7782-49-2	Selenium	<0.050	0.050	0.027	mg/L			5	6010C
7440-22-4	Silver	<0.025	0.025	0.0074	mg/L			5	6010C
7439-97-6	Mercury	<0.20	0.20	0.098	ug/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

ICV Source: M17JICVIC_00002 Concentration Units: mg/L

CCV Source: M17JCCVIC_00003

Analyte	ICV 500-408958/6 11/07/2017 16:26				CCV 500-408958/13 11/07/2017 16:54				CCV 500-408958/26 11/07/2017 17:46			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.402		0.400	100	0.518		0.500	104	0.496		0.500	99
Barium	0.395		0.400	99	0.500		0.500	100	0.490		0.500	98
Cadmium	0.393		0.400	98	0.501		0.500	100	0.494		0.500	99
Chromium	0.384		0.400	96	0.492		0.500	98	0.495		0.500	99
Lead	0.397		0.400	99	0.508		0.500	102	0.503		0.500	101
Selenium	0.397		0.400	99	0.500		0.500	100	0.489		0.500	98
Silver	0.397		0.400	99	0.501		0.500	100	0.503		0.500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

ICV Source: M17JICVIC_00002 Concentration Units: mg/L

CCV Source: M17JCCVIC_00003

Analyte	CCV 500-408958/38 11/07/2017 18:36											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.510		0.500	102								
Barium	0.501		0.500	100								
Cadmium	0.498		0.500	100								
Chromium	0.483		0.500	97								
Lead	0.506		0.500	101								
Selenium	0.496		0.500	99								
Silver	0.496		0.500	99								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

ICV Source: M17JCCVLIC_00001 Concentration Units: mg/L

CCV Source: M17JCCVLIC_00001

Analyte	ICVL 500-408958/8 11/07/2017 16:34				CCVL 500-408958/40 11/07/2017 18:45							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0107		0.0100	107	0.0102		0.0100	102				
Barium	0.0101		0.0100	101	0.00995	J	0.0100	100				
Cadmium	0.00234		0.00200	117	0.00213		0.00200	106				
Chromium	0.0105		0.0100	105	0.0103		0.0100	103				
Lead	0.00436	J	0.00500	87	0.00551		0.00500	110				
Selenium	0.00868	J	0.0100	87	0.00790	J	0.0100	79				
Silver	0.00486	J	0.00500	97	0.00470	J	0.00500	94				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

ICV Source: M15HSTKHG_00001 Concentration Units: ug/L

CCV Source: M15HSTKHG_00001

Analyte	ICV 500-408771/7 11/07/2017 06:56				CCV 500-408771/19 11/07/2017 07:17							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	1.93		2.00	96	1.09		1.00	109				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Method: 6010C Instrument ID: ICP8

Lab Sample ID: CRI 500-408958/9 Concentration Units: mg/L

CRQL Check Standard Source: M17JCRIIC_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.0200	0.0206		103	50-150
Barium	0.0200	0.0205		103	50-150
Cadmium	0.00400	0.00444		111	50-150
Chromium	0.0200	0.0205		102	50-150
Lead	0.0100	0.0107		107	50-150
Selenium	0.0200	0.0204		102	50-150
Silver	0.0100	0.0100		100	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Method: 7470A Instrument ID: HG6

Lab Sample ID: CRA 500-408771/9 Concentration Units: ug/L

CRQL Check Standard Source: M17BSTKHG_00001

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.205		102	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICBIS 500-408958/7 11/07/2017 16:30		CCB 500-408958/14 11/07/2017 16:58		CCB 500-408958/27 11/07/2017 17:50		CCB 500-408958/39 11/07/2017 18:41	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.010	<0.010		<0.010		<0.010		<0.010	
Barium	0.010	<0.010		<0.010		<0.010		<0.010	
Cadmium	0.0020	<0.0020		<0.0020		<0.0020		<0.0020	
Chromium	0.010	<0.010		<0.010		<0.010		<0.010	
Lead	0.0050	<0.0050		<0.0050		<0.0050		<0.0050	
Selenium	0.010	<0.010		<0.010		<0.010		<0.010	
Silver	0.0050	<0.0050		<0.0050		<0.0050		<0.0050	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 500-408771/8 11/07/2017 06:57		CCB 500-408771/20 11/07/2017 07:18					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	<0.20		<0.20					

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 500-408743/1-A

Instrument Code: ICP8 Batch No.: 408958

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	<0.010			6010C
7440-39-3	Barium	<0.010			6010C
7440-43-9	Cadmium	0.000546	J		6010C
7440-47-3	Chromium	<0.010			6010C
7439-92-1	Lead	<0.0050			6010C
7782-49-2	Selenium	<0.010			6010C
7440-22-4	Silver	<0.0050			6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 500-408621/12-A

Instrument Code: HG6 Batch No.: 408771

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	<0.20			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: ICSAB 500-408958/11 Instrument ID: ICP8

Lab File ID: P8110717B.asc ICS Source: M17JISBIC_00002

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**0.100**	**0.106**	**106**
Barium	**0.500**	**0.497**	**99**
Cadmium	**1.00**	**1.04**	**104**
Chromium	**0.500**	**0.455**	**91**
Lead	**0.0500**	**0.0544**	**109**
Selenium	**0.0500**	**0.0435**	**87**
Silver	**0.200**	**0.215**	**107**
Aluminum	*500*	*513*	*103*
Antimony	*0.600*	*0.594*	*99*
Beryllium	*0.500*	*0.511*	*102*
Bismuth		*-0.0013*	
Boron		*-0.0011*	
Calcium	*500*	*485*	*97*
Cobalt	*0.500*	*0.504*	*101*
Copper	*0.500*	*0.555*	*111*
Iron	*200*	*193*	*96*
Lithium		*-0.0074*	
Magnesium	*500*	*504*	*101*
Manganese	*0.500*	*0.462*	*92*
Molybdenum		*0.0039*	
Nickel	*1.00*	*0.972*	*97*
Potassium		*-0.0066*	
Silicon		*-0.0185*	
Sodium		*0.0276*	
Strontium		*0.0045*	
Thallium	*0.100*	*0.0843*	*84*
Tin		*0.0064*	
Titanium		*0.0029*	
Vanadium	*0.500*	*0.479*	*96*
Zinc	*1.00*	*1.00*	*100*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Lab Sample ID: ICSA 500-408958/12 Instrument ID: ICP8

Lab File ID: P8110717B.asc ICS Source: M17JISAIC_00002

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**0.0022**	
Barium		**0.0000**	
Cadmium		**0.0000**	
Chromium		**0.0032**	
Lead		**0.0020**	
Selenium		**-0.0089**	
Silver		**-0.0003**	
Aluminum	*500*	*514*	*103*
Antimony		*0.0115*	
Beryllium		*0.0011*	
Bismuth		*-0.0020*	
Boron		*-0.0025*	
Calcium	*500*	*482*	*96*
Cobalt		*-0.0006*	
Copper		*0.0045*	
Iron	*200*	*192*	*96*
Lithium		*-0.0078*	
Magnesium	*500*	*503*	*101*
Manganese		*-0.0006*	
Molybdenum		*0.0051*	
Nickel		*-0.0050*	
Potassium		*-0.0132*	
Silicon		*-0.0201*	
Sodium		*0.0268*	
Strontium		*0.0045*	
Thallium		*0.0039*	
Tin		*0.0056*	
Titanium		*0.0012*	
Vanadium		*0.0046*	
Zinc		*-0.0009*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-408743/2-A

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

Sample Matrix: Water LCS Source: M17ISPKIC_00001

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	0.100	0.103		103	80	120		6010C
Barium	2.00	2.14		107	80	120		6010C
Cadmium	0.0500	0.0530		106	80	120		6010C
Chromium	0.200	0.211		106	80	120		6010C
Lead	0.100	0.0991		99	80	120		6010C
Selenium	0.100	0.0992		99	80	120		6010C
Silver	0.0500	0.0506		101	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 500-408621/13-A

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

Sample Matrix: Water LCS Source: M15HSTKHG_00001

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	2.00	2.05		103	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136788-1

SDG Number:

Matrix: Water Instrument ID: ICP8

Method: 6010C MDL Date: 03/29/2017 09:38

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Arsenic		0.01	0.00365
Barium		0.01	0.00123
Cadmium		0.002	0.000433
Chromium		0.01	0.00169
Lead		0.005	0.0027
Selenium		0.01	0.00532
Silver		0.005	0.00148

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136788-1

SDG Number:

Matrix: Water Instrument ID: ICP8

Method: 6010C XMDL Date: 06/16/2010 15:40

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic		0.01	0.005
Barium		0.01	0.005
Cadmium		0.002	0.001
Chromium		0.01	0.005
Lead		0.005	0.0025
Selenium		0.01	0.005
Silver		0.005	0.0025

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136788-1

SDG Number:

Matrix: Water Instrument ID: HG6

Method: 7470A MDL Date: 03/29/2017 08:53

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.0984

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136788-1

SDG Number:

Matrix: Water Instrument ID: HG6

Method: 7470A XMDL Date: 03/29/2017 08:53

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.0984

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136788-1

SDG No.:

ICP-AES Instrument ID: ICP8 Date: 10/27/2017

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K
Aluminum	308.215														
Antimony	206.833		0.000010									0.010153		0.000012	
Arsenic	189.042		-0.000009									-0.003667		-0.000007	
Barium	455.403														
Beryllium	234.861													0.000007	
Bismuth	223.061													0.000014	
Boron	208.959														
Cadmium	228.802			0.005840		-0.000232								0.000012	
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616					-0.000350						-0.000199		0.000003	
Copper	324.754														
Iron	271.441										0.098090				
Lead	220.353		-0.000036										0.000134	-0.000030	
Lithium	670.784								0.000024						
Magnesium	279.079													-0.000051	
Manganese	257.610													0.000010	
Molybdenum	202.030		-0.000011											-0.000025	
Nickel	231.604													0.000038	
Potassium	766.490														
Selenium	196.090		-0.000021											-0.000027	
Silicon	212.412														
Silver	328.068													-0.000001	
Sodium	589.592														
Strontium	421.552														
Thallium	190.856		-0.000022								0.001123			0.000004	
Tin	189.989														
Titanium	334.941								0.000003						
Vanadium	292.402													0.000020	
Zinc	206.200		0.000003									-0.000534			

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136788-1

SDG No.:

ICP-AES Instrument ID: ICP8 Date: 10/27/2017

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Si	Sn	Sr	Ti	Tl
Aluminum	308.215				0.007252										
Antimony	206.833													-0.002346	
Arsenic	189.042				-0.000257										
Barium	455.403														
Beryllium	234.861														
Bismuth	223.061													-0.007347	
Boron	208.959				0.020192										
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616													0.002231	
Copper	324.754														
Iron	271.441														
Lead	220.353				-0.000535						0.000031				
Lithium	670.784														
Magnesium	279.079			-0.003611	-0.006776										
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	212.412				0.019471										
Silver	328.068														
Sodium	589.592														
Strontium	421.552														
Thallium	190.856													-0.000790	
Tin	189.989														
Titanium	334.941														
Vanadium	292.402				-0.001868									0.000186	
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Chicago Job Number: 500-136788-1

SDG No.:

ICP-AES Instrument ID: ICP8 Date: 10/27/2017

Analyte	Wave Length	V	Zn												
Aluminum	308.215	0.026319													
Antimony	206.833	-0.001068													
Arsenic	189.042														
Barium	455.403														
Beryllium	234.861														
Bismuth	223.061														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	324.754														
Iron	271.441	-0.008145													
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	212.412														
Silver	328.068														
Sodium	589.592														
Strontium	421.552														
Thallium	190.856	-0.000102													
Tin	189.989														
Titanium	334.941														
Vanadium	292.402														
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-136788-1

SDG No.:

Instrument ID: ICP8 Date: 10/16/2015 10:47

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		20	6010C
Barium		20	6010C
Cadmium		10	6010C
Chromium		20	6010C
Lead		100	6010C
Selenium		20	6010C
Silver		10	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Chicago Job No: 500-136788-1

SDG No.:

Instrument ID: HG6 Date: 11/01/2010 11:39

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury		5.0	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-408743/1-A	11/07/2017 07:38	408743		50	50
LCS 500-408743/2-A	11/07/2017 07:38	408743		50	50
500-136788-1	11/07/2017 07:38	408743		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 500-408621/12-A	11/06/2017 14:30	408621		25	25
LCS 500-408621/13-A	11/06/2017 14:30	408621		25	25
500-136788-1	11/06/2017 14:30	408621		25	25

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: ICP8 Analysis Method: 6010C

Start Date: 11/07/2017 16:06 End Date: 11/07/2017 20:31

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Ba	Cd	Cr	Pb	Se																		
ZZZZZZ			16:06																									
ZZZZZZ			16:10																									
ZZZZZZ			16:14																									
ZZZZZZ			16:18																									
ZZZZZZ			16:22																									
ICV 500-408958/6	1		16:26	X	X	X	X	X	X	X																		
ICBIS 500-408958/7	1		16:30	X	X	X	X	X	X	X																		
ICVL 500-408958/8	1		16:34	X	X	X	X	X	X	X																		
CRI 500-408958/9	1		16:38	X	X	X	X	X	X	X																		
ZZZZZZ			16:42																									
ICSAB 500-408958/11	1		16:46	X	X	X	X	X	X	X																		
ICSA 500-408958/12	1		16:50	X	X	X	X	X	X	X																		
CCV 500-408958/13	1		16:54	X	X	X	X	X	X	X																		
CCB 500-408958/14	1		16:58	X	X	X	X	X	X	X																		
ZZZZZZ			17:02																									
MB 500-408743/1-A	1	T	17:06	X	X	X	X	X	X	X																		
LCS 500-408743/2-A	1	T	17:10	X	X	X	X	X	X	X																		
ZZZZZZ			17:14																									
ZZZZZZ			17:18																									
ZZZZZZ			17:22																									
ZZZZZZ			17:26																									
ZZZZZZ			17:30																									
ZZZZZZ			17:34																									
ZZZZZZ			17:38																									
ZZZZZZ			17:42																									
CCV 500-408958/26	1		17:46	X	X	X	X	X	X	X																		
CCB 500-408958/27	1		17:50	X	X	X	X	X	X	X																		
ZZZZZZ			17:54																									
ZZZZZZ			17:58																									
ZZZZZZ			18:02																									
500-136788-1	5	T	18:06	X	X	X	X	X	X	X																		
ZZZZZZ			18:12																									
ZZZZZZ			18:16																									
ZZZZZZ			18:20																									
ZZZZZZ			18:24																									
ZZZZZZ			18:28																									
ZZZZZZ			18:32																									
CCV 500-408958/38	1		18:36	X	X	X	X	X	X	X																		
CCB 500-408958/39	1		18:41	X	X	X	X	X	X	X																		
CCVL 500-408958/40	1		18:45	X	X	X	X	X	X	X																		
ZZZZZZ			18:49																									
ZZZZZZ			18:53																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: ICP8 Analysis Method: 6010C

Start Date: 11/07/2017 16:06 End Date: 11/07/2017 20:31

Lab Sample Id	D/F	Type	Time	Analytes																								
				Ag	As	Ba	Cd	Cr	Pb	Se																		
ZZZZZZ			18:57																									
ZZZZZZ			19:01																									
ZZZZZZ			19:07																									
ZZZZZZ			19:11																									
ZZZZZZ			19:15																									
ZZZZZZ			19:19																									
ZZZZZZ			19:23																									
ZZZZZZ			19:27																									
CCV 500-408958/51			19:31																									
CCB 500-408958/52			19:35																									
ZZZZZZ			19:39																									
ZZZZZZ			19:43																									
ZZZZZZ			19:47																									
ZZZZZZ			19:51																									
ZZZZZZ			19:55																									
ZZZZZZ			19:59																									
ZZZZZZ			20:03																									
ZZZZZZ			20:07																									
ZZZZZZ			20:11																									
ZZZZZZ			20:15																									
CCV 500-408958/63			20:18																									
CCB 500-408958/64			20:23																									
ZZZZZZ			20:27																									
ZZZZZZ			20:31																									

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: HG6 Analysis Method: 7470A

Start Date: 11/07/2017 06:44 End Date: 11/07/2017 10:00

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
ZZZZZZ			06:44																									
ZZZZZZ			06:46																									
ZZZZZZ			06:47																									
ZZZZZZ			06:49																									
ZZZZZZ			06:50																									
ZZZZZZ			06:52																									
ICV 500-408771/7	1		06:56	X																								
ICB 500-408771/8	1		06:57	X																								
CRA 500-408771/9	1		06:59	X																								
MB 500-408621/12-A	1	T	07:03	X																								
LCS 500-408621/13-A	1	T	07:05	X																								
ZZZZZZ			07:06																									
500-136788-1	1	T	07:08	X																								
ZZZZZZ			07:09																									
ZZZZZZ			07:11																									
ZZZZZZ			07:12																									
ZZZZZZ			07:14																									
ZZZZZZ			07:15																									
CCV 500-408771/19	1		07:17	X																								
CCB 500-408771/20	1		07:18	X																								
ZZZZZZ			07:20																									
ZZZZZZ			07:21																									
ZZZZZZ			07:23																									
ZZZZZZ			07:24																									
ZZZZZZ			07:26																									
ZZZZZZ			07:27																									
ZZZZZZ			07:28																									
ZZZZZZ			07:30																									
ZZZZZZ			07:31																									
ZZZZZZ			07:33																									
CCV 500-408771/31			07:34																									
CCB 500-408771/32			07:36																									
ZZZZZZ			07:37																									
ZZZZZZ			07:39																									
ZZZZZZ			07:40																									
ZZZZZZ			07:42																									
ZZZZZZ			07:43																									
ZZZZZZ			07:44																									
ZZZZZZ			07:46																									
ZZZZZZ			07:47																									
ZZZZZZ			07:49																									
ZZZZZZ			07:50																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: HG6 Analysis Method: 7470A

Start Date: 11/07/2017 06:44 End Date: 11/07/2017 10:00

Lab Sample Id	D/F	Type	Time	Analytes
				Hg
CCV 500-408771/43			07:52	
CCB 500-408771/44			07:53	
ZZZZZZ			07:55	
ZZZZZZ			07:56	
ZZZZZZ			07:58	
ZZZZZZ			07:59	
ZZZZZZ			08:01	
ZZZZZZ			08:02	
ZZZZZZ			08:04	
ZZZZZZ			08:05	
ZZZZZZ			08:06	
ZZZZZZ			08:08	
CCV 500-408771/55			08:09	
CCB 500-408771/56			08:11	
ZZZZZZ			08:12	
ZZZZZZ			08:14	
ZZZZZZ			08:15	
ZZZZZZ			08:17	
ZZZZZZ			08:18	
ZZZZZZ			08:20	
ZZZZZZ			08:21	
ZZZZZZ			08:22	
ZZZZZZ			08:24	
ZZZZZZ			08:25	
CCV 500-408771/67			08:31	
CCB 500-408771/68			08:32	
ZZZZZZ			08:34	
ZZZZZZ			08:35	
ZZZZZZ			08:37	
ZZZZZZ			08:38	
ZZZZZZ			08:40	
ZZZZZZ			08:41	
ZZZZZZ			08:42	
ZZZZZZ			08:44	
ZZZZZZ			08:45	
ZZZZZZ			08:47	
CCV 500-408771/79			08:48	
CCB 500-408771/80			08:50	
ZZZZZZ			08:51	
ZZZZZZ			08:53	
ZZZZZZ			08:54	
ZZZZZZ			08:55	

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Instrument ID: HG6 Analysis Method: 7470A

Start Date: 11/07/2017 06:44 End Date: 11/07/2017 10:00

Lab Sample Id	D/F	Type	Time	Analytes																								
				Hg																								
ZZZZZZ			08:57																									
ZZZZZZ			08:58																									
ZZZZZZ			09:00																									
ZZZZZZ			09:01																									
ZZZZZZ			09:03																									
ZZZZZZ			09:04																									
CCV 500-408771/91			09:06																									
CCB 500-408771/92			09:07																									
ZZZZZZ			09:09																									
ZZZZZZ			09:10																									
ZZZZZZ			09:11																									
ZZZZZZ			09:13																									
ZZZZZZ			09:14																									
ZZZZZZ			09:16																									
ZZZZZZ			09:18																									
ZZZZZZ			09:19																									
ZZZZZZ			09:21																									
ZZZZZZ			09:22																									
CCV 500-408771/103			09:24																									
CCB 500-408771/104			09:25																									
ZZZZZZ			09:27																									
ZZZZZZ			09:28																									
ZZZZZZ			09:29																									
ZZZZZZ			09:31																									
ZZZZZZ			09:32																									
ZZZZZZ			09:34																									
ZZZZZZ			09:35																									
ZZZZZZ			09:37																									
ZZZZZZ			09:38																									
ZZZZZZ			09:40																									
CCV 500-408771/115			09:41																									
CCB 500-408771/116			09:42																									
ZZZZZZ			09:44																									
ZZZZZZ			09:45																									
ZZZZZZ			09:47																									
ZZZZZZ			09:48																									
CCV 500-408771/121			09:58																									
CCB 500-408771/122			10:00																									

Prep Types:
T = Total/NA

FORM XIII-IN

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Batch Number: 408743 Batch Start Date: 11/07/17 07:38 Batch Analyst: Filip, Jeana E

Batch Method: 3010A Batch End Date: 11/07/17 08:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M17ISPKIC 00001			
MB 500-408743/1		3010A, 6010C		50 mL	50 mL				
LCS 500-408743/2		3010A, 6010C		50 mL	50 mL	0.5 mL			
500-136788-D-1	CRMS-SW-04-110317	3010A, 6010C	T	50 mL	50 mL				

Batch Notes	
Temperature - Corrected - Start	94 Deg. C
Digestion End Time	11/07/2017 08:08
Digestion Start Time	11/07/2017 07:38
Digestion Unit ID	2604
Hydrochloric Acid ID	183197
Nitric Acid ID	1117062
Pipette/Syringe/Dispenser ID	2850
Thermometer ID	a1103x
Digestion Tube/Cup ID	1707186
Temperature - Uncorrected - Start	94 Deg. C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 500-136788-1

SDG No.:

Batch Number: 408621 Batch Start Date: 11/06/17 14:30 Batch Analyst: Noon, Erin E

Batch Method: 7470A Batch End Date: 11/06/17 16:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	M15HSTKHG 00001			
MB 500-408621/12		7470A, 7470A		25 mL	25 mL				
LCS 500-408621/13		7470A, 7470A		25 mL	25 mL	0.00005 mL			
500-136788-D-1	CRMS-SW-04-110317	7470A, 7470A	T	25 mL	25 mL				

Batch Notes	
Hydroxylamine Hydrochloride ID	175265
Batch Comment	STOCKID: M15HSTKHG_00001(QC),M17BSTKHG00001 (Curve)
Digestion End Time	1630
Digestion Start Time	1430
Sulfuric Acid Lot Number	179766
Lot # of Nitric Acid	165099
Hot Block ID	c-2486
Potassium Persulfate ID	A0375670
Potassium Permanganate ID	171263
NaCl ID	17D175204
Oven, Bath or Block Temperature 1	99.0 Celsius
Stannous Chloride ID	170437
Temperature	99.0 Celsius
Thermometer ID	M62232
Digestion Tube/Cup ID	1707186
Uncorrected Temperature	99.0 Celsius
Visual ck - digestate F.V. consistency	OK

Basis	Basis Description
T	Total/NA

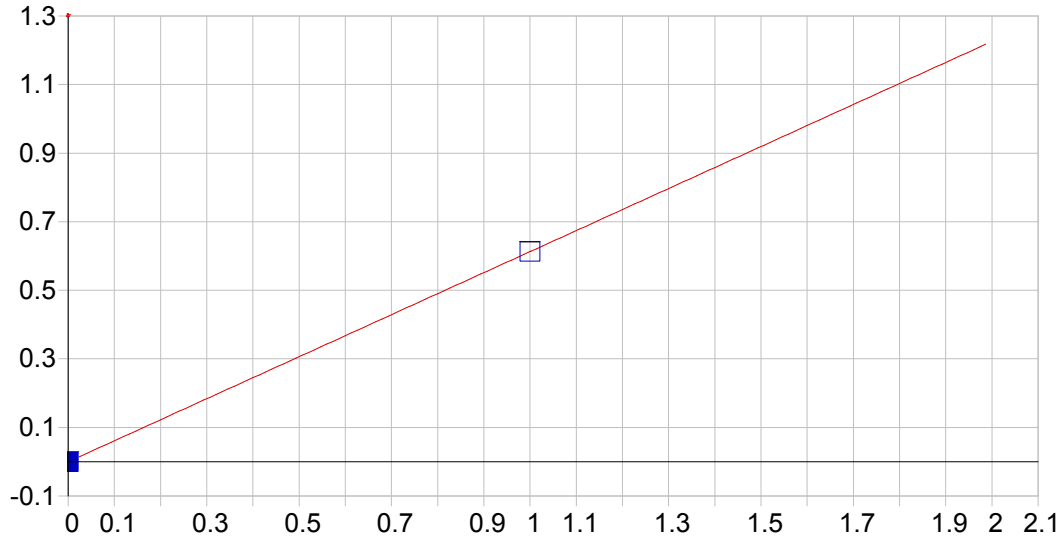
The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check	Check Table
1	---	---	---	---	Cal	---	---	---	---	---
2	105	2	9	4	QC	S1	P8110717B	1	☒	S1
3	106	2	10	4	QC	S2		1	☒	S2
4	107	2	11	4	QC	ICV		1	☒	ICV
5	108	2	12	4	QC	ICB		1	☒	ICB
6	111	2	3	5	QC	ICVL		1	☒	CCVLL
7	112	2	4	5	QC	CRI		1	☒	CRI
8	113	2	5	5	QC	ICSA		1	☒	ICSA
9	114	2	6	5	QC	ICSAB		1	☒	ICSAB
10	215	4	11	3	QC	ICSA		1	☒	ICSA
11	115	2	7	5	QC	CCV		1	☒	CCV
12	116	2	8	5	QC	CCB		1	☒	CCB
13	117	2	9	5	QC	MRL		1	☒	CCVLL
14	118	2	10	5	Unk	mb 500-408743/1-a		1	☒	RLTABLE
15	119	2	11	5	Unk	lcs 500-408743/2-a		1	☒	RLTABLE
16	120	2	12	5	Unk	500-136795-i-1-a		1	☒	RLTABLE
17	121	3	1	1	Unk	136795-i-1-a SD@5		1	☒	RLTABLE
18	122	3	2	1	Unk	500-136795-i-1-b du		1	☒	RLTABLE
19	123	3	3	1	Unk	500-136795-i-1-c ms		1	☒	RLTABLE
20	124	3	4	1	Unk	500-136795-i-1-d msd		1	☒	RLTABLE
21	125	3	5	1	Unk	500-136795-i-2-a		1	☒	RLTABLE
22	126	3	6	1	Unk	500-136795-i-4-a		1	☒	RLTABLE
23	127	3	7	1	Unk	500-136795-i-5-a		1	☒	RLTABLE
24	128	3	8	1	QC	CCV		1	☒	CCV
25	129	3	9	1	QC	CCB		1	☒	CCB
26	130	3	10	1	Unk	500-136795-i-7-a		1	☒	RLTABLE
27	131	3	11	1	Unk	500-136795-i-8-a		1	☒	RLTABLE
28	132	3	12	1	Unk	500-136714-b-7-a @5		1	☒	RLTABLE
29	133	3	1	2	Unk	500-136788-d-1-b @5		1	☒	RLTABLE
30	134	3	2	2	Unk	mb 500-408739/1-a		1	☒	RLTABLE
31	135	3	3	2	Unk	lcs 500-408739/2-a		1	☒	RLTABLE
32	136	3	4	2	Unk	500-136790-a-1-a		1	☒	RLTABLE
33	137	3	5	2	Unk	500-136793-a-1-a		1	☒	RLTABLE
34	138	3	6	2	Unk	500-136793-a-3-a		1	☒	RLTABLE
35	139	3	7	2	Unk	500-136794-a-1-a		1	☒	RLTABLE
36	140	3	8	2	QC	CCV		1	☒	CCV
37	141	3	9	2	QC	CCB		1	☒	CCB
38	207	4	3	3	QC	CCVL		1	☒	CCVLL
39	142	3	10	2	Unk	500-136794-a-3-a		1	☒	RLTABLE
40	143	3	11	2	Unk	136794-a-3-a SD@5		1	☒	RLTABLE
41	144	3	12	2	Unk	500-136794-a-3-b du		1	☒	RLTABLE
42	145	3	1	3	Unk	500-136794-a-3-c ms		1	☒	RLTABLE
43	146	3	2	3	Unk	mb 500-408751/1-a		1	☒	RLTABLE
44	147	3	3	3	Unk	lcs 500-408751/2-a		1	☒	RLTABLE
45	148	3	4	3	Unk	500-136756-f-1-a		1	☒	RLTABLE
46	149	3	5	3	Unk	136756-f-1-a SD@5		1	☒	RLTABLE
47	150	3	6	3	Unk	500-136756-f-1-b du		1	☒	RLTABLE
48	151	3	7	3	Unk	500-136756-f-1-c ms		1	☒	RLTABLE
49	152	3	8	3	QC	CCV		1	☒	CCV
50	153	3	9	3	QC	CCB		1	☒	CCB
51	154	3	10	3	Unk	500-136756-f-1-d msd		1	☒	RLTABLE
52	155	3	11	3	Unk	500-136756-f-2-a		1	☒	RLTABLE
53	156	3	12	3	Unk	500-136756-f-3-a		1	☒	RLTABLE
54	157	3	1	4	Unk	500-136756-f-4-a		1	☒	RLTABLE
55	158	3	2	4	Unk	500-136756-f-5-a		1	☒	RLTABLE
56	159	3	3	4	Unk	500-136756-f-6-a		1	☒	RLTABLE
57	160	3	4	4	Unk	500-136756-f-7-a		1	☒	RLTABLE
58	161	3	5	4	Unk	500-136756-f-8-a		1	☒	RLTABLE
59	162	3	6	4	Unk	500-136756-f-9-a		1	☒	RLTABLE

	Fail Action
1	None
2	None
3	None
4	None
5	None
6	None
7	None
8	None
9	None
10	None
11	None
12	None
13	None
14	---
15	---
16	---
17	---
18	---
19	---
20	---
21	---
22	---
23	---
24	None
25	None
26	---
27	---
28	---
29	---
30	---
31	---
32	---
33	---
34	---
35	---
36	None
37	None
38	None
39	---
40	---
41	---
42	---
43	---
44	---
45	---
46	---
47	---
48	---
49	None
50	None
51	---
52	---
53	---
54	---
55	---
56	---
57	---
58	---
59	---

	Pos ID	Rack	Row	Col	Type	Samplename	Comment	CorrFact	Check	Check Table
60	163	3	7	4	Unk	500-136756-f-10-a		1	☒	RLTABLE
61	164	3	8	4	QC	CCV		1	☒	CCV
62	165	3	9	4	QC	CCB		1	☒	CCB
63	166	3	10	4	Unk	500-136756-f-11-a		1	☒	RLTABLE
64	167	3	11	4	Unk	500-136756-f-12-a		1	☒	RLTABLE
65	168	3	12	4	Unk	500-136756-f-13-a		1	☒	RLTABLE
66	169	3	1	5	Unk	500-136756-f-14-a		1	☒	RLTABLE
67	170	3	2	5	Unk	500-136756-f-15-a		1	☒	RLTABLE
68	171	3	3	5	Unk	500-136756-f-16-a		1	☒	RLTABLE
69	172	3	4	5	Unk	500-136756-f-17-a		1	☒	RLTABLE
70	173	3	5	5	Unk	500-136756-f-18-a		1	☒	RLTABLE
71	174	3	6	5	Unk	500-136756-f-19-a		1	☒	RLTABLE
72	175	3	7	5	Unk	500-136756-f-20-a		1	☒	RLTABLE
73	176	3	8	5	QC	CCV		1	☒	CCV
74	177	3	9	5	QC	CCB		1	☒	CCB
75	178	3	10	5	Unk	lb 500-408390/1-b		1	☒	RLTABLE
76	179	3	11	5	Unk	lcs 500-408611/2-a		1	☒	RLTABLE
77	180	3	12	5	Unk	500-136651-f-1-h		1	☒	RLTABLE
78	181	4	1	1	Unk	500-136651-f-2-e		1	☒	RLTABLE
79	182	4	2	1	Unk	500-136651-f-3-e		1	☒	RLTABLE
80	183	4	3	1	Unk	500-136651-f-4-e		1	☒	RLTABLE
81	184	4	4	1	Unk	500-136651-f-5-e		1	☒	RLTABLE
82	185	4	5	1	Unk	500-136651-f-6-e		1	☒	RLTABLE
83	186	4	6	1	Unk	500-136651-f-7-e		1	☒	RLTABLE
84	187	4	7	1	Unk	500-136651-f-8-e		1	☒	RLTABLE
85	188	4	8	1	QC	CCV		1	☒	CCV
86	189	4	9	1	QC	CCB		1	☒	CCB
87	190	4	10	1	Unk	500-136651-f-9-h		1	☒	RLTABLE
88	191	4	11	1	Unk	500-136651-f-10-e		1	☒	RLTABLE
89	192	4	12	1	Unk	500-136651-f-11-e		1	☒	RLTABLE
90	193	4	1	2	Unk	500-136651-f-12-e		1	☒	RLTABLE
91	194	4	2	2	Unk	500-136651-f-13-e		1	☒	RLTABLE
92	195	4	3	2	Unk	500-136651-f-14-e		1	☒	RLTABLE
93	196	4	4	2	Unk	500-136651-f-15-e		1	☒	RLTABLE
94	197	4	5	2	Unk	500-136651-f-16-e		1	☒	RLTABLE
95	198	4	6	2	Unk	500-136651-f-17-e		1	☒	RLTABLE
96	199	4	7	2	Unk	136651-f-17-e SD@5		1	☒	RLTABLE
97	200	4	8	2	QC	CCV		1	☒	CCV
98	201	4	9	2	QC	CCB		1	☒	CCB
99	202	4	10	2	Unk	500-136651-f-17-f du		1	☒	RLTABLE
100	203	4	11	2	Unk	500-136651-f-17-g ms		1	☒	RLTABLE
101	204	4	12	2	QC	CCV		1	☒	CCV
102	205	4	1	3	QC	CCB		1	☒	CCB
103	206	4	2	3	QC	CCVL		1	☒	CCVLL

	Fail Action
60	---
61	None
62	None
63	---
64	---
65	---
66	---
67	---
68	---
69	---
70	---
71	---
72	---
73	None
74	None
75	---
76	---
77	---
78	---
79	---
80	---
81	---
82	---
83	---
84	---
85	None
86	None
87	---
88	---
89	---
90	---
91	---
92	---
93	---
94	---
95	---
96	---
97	None
98	None
99	---
100	---
101	None
102	None
103	None

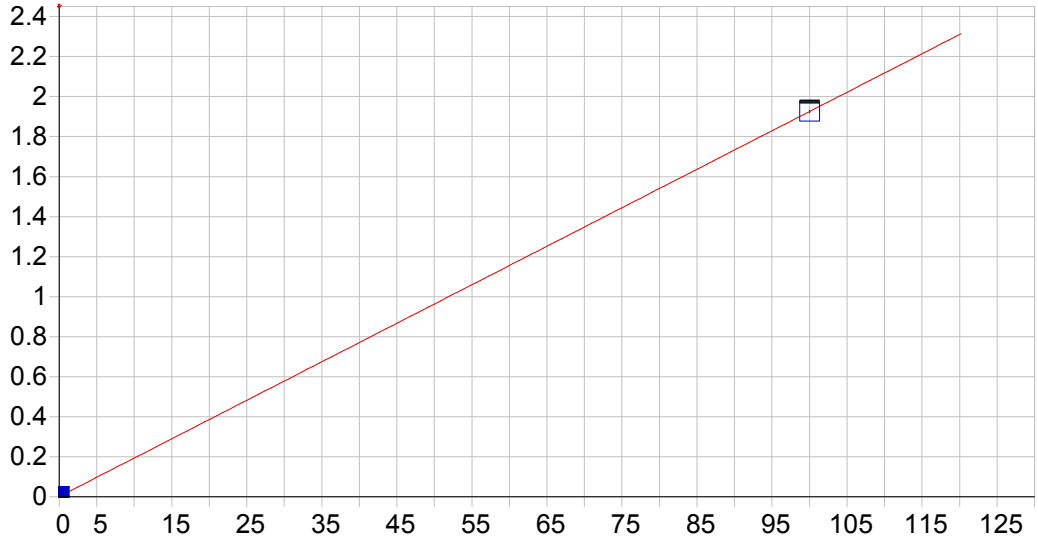


Ag 328.068 {103}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000249	Re-Slope:	1.000000
A1 (Gain):	0.613007	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000552		
Predicted MQL:	0.001840		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00025	.000	1
S1	1.0000	1.0000	.000	.000	.61276	.000	1

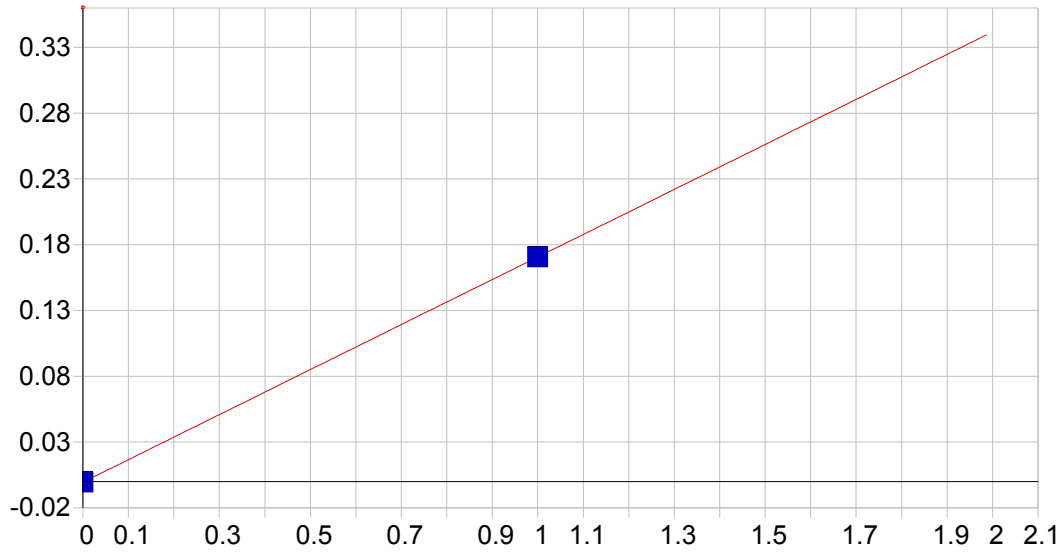


Al 308.215 {109}

Date of Fit:	11/7/2017 16:18:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000918	Re-Slope:	1.000000
A1 (Gain):	0.019243	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.014428		
Predicted MQL:	0.048092		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00092	.000	1
S2	100.00	100.00	.000	.000	1.9253	.006	1

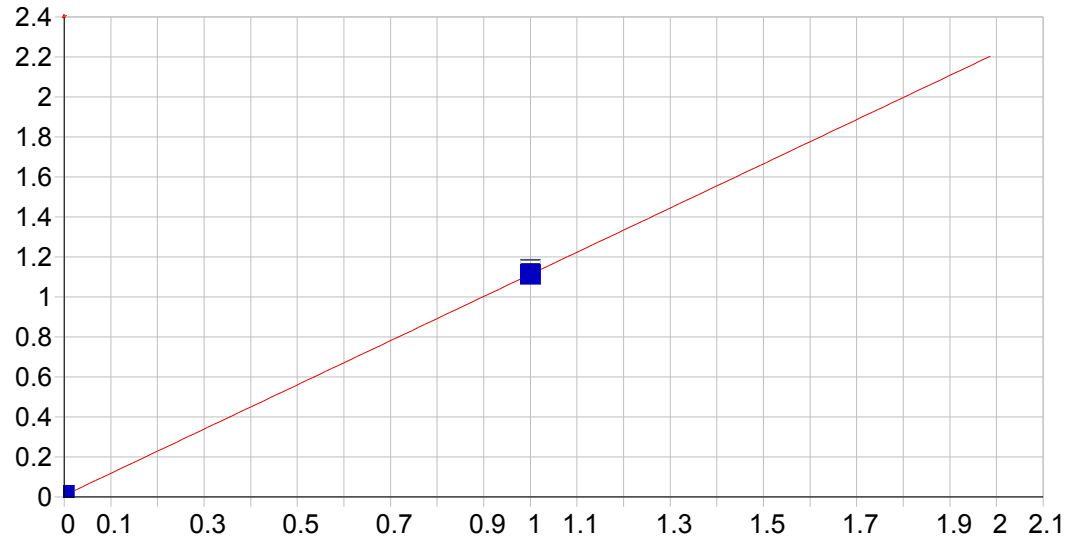


As 189.042 {478}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000503	Re-Slope:	1.000000
A1 (Gain):	0.171173	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002333		
Predicted MQL:	0.007778		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00050	.000	1
S1	1.0000	1.0000	.000	.000	.17000	.000	1

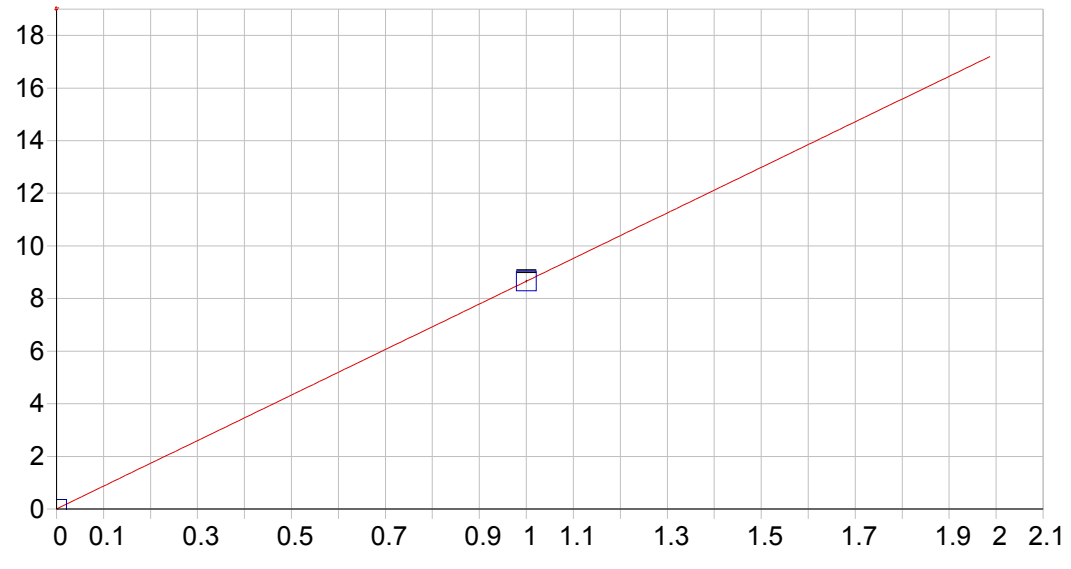


B 208.959 {461}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007486	Re-Slope:	1.000000
A1 (Gain):	1.105277	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000369		
Predicted MQL:	0.001231		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00749	.000	1
S1	1.0000	1.00000	.000	.000	1.1351	.002	1

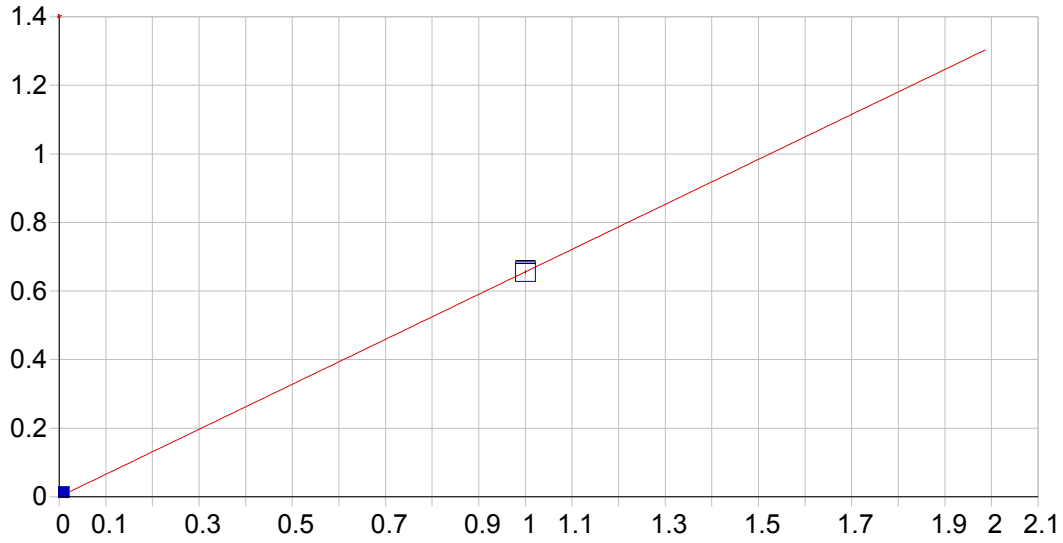


Ba 455.403 { 74}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002928	Re-Slope:	1.000000
A1 (Gain):	8.655083	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000075		
Predicted MQL:	0.000251		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00293	.000	1
S1	1.0000	1.0000	.000	.000	8.6580	.050	1

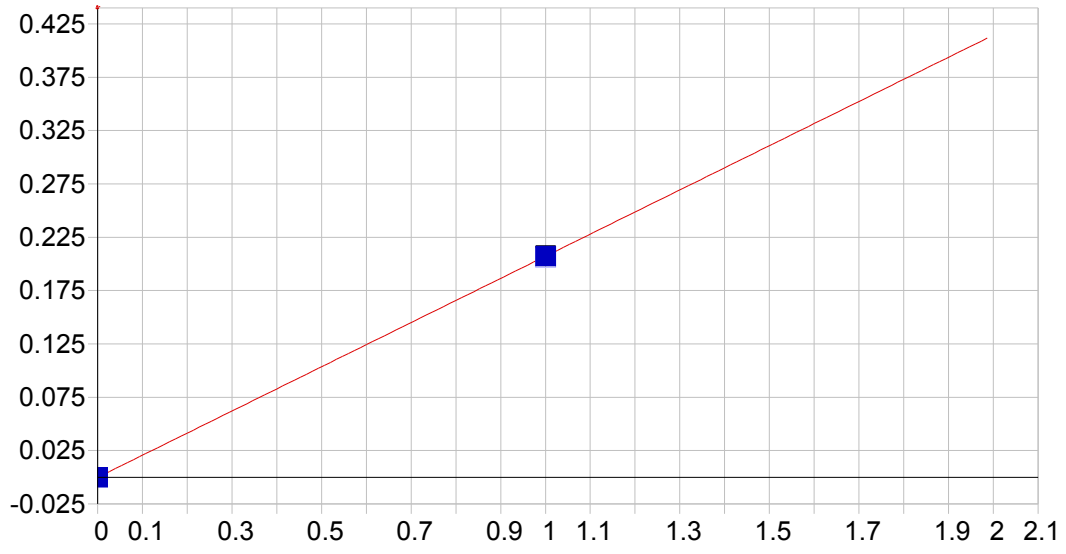


Be 234.861 {143}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000035	Re-Slope:	1.000000
A1 (Gain):	0.655965	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000261		
Predicted MQL:	0.000870		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00004	.000	1
S1	1.0000	1.0000	.000	.000	.65600	.004	1

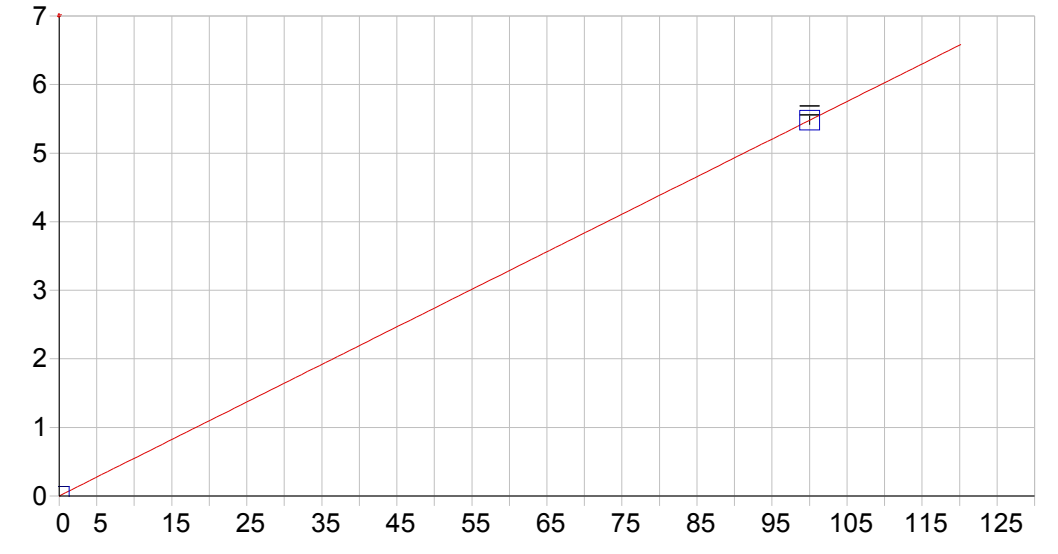


Bi 223.061 {451}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000086	Re-Slope:	1.000000
A1 (Gain):	0.207278	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001539		
Predicted MQL:	0.005131		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00009	.000	1
S1	1.0000	1.0000	.000	.000	.20567	.000	1

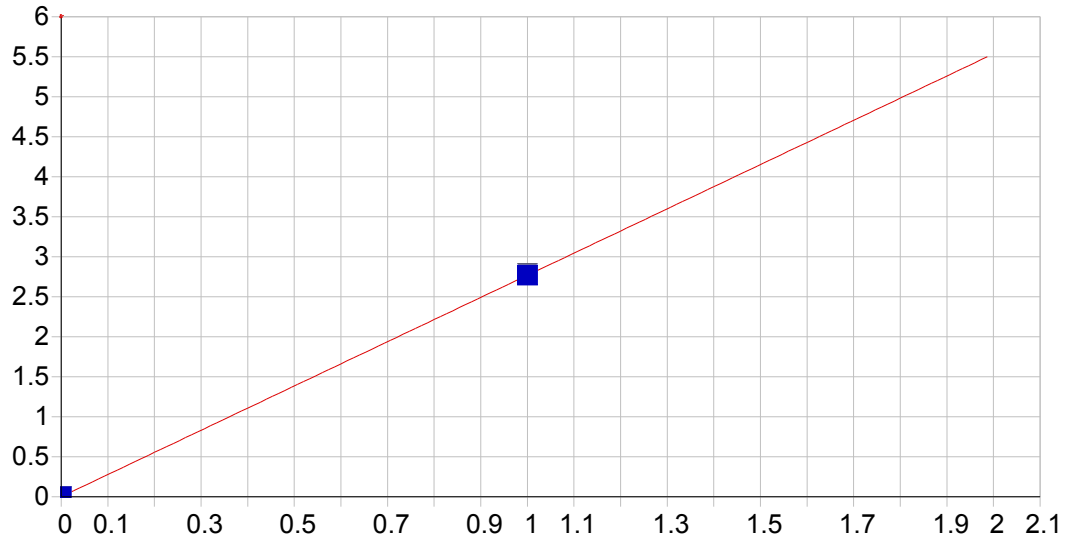


Ca 317.933 {106}

Date of Fit:	11/7/2017 16:18:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001796	Re-Slope:	1.000000
A1 (Gain):	0.054768	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.003938		
Predicted MQL:	0.013126		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00180	.000	1
S2	100.00	100.00	.000	.000	5.4786	.066	1

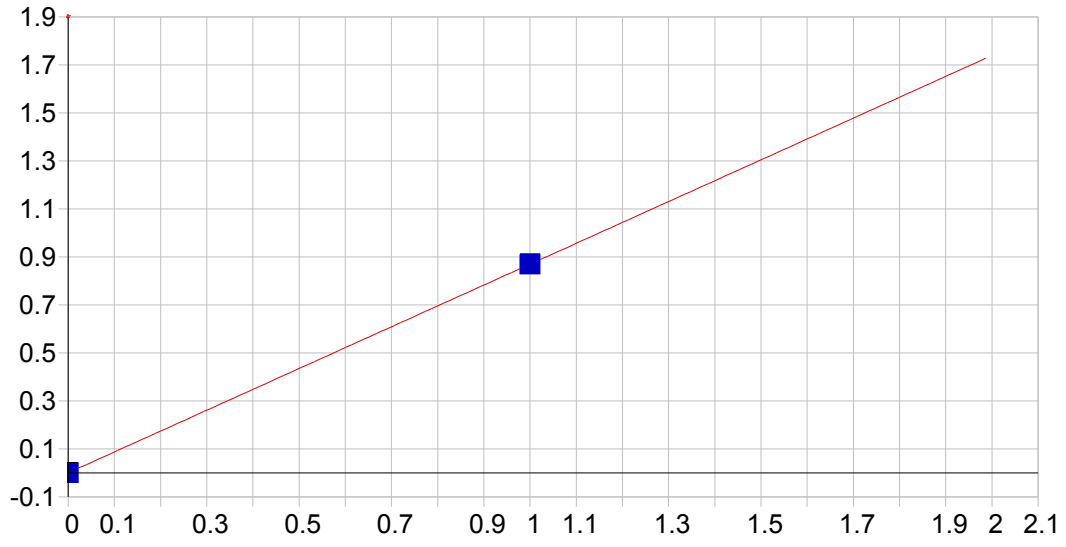


Cd 228.802 {447}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000768	Re-Slope:	1.000000
A1 (Gain):	2.767612	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000216		
Predicted MQL:	0.000720		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00077	.000	1
S1	1.0000	1.0000	.000	.000	2.7839	.001	1

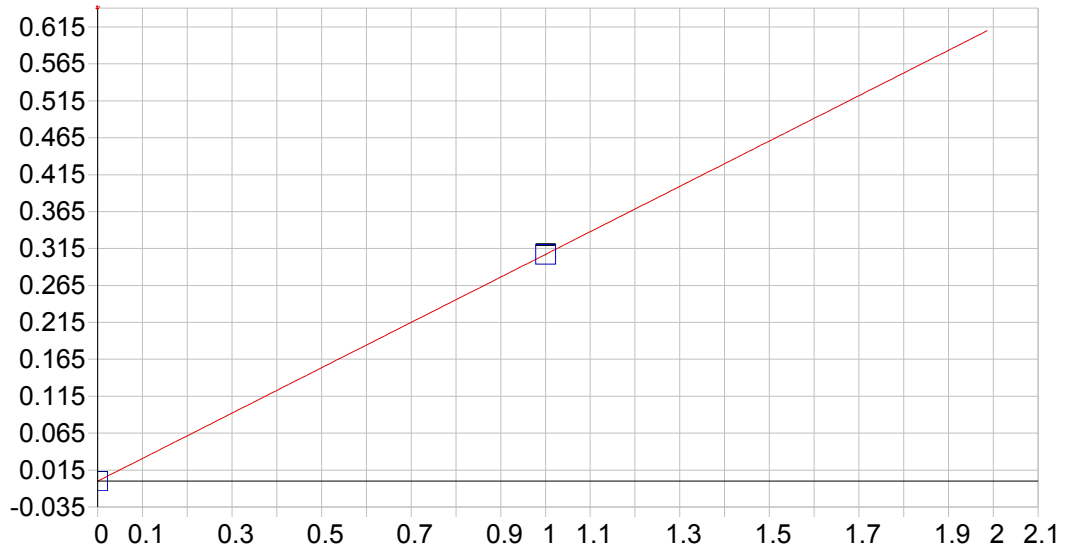


Co 228.616 {447}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000343	Re-Slope:	1.000000
A1 (Gain):	0.869430	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000364		
Predicted MQL:	0.001213		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00034	.000	1
S1	1.0000	1.0000	.000	.000	.87123	.000	1

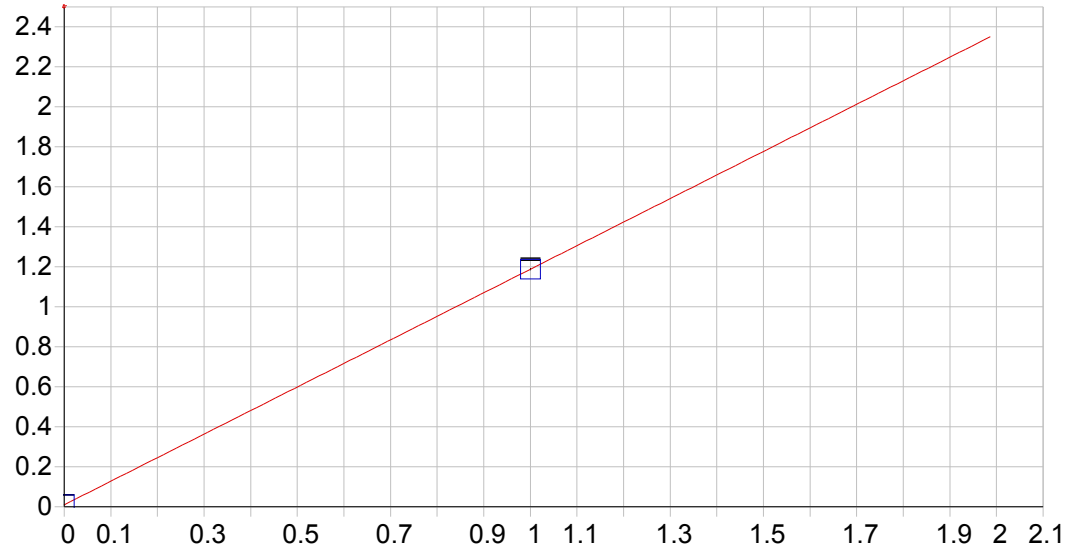


Cr 267.716 {126}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000007	Re-Slope:	1.000000
A1 (Gain):	0.307100	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000713		
Predicted MQL:	0.002376		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1
S1	1.0000	1.0000	.000	.000	.30709	.001	1

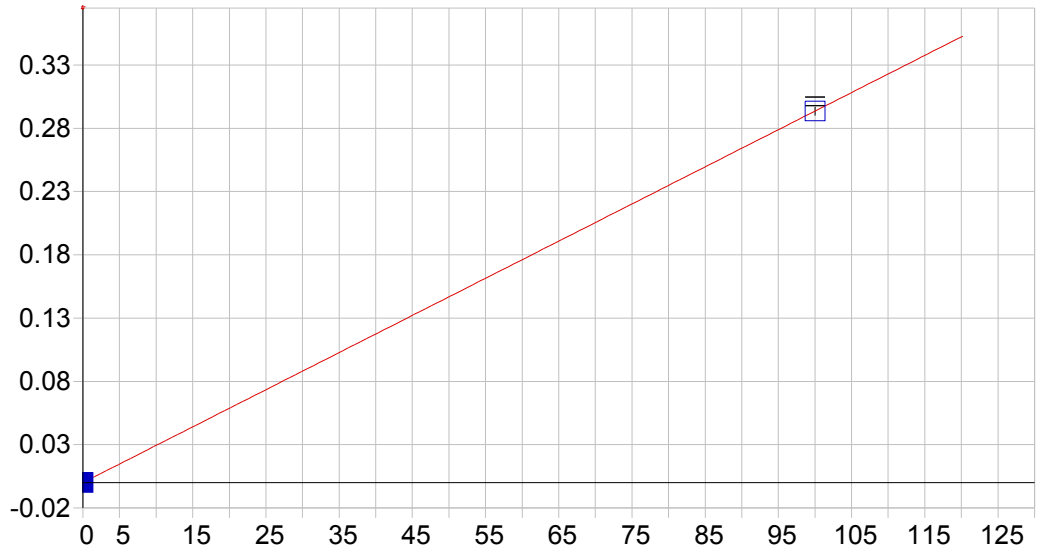


Cu 324.754 {104}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.009874	Re-Slope:	1.000000
A1 (Gain):	1.178195	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000276		
Predicted MQL:	0.000920		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00987	.001	1
S1	1.0000	1.0000	.000	.000	1.1881	.005	1

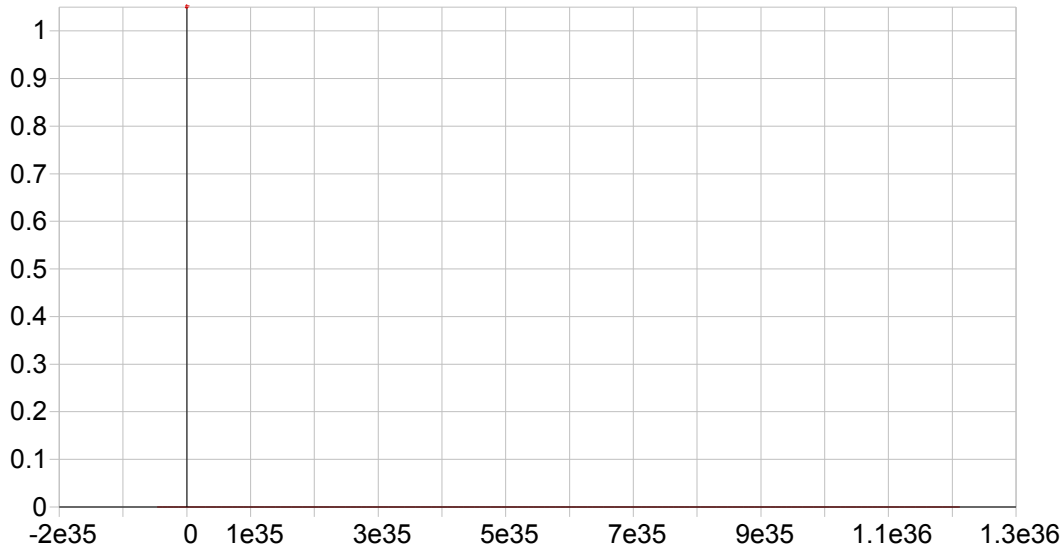


Fe 271.441 {124}

Date of Fit:	11/7/2017 16:18:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000024	Re-Slope:	1.000000
A1 (Gain):	0.002935	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.050699		
Predicted MQL:	0.168996		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00002	.000	1
S2	100.00	100.00	.000	.000	.29356	.003	1

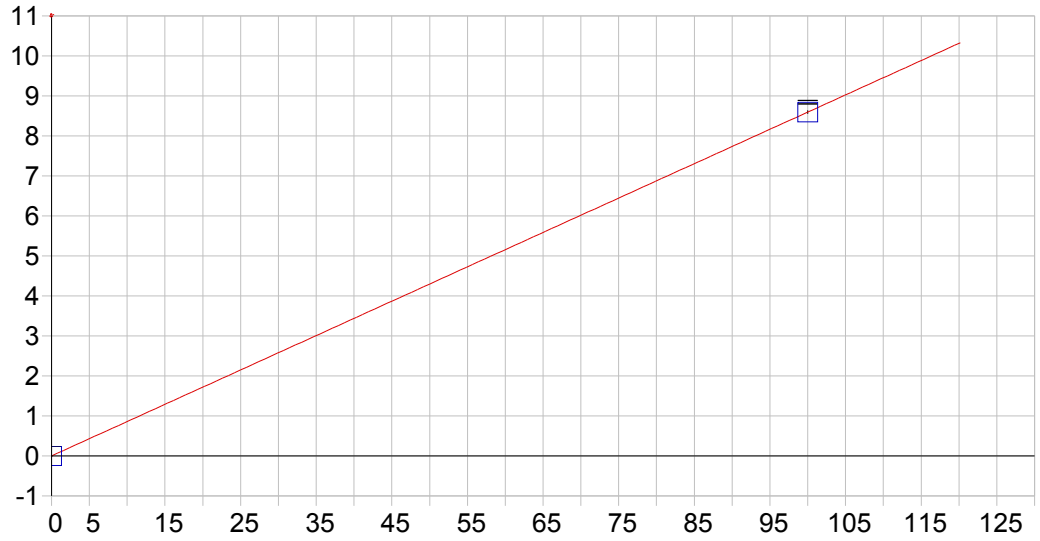


In 230.606 {446}*

Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

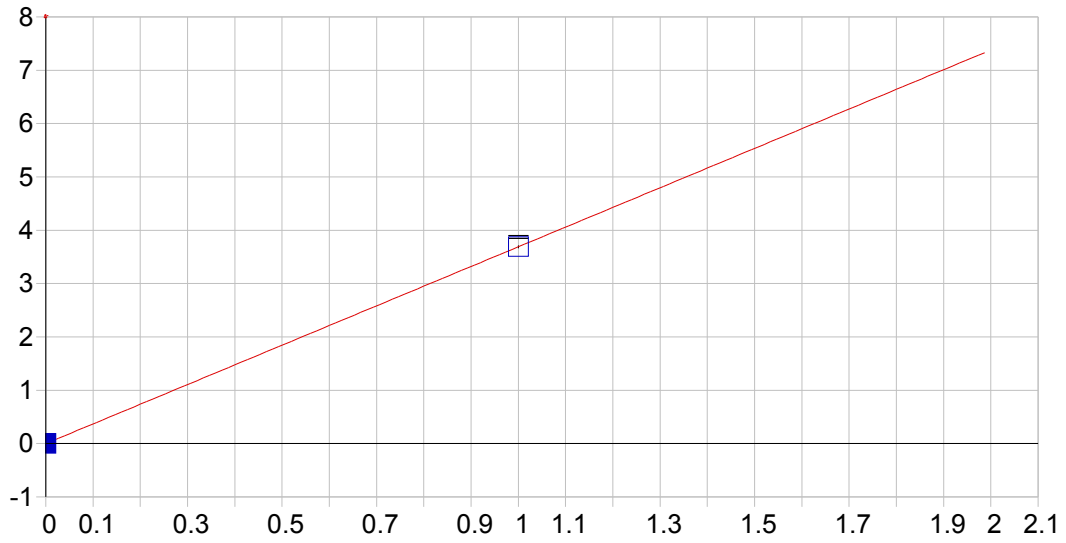


K 766.490 { 44}

Date of Fit:	11/7/2017 16:18:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000452		Re-Slope:	1.000000	
A1 (Gain):	0.085950		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	1.000000		Status:	OK.	
Std Error of Est:	0.000000				
Predicted MDL:	0.013315				
Predicted MQL:	0.044385				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00045	.001	1
S2	100.00	100.00	.000	.000	8.5945	.045	1

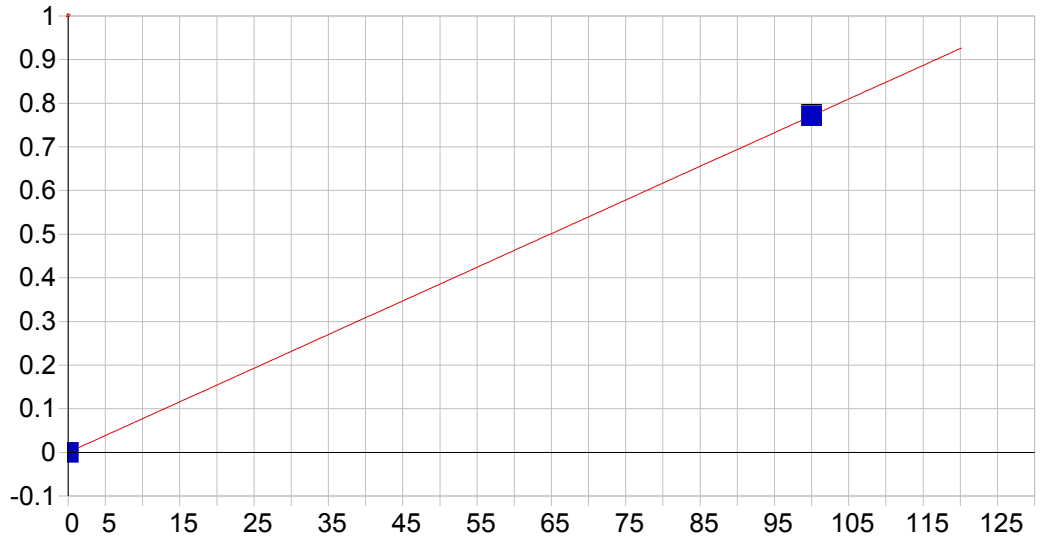


Li 670.784 { 50}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000451	Re-Slope:	1.000000
A1 (Gain):	3.690296	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000333		
Predicted MQL:	0.001111		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00045	.001	1
S1	1.0000	1.0000	.000	.000	3.6898	.028	1

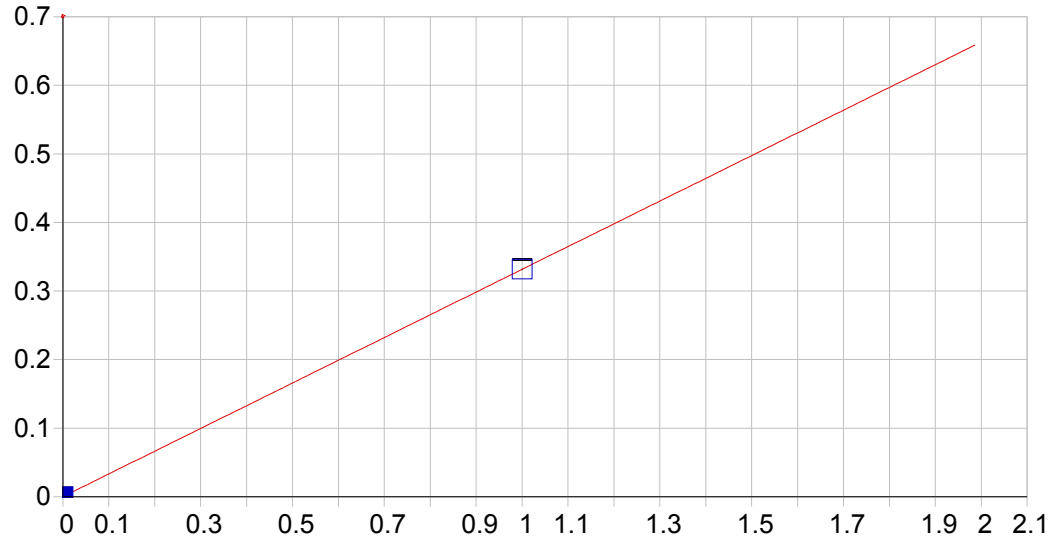


Mg 279.079 {121}

Date of Fit:	11/7/2017 16:18:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000002	Re-Slope:	1.000000
A1 (Gain):	0.007712	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.019651		
Predicted MQL:	0.065502		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00000	.000	1
S2	100.00	100.00	.000	.000	.77112	.003	1

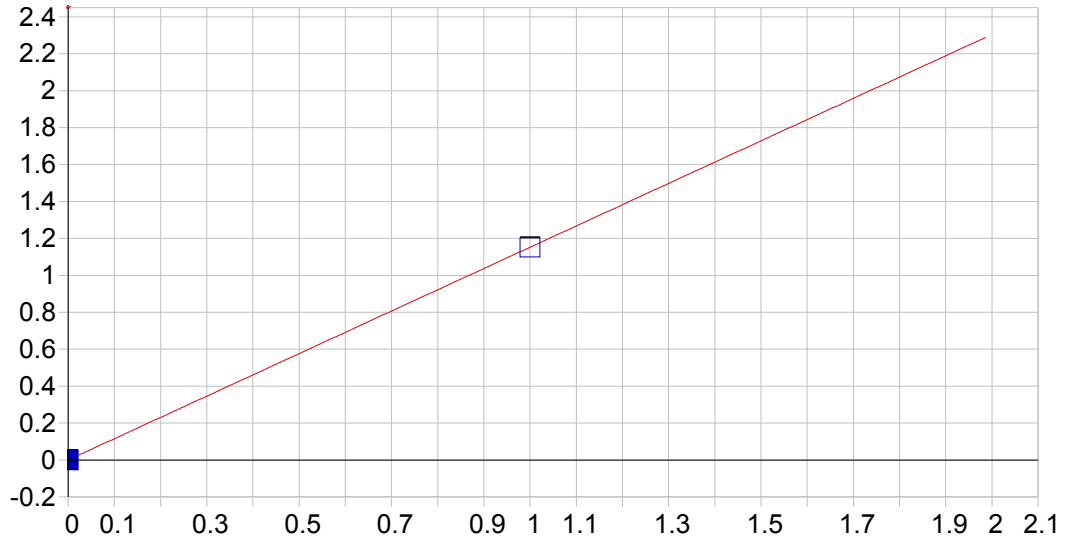


Mn 257.610 {131}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000156	Re-Slope:	1.000000
A1 (Gain):	0.331525	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000462		
Predicted MQL:	0.001540		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00016	.000	1
S1	1.0000	1.0000	.000	.000	.33168	.001	1

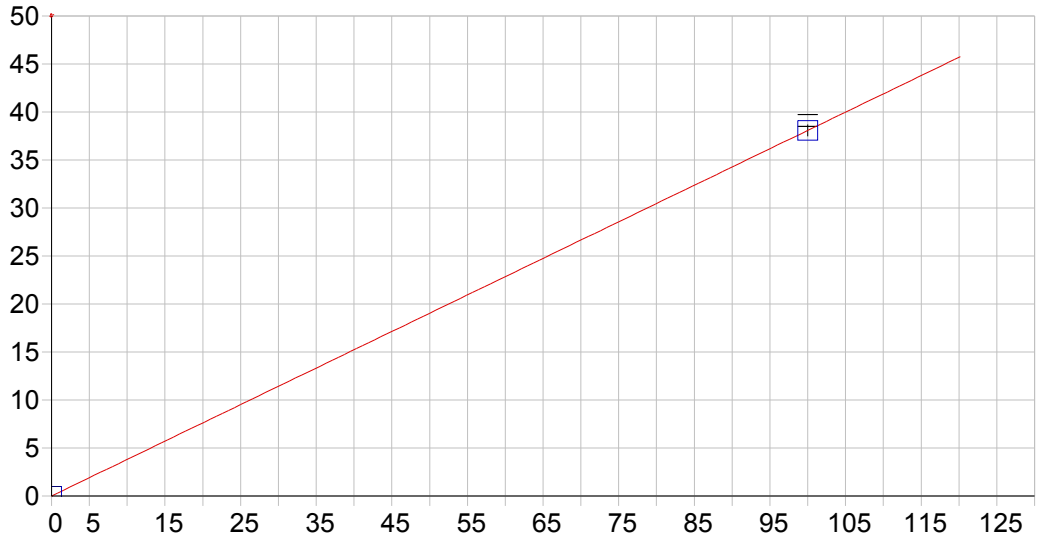


Mo 202.030 {467}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000085	Re-Slope:	1.000000
A1 (Gain):	1.152191	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000368		
Predicted MQL:	0.001227		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00009	.000	1
S1	1.0000	1.0000	.000	.000	1.1523	.002	1

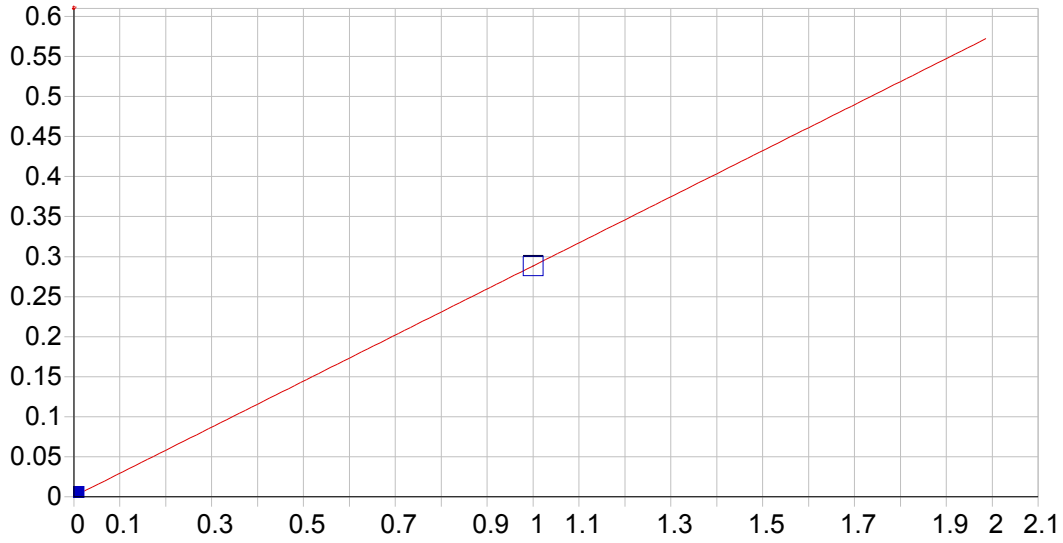


Na 589.592 { 57}

Date of Fit:	11/7/2017 16:18:35	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001533	Re-Slope:	1.000000
A1 (Gain):	0.380769	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.002958		
Predicted MQL:	0.009861		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00153	.001	1
S2	100.00	100.00	.000	.000	38.078	.618	1

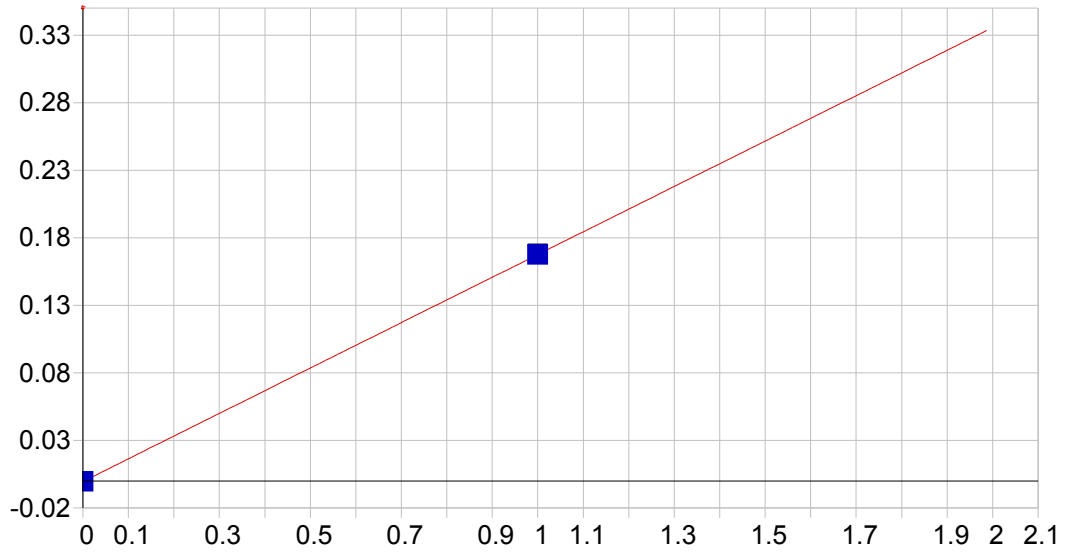


Ni 231.604 {446}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000525	Re-Slope:	1.000000
A1 (Gain):	0.287808	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000888		
Predicted MQL:	0.002959		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00052	.000	1
S1	1.0000	1.0000	.000	.000	.28833	.001	1

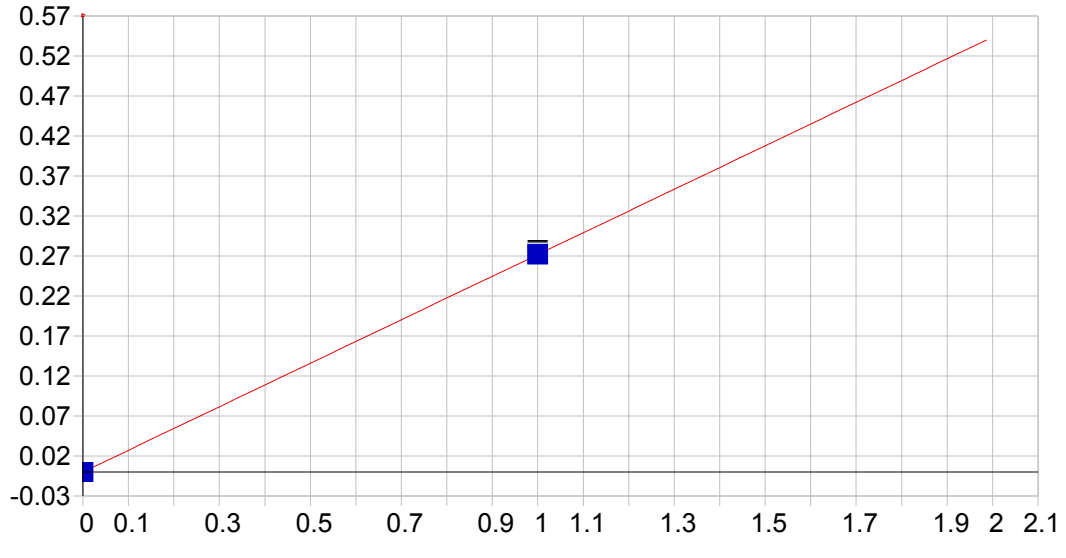


Pb 220.353 {453}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000429	Re-Slope:	1.000000
A1 (Gain):	0.168104	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001951		
Predicted MQL:	0.006503		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00043	.000	1
S1	1.0000	1.0000	.000	.000	.16761	.000	1

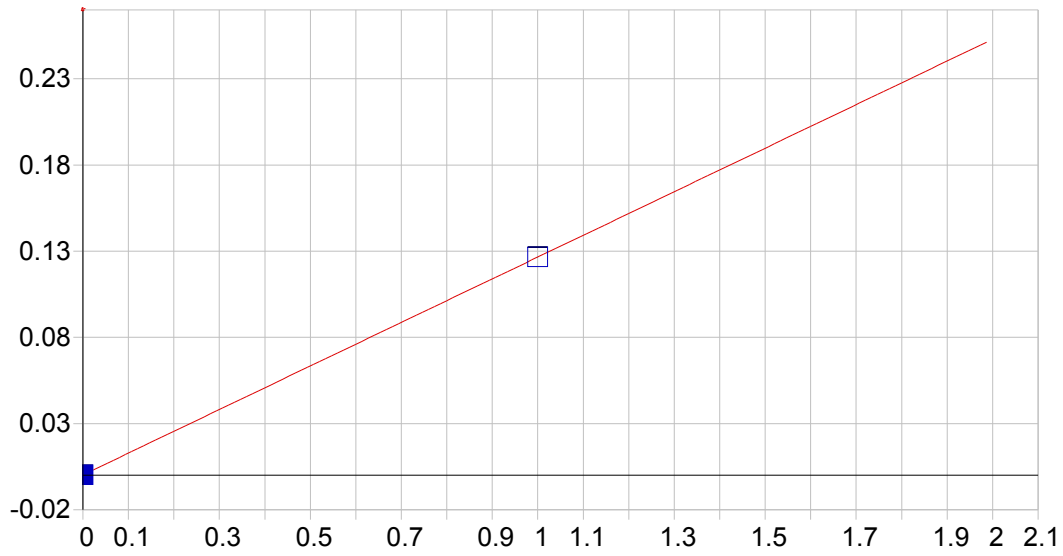


Sb 206.833 {463}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000011	Re-Slope:	1.000000
A1 (Gain):	0.271840	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001618		
Predicted MQL:	0.005393		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00001	.000	1
S1	1.0000	1.00000	.000	.000	.27366	.003	1

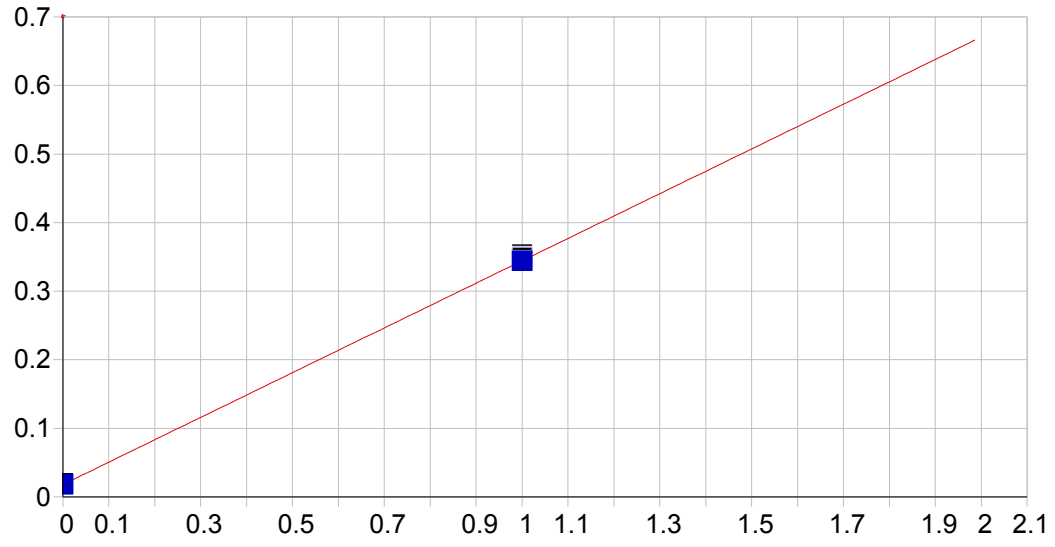


Se 196.090 {472}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000236	Re-Slope:	1.000000
A1 (Gain):	0.126359	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.003173		
Predicted MQL:	0.010575		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00024	.001	1
S1	1.0000	1.0000	.000	.000	.12660	.000	1

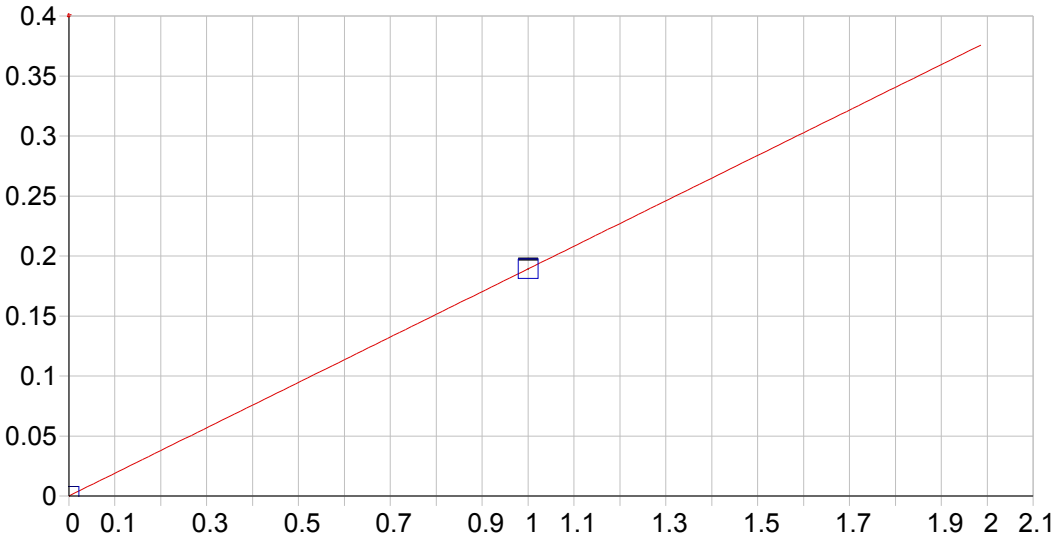


Si 212.412 {459}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.018096	Re-Slope:	1.000000
A1 (Gain):	0.326231	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001033		
Predicted MQL:	0.003444		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.01810	.001	1
S1	1.0000	1.0000	.000	.000	.35068	.002	1

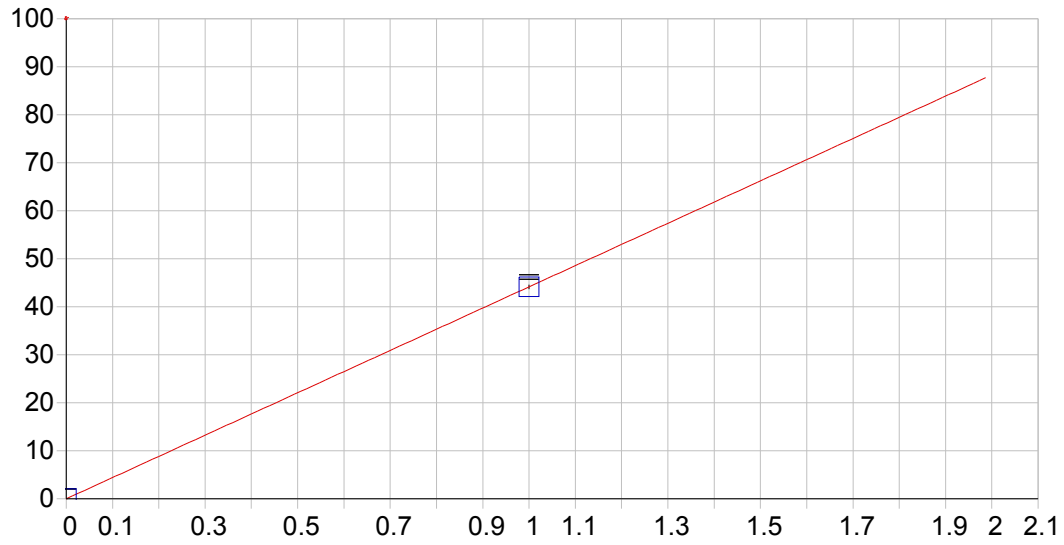


Sn 189.989 {477}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000074	Re-Slope:	1.000000
A1 (Gain):	0.189152	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001470		
Predicted MQL:	0.004901		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00007	.000	1
S1	1.0000	1.0000	.000	.000	.18923	.001	1

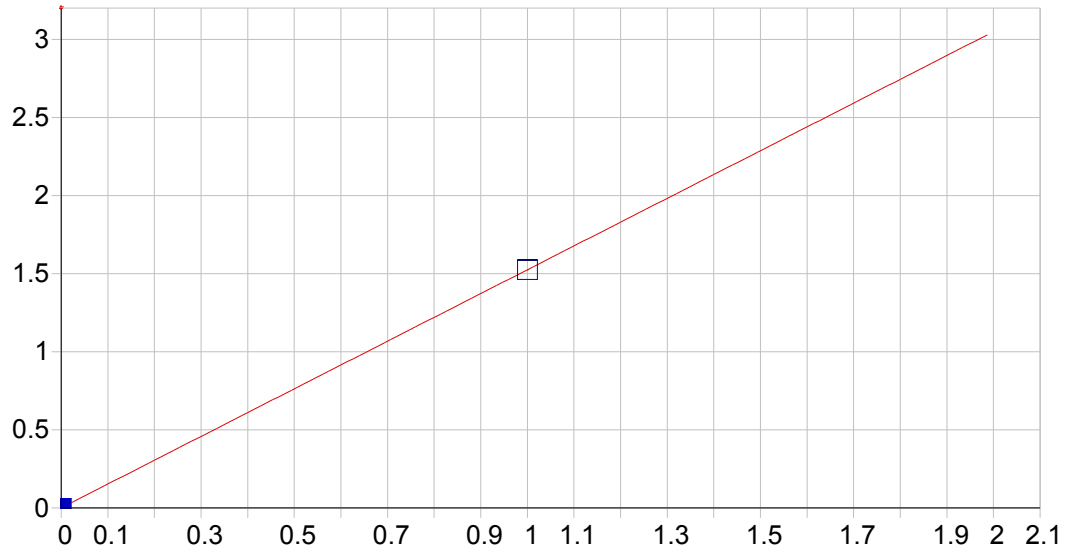


Sr 421.552 { 80}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000098	Re-Slope:	1.000000
A1 (Gain):	44.149076	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000010		
Predicted MQL:	0.000033		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00010	.000	1
S1	1.0000	1.0000	.000	.000	44.149	.472	1

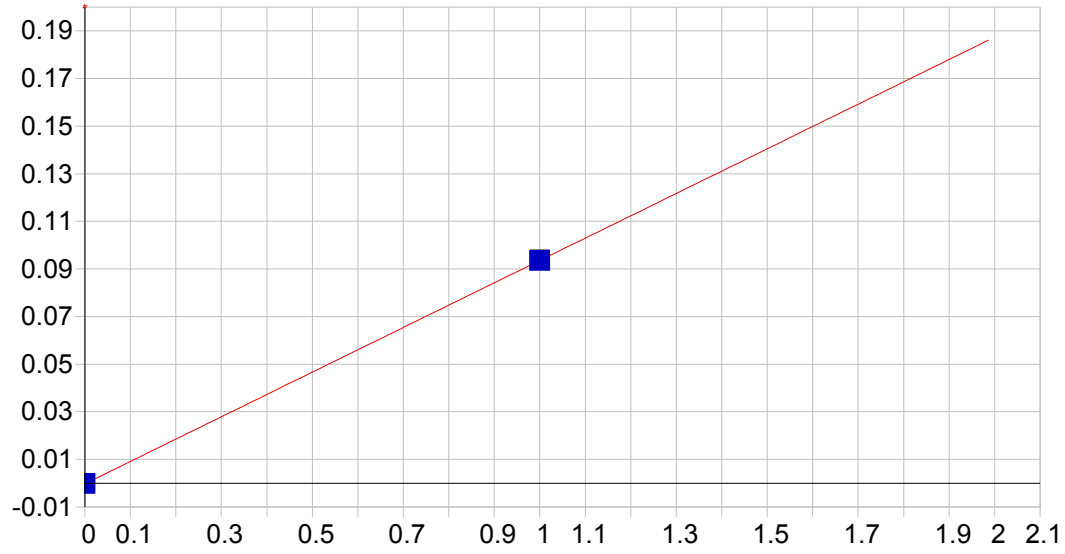


Ti 334.941 {101}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000493	Re-Slope:	1.000000
A1 (Gain):	1.524162	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000150		
Predicted MQL:	0.000501		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00049	.000	1
S1	1.0000	1.0000	.000	.000	1.5247	.000	1

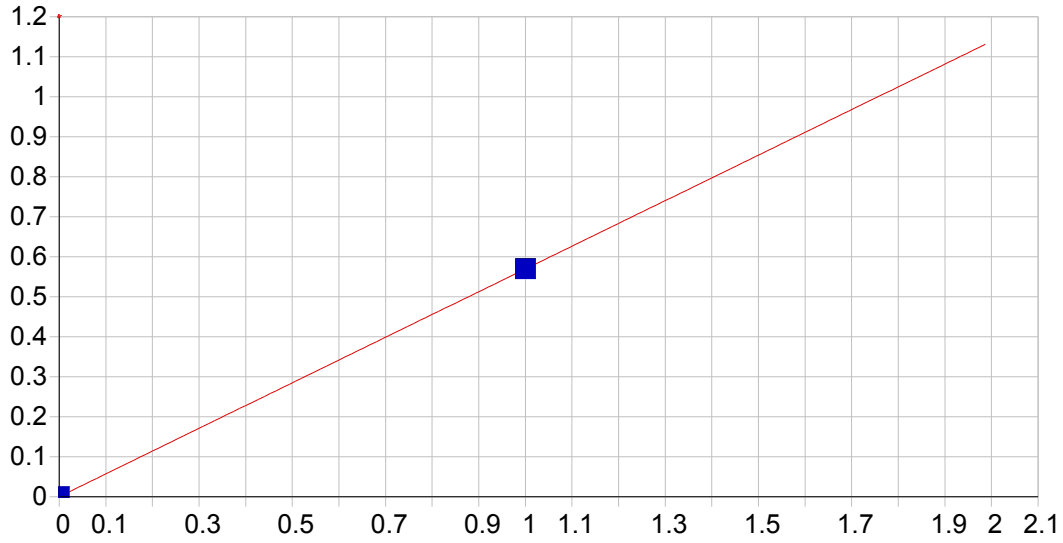


Tl 190.856 {477}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000247	Re-Slope:	1.000000
A1 (Gain):	0.093813	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.001695		
Predicted MQL:	0.005650		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00025	.000	1
S1	1.0000	1.0000	.000	.000	.09359	.000	1

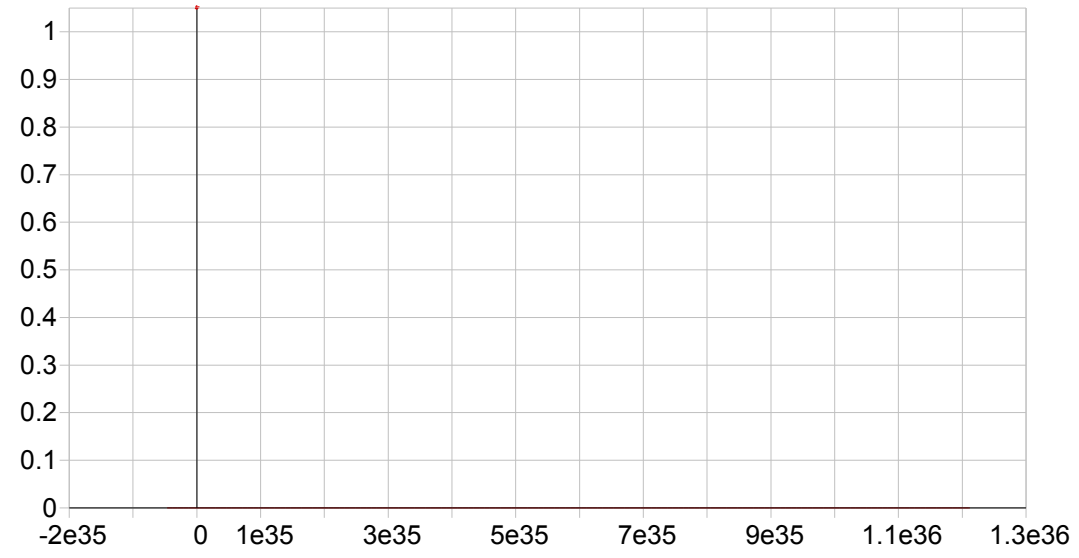


V 292.402 {115}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000346	Re-Slope:	1.000000
A1 (Gain):	0.569124	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000522		
Predicted MQL:	0.001740		

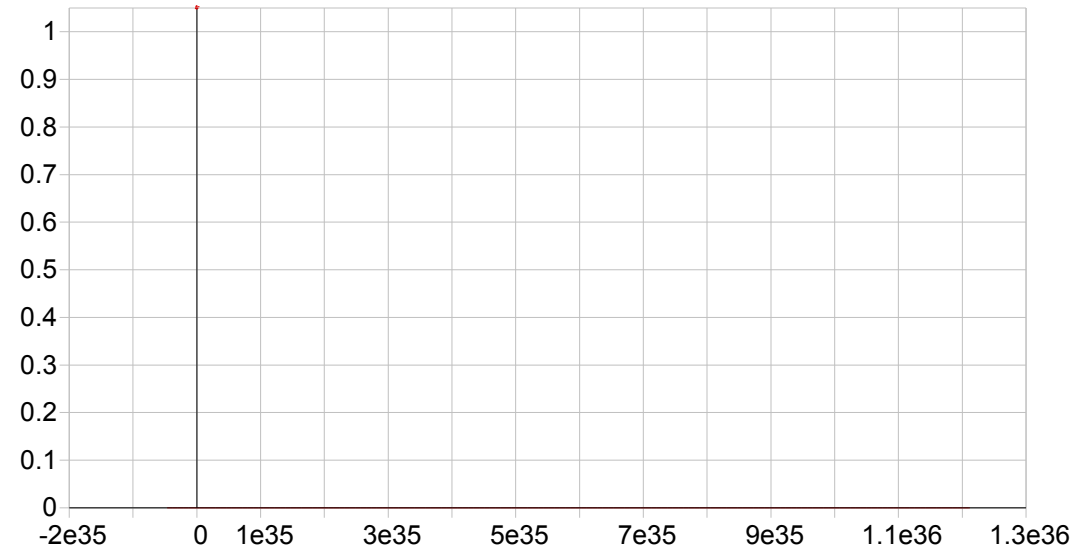
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	.00035	.000	1
S1	1.0000	1.0000	.000	.000	.56851	.001	1



Y 224.306 {450}*

Date of Fit:	9/1/2016 12:07:39	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	
A2 (Curvature):	0.000000				
n (Exponent):	1.000000				
Correlation:	0.000000		Status:	Warning	Zero Gain
Std Error of Est:	0.000000				
Predicted MDL:	n/a				
Predicted MQL:	n/a				

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

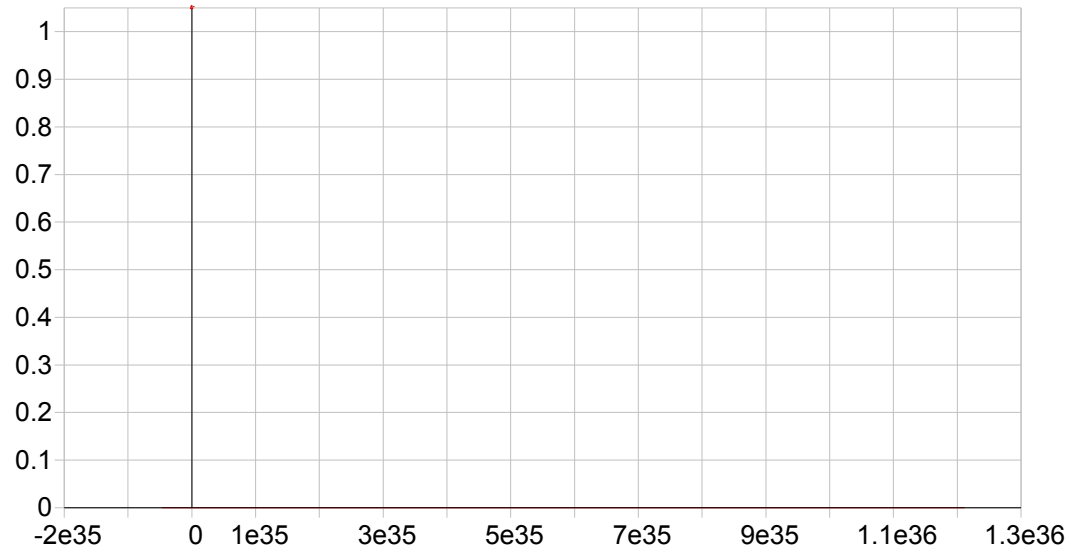


Y 360.073 { 94}*

Date of Fit:	9/1/2016 12:07:39	Type of Fit:	Linear	Weighting:	1/Conc
A0 (Offset):	0.000000		Re-Slope:	1.000000	
A1 (Gain):	0.000000		Y-int:	0.000000	

A2 (Curvature):	0.000000					
n (Exponent):	1.000000					
Correlation:	0.000000		Status:	Warning	Zero Gain	
Std Error of Est:	0.000000					
Predicted MDL:	n/a					
Predicted MQL:	n/a					

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis

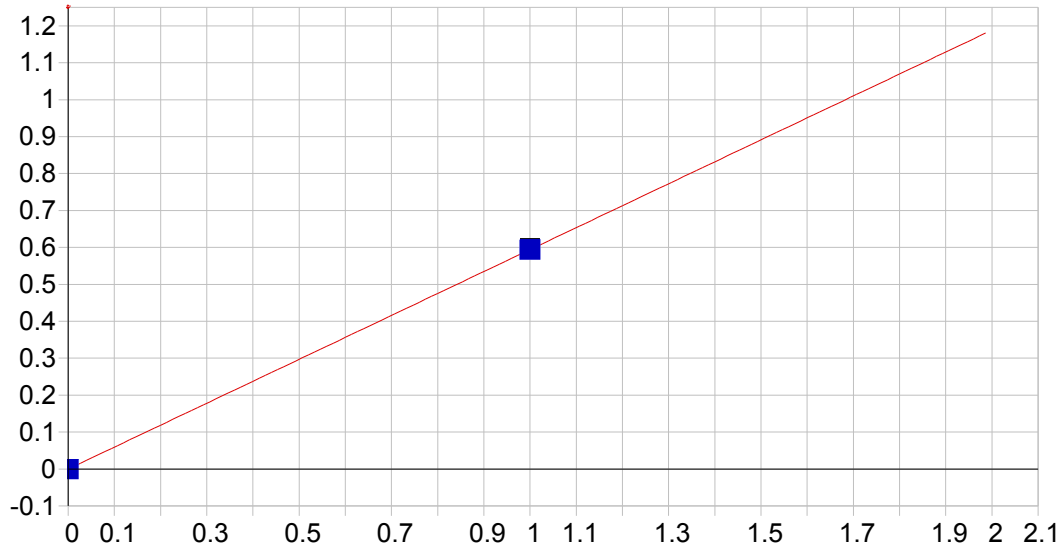


Y 371.030 { 91}*

Date of Fit:	9/1/2016 12:07:39	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Zn 206.200 {463}

Date of Fit:	11/7/2017 16:14:31	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000277	Re-Slope:	1.000000
A1 (Gain):	0.594324	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	1.000000	Status:	OK.
Std Error of Est:	0.000000		
Predicted MDL:	0.000436		
Predicted MQL:	0.001452		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
Blank	.00000	.00000	.000	.000	-.00028	.000	1
S1	1.0000	1.0000	.000	.000	.59373	.002	1

Sample Name: Blank Acquired: 11/7/2017 16:06:44 Type: Cal
Method: P8110717AA Mode: IR Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00025**	**.00092**	**-.00050**	**.00749**	**.00293**	**.00004**	**-.00009**	**.00180**
Stddev	.00019	.00047	.00035	.00021	.00005	.00002	.00005	.00005
%RSD	74.454	50.831	69.988	2.8331	1.5387	55.798	57.233	2.7235
#1	-.00012	.00059	-.00075	.00734	.00296	.00002	-.00012	.00176
#2	-.00038	.00125	-.00025	.00764	.00290	.00005	-.00005	.00183

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Li6707	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0008**	**.00034**	**-.00001**	**.00987**	**.00002**	**-.00045**	**-.0005**	**.00000**
Stddev	.0001	.00040	.00016	.00072	.00015	.00125	.0013	.00014
%RSD	9.661	116.20	2371.9	7.2948	620.33	276.66	287.0	6228.6
#1	.0007	.00006	.00011	.00936	.00013	-.00134	.0005	-.00009
#2	.0008	.00062	-.00012	.01038	-.00008	.00043	-.0014	.00010

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00016**	**.00009**	**.00153**	**.00052**	**-.00043**	**-.00001**	**.00024**	**.01810**
Stddev	.00001	.00028	.00097	.00021	.00012	.00017	.00052	.00106
%RSD	8.8971	323.47	63.577	40.528	28.585	1500.2	221.46	5.8315
#1	.00017	-.00011	.00084	.00037	-.00052	-.00013	.00061	.01735
#2	.00015	.00028	.00222	.00068	-.00034	.00011	-.00013	.01884

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00007**	**.00010**	**.00049**	**-.00025**	**.00035**	**-.00028**
Stddev	.00003	.00003	.00003	.00005	.00014	.00005
%RSD	34.880	35.827	5.1264	20.614	39.554	17.502
#1	.00009	.00012	.00051	-.00021	.00025	-.00031
#2	.00006	.00007	.00048	-.00028	.00044	-.00024

Sample Name: Blank Acquired: 11/7/2017 16:06:44 Type: Cal
Method: P8110717AA Mode: IR Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2671.8	1443.5	13746.	9784.3
Stddev	147.8	119.9	402.	10.1
%RSD	5.5306	8.3084	2.9280	.10288
#1	2776.3	1528.3	14031.	9791.4
#2	2567.3	1358.7	13462.	9777.2

Sample Name: S1 Acquired: 11/7/2017 16:10:42 Type: Cal
Method: P8110717AA Mode: IR Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	B_2089	Ba4554	Be2348	Bi2230	Cd2288	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.61276	.17000	1.1351	8.6580	.65600	.20567	2.784	.87123
Stddev	.00009	.00030	.0018	.0503	.00411	.00032	.001	.00044
%RSD	.01492	.17442	.15972	.58049	.62699	.15580	.0486	.05064
#1	.61282	.16979	1.1338	8.6225	.65309	.20544	2.785	.87092
#2	.61269	.17021	1.1364	8.6935	.65891	.20590	2.783	.87155

Elem	Cr2677	Cu3247	Li6707	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.30709	1.1881	3.690	.33168	1.1523	.28833	.16761	.27366
Stddev	.00090	.0054	.028	.00127	.0017	.00053	.00017	.00323
%RSD	.29364	.45532	.7646	.38419	.14860	.18536	.10421	1.1810
#1	.30646	1.1919	3.670	.33078	1.1511	.28871	.16774	.27138
#2	.30773	1.1842	3.710	.33258	1.1535	.28795	.16749	.27595

Elem	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12660	.35068	.18923	44.149	1.5247	.09359	.56851	.59373
Stddev	.00015	.00235	.00074	.472	.0001	.00004	.00094	.00174
%RSD	.12227	.66894	.39272	1.0682	.00841	.04077	.16609	.29225
#1	.12671	.34902	.18870	44.483	1.5247	.09356	.56784	.59496
#2	.12649	.35234	.18975	43.816	1.5246	.09361	.56918	.59250

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2244.6	1122.6	10717.	8779.4
Stddev	7.5	2.2	88.	19.5
%RSD	.33292	.19277	.82192	.22196
#1	2249.8	1124.2	10655.	8793.2
#2	2239.3	1121.1	10780.	8765.6

Sample Name: S2 Acquired: 11/7/2017 16:14:36 Type: Cal
Method: P8110717AA Mode: IR Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca3179	Fe2714	K_7664	Mg2790	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.9253	5.4786	.29356	8.5945	.77112	38.078
Stddev	.0061	.0661	.00342	.0450	.00270	.618
%RSD	.31519	1.2067	1.1648	.52368	.35037	1.6239
#1	1.9210	5.4319	.29114	8.6263	.76921	38.516
#2	1.9295	5.5253	.29597	8.5627	.77303	37.641

Int. Std.	Y_3710
Units	Cts/S
Avg	8365.8
Stddev	38.6
%RSD	.46165
#1	8338.5
#2	8393.1

Sample Name: S1 Acquired: 11/7/2017 16:18:39 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment: P8110717B

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9958064	.0607782	.9893072	.9935637	.9987027	.9948240	.9940563
Stddev	.0046511	.0019788	.0012090	.0039903	.0040998	.0031865	.0025639
%RSD	.4670739	3.255720	.1222012	.4016120	.4105155	.3203096	.2579245
#1	.9925175	.0593790	.9901621	.9963853	.9958037	.9925708	.9922434
#2	.9990952	.0621774	.9884524	.9907422	1.001602	.9970773	.9958693
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046019	.9963497	.9974406	.9952080	.9987632	-.008690	.0305900
Stddev	.0003552	.0018297	.0041291	.0025351	.0002576	.021198	.0025911
%RSD	7.718079	.1836425	.4139742	.2547346	.0257880	243.9267	8.470533
#1	.0043508	.9950558	.9945209	.9934154	.9989453	-.023679	.0324222
#2	.0048531	.9976435	1.000360	.9970006	.9985810	.006299	.0287577
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.005167	.0142039	.9916869	.9941809	.0218690	.9959104	.9900808
Stddev	.003845	.0063195	.0045647	.0000061	.0031968	.0048656	.0040653
%RSD	.3825145	44.49117	.4602940	.0006141	14.61783	.4885605	.4106075
#1	1.002449	.0186725	.9884592	.9941766	.0241295	.9924699	.9872062
#2	1.007886	.0097354	.9949146	.9941852	.0196085	.9993509	.9929554
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: S1 Acquired: 11/7/2017 16:18:39 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment: P8110717B

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9991720	.9966932	.9781781	.9969694	.9960288	.9994795	.9935431
Stddev	.0048337	.0011929	.0038204	.0024437	.0049910	.0032762	.0046301
%RSD	.4837676	.1196908	.3905648	.2451096	.5010878	.3277923	.4660228
#1	.9957541	.9958496	.9754767	.9952414	.9924997	.9971629	.9902691
#2	1.002590	.9975367	.9808796	.9986973	.9995580	1.001796	.9968171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.9904403	1.001648
Stddev	.0025381	.010314
%RSD	.2562630	1.029680
#1	.9886455	.994355
#2	.9922350	1.008941
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2250.130	1126.221	10669.16	8711.887
Stddev	5.825	7.073	20.60	12.593
%RSD	.2588795	.6280162	.1930904	.1445533
#1	2246.012	1121.220	10654.59	8720.792
#2	2254.250	1131.222	10683.73	8702.982

Sample Name: S2 Acquired: 11/7/2017 16:22:32 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000012**	**99.58794**	**-.000447**	**.0007329**	**.0000853**	**.0004010**	**-.000222**
Stddev	.000291	.88835	.000167	.0000266	.0000045	.0000626	.000149
%RSD	2509.329	.8920264	37.43306	3.631960	5.308243	15.59812	67.16588
#1	.000194	98.95978	-.000565	.0007140	.0000821	.0003568	-.000117
#2	-.000217	100.2161	-.000329	.0007517	.0000885	.0004453	-.000328
Check ?	None	Chk Pass	None	None	None	None	None
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**99.39044**	**.0000001**	**-.000313**	**.0012463**	**.0036581**	**100.0459**	**99.12019**
Stddev	.16621	.0000694	.000555	.0004816	.0002376	.5510	.69478
%RSD	.1672305	48360.80	177.5343	38.64625	6.493689	.5507016	.7009421
#1	99.27291	.0000492	.000080	.0015868	.0034902	99.6563	98.62891
#2	99.50797	-.000049	-.000706	.0009057	.0038261	100.4355	99.61147
Check ?	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001496**	**99.49560**	**.0002302**	**.0029917**	**99.45029**	**-.001408**	**.0025846**
Stddev	.000009	.58455	.0006716	.0001370	1.81824	.000976	.0011346
%RSD	.5851551	.5875130	291.7973	4.579096	1.828289	69.31661	43.90044
#1	-.001502	99.08226	-.000245	.0030886	98.16460	-.002099	.0017822
#2	-.001489	99.90894	.000705	.0028949	100.7360	-.000718	.0033868
Check ?	None	Chk Pass	None	None	Chk Pass	None	None
Value							
Range							

Sample Name: S2 Acquired: 11/7/2017 16:22:32 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075950	-.000737	.0044982	.0031822	.0011304	.0047160	.0009608
Stddev	.0026802	.003389	.0028352	.0009248	.0000123	.0000817	.0002159
%RSD	35.28903	459.7425	63.03005	29.06225	1.088887	1.731696	22.47233
#1	.0094902	-.003134	.0024934	.0038362	.0011217	.0046582	.0011135
#2	.0056998	.001659	.0065030	.0025283	.0011391	.0047737	.0008081
Check ?	None	None	None	None	None	None	None
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0024991	-.000372
Stddev	.0002382	.000166
%RSD	9.531533	44.49733
#1	.0026676	-.000489
#2	.0023307	-.000255
Check ?	None	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1790.387	1020.625	9783.858	8395.272
Stddev	12.083	9.213	19.686	36.660
%RSD	.6749071	.9026395	.2012104	.4366700
#1	1798.931	1027.139	9797.779	8421.194
#2	1781.843	1014.110	9769.938	8369.349

Sample Name: ICV Acquired: 11/7/2017 16:26:36 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3971767**	**41.17899**	**.4016087**	**.4018310**	**.3946617**	**.3939450**
Stddev	.0015391	.37878	.0035278	.0001966	.0024279	.0028598
%RSD	.3875048	.9198405	.8784102	.0489345	.6151822	.7259486
#1	.3960884	40.91115	.3991142	.4016920	.3929449	.3919228
#2	.3982650	41.44683	.4041032	.4019701	.3963785	.3959672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4081446**	**20.16183**	**.3927152**	**.4009942**	**.3839445**	**.4030741**
Stddev	.0005602	.09235	.0006759	.0015608	.0005686	.0009724
%RSD	.1372428	.4580520	.1721100	.3892221	.1480965	.2412360
#1	.4077486	20.09653	.3922373	.3998906	.3843466	.4037616
#2	.4085407	20.22714	.3931932	.4020978	.3835424	.4023865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**19.98433**	**39.51434**	**3.178492**	**19.67489**	**3.855811**	**.3811081**
Stddev	.06387	.13879	.021709	.18715	.019265	.0012361
%RSD	.3196136	.3512501	.6829956	.9512085	.4996446	.3243410
#1	19.93917	39.41620	3.163141	19.54256	3.842188	.3802341
#2	20.02950	39.61248	3.193842	19.80723	3.869433	.3819822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICV Acquired: 11/7/2017 16:26:36 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**20.31930**	**.4001965**	**.3969817**	**.4023672**	**.3971615**	F **.3519709**
Stddev	.11840	.0015664	.0017187	.0028987	.0001626	.0005561
%RSD	.5827140	.3914102	.4329402	.7204140	.0409393	.1579964
#1	20.23558	.3990889	.3957664	.4044169	.3970465	.3523641
#2	20.40303	.4013041	.3981970	.4003175	.3972765	.3515776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.4000000
Range						-10.0000%

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4119102**	**.3969093**	**.4013656**	**.3648005**	**3.864179**	**.4096443**
Stddev	.0009822	.0004926	.0005337	.0006037	.002535	.0009891
%RSD	.2384395	.1241132	.1329809	.1654970	.0656012	.2414577
#1	.4112157	.3972577	.4017430	.3652274	3.865971	.4089449
#2	.4126047	.3965610	.4009882	.3643736	3.862386	.4103437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1984.399**	**1068.550**	**10158.87**	**8563.171**
Stddev	.218	1.956	38.04	5.690
%RSD	.0109764	.1830576	.3744392	.0664462
#1	1984.245	1067.167	10131.97	8559.148
#2	1984.553	1069.933	10185.77	8567.195

Sample Name: ICB Acquired: 11/7/2017 16:30:25 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003415	.0130796	-.000300	.0012689	-.000050	.0001394	.0012456
Stddev	.0000642	.0121018	.002762	.0004099	.000044	.0000664	.0011945
%RSD	18.78640	92.52428	921.7173	32.30101	87.47771	47.64455	95.89775
#1	.0002961	.0216369	-.002253	.0015587	-.000019	.0000924	.0020903
#2	.0003869	.0045223	.001653	.0009790	-.000081	.0001864	.0004010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.003813	.0004422	-.000200	-.000078	.0019844	-.011942	.0283301
Stddev	.001380	.0001416	.000159	.000370	.0001168	.012465	.0017286
%RSD	36.18663	32.03111	79.31581	473.6392	5.886129	104.3761	6.101496
#1	-.004789	.0003420	-.000313	-.000339	.0020670	-.003128	.0271078
#2	-.002837	.0005423	-.000088	.000183	.0019018	-.020756	.0295524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005228	.0069384	-.000023	.0009374	.0093662	.0010467	-.000856
Stddev	.0003354	.0037851	.000354	.0003741	.0014615	.0000356	.001401
%RSD	64.14668	54.55275	1554.671	39.90962	15.60419	3.399746	163.6614
#1	.0007600	.0096149	.000228	.0006729	.0103997	.0010719	-.001847
#2	.0002857	.0042619	-.000273	.0012020	.0083328	.0010215	.000135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICB Acquired: 11/7/2017 16:30:25 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045845	.0027093	-.003912	-.000007	.0000377	.0005022	.0009528
Stddev	.0000508	.0044597	.000541	.001338	.0000033	.0000124	.0001911
%RSD	1.108544	164.6073	13.81702	19956.91	8.719128	2.458346	20.05800
#1	.0046204	.0058628	-.004294	.000939	.0000400	.0004935	.0010879
#2	.0045485	-.000444	-.003530	-.000953	.0000353	.0005110	.0008177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0005526	-.000405
Stddev	.0003231	.000113
%RSD	58.47059	27.97514
#1	.0007810	-.000485
#2	.0003241	-.000325
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2287.633	1132.070	10712.91	8719.688
Stddev	5.399	2.682	46.44	16.530
%RSD	.2360077	.2369425	.4335077	.1895654
#1	2283.815	1130.173	10680.07	8708.000
#2	2291.450	1133.967	10745.74	8731.376

Sample Name: ICVL Acquired: 11/7/2017 16:34:26 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048641	.2552429	.0107008	.0514894	.0101199	.0039813
Stddev	.0000882	.0002630	.0016815	.0004835	.0000409	.0000124
%RSD	1.813461	.1030238	15.71385	.9389858	.4040078	.3106179
#1	.0048017	.2554288	.0118898	.0518313	.0100910	.0039725
#2	.0049264	.2550570	.0095118	.0511476	.0101488	.0039900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0510137	.1932427	.0023401	.0049370	.0104869	.0117482
Stddev	.0006443	.0036474	.0003093	.0000200	.0002234	.0003463
%RSD	1.263035	1.887466	13.21561	.4060230	2.129872	2.947369
#1	.0514693	.1906636	.0021214	.0049228	.0103290	.0115034
#2	.0505581	.1958218	.0025588	.0049511	.0106449	.0119931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1406447	.5202065	.0106964	.1093431	.0099728	.0098845
Stddev	.0070878	.0005326	.0000144	.0034837	.0003872	.0001208
%RSD	5.039534	.1023844	.1342040	3.186008	3.882828	1.221802
#1	.1356329	.5205831	.0106863	.1068797	.0096990	.0099699
#2	.1456566	.5198299	.0107066	.1118064	.0102466	.0097991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICVL Acquired: 11/7/2017 16:34:26 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.038644	.0109687	.0043595	.0207731	.0086825	.1663250
Stddev	.004525	.0006221	.0001746	.0011872	.0022181	.0017174
%RSD	.4356195	5.671588	4.005934	5.715009	25.54651	1.032555
#1	1.041843	.0114086	.0042360	.0199337	.0071141	.1651106
#2	1.035444	.0105288	.0044830	.0216126	.0102509	.1675394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0395257	.0051675	.0052363	.0121971	.0053364	F .0287819
Stddev	.0008012	.0000036	.0000563	.0007274	.0000832	.0000428
%RSD	2.026967	.0697722	1.074921	5.963449	1.558361	.1485607
#1	.0389592	.0051649	.0052761	.0116828	.0053952	.0287517
#2	.0400922	.0051700	.0051965	.0127114	.0052776	.0288121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.0200000
Range						30.00000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2245.664	1114.275	10685.10	8702.628
Stddev	6.056	5.236	4.36	40.851
%RSD	.2696757	.4699163	.0408337	.4694079
#1	2249.946	1117.978	10682.02	8673.742
#2	2241.381	1110.573	10688.19	8731.514

Sample Name: CRI Acquired: 11/7/2017 16:38:25 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0100493**	**.4116991**	**.0205522**	**.1022824**	**.0205084**	**.0080710**	**.1023486**
Stddev	.0006649	.0004372	.0001617	.0003970	.0001411	.0002391	.0012491
%RSD	6.616031	.1061950	.7865303	.3881836	.6878776	2.961871	1.220404
#1	.0095792	.4113899	.0206665	.1025631	.0204086	.0082400	.1014653
#2	.0105195	.4120082	.0204379	.1020016	.0206081	.0079019	.1032318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3857183**	**.0044423**	**.0102639**	**.0204747**	**.0225271**	**.3940856**	**1.033071**
Stddev	.0005163	.0001255	.0000971	.0005943	.0000237	.0398035	.007347
%RSD	.1338585	2.825634	.9461178	2.902730	.1050689	10.10022	.7111361
#1	.3860833	.0045311	.0103325	.0208950	.0225438	.4222309	1.027876
#2	.3853532	.0043535	.0101952	.0200545	.0225103	.3659403	1.038266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0212852**	**.1983965**	**.0194292**	**.0196529**	**2.093484**	**.0202372**	**.0106574**
Stddev	.0002844	.0080332	.0002377	.0002317	.009163	.0004541	.0000480
%RSD	1.335957	4.049051	1.223209	1.179176	.4376687	2.243953	.4506664
#1	.0210842	.2040768	.0192612	.0194890	2.087005	.0199161	.0106234
#2	.0214863	.1927162	.0195973	.0198167	2.099963	.0205583	.0106913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CRI Acquired: 11/7/2017 16:38:25 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0385776	.0204099	.3410719	.0798408	.0104414	.0102505	.0216771
Stddev	.0008102	.0011816	.0000511	.0000406	.0000255	.0000476	.0001192
%RSD	2.100193	5.789130	.0149762	.0508412	.2441108	.4639966	.5499095
#1	.0380047	.0195745	.3411081	.0798121	.0104595	.0102841	.0217614
#2	.0391505	.0212454	.3410358	.0798695	.0104234	.0102168	.0215928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0100022	.0395095
Stddev	.0002551	.0009865
%RSD	2.550109	2.496909
#1	.0098219	.0388119
#2	.0101826	.0402071
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2216.551	1096.122	10533.50	8688.532
Stddev	3.114	4.604	65.54	12.540
%RSD	.1404751	.4200389	.6221944	.1443235
#1	2214.350	1092.866	10579.84	8679.665
#2	2218.753	1099.377	10487.15	8697.399

Sample Name: ICSA Acquired: 11/7/2017 16:42:23 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000113**	**514.6319**	**-.000252**	**-.001199**	**-.000012**	**.0010281**
Stddev	.000004	3.1195	.000807	.000009	.000023	.0000835
%RSD	3.840073	.6061605	319.5029	.7444205	188.2675	8.117895
#1	-.000110	512.4261	.000318	-.001193	-.000028	.0010871
#2	-.000116	516.8377	-.000823	-.001205	.000004	.0009690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006433**	**484.2761**	**-.000259**	**-.000627**	**.0036285**	**.0045975**
Stddev	.0039853	3.1179	.000096	.000646	.0000365	.0000292
%RSD	619.5560	.6438184	37.28900	102.9437	1.006795	.6341320
#1	.0034613	482.0715	-.000327	-.001084	.0036543	.0046181
#2	-.002175	486.4808	-.000191	-.000171	.0036026	.0045769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**192.9287**	**-.001997**	**-.007766**	**504.6146**	**-.000678**	**.0052923**
Stddev	1.8437	.003254	.000054	3.0890	.000052	.0015392
%RSD	.9556522	162.9136	.6965714	.6121579	7.660800	29.08311
#1	191.6250	.000304	-.007728	502.4303	-.000715	.0042040
#2	194.2324	-.004298	-.007804	506.7989	-.000641	.0063807
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSA Acquired: 11/7/2017 16:42:23 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0257509	-.003123	F .0059172	-.002837	-.002367	-.014028
Stddev	.0031871	.000899	.0006232	.004633	.007042	.000905
%RSD	12.37682	28.77832	10.53187	163.2956	297.5733	6.450525
#1	.0234973	-.003759	.0054766	-.006113	-.007346	-.013388
#2	.0280046	-.002488	.0063579	.000439	.002613	-.014668
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			.0050000			
Low Limit			-.005000			

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069286	.0045059	.0012957	.0053631	.0039734	.0002635
Stddev	.0013873	.0000246	.0000234	.0054991	.0000127	.0000259
%RSD	20.02226	.5465817	1.806627	102.5359	.3199404	9.811262
#1	.0079096	.0045234	.0012791	.0092515	.0039824	.0002452
#2	.0059477	.0044885	.0013122	.0014746	.0039644	.0002818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1586.705	951.0461	9116.225	7977.548
Stddev	6.709	10.6223	61.969	17.249
%RSD	.4228546	1.116907	.6797647	.2162240
#1	1581.961	943.5350	9072.407	7989.746
#2	1591.450	958.5572	9160.044	7965.351

Sample Name: ICSAB Acquired: 11/7/2017 16:46:26 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2149731	513.4560	.1059073	-.001087	.4970806	.5110058	-.001294
Stddev	.0027864	4.3126	.0035840	.000049	.0029605	.0006188	.002085
%RSD	1.296179	.8399211	3.384117	4.501762	.5955810	.1211013	161.0853
#1	.2169434	510.4065	.1084416	-.001052	.4949872	.5105683	.000180
#2	.2130028	516.5055	.1033730	-.001121	.4991740	.5114434	-.002768
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	484.5208	1.041929	.5038372	.4548871	.5552333	192.9090	-.006572
Stddev	8.6323	.000632	.0014671	.0001034	.0056291	.2017	.005316
%RSD	1.781619	.0606440	.2911767	.0227380	1.013823	.1045387	80.88415
#1	490.6247	1.041482	.5027998	.4548140	.5592137	192.7664	-.010331
#2	478.4168	1.042376	.5048745	.4549603	.5512529	193.0515	-.002813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.007437	503.6349	.4624173	.0039384	.0276241	.9722858	.0544238
Stddev	.000405	.7655	.0017688	.0000942	.0023824	.0025593	.0050832
%RSD	5.447176	.1519915	.3825198	2.392393	8.624267	.2632259	9.339992
#1	-.007723	503.0937	.4636680	.0038718	.0293087	.9704761	.0508295
#2	-.007150	504.1762	.4611665	.0040050	.0259395	.9740955	.0580182
Check ?	None	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
Value							
Range							

Sample Name: ICSAB Acquired: 11/7/2017 16:46:26 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5944447	.0434837	-.018532	.0063916	.0045370	.0028909	.0842769
Stddev	.0044779	.0008462	.003055	.0010989	.0000340	.0000787	.0018083
%RSD	.7532899	1.946002	16.48494	17.19235	.7488152	2.722060	2.145711
#1	.5912784	.0428854	-.020693	.0056146	.0045610	.0029466	.0829982
#2	.5976111	.0440821	-.016372	.0071686	.0045129	.0028353	.0855556
Check ?	Chk Pass	Chk Pass	None	None	None	None	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.4787366	1.001880
Stddev	.0000624	.008126
%RSD	.0130397	.8110439
#1	.4787807	.996134
#2	.4786924	1.007626
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1586.341	947.7991	9119.946	7978.051
Stddev	1.488	3.4539	54.570	5.016
%RSD	.0938318	.3644167	.5983540	.0628734
#1	1585.289	945.3568	9081.360	7981.598
#2	1587.394	950.2414	9158.533	7974.504

Sample Name: ICSA Acquired: 11/7/2017 16:50:22 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000306**	**513.9848**	**.0021944**	**-.002524**	**.0000223**	**.0010798**	**-.001956**
Stddev	.000228	4.5700	.0043535	.000266	.0000186	.0001303	.001383
%RSD	74.51657	.8891357	198.3917	10.55063	83.35297	12.06978	70.70076
#1	-.000145	510.7533	.0052728	-.002712	.0000092	.0009876	-.000978
#2	-.000467	517.2163	-.000884	-.002336	.0000355	.0011719	-.002933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**482.1796**	**-.000026**	**-.000646**	**.0032208**	**.0045351**	**192.4107**	**-.013248**
Stddev	2.1884	.000064	.000331	.0003151	.0002318	.8037	.000000
%RSD	.4538490	243.6012	51.18090	9.783726	5.110183	.4177135	.0023956
#1	483.7270	-.000072	-.000413	.0029980	.0043712	191.8424	-.013248
#2	480.6322	.000019	-.000880	.0034436	.0046990	192.9790	-.013248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.007841**	**503.4106**	**-.000616**	**.0050594**	**.0267913**	**-.005005**	**.0020411**
Stddev	.000077	3.1828	.000019	.0000493	.0021556	.000887	.0042587
%RSD	.9859942	.6322560	3.046791	.9741518	8.046063	17.71654	208.6446
#1	-.007786	501.1600	-.000602	.0050245	.0283156	-.005632	-.000970
#2	-.007896	505.6612	-.000629	.0050942	.0252671	-.004378	.005053
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: ICSA Acquired: 11/7/2017 16:50:22 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0115373	-.008930	-.020124	.0055537	.0044902	.0012213	.0039405
Stddev	.0010625	.011595	.002652	.0033999	.0000435	.0000351	.0022836
%RSD	9.209089	129.8380	13.17689	61.21780	.9681315	2.871013	57.95199
#1	.0107861	-.017129	-.021999	.0031496	.0045209	.0011965	.0023258
#2	.0122886	-.000731	-.018249	.0079578	.0044595	.0012461	.0055553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0046403	-.000869
Stddev	.0001876	.000782
%RSD	4.043245	90.02157
#1	.0045076	-.000316
#2	.0047729	-.001422
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1582.398	949.3372	9118.769	7959.430
Stddev	.039	1.4911	9.417	9.017
%RSD	.0024822	.1570727	.1032746	.1132893
#1	1582.370	948.2828	9125.428	7965.806
#2	1582.426	950.3916	9112.110	7953.054

Sample Name: CCV Acquired: 11/7/2017 16:54:28 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5007803	52.15737	.5181311	.5064551	.4999480	.5006428	.5207841
Stddev	.0007765	.25126	.0000271	.0006154	.0017458	.0057149	.0006584
%RSD	.1550667	.4817388	.0052350	.1215069	.3492022	1.141504	.1264347
#1	.5002312	51.97970	.5181119	.5068902	.4987135	.4966018	.5203185
#2	.5013294	52.33504	.5181503	.5060200	.5011825	.5046838	.5212497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.16662	.5006117	.5126237	.4915160	.5067410	25.68701	50.60739
Stddev	.33416	.0008656	.0014199	.0032681	.0007192	.13875	.17472
%RSD	1.327799	.1729097	.2769764	.6648961	.1419215	.5401390	.3452450
#1	24.93033	.5012238	.5116197	.4938269	.5062324	25.58891	50.73093
#2	25.40291	.4999997	.5136277	.4892051	.5072495	25.78512	50.48384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.059205	24.99886	4.867477	.4826671	25.61058	.5111930	.5081969
Stddev	.020850	.21032	.046326	.0023522	.10556	.0004667	.0014076
%RSD	.5136383	.8413369	.9517410	.4873299	.4121714	.0912953	.2769730
#1	4.073948	24.85014	4.834720	.4810039	25.68522	.5108630	.5072016
#2	4.044462	25.14758	4.900234	.4843304	25.53594	.5115230	.5091923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCV Acquired: 11/7/2017 16:54:28 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5043891	.5004824	.4513211	.5235765	.4995110	.5028973	.4637698
Stddev	.0009561	.0004843	.0011737	.0032788	.0006822	.0013425	.0023560
%RSD	.1895471	.0967659	.2600594	.6262345	.1365784	.2669568	.5080141
#1	.5050651	.5008249	.4504911	.5212581	.4999934	.5019480	.4621038
#2	.5037131	.5001400	.4521510	.5258950	.4990286	.5038466	.4654357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	4.960865	.5283676
Stddev	.027192	.0019206
%RSD	.5481335	.3634982
#1	4.980093	.5270096
#2	4.941637	.5297257
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1945.535	1059.177	10131.60	8487.170
Stddev	1.660	3.077	13.46	24.552
%RSD	.0853443	.2904677	.1328335	.2892865
#1	1944.361	1057.001	10122.09	8469.809
#2	1946.709	1061.352	10141.12	8504.531

Sample Name: CCB Acquired: 11/7/2017 16:58:36 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000120**	**.0250689**	**.0001988**	**.0011064**	**-.000065**	**-.000066**	**.0008129**
Stddev	.000306	.0065708	.0034664	.0002841	.000007	.000003	.0015646
%RSD	255.6705	26.21110	1743.299	25.67946	10.66119	4.081593	192.4669
#1	-.000336	.0204226	-.002252	.0013074	-.000060	-.000064	-.000293
#2	.000097	.0297152	.002650	.0009055	-.000070	-.000068	.001919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0100927**	**.0003007**	**-.000444**	**-.000050**	**.0023812**	**-.013310**	**.0220376**
Stddev	.0005541	.0001101	.000417	.000061	.0000353	.012479	.0003043
%RSD	5.489798	36.61335	94.02041	123.3806	1.481836	93.75664	1.380676
#1	.0104845	.0002228	-.000739	-.000006	.0023563	-.022133	.0218225
#2	.0097009	.0003785	-.000149	-.000093	.0024062	-.004486	.0222528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003671**	**.0139768**	**-.000113**	**.0008148**	**.0108600**	**.0010027**	**-.001682**
Stddev	.0003109	.0031977	.000436	.0001514	.0015952	.0000995	.000537
%RSD	84.67514	22.87849	386.1326	18.58466	14.68889	9.927608	31.92552
#1	.0005870	.0117157	.000195	.0007077	.0097320	.0009323	-.001303
#2	.0001473	.0162379	-.000421	.0009218	.0119880	.0010731	-.002062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/7/2017 16:58:36 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050193	-.001266	-.004422	.0005178	.0000409	.0004231	.0027227
Stddev	.0000988	.001643	.002144	.0006047	.0000045	.0001126	.0003673
%RSD	1.967881	129.7541	48.48252	116.7763	11.07021	26.61672	13.49073
#1	.0050891	-.000104	-.005938	.0009454	.0000377	.0005027	.0029824
#2	.0049495	-.002428	-.002906	.0000902	.0000441	.0003435	.0024630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0003873	-.000081
Stddev	.0004652	.000209
%RSD	120.1121	258.1373
#1	.0000584	.000067
#2	.0007163	-.000229
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2239.538	1098.279	10557.68	8669.861
Stddev	5.506	1.485	27.90	29.695
%RSD	.2458592	.1351862	.2642591	.3425124
#1	2243.431	1099.329	10577.41	8690.859
#2	2235.645	1097.229	10537.96	8648.863

Sample Name: MRL Acquired: 11/7/2017 17:02:36 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050400	.2076891	.0104555	.0509160	.0102550	.0039769	.0509595
Stddev	.0008201	.0149216	.0023256	.0009234	.0001247	.0001832	.0002716
%RSD	16.27253	7.184570	22.24284	1.813566	1.215820	4.607642	.5330272
#1	.0056200	.2182402	.0088110	.0515690	.0101669	.0038474	.0507674
#2	.0044601	.1971379	.0120999	.0502631	.0103432	.0041065	.0511516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1931951	.0023100	.0050177	.0102462	.0123625	.1614088	.5223793
Stddev	.0008012	.0001888	.0000243	.0003285	.0002111	.0065114	.0021627
%RSD	.4146848	8.171252	.4848828	3.206455	1.707400	4.034112	.4140024
#1	.1937616	.0021765	.0050005	.0100139	.0125117	.1568046	.5239085
#2	.1926286	.0024434	.0050349	.0104785	.0122132	.1660131	.5208500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0109592	.1053275	.0095863	.0097021	1.047831	.0105076	.0049570
Stddev	.0000293	.0019796	.0000668	.0000856	.006765	.0000429	.0001738
%RSD	.2674699	1.879484	.6966292	.8828130	.6456158	.4080883	3.506273
#1	.0109385	.1039277	.0096335	.0097626	1.043047	.0104773	.0050799
#2	.0109800	.1067273	.0095391	.0096415	1.052614	.0105379	.0048341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: MRL Acquired: 11/7/2017 17:02:36 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0204265	.0080354	.1599787	.0394100	.0052092	.0049949	.0108230
Stddev	.0001149	.0011074	.0006334	.0002825	.0000201	.0001529	.0006043
%RSD	.5624720	13.78097	.3959481	.7166881	.3857546	3.061420	5.583546
#1	.0205077	.0088184	.1595307	.0392103	.0051950	.0048867	.0112503
#2	.0203452	.0072524	.1604266	.0396097	.0052234	.0051030	.0103957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0057807	.0196184
Stddev	.0008944	.0000670
%RSD	15.47180	.3417002
#1	.0051483	.0195710
#2	.0064131	.0196658
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2228.481	1099.396	10473.12	8642.234
Stddev	1.260	2.215	19.51	1.761
%RSD	.0565622	.2015016	.1862644	.0203769
#1	2227.590	1097.829	10486.91	8640.989
#2	2229.373	1100.962	10459.32	8643.479

Sample Name: mb 500-408743/1-a Acquired: 11/7/2017 17:06:35 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002916	.0125227	-.001694	.0041482	.0000149	-.000004	-.002958
Stddev	.0004256	.0042566	.001288	.0001171	.0000422	.000018	.000960
%RSD	145.9362	33.99098	76.05476	2.822289	282.8568	456.7438	32.45942
#1	-.000009	.0155325	-.002605	.0042310	.0000448	.000009	-.003637
#2	.000593	.0095128	-.000783	.0040655	-.000015	-.000017	-.002279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0186376	.0005461	-.000669	.0005383	.0025482	.0213527	.0151346
Stddev	.0003988	.0002297	.000084	.0007431	.0000736	.0349214	.0002683
%RSD	2.139652	42.05297	12.49902	138.0454	2.889511	163.5460	1.772878
#1	.0183556	.0003837	-.000610	.0000129	.0026003	-.003341	.0153243
#2	.0189196	.0007085	-.000728	.0010638	.0024961	.046046	.0149449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000325	.0163576	-.000168	.0000883	.0293059	-.000371	.0002738
Stddev	.0000354	.0096059	.000064	.0000008	.0014651	.000506	.0013004
%RSD	109.0837	58.72448	38.22658	.8726144	4.999330	136.2801	475.0259
#1	.0000575	.0231499	-.000213	.0000878	.0303419	-.000013	.0011933
#2	.0000074	.0095652	-.000122	.0000889	.0282699	-.000729	-.000646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-408743/1-a Acquired: 11/7/2017 17:06:35 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005943	-.000149	.0157514	-.000294	.0002146	.0002543	-.000522
Stddev	.0004444	.001276	.0005755	.000725	.0000054	.0000172	.002284
%RSD	74.78165	858.8301	3.653414	246.9661	2.530769	6.759694	437.1552
#1	.0009085	-.001051	.0153445	.000219	.0002184	.0002665	-.002137
#2	.0002800	.000754	.0161583	-.000807	.0002107	.0002422	.001092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	-.000104	.0010744
Stddev	.000546	.0002486
%RSD	525.8303	23.13419
#1	.000282	.0012502
#2	-.000490	.0008987
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2225.371	1096.669	10595.35	8643.666
Stddev	4.110	.360	60.78	14.998
%RSD	.1846858	.0328205	.5736899	.1735183
#1	2222.465	1096.414	10552.37	8633.061
#2	2228.277	1096.923	10638.33	8654.272

Sample Name: lcs 500-408743/2-a Acquired: 11/7/2017 17:10:35 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0506475**	**2.234468**	**.1031520**	**.9741698**	**2.138263**	**.0518482**	**.5196943**
Stddev	.0000297	.031298	.0007026	.0010292	.014908	.0002802	.0017181
%RSD	.0585970	1.400708	.6811251	.1056480	.6971916	.5403843	.3305949
#1	.0506685	2.212336	.1036489	.9748975	2.127722	.0516501	.5184794
#2	.0506265	2.256599	.1026552	.9734420	2.148805	.0520463	.5209092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.40763**	**.0529940**	**.5267320**	**.2114393**	**.2695949**	**1.052395**	**10.81476**
Stddev	.01175	.0001960	.0021825	.0006825	.0003937	.012568	.00423
%RSD	.1129422	.3698604	.4143416	.3228060	.1460402	1.194181	.0390864
#1	10.39931	.0531326	.5251888	.2109567	.2698733	1.061282	10.81177
#2	10.41594	.0528554	.5282753	.2119220	.2693165	1.043509	10.81775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5610605**	**10.22037**	**.5160924**	**1.070805**	**10.95589**	**.5254383**	**.0991074**
Stddev	.0026238	.06468	.0000157	.000211	.03780	.0020023	.0000621
%RSD	.4676473	.6328129	.0030479	.0197331	.3450574	.3810716	.0626887
#1	.5592052	10.17463	.5160812	1.070655	10.92916	.5240224	.0990634
#2	.5629158	10.26610	.5161035	1.070954	10.98262	.5268541	.0991513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-408743/2-a Acquired: 11/7/2017 17:10:35 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5439884	.0991843	4.824676	1.033551	1.049341	1.062942	.0927692
Stddev	.0019470	.0008800	.034282	.001063	.000051	.003299	.0028968
%RSD	.3579177	.8872395	.7105548	.1028362	.0049072	.3103274	3.122619
#1	.5453652	.0985620	4.800435	1.032799	1.049305	1.060610	.0948175
#2	.5426117	.0998065	4.848917	1.034303	1.049378	1.065274	.0907208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5423759	.5146795
Stddev	.0004880	.0025488
%RSD	.0899777	.4952250
#1	.5420308	.5128773
#2	.5427210	.5164818
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2071.086	1055.382	10270.68	8461.676
Stddev	2.978	.881	29.70	24.173
%RSD	.1437899	.0834342	.2892044	.2856718
#1	2073.192	1054.759	10249.68	8444.583
#2	2068.981	1056.005	10291.68	8478.768

Sample Name: 500-136795-i-1-a Acquired: 11/7/2017 17:14:32 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001595**	**.0435634**	**-.002512**	**.0679534**	**.0010091**	**-.000042**	**-.004158**
Stddev	.0002150	.0044976	.000727	.0002849	.0000399	.000036	.000346
%RSD	134.8427	10.32421	28.94854	.4192501	3.951396	86.04821	8.331956
#1	.0003115	.0467437	-.003026	.0681548	.0010373	-.000017	-.004403
#2	.0000074	.0403832	-.001998	.0677519	.0009809	-.000068	-.003913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2160008**	**.0005847**	**-.000679**	**.0009852**	**.0023177**	**-.000739**	**.0553368**
Stddev	.0053672	.0002198	.000093	.0002635	.0000068	.002106	.0018055
%RSD	2.484820	37.58915	13.68861	26.74625	.2942039	284.9376	3.262789
#1	.2197961	.0007401	-.000613	.0011715	.0023129	-.002228	.0540601
#2	.2122056	.0004293	-.000744	.0007989	.0023225	.000750	.0566135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001320**	**.0053345**	**.0001313**	**.0025446**	**.5824820**	**-.001227**	**-.000496**
Stddev	.0000445	.0165640	.0001467	.0002020	.0020861	.000411	.001899
%RSD	33.71065	310.5046	111.6833	7.936398	.3581327	33.52468	383.1557
#1	.0001635	-.006378	.0002350	.0026874	.5839571	-.001518	-.001838
#2	.0001006	.017047	.0000276	.0024018	.5810069	-.000936	.000847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136795-i-1-a Acquired: 11/7/2017 17:14:32 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018271	.0000714	.6668930	.0002492	.0006634	.0015181	-.000857
Stddev	.0001963	.0020106	.0003077	.0014382	.0000032	.0002981	.000125
%RSD	10.74243	2816.165	.0461432	577.0504	.4841607	19.63370	14.57570
#1	.0016883	-.001350	.6671105	-.000768	.0006657	.0017289	-.000769
#2	.0019659	.001493	.6666754	.001266	.0006611	.0013074	-.000946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0003505	.0016666
Stddev	.0002626	.0001172
%RSD	74.91459	7.032547
#1	.0001649	.0017495
#2	.0005362	.0015837
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2245.275	1109.676	10759.21	8626.318
Stddev	1.735	3.565	25.87	41.172
%RSD	.0772907	.3212691	.2404608	.4772887
#1	2246.502	1107.155	10777.50	8597.205
#2	2244.047	1112.197	10740.91	8655.432

Sample Name: 136795-i-1-a SD@5 Acquired: 11/7/2017 17:18:33 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004787	.0280139	.0012728	.0152752	.0001190	-.000108	-.001355
Stddev	.0004422	.0168987	.0019997	.0002877	.0000176	.000021	.000470
%RSD	92.37964	60.32257	157.1146	1.883421	14.79734	19.07716	34.65778
#1	.0001660	.0160647	-.000141	.0154786	.0001315	-.000093	-.001687
#2	.0007914	.0399631	.002687	.0150717	.0001066	-.000123	-.001023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0449057	.0001451	-.000271	.0005387	.0017567	.0349999	.0130891
Stddev	.0007353	.0000521	.000132	.0000798	.0001644	.0120578	.0100333
%RSD	1.637483	35.92287	48.82623	14.81630	9.356232	34.45096	76.65368
#1	.0443858	.0001820	-.000177	.0005952	.0018730	.0264737	.0059945
#2	.0454257	.0001082	-.000364	.0004823	.0016405	.0435260	.0201837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000282	-.005096	-.000176	.0006807	.1264229	.0000999	.0006172
Stddev	.0002206	.009120	.000010	.0002686	.0008637	.0004803	.0006174
%RSD	781.6359	178.9845	5.695747	39.45822	.6831587	480.6205	100.0430
#1	-.000128	-.011545	-.000169	.0008706	.1258122	.0004396	.0010537
#2	.000184	.001353	-.000184	.0004908	.1270336	-.000240	.0001806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 136795-i-1-a SD@5 Acquired: 11/7/2017 17:18:33 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000095	.0002336	.1327001	.0001129	.0001435	.0001912	-.002011
Stddev	.000240	.0043553	.0031611	.0008648	.0000029	.0000189	.000535
%RSD	252.7857	1864.394	2.382161	765.6789	2.045664	9.884539	26.59917
#1	.000075	.0033133	.1304649	.0007244	.0001456	.0002046	-.001632
#2	-.000264	-.002846	.1349354	-.000499	.0001414	.0001779	-.002389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0005176	.0014226
Stddev	.0000155	.0004206
%RSD	2.985799	29.56759
#1	.0005286	.0017201
#2	.0005067	.0011252
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2288.746	1143.055	10823.62	8760.116
Stddev	5.624	2.697	9.44	2.210
%RSD	.2457217	.2359775	.0872303	.0252246
#1	2292.723	1144.962	10816.95	8761.679
#2	2284.769	1141.147	10830.30	8758.554

Sample Name: 500-136795-i-1-b du Acquired: 11/7/2017 17:22:34 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003559	.1625715	-.002491	.0751792	.0008534	-.000081	-.002048
Stddev	.0000370	.0010270	.000743	.0001065	.0000322	.000096	.000060
%RSD	10.39853	.6317427	29.80930	.1415953	3.775395	119.0549	2.919375
#1	.0003297	.1618453	-.003016	.0751040	.0008306	-.000149	-.002090
#2	.0003821	.1632977	-.001966	.0752545	.0008762	-.000013	-.002006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2466352	.0004596	-.000709	.0004822	.0026204	-.009078	.0522996
Stddev	.0016450	.0000763	.000348	.0005428	.0001817	.034025	.0003394
%RSD	.6669682	16.60849	49.01750	112.5456	6.932466	374.8026	.6488791
#1	.2454720	.0005135	-.000463	.0000985	.0024919	.014981	.0525396
#2	.2477984	.0004056	-.000955	.0008660	.0027488	-.033137	.0520596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001515	.0163831	.0001215	.0013531	.6986903	-.000496	-.000550
Stddev	.0000834	.0189218	.0001368	.0001229	.0020441	.000307	.000291
%RSD	55.05785	115.4955	112.5833	9.085490	.2925607	61.85748	52.86310
#1	.0000925	.0297628	.0002183	.0014400	.6972449	-.000713	-.000755
#2	.0002104	.0030034	.0000248	.0012662	.7001357	-.000279	-.000344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136795-i-1-b du Acquired: 11/7/2017 17:22:34 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000371	.0023835	.7216818	.0004445	.0006848	.0004173	-.002702
Stddev	.001666	.0005774	.0009358	.0009587	.0000066	.0000696	.000812
%RSD	448.9965	24.22362	.1296643	215.6518	.9648713	16.66947	30.04909
#1	.000807	.0019752	.7210201	.0011224	.0006894	.0004665	-.002128
#2	-.001549	.0027918	.7223435	-.000233	.0006801	.0003681	-.003277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	-.000185	.0062161
Stddev	.000015	.0001000
%RSD	7.906761	1.609315
#1	-.000175	.0061454
#2	-.000195	.0062869
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2248.613	1116.513	10707.90	8624.236
Stddev	4.249	3.670	2.29	3.035
%RSD	.1889700	.3287044	.0213770	.0351879
#1	2245.608	1113.918	10706.28	8622.091
#2	2251.617	1119.108	10709.51	8626.382

Sample Name: 500-136795-i-1-c ms Acquired: 11/7/2017 17:26:34 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0500177	2.127885	.0991638	1.029750	2.109757	.0511568	.5124356
Stddev	.0010137	.022600	.0008664	.000533	.010580	.0002178	.0017078
%RSD	2.026674	1.062089	.8736544	.0517636	.5014819	.4256513	.3332713
#1	.0493009	2.111905	.0985512	1.030127	2.102276	.0513108	.5136432
#2	.0507345	2.143866	.0997764	1.029373	2.117238	.0510028	.5112280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.56478	.0521261	.5212303	.2107773	.2681365	1.164444	10.54944
Stddev	.11871	.0001578	.0027094	.0025069	.0021508	.072153	.02512
%RSD	1.123610	.3027888	.5197995	1.189344	.8021250	6.196360	.2381030
#1	10.48084	.0522377	.5193145	.2125499	.2666156	1.215464	10.56720
#2	10.64872	.0520145	.5231461	.2090046	.2696573	1.113424	10.53168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5464233	10.08047	.5135291	1.051644	11.39790	.5185206	.0978668
Stddev	.0012619	.02907	.0055866	.000384	.05796	.0016492	.0006756
%RSD	.2309434	.2883589	1.087880	.0365526	.5084804	.3180644	.6902734
#1	.5473156	10.05991	.5095787	1.051372	11.43888	.5173544	.0973891
#2	.5455309	10.10102	.5174794	1.051916	11.35692	.5196868	.0983445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136795-i-1-c ms Acquired: 11/7/2017 17:26:34 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5353968	.0947948	5.388008	1.030626	1.049324	1.066186	.0930602
Stddev	.0012452	.0006234	.036570	.004378	.008470	.005556	.0014126
%RSD	.2325708	.6575877	.6787288	.4247650	.8071415	.5211338	1.517977
#1	.5362773	.0943540	5.362149	1.027530	1.043335	1.062257	.0940591
#2	.5345163	.0952356	5.413867	1.033722	1.055312	1.070115	.0920613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5314366	.5096113
Stddev	.0002440	.0043106
%RSD	.0459175	.8458541
#1	.5316091	.5065633
#2	.5312640	.5126593
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2099.367	1076.789	10353.59	8515.381
Stddev	8.201	7.999	48.68	25.700
%RSD	.3906392	.7428549	.4701756	.3018028
#1	2093.568	1071.133	10388.01	8497.209
#2	2105.166	1082.445	10319.16	8533.554

Sample Name: 500-136795-i-1-d msd Acquired: 11/7/2017 17:30:31 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0494866	2.085561	.0971989	1.012512	2.058420	.0509778	.5019604
Stddev	.0001409	.006551	.0021671	.000408	.009229	.0003726	.0021918
%RSD	.2847303	.3141357	2.229577	.0403068	.4483603	.7309918	.4366521
#1	.0493870	2.090194	.0956665	1.012223	2.051894	.0507143	.5004105
#2	.0495863	2.080929	.0987313	1.012800	2.064946	.0512413	.5035102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.46453	.0513374	.5128368	.2068133	.2616838	1.050299	10.28917
Stddev	.08641	.0003812	.0045457	.0001252	.0002335	.013663	.01647
%RSD	.8257304	.7425981	.8863827	.0605241	.0892323	1.300901	.1600929
#1	10.40342	.0510678	.5096226	.2067248	.2618489	1.059961	10.30082
#2	10.52563	.0516069	.5160511	.2069018	.2615187	1.040638	10.27753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5305285	9.955023	.5054549	1.028927	11.06477	.5110035	.0983996
Stddev	.0003311	.031682	.0025961	.003810	.01672	.0037611	.0019905
%RSD	.0624144	.3182479	.5136185	.3702555	.1511500	.7360139	2.022833
#1	.5307626	9.977425	.5036191	1.026233	11.07659	.5083440	.0969921
#2	.5302943	9.932621	.5072906	1.031620	11.05294	.5136630	.0998070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136795-i-1-d msd Acquired: 11/7/2017 17:30:31 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5254346	.0965874	5.246199	1.019498	1.036340	1.047100	.0927849
Stddev	.0002467	.0002406	.026364	.006296	.002889	.001168	.0008433
%RSD	.0469597	.2491248	.5025432	.6175297	.2788072	.1115631	.9088894
#1	.5256091	.0964172	5.227557	1.015046	1.038383	1.046274	.0921886
#2	.5252602	.0967575	5.264842	1.023949	1.034297	1.047926	.0933812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5196957	.5013806
Stddev	.0003485	.0064779
%RSD	.0670578	1.292014
#1	.5199421	.4968000
#2	.5194492	.5059612
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2121.398	1090.329	10437.84	8604.581
Stddev	5.535	6.892	36.76	32.537
%RSD	.2608977	.6321287	.3521651	.3781407
#1	2117.484	1085.455	10411.85	8581.573
#2	2125.311	1095.202	10463.83	8627.588

Sample Name: 500-136795-i-2-a Acquired: 11/7/2017 17:34:28 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001164	.0422989	-.004514	.0693456	.0008112	-.000134	-.003344
Stddev	.0000997	.0036636	.002303	.0007904	.0000019	.000067	.001231
%RSD	85.64493	8.661301	51.02015	1.139752	.2351381	49.92018	36.81473
#1	.0000459	.0448894	-.002885	.0699045	.0008126	-.000181	-.004215
#2	.0001869	.0397083	-.006142	.0687868	.0008099	-.000087	-.002474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1911400	.0006149	-.000561	.0007903	.0020584	.0289083	.0310734
Stddev	.0025145	.0001590	.000138	.0000162	.0000976	.0058528	.0008280
%RSD	1.315517	25.85825	24.63090	2.055953	4.742700	20.24616	2.664813
#1	.1893620	.0005024	-.000463	.0007788	.0021274	.0247698	.0304879
#2	.1929180	.0007273	-.000658	.0008018	.0019893	.0330469	.0316589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000124	.0076004	-.000033	.0011465	.5277864	-.000315	.0003007
Stddev	.000029	.0057546	.000123	.0005048	.0034359	.000561	.0004499
%RSD	23.56033	75.71514	376.2676	44.02794	.6509947	177.8488	149.6093
#1	-.000144	.0035312	-.000120	.0015034	.5253569	-.000712	-.000017
#2	-.000103	.0116695	.000054	.0007896	.5302160	.000081	.000619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136795-i-2-a Acquired: 11/7/2017 17:34:28 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008318	-.000164	.6153902	.0004056	.0006116	.0016741	-.002710
Stddev	.0010943	.001553	.0052334	.0005744	.0000003	.0000529	.000018
%RSD	131.5632	949.4613	.8504223	141.6375	.0457302	3.161852	.6569314
#1	.0000580	.000935	.6190908	-.000001	.0006114	.0017115	-.002697
#2	.0016056	-.001262	.6116897	.000812	.0006118	.0016367	-.002722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0003074	.0019784
Stddev	.0001940	.0003212
%RSD	63.12769	16.23552
#1	.0001702	.0017513
#2	.0004445	.0022056
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2251.289	1120.496	10717.44	8709.522
Stddev	11.712	6.462	52.93	9.419
%RSD	.5202393	.5766775	.4938292	.1081486
#1	2243.007	1115.927	10754.87	8716.182
#2	2259.571	1125.065	10680.02	8702.861

Sample Name: 500-136795-i-4-a Acquired: 11/7/2017 17:38:29 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002032	.0491110	-.003655	.0732027	.0006444	-.000175	-.003254
Stddev	.0002130	.0061981	.000236	.0001096	.0000078	.000010	.000131
%RSD	104.8204	12.62053	6.460260	.1497090	1.217029	5.918095	4.013937
#1	.0003538	.0447283	-.003822	.0731252	.0006500	-.000182	-.003162
#2	.0000526	.0534937	-.003488	.0732802	.0006389	-.000167	-.003347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1768019	.0006256	-.000427	.0006689	.0026612	.0454897	.0287391
Stddev	.0036943	.0000939	.000020	.0003689	.0002422	.0011688	.0038441
%RSD	2.089494	15.00547	4.788789	55.15402	9.102417	2.569277	13.37599
#1	.1741897	.0006920	-.000412	.0009297	.0024899	.0446632	.0260209
#2	.1794141	.0005593	-.000441	.0004080	.0028325	.0463161	.0314573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003085	.0286579	.0003878	.0015073	.4730145	-.000226	.0009610
Stddev	.0001257	.0164462	.0000309	.0002149	.0004382	.000171	.0006512
%RSD	40.76061	57.38810	7.964209	14.25755	.0926300	75.77176	67.75855
#1	.0003974	.0170287	.0003659	.0016593	.4733243	-.000105	.0005006
#2	.0002196	.0402872	.0004096	.0013554	.4727047	-.000347	.0014215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136795-i-4-a Acquired: 11/7/2017 17:38:29 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000636	.0034047	.5373502	.0012626	.0005603	.0005845	-.003371
Stddev	.0004961	.0012752	.0007580	.0004916	.0000011	.0001241	.000033
%RSD	779.8903	37.45227	.1410605	38.93709	.1939742	21.23338	.9870140
#1	-.000287	.0043064	.5368142	.0016102	.0005611	.0006723	-.003348
#2	.000414	.0025031	.5378862	.0009149	.0005596	.0004968	-.003395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	-.000171	.0009921
Stddev	.000052	.0004627
%RSD	30.46865	46.63552
#1	-.000207	.0013193
#2	-.000134	.0006650
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2261.782	1122.720	10770.44	8652.695
Stddev	4.556	6.260	34.47	9.366
%RSD	.2014468	.5575974	.3200350	.1082451
#1	2258.561	1118.293	10746.06	8646.072
#2	2265.004	1127.146	10794.81	8659.318

Sample Name: 500-136795-i-5-a Acquired: 11/7/2017 17:42:30 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000400	.0528132	-.003773	.0665514	.0007788	.0001335	-.003710
Stddev	.0000625	.0040308	.000956	.0009835	.0000074	.0000540	.000785
%RSD	156.4752	7.632104	25.32499	1.477855	.9523990	40.45450	21.16007
#1	-.000004	.0556634	-.004449	.0672469	.0007841	.0001717	-.004265
#2	.000084	.0499630	-.003097	.0658560	.0007736	.0000953	-.003155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2032104	.0006519	-.000238	.0002395	.0023137	-.016383	.0396043
Stddev	.0007213	.0000652	.000106	.0001871	.0000088	.024064	.0162868
%RSD	.3549608	10.00344	44.47450	78.13850	.3798464	146.8854	41.12397
#1	.2027004	.0006058	-.000312	.0001072	.0023199	.000633	.0511208
#2	.2037205	.0006981	-.000163	.0003718	.0023075	-.033398	.0280877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000097	.0228668	.0000402	.0000325	.5623793	-.000657	-.001232
Stddev	.000348	.0024239	.0003964	.0001696	.0043320	.000102	.000570
%RSD	358.4455	10.60004	985.6276	522.1903	.7703076	15.51373	46.24669
#1	-.000343	.0211528	.0003205	-.000087	.5593161	-.000729	-.001635
#2	.000149	.0245807	-.000240	.000152	.5654425	-.000585	-.000829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136795-i-5-a Acquired: 11/7/2017 17:42:30 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002803	.0027970	.5787536	.0007992	.0005893	.0003478	-.002199
Stddev	.0000378	.0009716	.0025555	.0002514	.0000000	.0001309	.000046
%RSD	13.48263	34.73691	.4415600	31.45447	.0035547	37.62483	2.104239
#1	.0003070	.0034840	.5805607	.0009769	.0005893	.0004404	-.002166
#2	.0002535	.0021100	.5769466	.0006214	.0005893	.0002553	-.002232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0003700	.0039571
Stddev	.0003988	.0003168
%RSD	107.7732	8.005159
#1	.0000880	.0037331
#2	.0006520	.0041811
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2284.118	1141.403	10785.38	8749.668
Stddev	6.563	8.559	29.99	20.423
%RSD	.2873344	.7498760	.2780240	.2334146
#1	2279.477	1135.351	10806.58	8735.227
#2	2288.759	1147.456	10764.18	8764.109

Sample Name: CCV Acquired: 11/7/2017 17:46:31 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5030838	51.18504	.4964407	.4952041	.4902465	.5021645
Stddev	.0033433	.45069	.0002148	.0000245	.0035256	.0053159
%RSD	.6645581	.8805115	.0432711	.0049451	.7191510	1.058600
#1	.5054478	50.86635	.4962888	.4952215	.4877535	.4984055
#2	.5007197	51.50373	.4965926	.4951868	.4927395	.5059234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5072750	25.27860	.4937412	.5093088	.4949008	.5007800
Stddev	.0005466	.12013	.0003108	.0003550	.0044177	.0038047
%RSD	.1077421	.4752408	.0629453	.0697110	.8926328	.7597546
#1	.5068885	25.19365	.4935214	.5090577	.4980245	.5034703
#2	.5076614	25.36355	.4939609	.5095599	.4917770	.4980897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.60777	48.85928	3.909506	24.84429	4.882236	.4740444
Stddev	.11472	.23190	.036083	.19655	.035114	.0015723
%RSD	.4479888	.4746280	.9229551	.7911230	.7192138	.3316893
#1	25.52664	48.69530	3.883991	24.70531	4.857406	.4729325
#2	25.68888	49.02325	3.935020	24.98327	4.907065	.4751562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 11/7/2017 17:46:31 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.97691	.5079647	.5025529	.4924908	.4890025	F .4294841
Stddev	.18265	.0023006	.0003240	.0063129	.0081915	.0001609
%RSD	.7312911	.4529013	.0644647	1.281832	1.675150	.0374641
#1	24.84775	.5063380	.5027820	.4880269	.4947948	.4295979
#2	25.10606	.5095915	.5023238	.4969547	.4832102	.4293703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.5000000
Range						-10.0000%

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5251814	.4957711	.5034885	.4548381	4.920160	.5260794
Stddev	.0006812	.0024188	.0030632	.0040448	.010522	.0023233
%RSD	.1297038	.4878842	.6083970	.8892882	.2138606	.4416191
#1	.5256630	.4974815	.5056545	.4519780	4.927601	.5244366
#2	.5246997	.4940608	.5013225	.4576982	4.912720	.5277222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1999.452	1100.161	10318.05	8601.387
Stddev	2.753	3.739	35.21	7.205
%RSD	.1376905	.3398218	.3412417	.0837632
#1	1997.505	1097.517	10293.15	8606.481
#2	2001.399	1102.804	10342.95	8596.292

Sample Name: CCB Acquired: 11/7/2017 17:50:40 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000945	.0203476	.0010447	.0009520	-.000069	-.000077	.0004867
Stddev	.0001445	.0049270	.0012126	.0000097	.000021	.000151	.0003135
%RSD	152.9784	24.21403	116.0680	1.020987	30.39573	196.2696	64.42301
#1	-.000008	.0168637	.0001873	.0009589	-.000054	-.000184	.0002650
#2	.000197	.0238315	.0019021	.0009451	-.000084	.000030	.0007084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.005481	.0002953	-.000181	.0002717	.0018552	.0167943	.0203799
Stddev	.000687	.0001980	.000170	.0002048	.0000755	.0179485	.0036383
%RSD	12.53431	67.05899	94.13707	75.38433	4.068478	106.8726	17.85230
#1	-.005966	.0004353	-.000301	.0004165	.0018019	.0294858	.0229525
#2	-.004995	.0001553	-.000060	.0001269	.0019086	.0041028	.0178072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002425	.0031107	.0002565	.0006282	.0086188	.0006125	.0010003
Stddev	.0003397	.0053603	.0001482	.0001483	.0017848	.0006410	.0004708
%RSD	140.0935	172.3191	57.78332	23.60852	20.70766	104.6626	47.06339
#1	.0004826	.0069010	.0003613	.0005233	.0098809	.0001592	.0013332
#2	.0000023	-.000680	.0001517	.0007331	.0073568	.0010658	.0006674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/7/2017 17:50:40 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031729	-.001756	-.014878	-.001525	.0000313	.0003386	-.000101
Stddev	.0003518	.000653	.000965	.000079	.0000021	.0000295	.002286
%RSD	11.08760	37.16930	6.487172	5.172634	6.748892	8.719657	2274.343
#1	.0034216	-.002218	-.015561	-.001581	.0000328	.0003178	.001516
#2	.0029241	-.001295	-.014196	-.001469	.0000298	.0003595	-.001717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0004029	-.000235
Stddev	.0002900	.000223
%RSD	71.98431	94.74188
#1	.0006080	-.000078
#2	.0001978	-.000393
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2281.565	1130.806	10774.34	8756.531
Stddev	16.093	9.088	90.58	2.381
%RSD	.7053672	.8037005	.8406819	.0271952
#1	2292.945	1137.233	10838.39	8754.847
#2	2270.185	1124.380	10710.30	8758.215

Sample Name: 500-136795-i-7-a Acquired: 11/7/2017 17:54:41 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002975	.0335412	-.004883	.0062811	.0000932	-.000042	-.002986
Stddev	.0002403	.0051880	.000883	.0000523	.0000264	.000131	.000746
%RSD	80.77470	15.46746	18.08749	.8327916	28.38344	310.0832	24.99659
#1	.0001276	.0372097	-.005507	.0062441	.0000745	-.000134	-.003514
#2	.0004674	.0298728	-.004258	.0063181	.0001119	.000050	-.002458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0307944	.0006404	-.000657	.0011547	.0087705	-.013244	.0190546
Stddev	.0013171	.0000289	.000251	.0001520	.0001310	.025283	.0022725
%RSD	4.277129	4.518569	38.15743	13.16199	1.493700	190.9014	11.92599
#1	.0317257	.0006608	-.000835	.0010472	.0088632	.004634	.0206615
#2	.0298630	.0006199	-.000480	.0012621	.0086779	-.031122	.0174477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000100	.0018189	.0000989	.0006558	.0526525	-.000791	-.000500
Stddev	.0001281	.0122162	.0002595	.0002662	.0007709	.000089	.000023
%RSD	1275.490	671.6177	262.2548	40.59301	1.464135	11.31439	4.502058
#1	-.000081	.0104571	.0002824	.0008440	.0531976	-.000854	-.000516
#2	.000101	-.006819	-.000085	.0004676	.0521074	-.000727	-.000484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136795-i-7-a Acquired: 11/7/2017 17:54:41 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006825	.0016546	.0371326	-.001123	.0001861	.0002341	-.001464
Stddev	.0012176	.0012235	.0010003	.001714	.0000001	.0000649	.000479
%RSD	178.4067	73.94591	2.693896	152.6394	.0819241	27.72733	32.73893
#1	-.000178	.0007894	.0364253	-.002335	.0001862	.0001882	-.001803
#2	.001543	.0025197	.0378399	.000089	.0001860	.0002800	-.001125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	-.000064	.0035449
Stddev	.000050	.0003176
%RSD	77.83007	8.959698
#1	-.000099	.0033203
#2	-.000029	.0037695
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2244.447	1107.388	10678.82	8609.471
Stddev	4.906	2.220	86.54	29.149
%RSD	.2185939	.2004341	.8103485	.3385698
#1	2247.916	1108.958	10617.63	8630.082
#2	2240.977	1105.819	10740.01	8588.859

Sample Name: 500-136795-i-8-a Acquired: 11/7/2017 17:58:41 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000065**	**.0293716**	**-.003586**	**.0175414**	**.0001646**	**-.000178**	**-.004389**
Stddev	.000036	.0054588	.000646	.0001037	.0000392	.000063	.001292
%RSD	54.82376	18.58518	18.02183	.5913473	23.77742	35.46885	29.44622
#1	-.000040	.0255116	-.004043	.0174680	.0001369	-.000223	-.005303
#2	-.000091	.0332315	-.003129	.0176147	.0001923	-.000133	-.003475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0642288**	**.0005277**	**-.000692**	**.0013266**	**.0091944**	**-.003405**	**.0182845**
Stddev	.0007968	.0000336	.000469	.0001441	.0002448	.011183	.0061105
%RSD	1.240544	6.362827	67.78098	10.86330	2.662830	328.4700	33.41882
#1	.0647922	.0005514	-.000360	.0012247	.0093675	-.011312	.0226053
#2	.0636653	.0005039	-.001023	.0014285	.0090212	.004503	.0139638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000077**	**-.001013**	**-.000060**	**.0000284**	**.1471170**	**-.000588**	**.0006132**
Stddev	.000103	.009471	.000390	.0000858	.0002613	.000809	.0004607
%RSD	134.2878	934.4993	648.5535	301.8112	.1776394	137.6104	75.13244
#1	-.000150	-.007711	.000215	-.000032	.1469322	-.001160	.0002874
#2	-.000004	.005684	-.000336	.000089	.1473018	-.000016	.0009390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136795-i-8-a Acquired: 11/7/2017 17:58:41 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002877	-.000673	.1656419	-.000874	.0002303	.0000538	-.001784
Stddev	.0000184	.001236	.0039801	.000381	.0000108	.0000144	.000103
%RSD	6.381195	183.6229	2.402834	43.57430	4.691116	26.80727	5.768577
#1	.0003007	.000201	.1628276	-.000605	.0002380	.0000436	-.001711
#2	.0002748	-.001547	.1684563	-.001143	.0002227	.0000640	-.001857
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	-.000056	.0024346
Stddev	.000001	.0001149
%RSD	2.306800	4.720321
#1	-.000055	.0023533
#2	-.000057	.0025158
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2257.940	1121.494	10749.11	8673.097
Stddev	21.874	9.875	10.74	84.297
%RSD	.9687802	.8804842	.0999473	.9719346
#1	2273.407	1128.476	10741.51	8613.491
#2	2242.472	1114.512	10756.71	8732.704

Sample Name: 500-136714-b-7-a @5 Acquired: 11/7/2017 18:02:42 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001214	3.704585	.0017649	.5714975	.0379194	.0001970	.0025996
Stddev	.0002959	.012387	.0038308	.0033640	.0000918	.0002798	.0007620
%RSD	243.6842	.3343663	217.0576	.5886240	.2420183	141.9723	29.31304
#1	.0003306	3.713344	-.000944	.5738762	.0379843	.0003949	.0020608
#2	-.000088	3.695827	.004474	.5691188	.0378545	-.000001	.0031385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	75.12288	.0005583	.0019813	.0052748	.0114854	3.295163	50.30521
Stddev	1.44044	.0001130	.0001241	.0004725	.0000386	.028118	.28981
%RSD	1.917444	20.23979	6.261762	8.958031	.3361775	.8533011	.5761099
#1	74.10434	.0004784	.0020690	.0056090	.0114581	3.275281	50.51014
#2	76.14143	.0006382	.0018936	.0049407	.0115127	3.315045	50.10028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0356598	55.84283	.1856665	.0051354	160.1546	.0130504	.0021598
Stddev	.0001645	.41757	.0019442	.0001545	.3917	.0013512	.0004313
%RSD	.4613238	.7477572	1.047126	3.008091	.2445920	10.35332	19.96876
#1	.0357762	55.54757	.1842918	.0052447	159.8776	.0140058	.0018548
#2	.0355435	56.13810	.1870412	.0050262	160.4316	.0120950	.0024647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136714-b-7-a @5 Acquired: 11/7/2017 18:02:42 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000740	.0001005	8.182395	-.000327	.4363271	.1461891	.0024154
Stddev	.0001968	.0032442	.136686	.001823	.0000905	.0011798	.0012274
%RSD	265.7667	3227.721	1.670487	558.1022	.0207332	.8070326	50.81713
#1	.0002132	-.002193	8.279046	-.001616	.4362631	.1453548	.0032833
#2	-.000065	.002395	8.085743	.000962	.4363911	.1470233	.0015474
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0076191	.0101790
Stddev	.0000229	.0000291
%RSD	.3002497	.2861635
#1	.0076030	.0101584
#2	.0076353	.0101996
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1848.854	1012.985	9740.196	8350.674
Stddev	25.837	17.494	5.104	2.478
%RSD	1.397435	1.727008	.0524018	.0296697
#1	1867.123	1025.356	9736.587	8348.922
#2	1830.585	1000.615	9743.805	8352.426

Sample Name: 500-136788-d-1-b @5 Acquired: 11/7/2017 18:06:44 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003584**	**1.313488**	**-.001784**	**.0364896**	**.0233752**	**-.000014**	**.0005040**
Stddev	.0001877	.028559	.001046	.0000897	.0001916	.000028	.0003222
%RSD	52.37105	2.174296	58.61668	.2458291	.8195465	201.3658	63.93598
#1	.0004912	1.293293	-.001044	.0365531	.0232398	-.000034	.0007318
#2	.0002257	1.333682	-.002523	.0364262	.0235107	.000006	.0002761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.64558**	**.0006927**	**.0006192**	**.0044203**	**.0254696**	**2.028626**	**2.987520**
Stddev	.02908	.0000092	.0000932	.0002991	.0003400	.002957	.007401
%RSD	.1747255	1.334756	15.05153	6.765728	1.334738	.1457777	.2477457
#1	16.62502	.0006992	.0006851	.0042088	.0252292	2.030717	2.982287
#2	16.66615	.0006861	.0005533	.0046318	.0257100	2.026535	2.992754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030980**	**5.555985**	**.0726343**	**.0096611**	**10.44308**	**.0040948**	**.0121965**
Stddev	.0000656	.036646	.0007168	.0000604	.00630	.0008368	.0000030
%RSD	2.116955	.6595716	.9868706	.6249859	.0603325	20.43698	.0244515
#1	.0030516	5.530073	.0721274	.0097038	10.44754	.0046865	.0121986
#2	.0031444	5.581898	.0731412	.0096184	10.43862	.0035030	.0121944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136788-d-1-b @5 Acquired: 11/7/2017 18:06:44 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000232	-.001601	2.305395	.0013819	.0621634	.0342877	-.001906
Stddev	.000220	.004318	.043792	.0003016	.0000531	.0017495	.002375
%RSD	94.79003	269.6357	1.899565	21.82796	.0854440	5.102417	124.5908
#1	-.000076	.001452	2.336361	.0015952	.0621258	.0355248	-.000227
#2	-.000387	-.004655	2.274429	.0011686	.0622009	.0330507	-.003586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0033870	.0603355
Stddev	.0002121	.0014169
%RSD	6.262331	2.348287
#1	.0032370	.0613374
#2	.0035369	.0593336
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2108.379	1047.871	10363.91	8594.720
Stddev	8.627	9.583	39.50	43.795
%RSD	.4091747	.9145407	.3811180	.5095521
#1	2114.479	1054.647	10391.84	8563.752
#2	2102.279	1041.094	10335.98	8625.687

Sample Name: mb 500-408739/1-a Acquired: 11/7/2017 18:12:42 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001946**	**.0193538**	**-.000880**	**.0032209**	**.0000620**	**.0000459**	**-.000546**
Stddev	.0001849	.0076039	.000675	.0002862	.0000391	.0000076	.001795
%RSD	95.01059	39.28894	76.70352	8.885704	63.09390	16.49737	328.6106
#1	.0003253	.0247305	-.000403	.0034233	.0000896	.0000512	-.001815
#2	.0000639	.0139770	-.001357	.0030186	.0000343	.0000405	.000723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0066141**	**.0003466**	**-.000343**	**.0005347**	**.0023537**	**-.023995**	**.0226194**
Stddev	.0001501	.0001956	.000325	.0000293	.0005255	.018824	.0005542
%RSD	2.269312	56.42703	94.79243	5.484526	22.32586	78.44799	2.450033
#1	.0067202	.0004849	-.000574	.0005140	.0027253	-.010685	.0230112
#2	.0065079	.0002083	-.000113	.0005554	.0019822	-.037306	.0222275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000130**	**.0082383**	**-.000034**	**-.000256**	**.0279540**	**.0002195**	**.0001104**
Stddev	.000111	.0034205	.000326	.000287	.0020302	.0010220	.0008106
%RSD	85.64022	41.51920	947.3417	111.9702	7.262557	465.4977	734.0902
#1	-.000209	.0058197	-.000265	-.000053	.0265184	-.000503	.0006836
#2	-.000051	.0106570	.000196	-.000459	.0293895	.000942	-.000463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-408739/1-a Acquired: 11/7/2017 18:12:42 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000914	.0002696	-.014515	-.001426	.0003393	-.000066	.0002002
Stddev	.000149	.0015884	.000399	.000469	.0000024	.000016	.0005427
%RSD	16.29915	589.0596	2.747401	32.89325	.7001768	24.60610	271.1453
#1	-.000809	.0013928	-.014797	-.001758	.0003410	-.000055	.0005839
#2	-.001019	-.000853	-.014233	-.001094	.0003376	-.000078	-.000184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0002564	.0015788
Stddev	.0003197	.0005422
%RSD	124.6761	34.34206
#1	.0000304	.0019622
#2	.0004824	.0011954
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2287.509	1132.730	10807.02	8804.573
Stddev	2.989	3.419	69.14	3.171
%RSD	.1306542	.3018688	.6397976	.0360170
#1	2289.622	1135.148	10758.12	8802.331
#2	2285.395	1130.313	10855.91	8806.815

Sample Name: lcs 500-408739/2-a Acquired: 11/7/2017 18:16:43 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0531368	2.105339	.1059970	1.001087	2.098967	.0537808	.5297679
Stddev	.0005028	.032131	.0013532	.004868	.019823	.0001157	.0028951
%RSD	.9461952	1.526186	1.276609	.4862956	.9444039	.2151362	.5464862
#1	.0527813	2.082619	.1050401	.997645	2.084950	.0538626	.5277207
#2	.0534923	2.128060	.1069538	1.004529	2.112984	.0536990	.5318150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.64548	.0533751	.5280552	.2136200	.2674846	1.057547	10.51131
Stddev	.07694	.0001660	.0009764	.0005959	.0005120	.018474	.10894
%RSD	.7227942	.3109295	.1849053	.2789370	.1914184	1.746829	1.036388
#1	10.69989	.0532577	.5273647	.2131986	.2671225	1.044484	10.43428
#2	10.59107	.0534924	.5287456	.2140413	.2678466	1.070610	10.58834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5377102	10.30932	.5242720	1.026175	10.74926	.5310385	.1024375
Stddev	.0103671	.04963	.0017128	.007512	.13504	.0009741	.0003585
%RSD	1.928003	.4814063	.3266937	.7320852	1.256317	.1834299	.3499290
#1	.5303796	10.27423	.5254832	1.020863	10.65377	.5303498	.1026910
#2	.5450408	10.34442	.5230609	1.031487	10.84475	.5317273	.1021841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-408739/2-a Acquired: 11/7/2017 18:16:43 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5460713	.1004419	4.503889	1.037550	1.057935	1.058876	.1018603
Stddev	.0033075	.0044843	.021764	.010970	.001100	.004059	.0036212
%RSD	.6056960	4.464522	.4832171	1.057262	.1039425	.3833258	3.555117
#1	.5437326	.0972711	4.488500	1.029794	1.058712	1.056005	.0992997
#2	.5484101	.1036128	4.519278	1.045307	1.057157	1.061746	.1044209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5348107	.5293615
Stddev	.0025887	.0005170
%RSD	.4840389	.0976620
#1	.5329803	.5289960
#2	.5366412	.5297271
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2139.282	1100.615	10472.22	8708.356
Stddev	3.103	.748	29.55	28.171
%RSD	.1450482	.0679363	.2821779	.3234968
#1	2141.476	1101.144	10493.12	8728.276
#2	2137.087	1100.086	10451.33	8688.436

Sample Name: 500-136790-a-1-a Acquired: 11/7/2017 18:20:41 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006534	.3815539	.0010337	.3885082	.0526052	-.000193	-.000641
Stddev	.0005660	.0074541	.0002425	.0471003	.0003419	.000137	.002101
%RSD	86.62434	1.953603	23.46293	12.12337	.6499274	70.57539	327.5825
#1	.0010537	.3868247	.0012052	.4218132	.0523634	-.000097	-.002127
#2	.0002532	.3762831	.0008622	.3552033	.0528470	-.000290	.000844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.47942	.0008367	-.000528	.0024290	.0390259	.7034184	92.42202
Stddev	.00911	.0000697	.000284	.0005083	.0000236	.0038898	.57911
%RSD	.0309099	8.328913	53.75587	20.92502	.0605231	.5529828	.6265980
#1	29.48586	.0007874	-.000729	.0020696	.0390092	.7061688	92.01252
#2	29.47297	.0008860	-.000327	.0027884	.0390426	.7006679	92.83152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0073498	21.83325	.0239661	.0094560	316.4556	.0076526	.0111114
Stddev	.0002964	.07465	.0008049	.0013196	1.4152	.0014950	.0006837
%RSD	4.032477	.3419135	3.358626	13.95470	.4472061	19.53651	6.152964
#1	.0071403	21.78046	.0233969	.0103891	317.4563	.0065955	.0115948
#2	.0075594	21.88603	.0245353	.0085229	315.4549	.0087098	.0106280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136790-a-1-a Acquired: 11/7/2017 18:20:41 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013557	.0024818	27.29449	.0026881	.7565005	.0130035	-.003075
Stddev	.0001885	.0014030	3.27371	.0001831	.0003940	.0003874	.002002
%RSD	13.90225	56.53100	11.99404	6.812028	.0520830	2.978908	65.11806
#1	.0012224	.0014898	29.60935	.0025586	.7567791	.0127296	-.004491
#2	.0014889	.0034739	24.97962	.0028175	.7562218	.0132775	-.001659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0013006	.0462342
Stddev	.0003966	.0039820
%RSD	30.49684	8.612647
#1	.0015811	.0490499
#2	.0010201	.0434185
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1834.131	1006.750	9292.275	8227.819
Stddev	138.860	96.493	.603	11.776
%RSD	7.570916	9.584573	.0064876	.1431276
#1	1735.941	938.519	9291.849	8236.146
#2	1932.320	1074.980	9292.701	8219.492

Sample Name: 500-136793-a-1-a Acquired: 11/7/2017 18:24:50 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000252**	**.0608377**	**-.001079**	**.0231967**	**.0183703**	**.0001781**	**-.001174**
Stddev	.000164	.0001253	.000782	.0000962	.0000084	.0000836	.001093
%RSD	65.14599	.2058768	72.50873	.4145038	.0458498	46.96205	93.05939
#1	-.000136	.0609263	-.001632	.0231288	.0183643	.0002372	-.001947
#2	-.000368	.0607492	-.000526	.0232647	.0183762	.0001190	-.000402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.52684**	**.0003689**	**-.000042**	**.0008591**	**.0080190**	**.1081592**	**1.517642**
Stddev	.39601	.0000603	.000157	.0006268	.0000904	.0427961	.002801
%RSD	1.297256	16.34622	371.3631	72.96324	1.126821	39.56764	.1845901
#1	30.24682	.0003262	.000069	.0004159	.0079551	.0778978	1.515661
#2	30.80686	.0004115	-.000153	.0013023	.0080829	.1384206	1.519623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014417**	**10.43074**	**.0040993**	**.0097007**	**14.97219**	**.0054200**	**-.000681**
Stddev	.0000787	.09752	.0004796	.0001576	.00555	.0002773	.000722
%RSD	5.460661	.9349138	11.70021	1.624094	.0370510	5.116211	106.0244
#1	.0014973	10.36178	.0037602	.0095893	14.97611	.0056161	-.001192
#2	.0013860	10.49969	.0044385	.0098121	14.96827	.0052239	-.000170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136793-a-1-a Acquired: 11/7/2017 18:24:50 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001494	-.003848	.8329879	-.000930	.1091156	.0033250	-.000640
Stddev	.001991	.000693	.0014539	.000137	.0002498	.0000283	.001170
%RSD	133.2619	17.99963	.1745381	14.69124	.2289233	.8502238	182.8827
#1	-.002902	-.003358	.8340159	-.000833	.1092922	.0033450	.000188
#2	-.000086	-.004338	.8319598	-.001026	.1089390	.0033050	-.001467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0002919	.0141322
Stddev	.0002815	.0003255
%RSD	96.42249	2.303312
#1	.0004909	.0139020
#2	.0000929	.0143623
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2091.695	1061.864	10333.63	8603.781
Stddev	4.663	.407	3.24	2.145
%RSD	.2229490	.0383351	.0313360	.0249312
#1	2094.992	1061.577	10335.92	8605.298
#2	2088.397	1062.152	10331.34	8602.265

Sample Name: 500-136793-a-3-a Acquired: 11/7/2017 18:28:48 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000075**	**.0882822**	**.0009370**	**.0745532**	**.0418905**	**-.000014**	**.0012615**
Stddev	.000513	.0097495	.0014464	.0003370	.0003349	.000269	.0007847
%RSD	685.6599	11.04361	154.3671	.4520096	.7995376	1883.204	62.20452
#1	-.000437	.0813882	.0019597	.0747915	.0416536	.000176	.0007066
#2	.000288	.0951762	-.000086	.0743149	.0421273	-.000204	.0018164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**63.80151**	**.0002453**	**.0000192**	**.0033292**	**.0175578**	**1.601225**	**4.027633**
Stddev	.25492	.0000514	.0001897	.0000531	.0002394	.009339	.026148
%RSD	.3995453	20.96240	986.0431	1.596586	1.363665	.5832128	.6492064
#1	63.62126	.0002089	.0001534	.0032916	.0177271	1.607828	4.009144
#2	63.98177	.0002816	-.000115	.0033668	.0173885	1.594621	4.046122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040967**	**22.48304**	**.0453026**	**.1061949**	**88.55325**	**.0326927**	**-.001426**
Stddev	.0002139	.05898	.0008270	.0001253	.98060	.0013012	.000833
%RSD	5.220627	.2623429	1.825544	.1179461	1.107354	3.979988	58.42093
#1	.0039455	22.44133	.0447178	.1061063	87.85986	.0336128	-.000837
#2	.0042480	22.52474	.0458874	.1062834	89.24663	.0317727	-.002015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136793-a-3-a Acquired: 11/7/2017 18:28:48 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001418	-.000118	2.015705	-.000142	.2346172	.0036438	-.000967
Stddev	.000811	.002313	.008073	.001064	.0003603	.0000621	.001338
%RSD	57.16595	1955.439	.4005290	747.0653	.1535779	1.703737	138.3856
#1	-.001991	-.001754	2.009996	-.000895	.2343624	.0036877	-.001913
#2	-.000845	.001517	2.021414	.000610	.2348720	.0035999	-.000021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0010372	.0678553
Stddev	.0000943	.0009946
%RSD	9.095453	1.465780
#1	.0011039	.0671520
#2	.0009705	.0685586
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1917.049	1002.151	9796.768	8421.579
Stddev	1.253	1.997	22.865	37.387
%RSD	.0653784	.1992482	.2333885	.4439474
#1	1917.935	1003.563	9812.936	8448.016
#2	1916.163	1000.739	9780.601	8395.142

Sample Name: 500-136794-a-1-a Acquired: 11/7/2017 18:32:51 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001941**	**.0816159**	**-.000421**	**.0863017**	**.0288575**	**-.000126**	**.0013339**
Stddev	.0005471	.0065783	.000011	.0009417	.0000237	.000362	.0012788
%RSD	281.8290	8.060036	2.563859	1.091139	.0821928	286.9408	95.86828
#1	.0005810	.0862675	-.000413	.0856358	.0288742	-.000382	.0004297
#2	-.000193	.0769644	-.000429	.0869676	.0288407	.000130	.0022382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**37.40064**	**.0004942**	**-.000016**	**.0021095**	**.0325503**	**.9211188**	**4.612904**
Stddev	.28062	.0002265	.000339	.0003732	.0001377	.0357188	.001667
%RSD	.7503154	45.83505	2147.830	17.69326	.4230119	3.877763	.0361354
#1	37.20222	.0003340	-.000256	.0018456	.0324529	.9463758	4.614082
#2	37.59907	.0006544	.000224	.0023734	.0326476	.8958618	4.611725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0062804**	**15.73576**	**.0605634**	**.0049261**	**292.5359**	**.0028997**	**.0002603**
Stddev	.0002171	.05827	.0005210	.0001087	2.1127	.0000135	.0004457
%RSD	3.457466	.3703207	.8602157	2.207512	.7221906	.4653025	171.2252
#1	.0064340	15.69455	.0601950	.0048492	291.0421	.0028901	-.000055
#2	.0061269	15.77696	.0609318	.0050030	294.0298	.0029092	.000575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136794-a-1-a Acquired: 11/7/2017 18:32:51 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000521	-.000527	2.627264	.0017864	.1411736	.0036864	-.000019
Stddev	.000301	.001201	.007993	.0014023	.0000020	.0000636	.000612
%RSD	57.73080	227.8400	.3042150	78.49975	.0014187	1.724904	3246.984
#1	-.000308	-.001376	2.621612	.0027780	.1411751	.0036414	.000414
#2	-.000734	.000322	2.632915	.0007948	.1411722	.0037313	-.000452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0015718	.0397212
Stddev	.0002181	.0007270
%RSD	13.87492	1.830151
#1	.0014176	.0402352
#2	.0017260	.0392071
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1825.463	998.3730	9618.909	8361.072
Stddev	7.784	3.5136	37.518	2.370
%RSD	.4264263	.3519353	.3900442	.0283462
#1	1830.968	1000.858	9645.439	8359.396
#2	1819.959	995.888	9592.380	8362.747

Sample Name: CCV Acquired: 11/7/2017 18:36:55 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4959864**	**51.87831**	**.5101642**	**.5056518**	**.5005985**	**.4975620**
Stddev	.0006849	.78716	.0055193	.0012057	.0057712	.0051920
%RSD	.1380965	1.517328	1.081864	.2384411	1.152858	1.043479
#1	.4964707	51.32170	.5062615	.5065043	.4965176	.4938907
#2	.4955021	52.43492	.5140669	.5047993	.5046793	.5012332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5140339**	**24.84651**	**.4976412**	**.5095407**	**.4826149**	**.5060193**
Stddev	.0017691	.17750	.0003135	.0004956	.0019066	.0006982
%RSD	.3441650	.7143985	.0629944	.0972612	.3950621	.1379803
#1	.5152848	24.72100	.4974196	.5098911	.4839631	.5065130
#2	.5127829	24.97202	.4978629	.5091903	.4812667	.5055256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.44033**	**50.41068**	**4.066943**	**24.85868**	**4.839705**	**.4806843**
Stddev	.27352	.65063	.066698	.29626	.034115	.0007793
%RSD	1.075160	1.290666	1.639993	1.191785	.7049047	.1621177
#1	25.24692	49.95061	4.019781	24.64919	4.815582	.4801332
#2	25.63374	50.87075	4.114105	25.06817	4.863828	.4812353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 11/7/2017 18:36:55 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.79092	.5087650	.5064447	.5023508	.4960608	F .4487485
Stddev	.31526	.0000755	.0013495	.0000144	.0042511	.0004613
%RSD	1.222358	.0148390	.2664632	.0028583	.8569750	.1028043
#1	25.56800	.5087116	.5054905	.5023609	.4990668	.4484223
#2	26.01385	.5088184	.5073990	.5023406	.4930548	.4490747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.5000000
Range						-10.0000%

Elem	Sn1899	Sr4215	Ti3349	TI1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5220371	.4980592	.4999115	.4601719	4.902472	.5242353
Stddev	.0011427	.0001412	.0003500	.0032540	.012090	.0000968
%RSD	.2188839	.0283604	.0700101	.7071224	.2466107	.0184654
#1	.5228451	.4979593	.5001590	.4578710	4.893923	.5241668
#2	.5212291	.4981591	.4996641	.4624728	4.911021	.5243037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1939.279	1055.614	10055.94	8455.614
Stddev	1.260	.587	15.90	39.643
%RSD	.0649973	.0556106	.1580898	.4688318
#1	1938.387	1055.199	10044.70	8483.645
#2	1940.170	1056.029	10067.18	8427.582

Sample Name: CCB Acquired: 11/7/2017 18:41:04 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001416	.0203051	.0001741	.0010478	-.000088	.0000785	.0009048
Stddev	.0000489	.0013392	.0005327	.0001178	.000005	.0002074	.0011940
%RSD	34.56369	6.595332	305.9013	11.24058	5.992808	264.0880	131.9593
#1	.0001070	.0193581	-.000203	.0009645	-.000091	.0002252	.0017491
#2	.0001762	.0212520	.000551	.0011311	-.000084	-.000068	.0000605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.004729	.0000603	.0001503	.0003433	.0019092	-.014067	.0167453
Stddev	.001205	.0001038	.0001217	.0007349	.0001083	.010825	.0078359
%RSD	25.48366	172.1445	81.00724	214.0718	5.674234	76.95316	46.79497
#1	-.005581	-.000013	.0002364	-.000176	.0018326	-.021722	.0112044
#2	-.003877	.000134	.0000642	.000863	.0019858	-.006413	.0222861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005394	.0000640	.0001846	.0008688	.0205997	.0002560	-.000794
Stddev	.0003391	.0105325	.0003441	.0003934	.0005442	.0004254	.000309
%RSD	62.85496	16454.60	186.4751	45.27923	2.641817	166.1622	38.88268
#1	.0007792	-.007384	-.000059	.0011470	.0209845	.0005569	-.000576
#2	.0002997	.007512	.000428	.0005907	.0202149	-.000045	-.001013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/7/2017 18:41:04 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024947	-.003145	-.017492	-.000301	.0000381	.0003721	.0013650
Stddev	.0005645	.004065	.001031	.002273	.0000136	.0000684	.0000707
%RSD	22.62932	129.2421	5.893383	755.9525	35.78768	18.37546	5.179285
#1	.0028939	-.000271	-.016763	-.001908	.0000477	.0003237	.0013150
#2	.0020955	-.006020	-.018221	.001306	.0000284	.0004204	.0014150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0003394	-.000303
Stddev	.0002080	.000212
%RSD	61.28332	70.04165
#1	.0001923	-.000153
#2	.0004865	-.000454
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2268.065	1116.669	10676.25	8645.536
Stddev	8.955	10.010	68.88	20.523
%RSD	.3948505	.8963760	.6451814	.2373875
#1	2274.397	1123.747	10724.96	8660.048
#2	2261.732	1109.591	10627.54	8631.024

Sample Name: CCVL Acquired: 11/7/2017 18:45:06 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046997	.1985624	.0101818	.0498485	.0099514	.0039585	.0500399
Stddev	.0000720	.0059366	.0002527	.0002876	.0000666	.0002930	.0004523
%RSD	1.531082	2.989794	2.482098	.5769669	.6694760	7.402291	.9038367
#1	.0047506	.1943646	.0100032	.0496451	.0099043	.0037514	.0503597
#2	.0046488	.2027602	.0103606	.0500519	.0099986	.0041657	.0497201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1922831	.0021284	.0049016	.0103129	.0119975	.2069794	.5132197
Stddev	.0001765	.0000991	.0003364	.0003543	.0000730	.0043033	.0024282
%RSD	.0917688	4.653966	6.863694	3.435138	.6087969	2.079093	.4731218
#1	.1921583	.0020584	.0051395	.0100624	.0119459	.2100223	.5149366
#2	.1924078	.0021985	.0046637	.0105634	.0120492	.2039365	.5115027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0105719	.0964166	.0100050	.0102776	1.029137	.0107463	.0055099
Stddev	.0000877	.0072452	.0002969	.0002036	.003172	.0001544	.0009703
%RSD	.8296394	7.514501	2.967821	1.980953	.3081926	1.436534	17.61001
#1	.0105099	.1015397	.0097950	.0104215	1.031380	.0108554	.0048238
#2	.0106339	.0912934	.0102150	.0101336	1.026894	.0106371	.0061960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCVL Acquired: 11/7/2017 18:45:06 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201870	.0078999	.1472208	.0380349	.0051755	.0050365	.0109718
Stddev	.0017730	.0044212	.0000689	.0009985	.0000266	.0001327	.0006052
%RSD	8.782910	55.96496	.0468368	2.625231	.5137377	2.635617	5.516126
#1	.0214407	.0047737	.1471720	.0387410	.0051567	.0049426	.0113997
#2	.0189333	.0110262	.1472695	.0373289	.0051943	.0051303	.0105438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0049973	.0197419
Stddev	.0001978	.0001310
%RSD	3.958417	.6635686
#1	.0051372	.0198346
#2	.0048575	.0196493
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2269.519	1134.367	10678.65	8706.659
Stddev	11.769	5.720	33.54	14.156
%RSD	.5185779	.5042776	.3140396	.1625913
#1	2277.841	1138.411	10702.37	8716.669
#2	2261.197	1130.322	10654.94	8696.649

Sample Name: 500-136794-a-3-a Acquired: 11/7/2017 18:49:08 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000079	.1012501	.0050812	.0223903	.0174133	-.000010
Stddev	.000517	.0018110	.0026888	.0002219	.0000910	.000110
%RSD	655.5047	1.788660	52.91716	.9912336	.5228132	1095.357
#1	-.000444	.1025307	.0069825	.0222333	.0173490	.000068
#2	.000287	.0999695	.0031799	.0225472	.0174777	-.000088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001507	33.33987	.0005959	.0000576	.0014268	.0263828
Stddev	.000883	.29215	.0001028	.0003524	.0001760	.0003509
%RSD	58.57719	.8762732	17.24312	611.7592	12.33801	1.330127
#1	-.000883	33.13329	.0006685	-.000192	.0015513	.0261347
#2	-.002131	33.54645	.0005232	.000307	.0013023	.0266310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1363720	2.159396	.0014761	9.496230	.0043735	.0021266
Stddev	.0227970	.001420	.0000111	.056301	.0002127	.0004890
%RSD	16.71678	.0657801	.7524280	.5928809	4.863207	22.99307
#1	.1202521	2.160400	.0014683	9.456419	.0042231	.0024724
#2	.1524919	2.158392	.0014840	9.536041	.0045239	.0017809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136794-a-3-a Acquired: 11/7/2017 18:49:08 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.90203**	**.0060850**	**.0005198**	**-.003290**	**.0144396**	**1.207701**
Stddev	.07342	.0005915	.0004014	.000430	.0022358	.000953
%RSD	.2729092	9.719880	77.23439	13.08646	15.48375	.0789071
#1	26.95394	.0056668	.0008036	-.002985	.0128586	1.208375
#2	26.85011	.0065032	.0002359	-.003594	.0160205	1.207027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036762**	**.1225562**	**.0043966**	F **-.011894**	**.0013022**	**.0658897**
Stddev	.0004440	.0002493	.0000253	.001219	.0001044	.0000684
%RSD	12.07826	.2033899	.5762639	10.24701	8.020051	.1037532
#1	.0033622	.1223799	.0043787	-.012756	.0013761	.0659381
#2	.0039901	.1227324	.0044146	-.011033	.0012284	.0658414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				20.00000		
Low Limit				-.010000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2106.213**	**1030.457**	**10245.28**	**8587.307**
Stddev	7.142	3.998	8.91	6.502
%RSD	.3390692	.3879662	.0870152	.0757115
#1	2111.263	1033.283	10238.97	8582.709
#2	2101.163	1027.630	10251.58	8591.904

Sample Name: 136794-a-3-a SD@5 Acquired: 11/7/2017 18:53:07 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000082**	**.0448941**	**-.000158**	**.0051906**	**.0034341**	**.0001320**	**.0009933**
Stddev	.000135	.0090130	.002430	.0002031	.0000282	.0001321	.0006613
%RSD	165.3477	20.07616	1540.779	3.912127	.8207910	100.1354	66.57783
#1	.000014	.0512673	-.001876	.0053342	.0034540	.0000385	.0005257
#2	-.000178	.0385209	.001561	.0050470	.0034141	.0002254	.0014609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.989400**	**.0004529**	**-.000128**	**.0007424**	**.0068403**	**.0247384**	**.4353257**
Stddev	.111766	.0000444	.000104	.0003839	.0000678	.0040491	.0048690
%RSD	1.599081	9.799810	81.42148	51.70470	.9911138	16.36765	1.118472
#1	7.068430	.0004842	-.000054	.0004710	.0067923	.0218752	.4387685
#2	6.910369	.0004215	-.000202	.0010139	.0068882	.0276015	.4318827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003613**	**1.984809**	**.0008443**	**.0002383**	**5.422824**	**.0018918**	**-.000297**
Stddev	.0000362	.054099	.0002640	.0003145	.060388	.0006769	.000433
%RSD	10.02980	2.725632	31.26482	131.9459	1.113582	35.78258	145.7429
#1	.0003870	2.023063	.0006576	.0000160	5.465524	.0023704	.000009
#2	.0003357	1.946556	.0010309	.0004607	5.380123	.0014131	-.000603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 136794-a-3-a SD@5 Acquired: 11/7/2017 18:53:07 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001834	.0001013	.2291262	.0004722	.0248193	.0015078	-.001165
Stddev	.000483	.0022357	.0011492	.0011214	.0000177	.0000230	.001491
%RSD	26.34666	2207.247	.5015475	237.4781	.0712522	1.525131	127.9988
#1	-.001492	-.001480	.2283136	.0012652	.0248067	.0015240	-.000111
#2	-.002176	.001682	.2299388	-.000321	.0248318	.0014915	-.002219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0004776	.0144748
Stddev	.0002562	.0002057
%RSD	53.64010	1.421413
#1	.0006588	.0143293
#2	.0002965	.0146203
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2213.054	1100.588	10602.43	8683.945
Stddev	11.623	9.729	50.41	109.926
%RSD	.5251937	.8839723	.4754872	1.265850
#1	2221.273	1107.467	10638.08	8606.216
#2	2204.836	1093.708	10566.78	8761.674

Sample Name: 500-136794-a-3-b du Acquired: 11/7/2017 18:57:07 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002940	.1296387	.0006777	.0203767	.0160016	-.000185
Stddev	.0003508	.0090790	.0010148	.0001111	.0000393	.000253
%RSD	119.3392	7.003312	149.7322	.5451072	.2455796	136.7149
#1	.0000459	.1232189	.0013953	.0204553	.0159738	-.000364
#2	.0005420	.1360585	-.000040	.0202982	.0160294	-.000006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001291	30.73869	.0006735	-.000255	.0022552	.0242170
Stddev	.000544	.04371	.0001892	.000204	.0012939	.0003555
%RSD	42.10540	.1421941	28.09999	80.26769	57.37136	1.467925
#1	-.000907	30.76959	.0005397	-.000110	.0013403	.0239657
#2	-.001676	30.70778	.0008073	-.000399	.0031701	.0244684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1432112	1.960914	.0013327	9.133715	.0041485	.0013207
Stddev	.0293315	.005920	.0001466	.045740	.0001845	.0001388
%RSD	20.48126	.3019054	10.99749	.5007767	4.447165	10.50542
#1	.1639517	1.956728	.0014363	9.101372	.0042789	.0014188
#2	.1224707	1.965100	.0012290	9.166058	.0040180	.0012226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136794-a-3-b du Acquired: 11/7/2017 18:57:07 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.62673**	**.0052745**	**-.000561**	**-.004671**	**.0118080**	**1.107926**
Stddev	.15489	.0000453	.001588	.002046	.0025241	.000826
%RSD	.6289445	.8590413	282.9102	43.79750	21.37648	.0745300
#1	24.51721	.0053065	-.001685	-.003225	.0135928	1.108510
#2	24.73625	.0052424	.000562	-.006118	.0100231	1.107343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034931**	**.1135909**	**.0041298**	F **-.012043**	**.0012889**	**.0599346**
Stddev	.0006539	.0009605	.0000460	.001032	.0001429	.0005217
%RSD	18.72027	.8455443	1.114795	8.566636	11.08331	.8705400
#1	.0030307	.1129118	.0041624	-.011314	.0013899	.0595656
#2	.0039555	.1142701	.0040973	-.012773	.0011879	.0603035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				20.00000		
Low Limit				-.010000		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2096.467**	**1027.443**	**10147.40**	**8588.447**
Stddev	4.271	1.759	47.54	35.018
%RSD	.2037060	.1711974	.4685136	.4077360
#1	2093.447	1026.199	10181.02	8613.209
#2	2099.486	1028.687	10113.79	8563.686

Sample Name: 500-136794-a-3-c ms Acquired: 11/7/2017 19:01:06 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0487600**	**2.201246**	**.1146434**	**.9546544**	**2.067439**	**.0501272**	**.4887444**
Stddev	.0009250	.001724	.0009379	.0016477	.009238	.0000973	.0027298
%RSD	1.897140	.0783163	.8180906	.1725965	.4468332	.1941077	.5585291
#1	.0494141	2.202465	.1153066	.9534893	2.060907	.0500584	.4868142
#2	.0481059	2.200027	.1139802	.9558195	2.073971	.0501960	.4906747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**41.12333**	**.0522810**	**.4926104**	**.2033123**	**.2849832**	**1.176183**	**12.08200**
Stddev	.19208	.0000633	.0016819	.0000873	.0011983	.000473	.05009
%RSD	.4670795	.1211140	.3414216	.0429131	.4204900	.0402245	.4145502
#1	40.98751	.0523258	.4914211	.2033740	.2841358	1.176518	12.04659
#2	41.25915	.0522362	.4937997	.2032506	.2858305	1.175849	12.11742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5313609**	**19.13634**	**.4966454**	**1.037668**	**35.39078**	**.4950359**	**.0923984**
Stddev	.0037066	.00130	.0024749	.004875	.12040	.0014701	.0004113
%RSD	.6975709	.0068056	.4983319	.4697716	.3402153	.2969693	.4451337
#1	.5287399	19.13726	.4948953	1.034221	35.30564	.4939964	.0921076
#2	.5339819	19.13542	.4983954	1.041114	35.47592	.4960754	.0926892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136794-a-3-c ms Acquired: 11/7/2017 19:01:06 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5302230	.1319576	5.385303	.8918783	1.128986	1.005127	.0741412
Stddev	.0041914	.0012944	.034532	.0117793	.009837	.004483	.0006930
%RSD	.7905007	.9808930	.6412288	1.320724	.8713156	.4460385	.9347758
#1	.5272592	.1328728	5.360885	.8835491	1.122030	1.001956	.0736512
#2	.5331868	.1310423	5.409721	.9002075	1.135942	1.008297	.0746313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5167847	.5519771
Stddev	.0027072	.0001461
%RSD	.5238479	.0264624
#1	.5148705	.5518738
#2	.5186990	.5520804
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2015.634	1003.710	10008.17	8465.103
Stddev	9.948	4.548	37.07	1.997
%RSD	.4935487	.4531621	.3704235	.0235919
#1	2022.669	1006.926	10034.39	8466.515
#2	2008.600	1000.494	9981.96	8463.690

Sample Name: mb 500-408751/1-a Acquired: 11/7/2017 19:07:04 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000025**	**.0431757**	**.0006697**	**.0003847**	**.0004067**	**.0000286**	**-.000292**
Stddev	.000480	.0030996	.0010890	.0001026	.0000329	.0000752	.001067
%RSD	1925.394	7.179060	162.6225	26.66217	8.100154	262.5068	365.8808
#1	.000314	.0409840	-.000100	.0004573	.0003834	-.000025	.000463
#2	-.000364	.0453675	.001440	.0003122	.0004300	.000082	-.001046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0451140**	**.0000789**	**-.000211**	**.0014965**	**.0025140**	**.0412244**	**.0192671**
Stddev	.0016932	.0003894	.000152	.0003868	.0000175	.0226043	.0016332
%RSD	3.753159	493.4906	72.03830	25.84748	.6959212	54.83232	8.476750
#1	.0463113	-.000196	-.000104	.0012230	.0025263	.0572081	.0181122
#2	.0439167	.000354	-.000319	.0017700	.0025016	.0252408	.0204219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000435**	**-.005837**	**.0009695**	**.0007674**	**.0414569**	**.0016469**	**-.000713**
Stddev	.0000896	.003902	.0000694	.0000874	.0011921	.0001670	.001391
%RSD	205.8612	66.86140	7.163761	11.38707	2.875559	10.13980	195.1827
#1	-.000020	-.008596	.0010186	.0008292	.0422998	.0017650	-.001696
#2	.000107	-.003077	.0009204	.0007056	.0406139	.0015288	.000271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: mb 500-408751/1-a Acquired: 11/7/2017 19:07:04 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000572	-.003427	-.011628	.0160424	.0001868	.0025024	.0002804
Stddev	.0002826	.000411	.000587	.0007792	.0000050	.0000205	.0007479
%RSD	494.1722	12.00252	5.045726	4.857137	2.678226	.8191284	266.7618
#1	.0002570	-.003136	-.011213	.0165934	.0001833	.0025169	-.000248
#2	-.000143	-.003717	-.012042	.0154915	.0001903	.0024879	.000809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0004139	.0036525
Stddev	.0002486	.0000621
%RSD	60.06643	1.700759
#1	.0005898	.0036964
#2	.0002381	.0036086
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2250.135	1108.190	10608.49	8660.900
Stddev	1.582	1.690	48.43	11.217
%RSD	.0703001	.1525368	.4565524	.1295088
#1	2249.017	1106.995	10574.25	8652.969
#2	2251.254	1109.385	10642.74	8668.831

Sample Name: lcs 500-408751/2-a Acquired: 11/7/2017 19:11:05 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0468813	1.944433	.0908857	.8709636	1.930955	.0470044	.4727710
Stddev	.0004390	.022424	.0009465	.0012807	.010679	.0004345	.0007555
%RSD	.9363862	1.153221	1.041398	.1470489	.5530436	.9242964	.1597967
#1	.0471917	1.928578	.0915549	.8700580	1.923404	.0466972	.4722368
#2	.0465709	1.960289	.0902164	.8718692	1.938506	.0473116	.4733052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.510763	.0484287	.4792413	.1937624	.2461211	1.011655	9.640923
Stddev	.058760	.0003793	.0022553	.0005834	.0001171	.014012	.020437
%RSD	.6178242	.7831765	.4705923	.3010854	.0475772	1.385097	.2119815
#1	9.469213	.0481605	.4776466	.1941749	.2460383	1.001746	9.626471
#2	9.552312	.0486969	.4808361	.1933499	.2462039	1.021563	9.655374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4992182	9.269190	.4709338	.9539129	9.899775	.4785789	.0901515
Stddev	.0022189	.081651	.0030326	.0033958	.032844	.0013207	.0014975
%RSD	.4444728	.8808863	.6439446	.3559835	.3317610	.2759556	1.661121
#1	.4976492	9.211454	.4687895	.9515117	9.876551	.4776451	.0890926
#2	.5007871	9.326926	.4730781	.9563141	9.922999	.4795128	.0912104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: lcs 500-408751/2-a Acquired: 11/7/2017 19:11:05 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4636354	.0911316	1.734608	.9667839	.9602911	.9750371	.0881484
Stddev	.0050160	.0028246	.005522	.0026084	.0066088	.0021182	.0006457
%RSD	1.081881	3.099520	.3183378	.2698046	.6882064	.2172464	.7324638
#1	.4600886	.0931289	1.730704	.9649395	.9556180	.9735393	.0876919
#2	.4671822	.0891342	1.738513	.9686283	.9649642	.9765349	.0886050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.4840653	.4720015
Stddev	.0013506	.0025746
%RSD	.2790086	.5454654
#1	.4831103	.4701810
#2	.4850203	.4738220
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2110.568	1079.401	10330.36	8549.385
Stddev	1.125	.570	2.10	11.733
%RSD	.0532932	.0527972	.0203119	.1372340
#1	2111.364	1079.804	10331.85	8541.089
#2	2109.773	1078.998	10328.88	8557.681

Sample Name: 500-136756-f-1-a Acquired: 11/7/2017 19:15:04 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002579**	**197.7932**	**.1223893**	**.0249763**	**1.601863**	**.0087076**	**.0109436**
Stddev	.000316	1.4887	.0008872	.0003030	.008962	.0006072	.0005630
%RSD	12.23775	.7526611	.7248675	1.213186	.5594753	6.972781	5.144566
#1	-.002356	196.7405	.1230166	.0251905	1.595526	.0091369	.0105455
#2	-.002802	198.8459	.1217620	.0247620	1.608200	.0082783	.0113417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**486.2702**	**.0043332**	**.0936223**	**.2670280**	**.2520548**	**282.0423**	**11.07900**
Stddev	11.5137	.0004319	.0008020	.0016066	.0008712	1.8814	.02146
%RSD	2.367756	9.967389	.8566468	.6016406	.3456558	.6670615	.1936953
#1	478.1288	.0040278	.0930552	.2681640	.2526709	280.7120	11.06383
#2	494.4116	.0046387	.0941894	.2658920	.2514388	283.3727	11.09418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1402527**	**34.10542**	**3.590575**	**.0158776**	**9.271160**	**.1886435**	**1.776288**
Stddev	.0007964	.12755	.010693	.0001365	.031834	.0000213	.004242
%RSD	.5678527	.3739789	.2977955	.8598874	.3433630	.0112719	.2387947
#1	.1396895	34.01523	3.583014	.0157810	9.248650	.1886585	1.779287
#2	.1408158	34.19561	3.598135	.0159741	9.293670	.1886285	1.773288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-1-a Acquired: 11/7/2017 19:15:04 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077261	.0087335	1.949534	.0332505	.6577015	1.559066	-.007923
Stddev	.0016666	.0008012	.014759	.0047550	.0008749	.002624	.002081
%RSD	21.57119	9.173910	.7570504	14.30046	.1330285	.1682790	26.26320
#1	.0089046	.0093000	1.939098	.0366128	.6583201	1.560921	-.006452
#2	.0065476	.0081670	1.959970	.0298883	.6570828	1.557211	-.009395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.3987871	1.187358
Stddev	.0002976	.001349
%RSD	.0746373	.1135884
#1	.3989975	1.188312
#2	.3985766	1.186405
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1662.597	1138.180	11206.23	9683.371
Stddev	11.626	11.121	8.62	.721
%RSD	.6992913	.9771294	.0769161	.0074479
#1	1670.818	1146.044	11212.33	9682.861
#2	1654.375	1130.316	11200.14	9683.881

Sample Name: 136756-f-1-a SD@5 Acquired: 11/7/2017 19:19:09 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000590**	**50.87748**	**.0302486**	**.0075320**	**.4268243**	**.0024850**	**.0036787**
Stddev	.000639	.33363	.0017396	.0002042	.0030064	.0001149	.0004437
%RSD	108.2018	.6557488	5.751128	2.711270	.7043676	4.623139	12.06119
#1	-.000139	50.64157	.0314787	.0076764	.4246984	.0025662	.0033650
#2	-.001042	51.11339	.0290185	.0073876	.4289501	.0024037	.0039925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**134.5532**	**.0011714**	**.0210292**	**.0752306**	**.0655497**	**76.82294**	**2.823095**
Stddev	.9322	.0000421	.0000349	.0009161	.0004052	.01983	.027074
%RSD	.6927915	3.596904	.1657235	1.217726	.6180851	.0258090	.9590283
#1	135.2123	.0012012	.0210539	.0745828	.0658361	76.83695	2.803951
#2	133.8940	.0011416	.0210046	.0758783	.0652632	76.80891	2.842240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0356270**	**9.126638**	**.9865527**	**.0043460**	**2.359679**	**.0429862**	**.4233182**
Stddev	.0003082	.076496	.0014536	.0004556	.029208	.0001805	.0134939
%RSD	.8650446	.8381583	.1473407	10.48420	1.237788	.4198729	3.187655
#1	.0354091	9.072548	.9875805	.0046682	2.339026	.0428586	.4328599
#2	.0358450	9.180729	.9855248	.0040238	2.380333	.0431138	.4137766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 136756-f-1-a SD@5 Acquired: 11/7/2017 19:19:09 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034547	.0010066	.4734478	.0058654	.1792385	.4285352	-.000113
Stddev	.0036849	.0012743	.0115947	.0005038	.0005050	.0017785	.000965
%RSD	106.6639	126.5881	2.448999	8.589730	.2817590	.4150102	852.6152
#1	.0060604	.0001056	.4816465	.0062217	.1795956	.4297928	-.000796
#2	.0008491	.0019077	.4652491	.0055092	.1788814	.4272777	.000569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.1093091	.2798258
Stddev	.0004815	.0058405
%RSD	.4404793	2.087182
#1	.1096495	.2839556
#2	.1089686	.2756960
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1960.695	1101.377	10523.88	8810.544
Stddev	9.566	8.356	56.91	8.059
%RSD	.4878916	.7586482	.5407949	.0914722
#1	1967.459	1107.285	10483.64	8804.845
#2	1953.931	1095.469	10564.12	8816.243

Sample Name: 500-136756-f-1-b du Acquired: 11/7/2017 19:23:06 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002667**	**194.8230**	**.1068810**	**.0274564**	**1.478917**	**.0097180**	**.0075377**
Stddev	.000070	1.0103	.0034851	.0010234	.005662	.0003366	.0022941
%RSD	2.618104	.5185892	3.260725	3.727392	.3828812	3.463970	30.43434
#1	-.002716	194.1086	.1044167	.0281800	1.474913	.0094799	.0059156
#2	-.002618	195.5375	.1093454	.0267327	1.482921	.0099560	.0091599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**363.8603**	**.0040472**	**.0849729**	**.3192809**	**.2415456**	**274.8563**	**10.47605**
Stddev	9.9174	.0001116	.0001730	.0020705	.0009844	1.0107	.02322
%RSD	2.725602	2.756510	.2036046	.6484726	.4075361	.3677038	.2216740
#1	356.8477	.0039683	.0848506	.3207449	.2408496	274.1416	10.49247
#2	370.8730	.0041261	.0850953	.3178169	.2422417	275.5709	10.45963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1637762**	**104.8732**	**3.151853**	**.0117111**	**8.921350**	**.1843811**	**1.555474**
Stddev	.0004415	.1510	.002526	.0004945	.019753	.0010855	.000788
%RSD	.2695823	.1439875	.0801476	4.222076	.2214107	.5887372	.0506845
#1	.1634640	104.7664	3.150067	.0113615	8.907383	.1836135	1.554917
#2	.1640884	104.9800	3.153639	.0120607	8.935317	.1851487	1.556031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-1-b du Acquired: 11/7/2017 19:23:06 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013463	.0081268	1.976766	.0324698	.6390549	1.353761	-.007738
Stddev	.0032981	.0022685	.002011	.0015192	.0007659	.001016	.003391
%RSD	244.9809	27.91425	.1017529	4.678685	.1198518	.0750734	43.82211
#1	.0036784	.0065227	1.978188	.0335440	.6385133	1.353042	-.005340
#2	-.000986	.0097310	1.975344	.0313956	.6395965	1.354479	-.010136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.3961966	1.202356
Stddev	.0012602	.001015
%RSD	.3180625	.0844063
#1	.3953055	1.203074
#2	.3970877	1.201639
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1657.850	1156.647	11477.95	9883.200
Stddev	.050	.983	.09	15.042
%RSD	.0030154	.0850205	.0008048	.1522021
#1	1657.885	1157.342	11478.01	9893.836
#2	1657.814	1155.951	11477.88	9872.563

Sample Name: 500-136756-f-1-c ms Acquired: 11/7/2017 19:27:10 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0360982	309.9241	.1896200	.5684176	3.081167	.0488270	.5222145
Stddev	.0000674	.7449	.0003715	.0049668	.002851	.0005112	.0026460
%RSD	.1866962	.2403612	.1958974	.8738011	.0925266	1.046922	.5066907
#1	.0360506	309.3973	.1893573	.5649055	3.083183	.0484655	.5203435
#2	.0361459	310.4508	.1898827	.5719297	3.079151	.0491885	.5240855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.00695	.0419809	.5725936	.5142611	.4688390	318.7968	27.04257
Stddev	1.28501	.0000187	.0007308	.0010990	.0008495	3.0718	.19096
%RSD	1.338458	.0446594	.1276340	.2137110	.1811999	.9635461	.7061323
#1	95.09831	.0419942	.5720768	.5150383	.4682383	316.6247	27.17760
#2	96.91559	.0419677	.5731104	.5134840	.4694397	320.9688	26.90755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6375027	44.61411	2.759919	.6629234	18.00308	.6874513	1.246257
Stddev	.0060469	.03722	.025999	.0038401	.17565	.0014372	.003134
%RSD	.9485293	.0834185	.9420155	.5792694	.9756828	.2090616	.2514938
#1	.6417785	44.58780	2.741535	.6602081	18.12729	.6864351	1.244041
#2	.6332269	44.64043	2.778303	.6656388	17.87888	.6884676	1.248473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-1-c ms Acquired: 11/7/2017 19:27:10 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0885964	.0722835	2.112322	.8810714	1.147741	3.078068	.0709656
Stddev	.0025473	.0029262	.009077	.0047473	.000420	.001493	.0051523
%RSD	2.875218	4.048270	.4297331	.5388144	.0366272	.0485152	7.260306
#1	.0867951	.0743527	2.105903	.8777145	1.147444	3.077012	.0746088
#2	.0903976	.0702143	2.118740	.8844282	1.148039	3.079124	.0673224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.9246034	1.584541
Stddev	.0035381	.006139
%RSD	.3826609	.3874338
#1	.9221016	1.588882
#2	.9271053	1.580200
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1752.531	1212.036	11714.97	10032.11
Stddev	12.458	13.307	80.53	38.94
%RSD	.7108792	1.097887	.6873784	.3881181
#1	1761.341	1221.446	11771.91	10004.57
#2	1743.722	1202.627	11658.03	10059.64

Sample Name: CCV Acquired: 11/7/2017 19:31:11 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4967656	51.49821	.5130323	.5051533	.4985572	.4921460
Stddev	.0004926	.50865	.0046817	.0002279	.0038785	.0037301
%RSD	.0991550	.9877013	.9125609	.0451209	.7779444	.7579258
#1	.4964173	51.13854	.5163428	.5053145	.4958147	.4895084
#2	.4971139	51.85788	.5097218	.5049922	.5012997	.4947836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5163314	24.60428	.4961219	.5081328	.4867586	.5058486
Stddev	.0002078	.06204	.0004543	.0000284	.0004626	.0017226
%RSD	.0402462	.2521398	.0915722	.0055868	.0950406	.3405300
#1	.5164783	24.56041	.4958006	.5081529	.4870858	.5070666
#2	.5161845	24.64814	.4964431	.5081128	.4864315	.5046305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.33673	50.15315	4.048915	24.76188	4.810176	.4795904
Stddev	.25467	.35416	.042561	.16773	.032183	.0010574
%RSD	1.005144	.7061505	1.051166	.6773759	.6690524	.2204747
#1	25.15665	49.90272	4.018820	24.64328	4.787420	.4788427
#2	25.51681	50.40358	4.079010	24.88049	4.832933	.4803381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 11/7/2017 19:31:11 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.66600	.5098312	.5033123	.5031237	.4952237	F .4363310
Stddev	.24500	.0008954	.0007192	.0046140	.0007006	.0039320
%RSD	.9545772	.1756281	.1429040	.9170776	.1414633	.9011562
#1	25.49275	.5091981	.5028037	.4998611	.4957191	.4335506
#2	25.83924	.5104644	.5038209	.5063863	.4947283	.4391113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.5000000
Range						-10.0000%

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5231226	.4968871	.5060366	.4572748	4.886027	.5221299
Stddev	.0017091	.0002507	.0006588	.0024472	.005496	.0027793
%RSD	.3267041	.0504543	.1301837	.5351674	.1124839	.5322984
#1	.5219141	.4967098	.5065025	.4590053	4.882140	.5201647
#2	.5243311	.4970643	.5055708	.4555444	4.889913	.5240952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1949.368	1061.948	10165.56	8540.283
Stddev	.668	1.335	.83	30.301
%RSD	.0342538	.1256889	.0082066	.3547969
#1	1948.896	1061.004	10166.15	8561.709
#2	1949.840	1062.891	10164.97	8518.857

Sample Name: CCB Acquired: 11/7/2017 19:35:20 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001777	.0218411	.0003389	.0007524	-.000069	.0000765	.0002590
Stddev	.0001543	.0067355	.0013982	.0001478	.000061	.0002299	.0020691
%RSD	86.85238	30.83862	412.5141	19.63764	88.25416	300.6575	798.9595
#1	.0002868	.0266038	.0013276	.0008569	-.000026	-.000086	.0017220
#2	.0000685	.0170784	-.000650	.0006479	-.000112	.000239	-.001204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001139	.0003202	.0000345	.0009147	.0023813	-.006431	.0154165
Stddev	.001112	.0000902	.0000300	.0004280	.0000173	.002675	.0024640
%RSD	97.68785	28.17508	87.07807	46.78967	.7254081	41.60419	15.98295
#1	-.000352	.0002564	.0000557	.0006121	.0023691	-.004539	.0171588
#2	-.001925	.0003840	.0000133	.0012173	.0023935	-.008322	.0136742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002868	-.000241	-.000049	.0009999	.0064750	.0010463	-.000631
Stddev	.0001172	.004450	.000182	.0000735	.0007194	.0001666	.000047
%RSD	40.84748	1843.893	373.7227	7.346834	11.11004	15.92092	7.375186
#1	.0002040	.002905	-.000177	.0010518	.0069837	.0009285	-.000663
#2	.0003697	-.003388	.000080	.0009479	.0059663	.0011641	-.000598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/7/2017 19:35:20 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046759	.0003992	-.020658	-.000200	.0000446	.0014411	.0022089
Stddev	.0030148	.0016141	.000043	.000900	.0000040	.0000711	.0000591
%RSD	64.47565	404.3755	.2072865	449.5264	9.010742	4.935414	2.675452
#1	.0068076	.0015405	-.020628	.000436	.0000475	.0014914	.0021672
#2	.0025441	-.000742	-.020688	-.000837	.0000418	.0013908	.0022507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0005010	-.000150
Stddev	.0002731	.000287
%RSD	54.51749	191.7810
#1	.0003078	-.000353
#2	.0006941	.000053
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2264.052	1116.496	10705.29	8708.558
Stddev	6.838	1.693	17.34	33.561
%RSD	.3020250	.1515939	.1619509	.3853763
#1	2268.888	1117.693	10693.03	8732.288
#2	2259.217	1115.299	10717.55	8684.827

Sample Name: 500-136756-f-1-d msd Acquired: 11/7/2017 19:39:22 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0395124	287.8571	.1964738	.5734352	3.221575	.0506933
Stddev	.0002300	1.7163	.0016315	.0050827	.057492	.0005542
%RSD	.5819840	.5962491	.8303626	.8863669	1.784583	1.093294
#1	.0396750	286.6435	.1953202	.5770292	3.180922	.0503014
#2	.0393498	289.0708	.1976274	.5698411	3.262227	.0510852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5420661	382.2922	.0461601	.5658613	.5084534	.5149544
Stddev	.0068843	5.8961	.0006349	.0025413	.0007938	.0002606
%RSD	1.270008	1.542307	1.375419	.4491109	.1561283	.0506013
#1	.5469340	378.1230	.0466090	.5676583	.5078920	.5151387
#2	.5371981	386.4614	.0457111	.5640643	.5090147	.5147702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	300.4590	27.04737	.6419831	48.02286	3.508296	.6785572
Stddev	.2814	.12282	.0053840	.12974	.008895	.0028050
%RSD	.0936711	.4540820	.8386587	.2701642	.2535495	.4133733
#1	300.6580	26.96053	.6381760	47.93112	3.514586	.6805406
#2	300.2600	27.13422	.6457902	48.11460	3.502006	.6765738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 500-136756-f-1-d msd Acquired: 11/7/2017 19:39:22 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.09132	.6841707	1.309896	.0976513	.0760246	2.033048
Stddev	.13716	.0005921	.005328	.0007670	.0068048	.012230
%RSD	.7581708	.0865407	.4067529	.7854880	8.950715	.6015639
#1	17.99433	.6845894	1.313664	.0971090	.0712129	2.041696
#2	18.18831	.6837521	1.306129	.0981937	.0808363	2.024400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9574715	F 2.220163	2.638500	.0756777	.8939536	1.644045
Stddev	.0051235	.008139	.003857	.0000861	.0029116	.006983
%RSD	.5351051	.3666079	.1461690	.1138137	.3256984	.4247532
#1	.9610944	2.214408	2.635772	.0756168	.8918948	1.648983
#2	.9538487	2.225918	2.641227	.0757386	.8960124	1.639107
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		2.000000				
Low Limit		-.005000				

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1671.608	1132.000	10885.93	9469.281
Stddev	2.053	2.164	25.43	2.856
%RSD	.1228270	.1911555	.2336277	.0301559
#1	1670.156	1130.470	10867.94	9467.262
#2	1673.060	1133.530	10903.91	9471.300

Sample Name: 500-136756-f-2-a Acquired: 11/7/2017 19:43:25 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001822**	**153.4479**	**.1146446**	**.0357602**	**1.469069**	**.0121898**	**.0063854**
Stddev	.000398	.9669	.0047005	.0001962	.007338	.0000055	.0016517
%RSD	21.85335	.6301117	4.100066	.5485316	.4994775	.0453847	25.86605
#1	-.001540	152.7642	.1179684	.0356215	1.463881	.0121859	.0052175
#2	-.002103	154.1316	.1113209	.0358989	1.474258	.0121937	.0075533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**283.0774**	**.0080036**	**.1533632**	**.3786279**	**.2608033**	**296.7283**	**9.598369**
Stddev	1.4227	.0001356	.0004175	.0014501	.0002811	1.5585	.022739
%RSD	.5025875	1.694609	.2722071	.3829963	.1077835	.5252379	.2369075
#1	282.0714	.0079077	.1530680	.3776025	.2610021	295.6263	9.582290
#2	284.0834	.0080996	.1536584	.3796533	.2606045	297.8304	9.614449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1819193**	**26.86468**	**6.364097**	**.0158814**	**12.40039**	**.2508792**	**5.225470**
Stddev	.0011956	.11248	.035872	.0001652	.07332	.0004114	.031258
%RSD	.6572100	.4186737	.5636659	1.040224	.5912916	.1639975	.5981840
#1	.1810739	26.78515	6.338732	.0159982	12.34854	.2505882	5.203367
#2	.1827648	26.94422	6.389463	.0157646	12.45224	.2511701	5.247572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-2-a Acquired: 11/7/2017 19:43:25 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031099	.0113154	2.049884	.0431339	.8308301	1.189860	-.004880
Stddev	.0007712	.0014708	.018802	.0009938	.0072290	.002441	.000470
%RSD	24.79725	12.99867	.9172439	2.304013	.8700991	.2051381	9.635403
#1	.0036552	.0102753	2.036589	.0438366	.8359418	1.191586	-.004547
#2	.0025646	.0123554	2.063179	.0424311	.8257184	1.188134	-.005212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.3552415	1.941777
Stddev	.0004271	.012154
%RSD	.1202364	.6259128
#1	.3549395	1.933183
#2	.3555435	1.950371
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1733.754	1194.566	11724.96	10006.85
Stddev	1.400	1.643	56.54	25.32
%RSD	.0807345	.1375616	.4822190	.2529789
#1	1734.743	1195.728	11684.98	10024.75
#2	1732.764	1193.404	11764.94	9988.95

Sample Name: 500-136756-f-3-a Acquired: 11/7/2017 19:47:24 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002497**	**174.4797**	**.1177426**	**.0404043**	**1.416379**	**.0083415**	**.0093239**
Stddev	.000661	1.9574	.0015871	.0005806	.011826	.0000060	.0035673
%RSD	26.49700	1.121872	1.347898	1.436951	.8349199	.0716967	38.25997
#1	-.002964	173.0956	.1188648	.0399937	1.408017	.0083373	.0068014
#2	-.002029	175.8639	.1166204	.0408148	1.424741	.0083458	.0118464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**41.35300**	**.0046346**	**.1241097**	**.2398864**	**.2574332**	**255.5208**	**12.95743**
Stddev	.09999	.0003972	.0009040	.0004292	.0002877	1.5846	.11440
%RSD	.2417877	8.570008	.7283482	.1789009	.1117739	.6201286	.8828867
#1	41.28229	.0049155	.1234705	.2401898	.2576366	254.4004	12.87653
#2	41.42370	.0043537	.1247489	.2395829	.2572297	256.6413	13.03832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1555819**	**24.76841**	**5.465622**	**.0127850**	**4.118866**	**.2142639**	**1.113180**
Stddev	.0017799	.20216	.023352	.0000455	.038273	.0012933	.007255
%RSD	1.144046	.8161980	.4272509	.3560066	.9292168	.6035806	.6517753
#1	.1543233	24.62547	5.449110	.0128172	4.091803	.2133495	1.108049
#2	.1568405	24.91136	5.482135	.0127528	4.145930	.2151784	1.118310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-3-a Acquired: 11/7/2017 19:47:24 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001012	.0095214	2.353780	.0410309	.3004479	1.906605	-.005239
Stddev	.001554	.0055135	.012541	.0024566	.0003556	.002228	.003480
%RSD	153.5406	57.90609	.5328192	5.987157	.1183436	.1168805	66.41916
#1	.000087	.0134201	2.344912	.0427680	.3001965	1.905029	-.002779
#2	-.002111	.0056228	2.362648	.0392939	.3006993	1.908181	-.007700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.3926884	1.258404
Stddev	.0004196	.005212
%RSD	.1068483	.4141866
#1	.3929851	1.254719
#2	.3923917	1.262090
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1874.664	1216.608	11857.30	9919.226
Stddev	9.820	7.034	18.67	14.456
%RSD	.5238054	.5781386	.1574446	.1457329
#1	1881.607	1221.582	11844.10	9929.447
#2	1867.720	1211.635	11870.50	9909.004

Sample Name: 500-136756-f-4-a Acquired: 11/7/2017 19:51:18 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001577**	**216.2092**	**.0994806**	**.0118076**	**.5836895**	**.0074148**	**.0084346**
Stddev	.000011	2.0573	.0017865	.0004233	.0038701	.0000124	.0000683
%RSD	.6857247	.9515137	1.795855	3.584845	.6630366	.1672312	.8103854
#1	-.001569	214.7545	.1007439	.0121069	.5809529	.0074236	.0083863
#2	-.001585	217.6639	.0982173	.0115083	.5864260	.0074061	.0084829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.24369**	**.0003923**	**.0567048**	**.2778434**	**.1746207**	**314.4612**	**9.437323**
Stddev	.11187	.0004214	.0005486	.0002402	.0002775	2.4232	.029508
%RSD	.7338557	107.3995	.9675065	.0864560	.1589194	.7705939	.3126761
#1	15.16459	.0000944	.0570927	.2776735	.1744245	312.7477	9.416457
#2	15.32280	.0006903	.0563169	.2780132	.1748169	316.1746	9.458188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1591123**	**21.41496**	**1.406751**	**.0099814**	**8.212351**	**.1223427**	**.2018641**
Stddev	.0009422	.05198	.010372	.0002432	.018341	.0008060	.0031278
%RSD	.5921704	.2427157	.7372840	2.436262	.2233393	.6587855	1.549442
#1	.1584461	21.37821	1.399417	.0098095	8.199381	.1229126	.2040758
#2	.1597786	21.45172	1.414085	.0101534	8.225320	.1217728	.1996525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-4-a Acquired: 11/7/2017 19:51:18 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001583	.0086889	2.477218	.0260456	.1438214	1.631059	-.006405
Stddev	.0019154	.0096078	.017448	.0037748	.0000154	.001806	.003412
%RSD	1210.351	110.5755	.7043554	14.49295	.0107083	.1107504	53.26796
#1	.0015126	.0018952	2.464880	.0233764	.1438105	1.632337	-.003993
#2	-.001196	.0154827	2.489556	.0287147	.1438323	1.629782	-.008818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.4845144	.4605224
Stddev	.0010455	.0019585
%RSD	.2157759	.4252756
#1	.4837751	.4619072
#2	.4852536	.4591375
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1912.855	1160.304	10977.47	9192.757
Stddev	8.563	6.648	27.67	26.736
%RSD	.4476387	.5729568	.2520491	.2908383
#1	1918.910	1165.005	10957.90	9173.852
#2	1906.801	1155.603	10997.03	9211.663

Sample Name: 500-136756-f-5-a Acquired: 11/7/2017 19:55:12 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002139	272.0163	.1216530	.0288919	2.205715	.0081344	.0093463
Stddev	.000171	2.0662	.0035877	.0000854	.014704	.0001098	.0001249
%RSD	7.993173	.7595859	2.949124	.2957222	.6666258	1.349494	1.336510
#1	-.002260	270.5553	.1191161	.0289523	2.195318	.0080568	.0092579
#2	-.002018	273.4774	.1241898	.0288315	2.216112	.0082120	.0094346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	36.60804	.0020890	.0983839	.2999270	.2986593	341.6158	13.30967
Stddev	.17135	.0000252	.0001179	.0014669	.0017802	2.4352	.00579
%RSD	.4680651	1.205011	.1198335	.4890882	.5960556	.7128343	.0434787
#1	36.48688	.0020712	.0984672	.3009643	.2974005	339.8939	13.30558
#2	36.72921	.0021068	.0983005	.2988897	.2999180	343.3377	13.31376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1438153	36.89147	3.878781	.0135871	28.64004	.2103431	.4952320
Stddev	.0010826	.28270	.025967	.0005634	.12353	.0025343	.0073425
%RSD	.7528016	.7662904	.6694745	4.146263	.4313179	1.204862	1.482648
#1	.1430497	36.69157	3.860419	.0131888	28.55269	.2085510	.5004240
#2	.1445808	37.09136	3.897143	.0139855	28.72739	.2121351	.4900401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-5-a Acquired: 11/7/2017 19:55:12 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001264	.0070962	1.413759	.0382264	.3126789	1.526644	-.001902
Stddev	.003770	.0013550	.008495	.0004324	.0010082	.013340	.001133
%RSD	298.2881	19.09469	.6008490	1.131266	.3224494	.8737919	59.53626
#1	-.003929	.0080543	1.407752	.0385322	.3119659	1.517212	-.001101
#2	.001402	.0061381	1.419765	.0379207	.3133918	1.536077	-.002703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.4058062	1.193817
Stddev	.0027089	.002770
%RSD	.6675269	.2320057
#1	.4038908	1.191858
#2	.4077217	1.195775
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1842.602	1199.782	11381.13	9646.344
Stddev	1.364	.561	32.13	4.582
%RSD	.0740274	.0467854	.2823499	.0475013
#1	1843.567	1200.179	11403.85	9649.584
#2	1841.638	1199.385	11358.40	9643.104

Sample Name: 500-136756-f-6-a Acquired: 11/7/2017 19:59:06 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000971**	**168.9653**	**.1805312**	**.0796941**	**1.643145**	**.0113451**	**.0095484**
Stddev	.000303	.7670	.0012983	.0007765	.005947	.0001101	.0016941
%RSD	31.15821	.4539278	.7191799	.9743773	.3619006	.9707014	17.74241
#1	-.001185	168.4230	.1814493	.0791450	1.638940	.0112672	.0083504
#2	-.000757	169.5077	.1796132	.0802432	1.647350	.0114229	.0107463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**481.2152**	**.0148944**	**.1352990**	**.3164120**	**.4598055**	**321.1022**	**14.55591**
Stddev	6.2109	.0001197	.0013581	.0037401	.0007600	3.0876	.04197
%RSD	1.290677	.8035016	1.003742	1.182019	.1652859	.9615630	.2883494
#1	476.8234	.0149791	.1343387	.3137674	.4603429	318.9190	14.58559
#2	485.6070	.0148098	.1362593	.3190566	.4592681	323.2855	14.52623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1746298**	**50.45260**	**7.426523**	**.0225712**	**22.90183**	**.2563515**	**4.528978**
Stddev	.0011431	.25780	.046533	.0005258	.04446	.0022040	.012988
%RSD	.6545532	.5109827	.6265787	2.329433	.1941116	.8597523	.2867719
#1	.1754381	50.27031	7.393620	.0221994	22.93326	.2547931	4.519794
#2	.1738216	50.63490	7.459427	.0229429	22.87040	.2579100	4.538162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-6-a Acquired: 11/7/2017 19:59:06 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010527	.0185767	1.639645	.0447732	.9648050	1.500783	-.009324
Stddev	.0011914	.0033477	.011853	.0026449	.0047025	.002570	.004574
%RSD	113.1777	18.02083	.7229043	5.907333	.4874023	.1712499	49.05561
#1	.0018951	.0162095	1.631264	.0429030	.9614798	1.498966	-.006090
#2	.0002102	.0209438	1.648027	.0466434	.9681301	1.502601	-.012558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.3754908	3.160911
Stddev	.0019511	.000170
%RSD	.5196217	.0053679
#1	.3741111	3.160791
#2	.3768704	3.161031
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1631.726	1088.534	10884.79	9298.947
Stddev	12.217	10.006	21.56	22.043
%RSD	.7487077	.9192273	.1980474	.2370462
#1	1640.364	1095.609	10869.55	9283.360
#2	1623.087	1081.459	10900.04	9314.534

Sample Name: 500-136756-f-7-a Acquired: 11/7/2017 20:03:10 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007977**	**123.9891**	**.1448799**	**.0091985**	**5.341137**	**.0133738**
Stddev	.0000067	.0129	.0001025	.0003581	.009721	.0000751
%RSD	.8345859	.0103742	.0707156	3.893326	.1820025	.5618313
#1	.0007930	123.9800	.1448074	.0089452	5.334263	.0134270
#2	.0008024	123.9982	.1449523	.0094517	5.348011	.0133207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0122614**	**37.73436**	**.0099296**	**.4846876**	**.2045333**	**.2122766**
Stddev	.0027682	.43480	.0000941	.0008104	.0014044	.0012773
%RSD	22.57629	1.152261	.9479347	.1672084	.6866103	.6017359
#1	.0103040	38.04181	.0099962	.4852607	.2035403	.2131798
#2	.0142188	37.42691	.0098630	.4841146	.2055263	.2113734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**348.6319**	**7.902119**	**.1157981**	**15.23970**	F **49.84131**	**.0106888**
Stddev	1.9080	.010183	.0003211	.03280	.43530	.0003144
%RSD	.5472818	.1288617	.2772479	.2152574	.8733803	2.941322
#1	349.9810	7.909319	.1155711	15.26289	50.14911	.0109111
#2	347.2827	7.894919	.1160251	15.21650	49.53350	.0104665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					20.00000	
Low Limit					-.010000	

Sample Name: 500-136756-f-7-a Acquired: 11/7/2017 20:03:10 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.793608	.3759862	.8505307	-.002619	.0211973	1.544417
Stddev	.015856	.0012632	.0009987	.000246	.0013889	.002219
%RSD	.5675728	.3359694	.1174152	9.376443	6.552265	.1436881
#1	2.782396	.3768795	.8512368	-.002793	.0202152	1.542848
#2	2.804819	.3750930	.8498245	-.002446	.0221794	1.545986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0295085	.1997550	1.050771	.0191734	.3330928	1.084737
Stddev	.0005956	.0001950	.003032	.0015173	.0024888	.002813
%RSD	2.018507	.0975969	.2885034	7.913775	.7471786	.2593646
#1	.0290873	.1998929	1.052915	.0181004	.3313329	1.086726
#2	.0299296	.1996172	1.048628	.0202463	.3348526	1.082748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1930.585	1287.797	12366.69	10204.82
Stddev	7.206	6.899	53.03	22.96
%RSD	.3732439	.5356983	.4288464	.2250125
#1	1935.680	1292.675	12329.19	10188.58
#2	1925.490	1282.919	12404.19	10221.06

Sample Name: 500-136756-f-8-a Acquired: 11/7/2017 20:07:16 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003093**	**293.8714**	**.1297098**	**.0183808**	**.8427683**	**.0087684**	**.0099295**
Stddev	.000232	3.0217	.0040259	.0001022	.0077613	.0002704	.0016196
%RSD	7.508752	1.028232	3.103806	.5561780	.9209290	3.083898	16.31117
#1	-.002929	291.7347	.1325566	.0184531	.8372802	.0085772	.0110748
#2	-.003258	296.0080	.1268631	.0183085	.8482564	.0089596	.0087843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.770313**	**.0003933**	**.0767816**	**.3033603**	**.2261218**	**327.3630**	**19.23490**
Stddev	.018462	.0002527	.0009417	.0001379	.0004889	1.8228	.11740
%RSD	.2105033	64.24949	1.226452	.0454566	.2162281	.5568115	.6103618
#1	8.757259	.0005720	.0761157	.3032628	.2257761	326.0741	19.15188
#2	8.783368	.0002146	.0774474	.3034578	.2264675	328.6519	19.31791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1453012**	**39.28870**	**2.303916**	**.0135274**	**2.189650**	**.2000792**	**.2333703**
Stddev	.0014630	.35533	.011832	.0002970	.013791	.0013462	.0016861
%RSD	1.006880	.9044183	.5135533	2.195930	.6298249	.6728285	.7225046
#1	.1442667	39.03744	2.295550	.0137374	2.179898	.1991274	.2321781
#2	.1463357	39.53996	2.312282	.0133173	2.199402	.2010311	.2345626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-8-a Acquired: 11/7/2017 20:07:16 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000220	.0104242	1.494539	.0318368	.1977611	2.170444	-.006183
Stddev	.001526	.0064544	.011093	.0032587	.0000888	.003133	.001557
%RSD	693.6880	61.91781	.7422544	10.23560	.0448822	.1443368	25.18207
#1	-.001299	.0058602	1.486695	.0295325	.1978238	2.168228	-.005082
#2	.000859	.0149881	1.502383	.0341410	.1976983	2.172659	-.007284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5057553	.8767415
Stddev	.0023422	.0066669
%RSD	.4631118	.7604182
#1	.5074115	.8720273
#2	.5040991	.8814557
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1883.832	1300.347	12212.90	10192.12
Stddev	4.210	1.487	3.81	33.21
%RSD	.2234768	.1143437	.0312276	.3258339
#1	1886.808	1299.296	12210.21	10215.61
#2	1880.855	1301.398	12215.60	10168.64

Sample Name: 500-136756-f-9-a Acquired: 11/7/2017 20:11:10 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003447**	**330.9290**	**.1550885**	**.0125758**	**.9398298**	**.0095298**	**.0088567**
Stddev	.000021	2.5761	.0062045	.0012837	.0054585	.0002033	.0000942
%RSD	.6049329	.7784450	4.000616	10.20780	.5807922	2.132954	1.064095
#1	-.003432	329.1074	.1507012	.0134835	.9359701	.0093861	.0089234
#2	-.003462	332.7505	.1594757	.0116681	.9436896	.0096736	.0087901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.06330**	**.0002534**	**.0911937**	**.3311016**	**.2495005**	**407.0791**	**13.30369**
Stddev	.02652	.0003018	.0001813	.0009021	.0001245	2.5122	.03940
%RSD	.2198217	119.0964	.1988191	.2724382	.0499196	.6171214	.2961813
#1	12.04454	.0004668	.0910655	.3317394	.2494125	405.3027	13.27583
#2	12.08204	.0000400	.0913219	.3304637	.2495886	408.8554	13.33155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1500186**	**39.25756**	**2.195105**	**.0156922**	**3.027907**	**.2112552**	**.2422396**
Stddev	.0009890	.18971	.005664	.0004174	.011762	.0008406	.0007385
%RSD	.6592615	.4832566	.2580286	2.659858	.3884462	.3978993	.3048806
#1	.1493193	39.12341	2.191100	.0159874	3.019590	.2118496	.2427618
#2	.1507180	39.39171	2.199110	.0153971	3.036224	.2106608	.2417174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-9-a Acquired: 11/7/2017 20:11:10 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000580	.0169253	1.566134	.0336812	.2017153	1.555543	-.008936
Stddev	.000691	.0057219	.016105	.0040394	.0002689	.008043	.003793
%RSD	119.0697	33.80696	1.028307	11.99294	.1332908	.5170686	42.45016
#1	-.000092	.0209713	1.577522	.0308249	.2015251	1.549856	-.011618
#2	-.001069	.0128793	1.554746	.0365374	.2019054	1.561230	-.006254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5622491	.9661654
Stddev	.0001524	.0088529
%RSD	.0271072	.9162879
#1	.5623568	.9599055
#2	.5621413	.9724254
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1855.883	1284.593	12281.60	10248.00
Stddev	6.863	10.080	24.35	6.24
%RSD	.3697969	.7847041	.1982671	.0609066
#1	1851.030	1277.465	12264.38	10252.41
#2	1860.736	1291.721	12298.81	10243.59

Sample Name: 500-136756-f-10-a Acquired: 11/7/2017 20:15:04 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.003921**	**223.2525**	**.1168984**	**.0189812**	**2.035537**	**.0083408**	**.0123313**
Stddev	.000377	1.7159	.0054824	.0000048	.011626	.0000543	.0016328
%RSD	9.614148	.7685969	4.689892	.0254090	.5711350	.6514230	13.24130
#1	-.003655	222.0392	.1130218	.0189846	2.027317	.0083024	.0111767
#2	-.004188	224.4659	.1207751	.0189778	2.043758	.0083793	.0134859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.748034**	**.0011997**	**.1054015**	**.2720795**	**.2380306**	**308.2467**	**11.89540**
Stddev	.000663	.0001572	.0001372	.0004609	.0005190	1.3972	.04800
%RSD	.0098189	13.10086	.1301292	.1694026	.2180592	.4532656	.4035438
#1	6.747565	.0013108	.1054985	.2717536	.2376636	307.2587	11.86146
#2	6.748502	.0010885	.1053045	.2724054	.2383977	309.2346	11.92935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1309520**	**34.82758**	**2.376095**	**.0128968**	**1.663148**	**.2553890**	**.2057088**
Stddev	.0008535	.21844	.008667	.0005394	.004555	.0004627	.0026321
%RSD	.6517880	.6272182	.3647600	4.182327	.2738742	.1811606	1.279507
#1	.1303485	34.67312	2.369966	.0125154	1.659927	.2557161	.2075699
#2	.1315555	34.98205	2.382223	.0132782	1.666369	.2550618	.2038476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-10-a Acquired: 11/7/2017 20:15:04 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000410	.0100835	1.839387	.0274341	.1640998	2.160106	-.006469
Stddev	.003243	.0081610	.006189	.0037159	.0002336	.010625	.001557
%RSD	790.6444	80.93415	.3364590	13.54477	.1423681	.4918696	24.07349
#1	-.002704	.0158542	1.835011	.0248066	.1639346	2.152593	-.005368
#2	.001883	.0043128	1.843763	.0300616	.1642650	2.167619	-.007570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.4917665	1.232401
Stddev	.0009840	.005691
%RSD	.2000994	.4617784
#1	.4910707	1.228377
#2	.4924623	1.236426
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1920.374	1275.255	12091.55	10086.89
Stddev	1.014	.932	17.87	23.10
%RSD	.0528072	.0730809	.1478155	.2290541
#1	1919.657	1274.596	12078.91	10070.55
#2	1921.092	1275.914	12104.18	10103.22

Sample Name: CCV Acquired: 11/7/2017 20:18:58 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5007402**	**51.09787**	**.5041968**	**.5000364**	**.4959923**	**.4927830**
Stddev	.0034992	.54548	.0026874	.0007620	.0022893	.0039004
%RSD	.6988008	1.067512	.5329981	.1523967	.4615665	.7915011
#1	.4982659	50.71216	.5022966	.4994976	.4943735	.4900250
#2	.5032145	51.48358	.5060971	.5005753	.4976111	.4955410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Bi2230	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5125671**	**24.82608**	**.4973724**	**.5105933**	**.4887662**	**.5060501**
Stddev	.0005929	.21416	.0003644	.0028947	.0012559	.0037653
%RSD	.1156823	.8626605	.0732738	.5669306	.2569521	.7440638
#1	.5121478	24.67464	.4971147	.5085464	.4878781	.5033876
#2	.5129864	24.97752	.4976301	.5126402	.4896543	.5087126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576	Mo2020
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.53137**	**49.83541**	**3.989209**	**24.55397**	**4.827127**	**.4783650**
Stddev	.19981	.10748	.016012	.06356	.045177	.0006013
%RSD	.7826220	.2156614	.4013907	.2588548	.9358935	.1257001
#1	25.39008	49.75941	3.977887	24.50903	4.795182	.4779398
#2	25.67265	49.91141	4.000532	24.59891	4.859072	.4787902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 11/7/2017 20:18:58 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.41499**	**.5103556**	**.5048561**	**.4963540**	**.4963393**	F **.4303263**
Stddev	.08265	.0035188	.0048608	.0046935	.0018312	.0012401
%RSD	.3251884	.6894750	.9628115	.9455857	.3689335	.2881867
#1	25.35655	.5078675	.5014190	.4930352	.4950444	.4312032
#2	25.47343	.5128438	.5082933	.4996728	.4976341	.4294494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						.5000000
Range						-10.0000%

Elem	Sn1899	Sr4215	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5263778**	**.4987342**	**.5085154**	**.4552763**	**4.903660**	**.5270821**
Stddev	.0053006	.0027753	.0055146	.0014664	.003850	.0055932
%RSD	1.006998	.5564627	1.084451	.3220861	.0785165	1.061155
#1	.5226297	.4967718	.5046160	.4542394	4.900938	.5231271
#2	.5301259	.5006966	.5124148	.4563132	4.906383	.5310370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1978.889**	**1084.105**	**10183.70**	**8561.007**
Stddev	3.417	5.363	59.99	.819
%RSD	.1726836	.4946537	.5890493	.0095641
#1	1976.473	1080.313	10226.12	8560.428
#2	1981.306	1087.897	10141.29	8561.586

Sample Name: CCB Acquired: 11/7/2017 20:23:08 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000194**	**.0208287**	**-.000460**	**.0004600**	**.0000033**	**-.000130**	**.0002155**
Stddev	.000215	.0025616	.000030	.0003513	.0000367	.000010	.0004570
%RSD	110.7375	12.29817	6.562211	76.37356	1119.924	7.929828	212.1172
#1	-.000347	.0190174	-.000439	.0002116	.0000292	-.000122	.0005386
#2	-.000042	.0226400	-.000481	.0007085	-.000023	-.000137	-.000108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002760**	**.0002645**	**-.000001**	**.0007905**	**.0019216**	**.0181209**	**.0239591**
Stddev	.000149	.0000183	.000241	.0001276	.0000046	.0141226	.0005470
%RSD	5.381254	6.914799	18341.04	16.14058	.2403641	77.93552	2.283081
#1	-.002655	.0002515	.000169	.0008808	.0019248	.0081347	.0235723
#2	-.002865	.0002774	-.000172	.0007003	.0019183	.0281072	.0243459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003319**	**.0047702**	**.0000319**	**.0007661**	**.0040283**	**.0003386**	**.0001712**
Stddev	.0000696	.0128948	.0002168	.0001708	.0001087	.0002801	.0013320
%RSD	20.95941	270.3209	679.7736	22.29939	2.698492	82.72417	777.8401
#1	.0002827	-.004348	.0001852	.0008869	.0039514	.0001405	.0011131
#2	.0003811	.013888	-.000121	.0006453	.0041052	.0005367	-.000771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: CCB Acquired: 11/7/2017 20:23:08 Type: QC
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041456	-.002634	-.023280	-.000583	.0000321	.0012449	.0006883
Stddev	.0019547	.001125	.001698	.000416	.0000085	.0000172	.0010913
%RSD	47.15105	42.70453	7.292444	71.32181	26.55116	1.381717	158.5444
#1	.0055278	-.003429	-.024481	-.000878	.0000261	.0012327	-.000083
#2	.0027635	-.001838	-.022080	-.000289	.0000381	.0012570	.001460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.0004353	-.000387
Stddev	.0000204	.000283
%RSD	4.683334	72.99181
#1	.0004209	-.000587
#2	.0004498	-.000187
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2310.533	1150.592	10833.87	8755.490
Stddev	7.270	4.559	73.44	10.617
%RSD	.3146488	.3962436	.6778503	.1212653
#1	2315.674	1153.815	10885.80	8747.982
#2	2305.393	1147.368	10781.94	8762.997

Sample Name: 500-136756-f-11-a Acquired: 11/7/2017 20:27:11 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002036**	**221.1624**	**.1624969**	**.0170345**	**1.691956**	**.0076616**	**.0163728**
Stddev	.000255	.9652	.0000699	.0011209	.003461	.0003965	.0003827
%RSD	12.53824	.4364043	.0429833	6.580047	.2045484	5.175374	2.337484
#1	-.001855	220.4800	.1625463	.0178271	1.689509	.0073812	.0161022
#2	-.002216	221.8449	.1624475	.0162420	1.694403	.0079420	.0166435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.989442**	**.0006459**	**.1304288**	**.2614560**	**.1773561**	**303.2131**	**11.86965**
Stddev	.017837	.0002397	.0011352	.0013787	.0003025	1.9423	.06444
%RSD	.1984258	37.11015	.8703521	.5273179	.1705462	.6405619	.5428631
#1	8.976829	.0008154	.1296261	.2604811	.1775700	301.8397	11.91521
#2	9.002055	.0004764	.1312315	.2624309	.1771422	304.5865	11.82408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1721198**	**31.60089**	**13.13031**	**.0156793**	**2.576856**	**.1620418**	**.3787066**
Stddev	.0006288	.01996	.06064	.0002810	.009858	.0018738	.0054603
%RSD	.3653529	.0631743	.4618427	1.792405	.3825697	1.156379	1.441825
#1	.1725644	31.58677	13.08743	.0154806	2.583826	.1633667	.3748456
#2	.1716751	31.61501	13.17319	.0158780	2.569885	.1607168	.3825676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-11-a Acquired: 11/7/2017 20:27:11 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033190	.0205669	3.113088	.0279594	.1398339	2.253452	-.001586
Stddev	.0026076	.0046755	.000883	.0010336	.0001541	.000508	.001460
%RSD	78.56654	22.73294	.0283648	3.696941	.1102330	.0225214	92.05574
#1	.0051628	.0172608	3.113712	.0272285	.1397249	2.253811	-.000554
#2	.0014751	.0238729	3.112464	.0286903	.1399429	2.253093	-.002618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.5549659	.6729379
Stddev	.0019712	.0063253
%RSD	.3551878	.9399551
#1	.5535721	.6684653
#2	.5563597	.6774106
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1897.542	1180.701	11273.43	9436.983
Stddev	1.732	.983	6.55	15.430
%RSD	.0912664	.0832884	.0581323	.1635071
#1	1896.317	1180.006	11268.80	9426.072
#2	1898.766	1181.397	11278.06	9447.893

Sample Name: 500-136756-f-12-a Acquired: 11/7/2017 20:31:06 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be2348	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002711**	**187.9036**	**.1241556**	**.0056573**	**.8956551**	**.0059425**	**.0102263**
Stddev	.000229	1.0799	.0040160	.0002451	.0025517	.0001105	.0013203
%RSD	8.462827	.5747276	3.234622	4.332993	.2848959	1.858583	12.91102
#1	-.002874	187.1399	.1213159	.0058306	.8938508	.0058644	.0111599
#2	-.002549	188.6672	.1269953	.0054839	.8974595	.0060206	.0092927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**8.308949**	**.0005215**	**.0569750**	**.2143703**	**.1377381**	**236.9309**	**7.521094**
Stddev	.071101	.0000222	.0001111	.0017747	.0011494	2.2094	.008294
%RSD	.8557199	4.251876	.1949864	.8278693	.8344553	.9324967	.1102830
#1	8.258672	.0005372	.0570535	.2156252	.1369254	235.3686	7.515229
#2	8.359225	.0005058	.0568964	.2131154	.1385508	238.4931	7.526959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1052162**	**19.99726**	**2.385371**	**.0079229**	**2.054445**	**.1202772**	**.2303949**
Stddev	.0000264	.13655	.015095	.0008338	.000814	.0012666	.0012000
%RSD	.0250878	.6828198	.6328359	10.52410	.0396040	1.053036	.5208614
#1	.1052349	19.90070	2.374697	.0073333	2.053870	.1193816	.2295463
#2	.1051976	20.09381	2.396045	.0085125	2.055021	.1211728	.2312434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Sample Name: 500-136756-f-12-a Acquired: 11/7/2017 20:31:06 Type: Unk
Method: P8110717AA Mode: CONC Corr. Factor: 1.000000
User: JonesP Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001179	.0041823	1.974039	.0233271	.1361283	1.662634	-.003717
Stddev	.0028812	.0046661	.042631	.0017857	.0003178	.001191	.001833
%RSD	2443.728	111.5683	2.159581	7.655120	.2334217	.0716105	49.29959
#1	.0021552	.0008829	1.943895	.0220644	.1359036	1.661793	-.002421
#2	-.001919	.0074817	2.004184	.0245898	.1363530	1.663476	-.005013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	.4395937	.5292035
Stddev	.0017298	.0021758
%RSD	.3935045	.4111535
#1	.4408169	.5276649
#2	.4383706	.5307420
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1967.772	1218.549	11483.77	9571.356
Stddev	3.692	2.477	37.28	10.820
%RSD	.1876318	.2032482	.3246733	.1130414
#1	1970.383	1220.300	11510.13	9563.705
#2	1965.161	1216.798	11457.40	9579.006

Metals Worksheet

Batch Number: 500-408771
Method: 245.1
Analyst: Noon, Erin E

Date Open: Nov 07 2017 6:44AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
blank						
0.2ppb						
0.5ppb						
1.0ppb						
3.0ppb						
5.0ppb						
ICV~500-408771/7		7470A		25 mL	0.00005 mL	
ICB~500-408771/8		7470A				
CRA~500-408771/9		7470A		25 mL		0.000005 mL
MB~500-408621/12-A		7470A				
LCS~500-408621/13-A		7470A				
500-136764-D-1-E		7470A	T			
500-136788-D-1-A		7470A	T			
500-136625-F-1-B		7470A	T			
500-136786-F-4-B		7470A	T			
500-136644-D-1-B		7470A	D			
500-136702-T-1-B		7470A	T			
500-136702-T-2-E		7470A	T			
CCV~500-408771/19		7470A		25 mL	0.000025 mL	
CCB~500-408771/20		7470A				
500-136702-T-2-F~DU		7470A	T			
500-136702-T-2-G~MS		7470A	T			
500-136702-T-2-H~MSD		7470A	T			
500-136702-T-3-B		7470A	T			
500-136424-H-15-A		7470A	D			

Metals Worksheet

Batch Number: 500-408771
Method: 245.1
Analyst: Noon, Erin E

Date Open: Nov 07 2017 6:44AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
500-136424-H-16-A		7470A	D			
500-136424-H-17-A		7470A	D			
500-136424-H-18-A		7470A	D			
500-136424-H-19-A		7470A	D			
500-136424-H-23-A		7470A	D			
CCV~500-408771/31		7470A		25 mL	0.000025 mL	
CCB~500-408771/32		7470A				
500-136424-H-24-A		7470A	D			
500-136424-H-25-A		7470A	D			
500-136424-H-26-A		7470A	D			
500-136686-J-3-B		7470A	T			
500-136762-H-4-B		7470A	T			
500-136006-D-3-C						
MB~500-408622/12-A		7470A				
LCS~500-408622/13-A		7470A				
500-136584-L-2-B		7470A	T			
500-136584-L-3-B		7470A	T			
CCV~500-408771/43		7470A		25 mL	0.000025 mL	
CCB~500-408771/44		7470A				
500-136584-L-8-B		7470A	T			
500-136584-L-8-C~DU		7470A	T			
500-136584-L-8-D~MS		7470A	T			
500-136584-L-8-E~MSD		7470A	T			
500-136714-C-1-B		7470A	D			
500-136714-C-2-B		7470A	D			

Page 49 of 757

11/14/2017

Metals Worksheet

Batch Number: 500-408771
Method: 245.1
Analyst: Noon, Erin E

Date Open: Nov 07 2017 6:44AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
500-136714-C-3-B		7470A	D			
500-136714-C-4-B		7470A	D			
500-136729-L-2-B		7470A	T			
500-136729-L-3-B		7470A	T			
CCV~500-408771/55		7470A		25 mL	0.000025 mL	
CCB~500-408771/56		7470A				
500-136765-M-1-B		7470A	T			
500-136765-M-2-B		7470A	T			
LB~500-408392/1-F		7470A				
500-136615-E-1-M		7470A	P			
500-136615-E-2-G		7470A	P			
500-136648-B-1-E		7470A	P			
500-136648-B-2-E		7470A	P			
500-136709-G-2-I		7470A	P			
500-136709-G-3-I		7470A	P			
MB~500-408623/12-A		7470A				
CCV~500-408771/67		7470A		25 mL	0.000025 mL	
CCB~500-408771/68		7470A				
LCS~500-408623/13-A		7470A				
LB~500-408393/1-C		7470A				
500-136607-E-1-J		7470A	P			
500-136607-E-2-G		7470A	P			
500-136607-E-3-G		7470A	P			
500-136607-E-4-G		7470A	P			
500-136607-E-5-G		7470A	P			

Metals Worksheet

Batch Number: 500-408771
Method: 245.1
Analyst: Noon, Erin E

Date Open: Nov 07 2017 6:44AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
500-136607-E-6-G		7470A	P			
500-136607-E-7-G		7470A	P			
500-136607-E-8-G		7470A	P			
CCV~500-408771/79		7470A		25 mL	0.000025 mL	
CCB~500-408771/80		7470A				
500-136670-E-1-G		7470A	P			
500-136670-E-2-G		7470A	P			
500-136670-E-3-H		7470A	P			
500-136670-E-4-G		7470A	P			
500-136670-E-5-G		7470A	P			
500-136670-E-6-G		7470A	P			
500-136670-E-7-G		7470A	P			
500-136670-E-9-G		7470A	P			
500-136670-E-10-G		7470A	P			
500-136670-E-11-K		7470A	P			
CCV~500-408771/91		7470A		25 mL	0.000025 mL	
CCB~500-408771/92		7470A				
500-136670-E-11-L~DU		7470A	P			
500-136670-E-11-M~MS		7470A	P			
MB~500-408635/12-A		7470A				
LCS~500-408635/13-A		7470A				
LB~500-408395/1-C		7470A				
500-136651-F-1-J		7470A	P			
500-136651-F-1-K~DU		7470A	P			
500-136651-F-1-L~MS		7470A	P			

Metals Worksheet

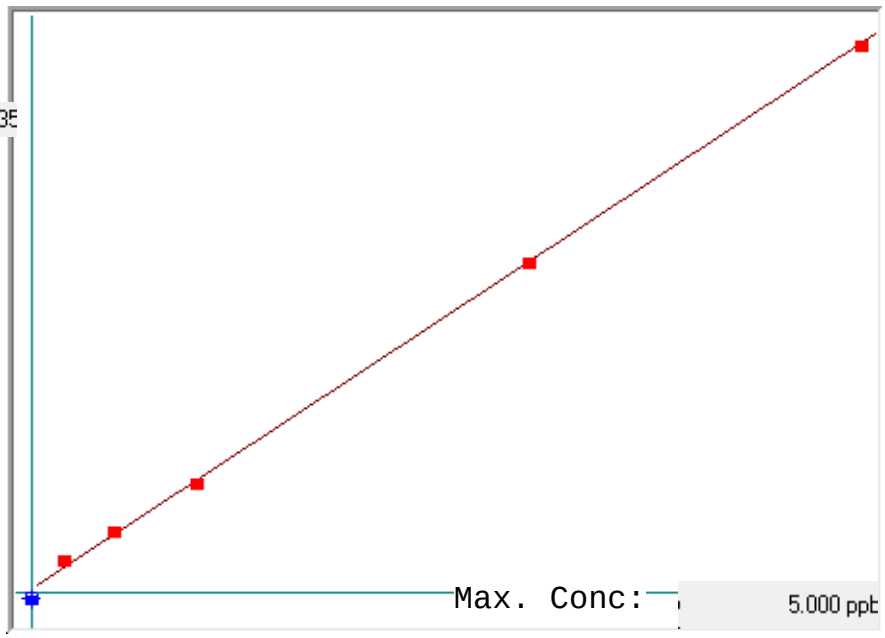
Batch Number: 500-408771
Method: 245.1
Analyst: Noon, Erin E

Date Open: Nov 07 2017 6:44AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Final weight/volume of sample	M15HSTKHG_00001	M17BSTKHG_00001
500-136651-F-2-G		7470A	P			
500-136651-F-3-G		7470A	P			
CCV~500-408771/103		7470A		25 mL	0.000025 mL	
CCB~500-408771/104		7470A				
500-136651-F-4-G		7470A	P			
500-136651-F-5-G		7470A	P			
500-136651-F-6-G		7470A	P			
500-136651-F-7-G		7470A	P			
500-136651-F-8-G		7470A	P			
500-136651-F-9-J		7470A	P			
500-136651-F-10-G		7470A	P			
500-136651-F-11-G		7470A	P			
500-136651-F-12-G		7470A	P			
500-136651-F-13-G		7470A	P			
CCV~500-408771/115		7470A		25 mL	0.000025 mL	
CCB~500-408771/116		7470A				
500-136651-F-14-G		7470A	P			
500-136651-F-15-G		7470A	P			
500-136651-F-16-G		7470A	P			
500-136651-F-17-K		7470A	P			
CCV~500-408771/121		7470A		25 mL	0.000025 mL	
CCB~500-408771/122		7470A				

Hg

Linear



A= 0.0000e+000

B= 1.8370e-004

C= -2.9108e-002

Rho= 0.9995809

Accept= Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	-0.091	-0.091	-336	0.000	-336				
0.2ppb	0.200	0.278	0.078	1672	0.0 %	1672				
0.5ppb	0.500	0.539	0.039	3095	0.0 %	3095				
1.0ppb	1.000	0.978	-0.022	5484	0.0 %	5484				
3.0ppb	3.000	3.003	0.003	16503	0.0 %	16503				
5.0ppb	5.000	4.992	-0.008	27335	0.0 %	27335				

110717R

Method: Hg Operator: Admin Date of Analysis: 07 Nov 2017 06:44:41

Type	Sample ID	Conc.	µ Abs.	Units	Date	Integration Time	Seq ID
S	blank - 1	-	-336	ppb	07 Nov 2017 06:44:42	44.0000	3330
S	0.2ppb - 1	-	1672	ppb	07 Nov 2017 06:46:11	44.0000	3331
S	0.5ppb - 1	-	3095	ppb	07 Nov 2017 06:47:40	44.0000	3332
S	1.0ppb - 1	-	5484	ppb	07 Nov 2017 06:49:10	44.0000	3333
S	3.0ppb - 1	-	16503	ppb	07 Nov 2017 06:50:39	44.0000	3334
S	5.0ppb - 1	-	27335	ppb	07 Nov 2017 06:52:11	44.0000	3335
U	ICV - 1	1.9262	10644	ppb	07 Nov 2017 06:56:00	44.0000	3336
U	ICB - 1	-0.0161	71	ppb	07 Nov 2017 06:57:25	44.0000	3337
U	CRA - 1	0.2049	1274	ppb	07 Nov 2017 06:59:04	44.0000	3338
U	mb 500-408621/12-a - 1	-0.0855	-307	ppb	07 Nov 2017 07:03:53	44.0000	3339
U	lcs 500-408621/13-a - 1	2.0523	11330	ppb	07 Nov 2017 07:05:18	44.0000	3340
U	500-136764-d-1-e - 1	-0.0513	-121	ppb	07 Nov 2017 07:06:46	44.0000	3341
U	500-136788-d-1-a - 1	0.0289	316	ppb	07 Nov 2017 07:08:25	44.0000	3342
U	500-136625-f-1-b - 1	-0.0016	150	ppb	07 Nov 2017 07:09:52	44.0000	3343
U	500-136786-f-4-b - 1	0.1382	911	ppb	07 Nov 2017 07:11:18	44.0000	3344
U	500-136644-d-1-b - 1	0.0093	209	ppb	07 Nov 2017 07:12:46	44.0000	3345
U	500-136702-t-1-b - 1	0.0694	536	ppb	07 Nov 2017 07:14:15	44.0000	3346
U	500-136702-t-2-e - 1	0.0328	337	ppb	07 Nov 2017 07:15:42	44.0000	3347
U	CCV - 1	1.0902	6093	ppb	07 Nov 2017 07:17:09	44.0000	3348
U	CCB - 1	-0.0370	-43	ppb	07 Nov 2017 07:18:35	44.0000	3349
U	500-136702-t-2-f du - 1	-0.0082	114	ppb	07 Nov 2017 07:20:07	44.0000	3350
U	500-136702-t-2-g ms - 1	1.0386	5812	ppb	07 Nov 2017 07:21:34	44.0000	3351
U	500-136702-t-2-h msd - 1	1.0130	5673	ppb	07 Nov 2017 07:23:00	44.0000	3352
U	500-136702-t-3-b - 1	-0.0106	101	ppb	07 Nov 2017 07:24:29	44.0000	3353
U	500-136424-h-15-a - 1	0.0119	223	ppb	07 Nov 2017 07:26:03	44.0000	3354
U	500-136424-h-16-a - 1	-0.0572	-153	ppb	07 Nov 2017 07:27:29	44.0000	3355
U	500-136424-h-17-a - 1	-0.0291	0	ppb	07 Nov 2017 07:28:56	44.0000	3356
U	500-136424-h-18-a - 1	-0.0241	27	ppb	07 Nov 2017 07:30:22	44.0000	3357
U	500-136424-h-19-a - 1	0.0102	214	ppb	07 Nov 2017 07:31:48	44.0000	3358
U	500-136424-h-23-a - 1	-0.0177	62	ppb	07 Nov 2017 07:33:15	44.0000	3359
U	CCV - 1	1.1431	6381	ppb	07 Nov 2017 07:34:42	44.0000	3360
U	CCB - 1	-0.0236	30	ppb	07 Nov 2017 07:36:09	44.0000	3361
U	500-136424-h-24-a - 1	0.0025	172	ppb	07 Nov 2017 07:37:43	44.0000	3362
U	500-136424-h-25-a - 1	-0.0162	70	ppb	07 Nov 2017 07:39:09	44.0000	3363
U	500-136424-h-26-a - 1	0.0051	186	ppb	07 Nov 2017 07:40:36	44.0000	3364
U	500-136686-j-3-b - 1	0.0014	166	ppb	07 Nov 2017 07:42:02	44.0000	3365
U	500-136762-h-4-b - 1	-0.0061	125	ppb	07 Nov 2017 07:43:28	44.0000	3366
U	500-136006-d-3-c - 1	0.0613	492	ppb	07 Nov 2017 07:44:56	44.0000	3367
U	mb 500-408622/12-a - 1	0.0034	177	ppb	07 Nov 2017 07:46:21	44.0000	3368
U	lcs 500-408622/13-a - 1	2.0170	11138	ppb	07 Nov 2017 07:47:48	44.0000	3369
U	500-136584-l-2-b - 1	-0.0820	-288	ppb	07 Nov 2017 07:49:14	44.0000	3370
U	500-136584-l-3-b - 1	-0.0017	149	ppb	07 Nov 2017 07:50:53	44.0000	3371
U	CCV - 1	1.0975	6133	ppb	07 Nov 2017 07:52:20	44.0000	3372
U	CCB - 1	-0.0293	-1	ppb	07 Nov 2017 07:53:46	44.0000	3373
U	500-136584-l-8-b - 1	-0.0166	68	ppb	07 Nov 2017 07:55:20	44.0000	3374
U	500-136584-l-8-c du - 1	-0.0107	100	ppb	07 Nov 2017 07:56:46	44.0000	3375
U	500-136584-l-8-d ms - 1	1.0241	5733	ppb	07 Nov 2017 07:58:12	44.0000	3376
U	500-136584-l-8-e msd - 1	0.9133	5130	ppb	07 Nov 2017 07:59:38	44.0000	3377
U	500-136714-c-1-b - 1	-0.0344	-29	ppb	07 Nov 2017 08:01:08	44.0000	3378
U	500-136714-c-2-b - 1	-0.0725	-236	ppb	07 Nov 2017 08:02:40	44.0000	3379
U	500-136714-c-3-b - 1	0.0089	207	ppb	07 Nov 2017 08:04:06	44.0000	3380
U	500-136714-c-4-b - 1	0.0363	356	ppb	07 Nov 2017 08:05:32	44.0000	3381
U	500-136729-l-2-b - 1	0.0209	272	ppb	07 Nov 2017 08:06:59	44.0000	3382
U	500-136729-l-3-b - 1	0.0196	265	ppb	07 Nov 2017 08:08:26	44.0000	3383
U	CCV - 1	1.0241	5733	ppb	07 Nov 2017 08:09:53	44.0000	3384
U	CCB - 1	-0.0335	-24	ppb	07 Nov 2017 08:11:19	44.0000	3385
U	500-136765-m-1-b - 1	-0.0482	-104	ppb	07 Nov 2017 08:12:51	44.0000	3386
U	500-136765-m-2-b - 1	0.0293	318	ppb	07 Nov 2017 08:14:17	44.0000	3387
U	lb 500-408392/1-f - 1	-0.0208	45	ppb	07 Nov 2017 08:15:44	44.0000	3388
U	500-136615-e-1-m - 1	0.0014	166	ppb	07 Nov 2017 08:17:10	44.0000	3389
U	500-136615-e-2-g - 1	-0.0049	132	ppb	07 Nov 2017 08:18:36	44.0000	3390
U	500-136648-b-1-e - 1	-0.0115	96	ppb	07 Nov 2017 08:20:02	44.0000	3391
U	500-136648-b-2-e - 1	0.0176	254	ppb	07 Nov 2017 08:21:28	44.0000	3392
U	500-136709-g-2-i - 1	0.0036	178	ppb	07 Nov 2017 08:22:55	44.0000	3393
U	500-136709-g-3-i - 1	0.0405	379	ppb	07 Nov 2017 08:24:21	44.0000	3394
U	mb 500-408623/12-a - 1	-0.0111	98	ppb	07 Nov 2017 08:25:47	44.0000	3395
U	CCV - 1	1.0707	5987	ppb	07 Nov 2017 08:31:03	44.0000	3396
U	CCB - 1	-0.0537	-134	ppb	07 Nov 2017 08:32:28	44.0000	3397
U	lcs 500-408623/13-a - 1	1.8182	10056	ppb	07 Nov 2017 08:34:05	44.0000	3398
U	lb 500-408393/1-c - 1	-0.0734	-241	ppb	07 Nov 2017 08:35:31	44.0000	3399
U	500-136607-e-1-j - 1	-0.0071	120	ppb	07 Nov 2017 08:37:09	44.0000	3400
U	500-136607-e-2-g - 1	0.0528	446	ppb	07 Nov 2017 08:38:35	44.0000	3401
U	500-136607-e-3-g - 1	0.0098	212	ppb	07 Nov 2017 08:40:01	44.0000	3402
U	500-136607-e-4-g - 1	-0.0214	42	ppb	07 Nov 2017 08:41:27	44.0000	3403
U	500-136607-e-5-g - 1	0.0357	353	ppb	07 Nov 2017 08:42:53	44.0000	3404
U	500-136607-e-6-g - 1	0.0256	298	ppb	07 Nov 2017 08:44:20	44.0000	3405

110717R

Method: Hg Operator: Admin Date of Analysis: 07 Nov 2017 06:44:41

Type	Sample ID	Conc.	µ Abs.	Units	Date	Integration Time	Seq ID
U	500-136607-e-7-g - 1	0.0207	271	ppb	07 Nov 2017 08:45:46	44.0000	3406
U	500-136607-e-8-g - 1	0.0078	201	ppb	07 Nov 2017 08:47:13	44.0000	3407
U	CCV - 1	1.0647	5954	ppb	07 Nov 2017 08:48:40	44.0000	3408
U	CCB - 1	-0.0071	120	ppb	07 Nov 2017 08:50:06	44.0000	3409
U	500-136670-e-1-g - 1	0.0137	233	ppb	07 Nov 2017 08:51:39	44.0000	3410
U	500-136670-e-2-g - 1	0.0198	266	ppb	07 Nov 2017 08:53:05	44.0000	3411
U	500-136670-e-3-h - 1	0.0082	203	ppb	07 Nov 2017 08:54:31	44.0000	3412
U	500-136670-e-4-g - 1	-0.0080	115	ppb	07 Nov 2017 08:55:57	44.0000	3413
U	500-136670-e-5-g - 1	0.0051	186	ppb	07 Nov 2017 08:57:23	44.0000	3414
U	500-136670-e-6-g - 1	0.0135	232	ppb	07 Nov 2017 08:58:49	44.0000	3415
U	500-136670-e-7-g - 1	-0.0115	96	ppb	07 Nov 2017 09:00:15	44.0000	3416
U	500-136670-e-9-g - 1	-0.0001	158	ppb	07 Nov 2017 09:01:41	44.0000	3417
U	500-136670-e-10-g - 1	0.0328	337	ppb	07 Nov 2017 09:03:07	44.0000	3418
U	500-136670-e-11-k - 1	0.0326	336	ppb	07 Nov 2017 09:04:35	44.0000	3419
U	CCV - 1	1.1244	6279	ppb	07 Nov 2017 09:06:02	44.0000	3420
U	CCB - 1	-0.0506	-117	ppb	07 Nov 2017 09:07:28	44.0000	3421
U	500-136670-e-11-l du - 1	0.0317	331	ppb	07 Nov 2017 09:09:07	44.0000	3422
U	500-136670-e-11-m ms - 1	1.0614	5936	ppb	07 Nov 2017 09:10:34	44.0000	3423
U	mb 500-408635/12-a - 1	-0.0339	-26	ppb	07 Nov 2017 09:11:59	44.0000	3424
U	lcs 500-408635/13-a - 1	2.2865	12605	ppb	07 Nov 2017 09:13:33	44.0000	3425
U	lb 500-408395/1-c - 1	-0.0028	143	ppb	07 Nov 2017 09:14:59	44.0000	3426
U	500-136651-f-1-j - 1	-0.0001	158	ppb	07 Nov 2017 09:16:40	44.0000	3427
U	500-136651-f-1-k du - 1	0.0464	411	ppb	07 Nov 2017 09:18:08	44.0000	3428
U	500-136651-f-1-l ms - 1	1.0851	6065	ppb	07 Nov 2017 09:19:35	44.0000	3429
U	500-136651-f-2-g - 1	-0.0170	66	ppb	07 Nov 2017 09:21:01	44.0000	3430
U	500-136651-f-3-g - 1	0.0495	428	ppb	07 Nov 2017 09:22:35	44.0000	3431
U	CCV - 1	1.0981	6136	ppb	07 Nov 2017 09:24:02	44.0000	3432
U	CCB - 1	-0.0352	-33	ppb	07 Nov 2017 09:25:29	44.0000	3433
U	500-136651-f-4-g - 1	0.0137	233	ppb	07 Nov 2017 09:27:06	44.0000	3434
U	500-136651-f-5-g - 1	0.0815	602	ppb	07 Nov 2017 09:28:32	44.0000	3435
U	500-136651-f-6-g - 1	0.0633	503	ppb	07 Nov 2017 09:29:59	44.0000	3436
U	500-136651-f-7-g - 1	0.0534	449	ppb	07 Nov 2017 09:31:25	44.0000	3437
U	500-136651-f-8-g - 1	0.0258	299	ppb	07 Nov 2017 09:32:51	44.0000	3438
U	500-136651-f-9-j - 1	0.0352	350	ppb	07 Nov 2017 09:34:18	44.0000	3439
U	500-136651-f-10-g - 1	0.0115	221	ppb	07 Nov 2017 09:35:44	44.0000	3440
U	500-136651-f-11-g - 1	0.0315	330	ppb	07 Nov 2017 09:37:11	44.0000	3441
U	500-136651-f-12-g - 1	0.0201	268	ppb	07 Nov 2017 09:38:37	44.0000	3442
U	500-136651-f-13-g - 1	0.0319	332	ppb	07 Nov 2017 09:40:05	44.0000	3443
U	CCV - 1	1.1429	6380	ppb	07 Nov 2017 09:41:32	44.0000	3444
U	CCB - 1	-0.0466	-95	ppb	07 Nov 2017 09:42:59	44.0000	3445
U	500-136651-f-14-g - 1	0.0833	612	ppb	07 Nov 2017 09:44:32	44.0000	3446
U	500-136651-f-15-g - 1	0.0104	215	ppb	07 Nov 2017 09:45:58	44.0000	3447
U	500-136651-f-16-g - 1	0.0137	233	ppb	07 Nov 2017 09:47:25	44.0000	3448
U	500-136651-f-17-k - 1	0.0504	433	ppb	07 Nov 2017 09:48:51	44.0000	3449
U	CCV - 1	1.0753	6012	ppb	07 Nov 2017 09:58:52	44.0000	3450
U	CCB - 1	-0.0370	-43	ppb	07 Nov 2017 10:00:18	44.0000	3451

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

500-136788

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	Analyte: SVOCs	VOCs	PCBs	RCRA 8 Metals			Activity Code:
	Chicago River Mystery spill								

SAMPLERS: *(Print Name and Sign)*
Anna Nguyen

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION								TAG NUMBERS
1	11/3/17	1535		X	CRMS-SW-04-110317	6	X	X	X	X			7 Day TAT

500-136788 COC

3.8

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Ship To: 1 S. Wacker Dr. STE 3700 Chicago IL, 60606
	11/3/17 17:56		
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	ATTN: Matt Vilicana
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Airbill Number
		11/3/17 1756	Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

~~11/14/2017~~
5-63681

Login Sample Receipt Checklist

Client: Tetra Tech EM Inc.

Job Number: 500-136788-1

Login Number: 136788
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

November 08, 2017

Tetra Tech EM Inc.
1 South Wacker Drive
Chicago, IL 60606

Telephone: (312) 201-7700
Fax: (312) 938-0118

Analytical Report for STAT Work Order: 17100975 Revision 0

RE: 103X902600045051710010, Bubbly Creek, Chicago, IL

Dear Matt Villicana:

STAT Analysis received 2 samples for the referenced project on 10/31/2017 4:17:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Justice Kwateng
Project Manager

STAT Analysis Corporation

Date: November 08, 2017

Client: Tetra Tech EM Inc.
Project: 103X902600045051710010, Bubbly Creek, Chicago, I
Work Order: 17100975 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
17100975-001A	CRMS-SW-02-103117		10/31/2017 8:05:00 AM	10/31/2017
17100975-002A	CRMS-SW-03-103117		10/31/2017 8:25:00 AM	10/31/2017

CLIENT: Tetra Tech EM Inc.
Project: 103X902600045051710010, Bubbly Creek, Chicago, IL
Work Order: 17100975 Revision 0

CASE NARRATIVE

Total Organic Halogens analysis was subcontracted to Precision Petroleum Labs, Inc., Houston, TX.

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: November 08, 2017
Date Printed: November 08, 2017

ANALYTICAL RESULTS

Client: Tetra Tech EM Inc.
Project: 103X902600045051710010, Bubbly Creek, Chicago, IL **Work Order:** 17100975 Revision 0

Lab ID: 17100975-001 **Collection Date:** 10/31/2017 8:05:00 AM
Client Sample ID CRMS-SW-02-103117 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TOX	**SW9020B**			Prep Date:		Analyst: **SUB**
TOX	ND	1.0	*	mg/L	1	11/6/2017

Lab ID: 17100975-002 **Collection Date:** 10/31/2017 8:25:00 AM
Client Sample ID CRMS-SW-03-103117 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TOX	**SW9020B**			Prep Date:		Analyst: **SUB**
TOX	ND	1.0	*	mg/L	1	11/6/2017

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation

2242 W. Harrison Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Nº: 908881 **Page : ____ of ____**

Company: TETRA TECH
Project Number: 63X90326.0004.50517.0010 Client Tracking No.:
Project Name: BUBBLY CREEK
Project Location: CHICAGO, IL
Sampler(s): MATT VILLICANA
Report To: MATT VILLICANA Phone: 708 502 1513
Fax:
QC Level: 1 ____ 2 ____ 3 ____ 4 ____ e-mail: MATT.VILLICANA@TETRATECH.COM

Quote No.:
P.O. No.:
Turn Around Time (Days): 1 2 3 4 (5 - 7) 10
Results Needed: / / am/pm

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers		Additional Information:	Lab No.:
CRMS-SW-02-103117	10/31/17	0805	W	X		D	1	X		001
CRMS-SW-03-103117	10/31/17	0825	W	X		D	1	X		002

Relinquished by: (Signature) Date/Time: 10/31/17/1617
Received by: (Signature) Date/Time: 10/31/17 1617
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time:
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time:

Comments:

Preservation Code: A = None B = HNO_3 C = NaOH D = H_2SO_4 E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: 17100975

Received on Ice: Yes [X] No [ ]
Temperature: 4.1 °C

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

November 10, 2017

Tetra Tech EM Inc.
1 South Wacker Drive
Chicago, IL 60606

Telephone: (312) 201-7700
Fax: (312) 938-0118

Analytical Report for STAT Work Order: 17110129 Revision 0

RE: Chicago River Mystery Spill

Dear Matt Villicana:

STAT Analysis received 1 sample for the referenced project on 11/3/2017 4:47:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Craig Chawla
Project Manager

Client: Tetra Tech EM Inc.
Project: Chicago River Mystery Spill
Work Order: 17110129 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
17110129-001A	CRMS-SW-04-110317		11/3/2017 3:35:00 PM	11/3/2017

CLIENT: Tetra Tech EM Inc.
Project: Chicago River Mystery Spill
Work Order: 17110129 Revision 0

CASE NARRATIVE

TOX analysis was subcontracted to Precision Petroleum Labs, Inc., Houston, TX.

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: November 10, 2017
Date Printed: November 10, 2017

ANALYTICAL RESULTS

Client: Tetra Tech EM Inc.
Work Order: 17110129 Revision 0
Project: Chicago River Mystery Spill
Lab ID: 17110129-001

Client Sample ID: CRMS-SW-04-110317
Collection Date: 11/3/2017 3:35:00 PM
Matrix: Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TOX	**SW9020B**			Prep Date:		Analyst: **SUB**
TOX	ND	1.0	*	mg/L	1	11/9/2017

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

17110129

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	Analyte: TOX	Activity Code:
	Chicago River Mystery Spill			

SAMPLERS: *(Print Name and Sign)*
Anna Nguyen

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte: TOX	TAG NUMBERS
	11/3/17	1535		X	CRMS-SW-04-110317	1	X	7 day TAT

Relinquished by: *(Signature)* — Date / Time 11/3/17 1647 — Received by: *(Signature)* 11/3/17 16:47

Relinquished by: *(Signature)* — Date / Time — Received by: *(Signature)*

Relinquished by: *(Signature)* — Date / Time — Received for Laboratory by: *(Signature)* — Date / Time

Ship To: 1 S. Wacker Dr. STE 3700
Chicago IL, 60606

ATTN: Matt Vilicana

Airbill Number

Chain of Custody Seal Numbers

Distribution: White - Accompanies Shipment; Pink - Coordinator Field Files; Yellow - Laboratory File

STAT Analysis Corporation

Sample Receipt Checklist

Client Name TETRA CHICAGO | Date and Time Received: 11/3/2017 4:47:00 PM

Work Order Number 17110129 | Received by: JNW

Checklist completed by: Signature 11/3/17 Date | Reviewed by: MK Initials 11/3/17 Date

Matrix: | Carrier name | Client Delivered

Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shippping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels/containers?	Yes	☑	No	☐		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Container or Temp Blank temperature in compliance?	Yes	☑	No	☐	Temperature	On Ice °C
Water - VOA vials have zero headspace?	No VOA vials submitted	☒	Yes	☒	No	☒
Water - Samples pH checked?	Yes	☑	No	☐	Checked by:	J.W.
Water - Samples properly preserved?	Yes	☐	No	☑	pH Adjusted?	Yes 11/3/17 18:15

Any No response must be detailed in the comments section below.

Comments: Sample was received unpreserved. 2ml of H_2SO_4 was added for TOX analysis.

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

Oil Sample Analysis Report

U. S. EPA Region V (Chicago Office)
Case Number E18506

Marine Safety Laboratory
Case Number 18-021

U.S. Department of
Homeland Security

**United States
Coast Guard**

Manager
U.S. Coast Guard
Marine Safety Laboratory

1 Chelsea Street
New London, CT 06320
Phone: (860) 271-2704
Fax: (860) 271-2641

16450
01 Nov 2017

U. S. Environmental Protection Agency
Attn: On-Scene Coordinator
Region V
77West Jackson Blvd.
Chicago, IL 60604-

Dear On-Scene Coordinator:

The laboratory analysis of this case has been completed and our report is forwarded. The technical data supporting the report (spectrograms and chromatograms) have been archived at our facility and are available upon request. We will maintain the oil samples in refrigerated storage pending final case disposition.

Questions concerning this report or the analytical methods used should be directed to the Supervisor of Analysis.

K. JUAIRE

Encl: (1) MSL Report 18-021

United States Coast Guard
Marine Safety Laboratory
Oil Sample Analysis Report
18-021

Requestor: U. S. EPA Region V (Chicago Office)
Unit Case/Activity Number: E18506
Received: 30-Oct-17 **Via:** Federal Express 8079 7062 3689

Number Of Samples: 1
Lab ID for Spills: 1
Lab ID for Sources: n/a
Lab ID for Background: n/a

Analysis Methods:

- [x] GAS CHROMATOGRAPHY (GC)
- [x] GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS)
- [ ] INFRARED SPECTROSCOPY (IR)

Laboratory's Conclusion (as explained below): ID ONLY

RESULTS:

1. Sample 18-021-1 was specified to be representative of spilled oil. Analysis indicates this sample contains petroleum oil with characteristics most resembling those of slightly weathered low-sulfur diesel fuel mixed with lubricating oil.

CONCLUSIONS:

1. Sample 18-021-1 contains light fuel oil mixed with lubricating oil.

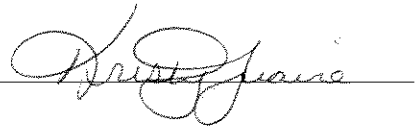
SUPERVISOR OF ANALYSIS K. JUAIRE **DATE** 01-Nov-17

United States Coast Guard
Marine Safety Laboratory

Oil Spill Identification Analysis
Cost Recovery Documentation

Laboratory Case Number:	18-021
Requestor:	U. S. EPA Region V (Chicago Office)
Unit Case Number:	E18506
Number of Samples:	3
Cost Per Sample Prepared:	$20.00
Total Costs of Sample Preparation:	$60.00
Number of Analyses:	8
Cost Per Sample Analyzed:	$86.00
Total Costs for Analysis:	$688.00
TOTAL COSTS:	$748.00

This documentation is provided for purposes of Phase IV - Documentation and Cost Recovery under the National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR Part 300)

Signature:  **Date:** 01 Nov 2017

United States Coast Guard
Marine Safety Laboratory Sample
Check-In Log

MSL Case/Activity Number: 18-021

Requestor: U. S. EPA Region V (Chicago Office) **Unit Case Number:** E18506

Federal Project Number: E18506 **Delivery Method:** Federal Express

Received Date: 30 Oct 17 **Delivery Number:** 8079 7062 3689

Priority: No **Rush:** Yes **Comparison:** No

Lab ID 18-021	Sample Descriptions from Sample Jars	Spill	Source
1	CRMS-SW-01-102617 COLLECTED ON OCTOBER 26, 2017 AT 11:48 (SAMPLE COLLECTED A WATER'S SURFACE AT PARK #571 PIER) 10/26/17 11:48	☑	☐
2		☐	☐
3		☐	☐
4		☐	☐
5		☐	☐
6		☐	☐
7		☐	☐
8		☐	☐
9		☐	☐
10		☐	☐

Remarks: ID only.

Samples checked in by: MST3 CRYSTINA SCOTT Crystina Scott **Date:** 30 Oct 17

Sample Custodian: MST2 CHELSEA WARREN **Date:** 31OCT17

Supervisor of Analysis: K. JUAIRE Kristy Juaire **Date:** 01NOV17

Oil Sample Analysis Report

US EPA Region 5
Case Number E18506

Marine Safety Laboratory
Case Number 18-025

U.S. Department of
Homeland Security

**United States
Coast Guard**

Manager
U.S. Coast Guard
Marine Safety Laboratory

1 Chelsea Street
New London, CT 06320
Phone: (860) 271-2704
Fax: (860) 271-2641

16450
14 Nov 2017

Attn: On-Scene Coordinator
77 West Jackson Blvd
Chicago, IL 60604

Dear On-Scene Coordinator:

The laboratory analysis of this case has been completed and our report is forwarded. The technical data supporting the report (spectrograms and chromatograms) have been archived at our facility and are available upon request. We will maintain the oil samples in refrigerated storage pending final case disposition.

Questions concerning this report or the analytical methods used should be directed to the Supervisor of Analysis.

K. JUAIRE

Encl: (1) MSL Report 18-025

United States Coast Guard
Marine Safety Laboratory
Oil Sample Analysis Report
18-025

Requestor: US EPA Region 5
Unit Case/Activity Number: E18506
Received: 09-Nov-17 **Via:** Federal Express 8106 0630 5019

Number Of Samples: 1
Lab ID for Spills: 1
Lab ID for Sources: n/a
Lab ID for Background: n/a

Analysis Methods:

- [x] GAS CHROMATOGRAPHY (GC)
- [x] GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS)
- [ ] INFRARED SPECTROSCOPY (IR)

Laboratory's Conclusion (as explained below): OTHER

SPECIAL INSTRUCTIONS: Compare to MSL Case 18-021. Sample 18-021-1 was reanalyzed for comparison purposes.

RESULTS:

1. Sample 18-025-1 was specified to be representative of spilled oil. Analysis indicates this sample contains petroleum oil with characteristics resembling those of slightly to moderately weathered light fuel oil mixed with lubricating oil. Non-petroleum contamination is present.

2. Sample 18-021-1 contains light fuel oil mixed with lubricating oil with characteristics similar to those of spill sample 18-025-1. Differences are attributable to weathering and non-petroleum contamination.

CONCLUSIONS:

1. Samples 18-021-1 and 18-025-1 represent different portions of the same spilled oil.

SUPERVISOR OF ANALYSIS K. JUAIRE **DATE** 14-Nov-17

United States Coast Guard
Marine Safety Laboratory

Oil Spill Identification Analysis
Cost Recovery Documentation

Laboratory Case Number:	18-025
Requestor:	US EPA Region 5
Unit Case Number:	E18506
Number of Samples:	3
Cost Per Sample Prepared:	$20.00
Total Costs of Sample Preparation:	$60.00
Number of Analyses:	10
Cost Per Sample Analyzed:	$86.00
Total Costs for Analysis:	$860.00
TOTAL COSTS:	$920.00

This documentation is provided for purposes of Phase IV - Documentation and Cost Recovery under the National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR Part 300)

Signature:  **Date:** 14 Nov 2017

United States Coast Guard
Marine Safety Laboratory Sample
Check-In Log

MSL Case/Activity Number: 18-025

Requestor: US EPA Region 5 **Unit Case Number:** E18506

Federal Project Number: E18506 **Delivery Method:** Federal Express

Received Date: 09 Nov 17 **Delivery Number:** 8106 0630 5019

Priority: No **Rush:** No **Comparison:** Yes

Lab ID 18-025	Sample Descriptions from Sample Jars	Spill	Source
1	CRMS-SW-04-110317 COLLECTED FROM AN OFF-SHOOT OF THE CHICAGO RIVER BETWEEN ASHLAND AVE. + S. LAFLIN ST. 11/03/17 1535	☑	☐
2		☐	☐
3		☐	☐
4		☐	☐
5		☐	☐
6		☐	☐
7		☐	☐
8		☐	☐
9		☐	☐
10		☐	☐

Remarks: Compare to 18-021.

Samples checked in by: MST3 CRYSTINA SCOTT Crystina Scott **Date:** 09 Nov 17

Sample Custodian: MST2 CHELSEA WARREN **Date:** 13NOV17

Supervisor of Analysis: K. JUAIRE Kristy Juaire **Date:** 14NOV17

United States Coast Guard
Marine Safety Laboratory Sample
Check-In Log

MSL Case/Activity Number: 18-021

Requestor: U. S. EPA Region V (Chicago Office) **Unit Case Number:** E18506

Federal Project Number: E18506 **Delivery Method:** Federal Express

Received Date: 30 Oct 17 **Delivery Number:** 8079 7062 3689

Priority: No **Rush:** Yes **Comparison:** No

Lab ID 18-021	Sample Descriptions from Sample Jars	Spill	Source
1	CRMS-SW-01-102617 COLLECTED ON OCTOBER 26, 2017 AT 11:48 (SAMPLE COLLECTED A WATER'S SURFACE AT PARK #571 PIER) 10/26/17 11:48	☑	☐
2		☐	☐
3		☐	☐
4		☐	☐
5		☐	☐
6		☐	☐
7		☐	☐
8		☐	☐
9		☐	☐
10		☐	☐

Remarks: ID only.

Samples checked in by: MST3 CRYSTINA SCOTT Crystina Scott **Date:** 30 Oct 17

Sample Custodian: MST2 CHELSEA WARREN **Date:** 31OCT17

Supervisor of Analysis: K. JUAIRE Kristy Juaire **Date:** 01NOV17