

Sediment Monitoring Summary Report 2014 Remedial Dredging Season

Environmental Monitoring, Sampling, and Analysis New Bedford Harbor Superfund Site New Bedford, Massachusetts

Contract No. W912WJ-12-D-0004

DRAFT FINAL

Prepared for
U.S. Army Corps of Engineers
New England District
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June 2015

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New England District

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Acronyms and Abbreviations

DMU	dredge management unit
EPA	United States Environmental Protection Agency
FSP	field sampling plan
GC/ECD	gas chromatography/electron capture detection
GC/MS SIM	gas chromatography/mass spectroscopy in selected ion monitoring mode
GPS	global positioning system
IA	immunoassay
ID	identification
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LOC	level of chlorination
MPC	measurement performance criteria
MS	matrix spike
MSD	matrix spike duplicate
ng/g	nanograms per gram (equivalent to micrograms per kilogram [$\mu\text{g}/\text{kg}$])
NGVD	National Geodetic Vertical datum of 1929
NOAA	National Oceanic and Atmospheric Administration
PCB	polychlorinated biphenyl
ppm	parts per million (equivalent to milligrams per kilogram [mg/kg])
OL	surficial soft or very soft, dark gray or black organic silt layer
QAPP	Quality Assurance Project Plan
QA	quality assurance
QC	quality control
RIS	recovery internal standard
RPD	relative percent difference
RTK	Real Time Kinematic
SIS	surrogate internal standard
TCL	target cleanup level
USACE NAE	U.S. Army Corps of Engineers, New England District
USCS	United Soil Classification System

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Executive Summary

Sediment monitoring was performed at the New Bedford Harbor Superfund Site in 2014 in support of remedial dredging operations. Sediment cores were collected to assess sediment conditions before, during and after dredging operations. Jacobs Engineering collected pre-dredge cores and bathymetric data to better estimate the thickness of the organic silt (OL) layer and elevation at the native-OL interface. This information was used by Jacobs Engineering to update the estimated depth of dredging (i.e., z^*) and determine target dredge elevations for the 2014 dredge areas. Battelle collected progress- and post-dredge cores at locations identified by the United States Army Corps of Engineers New England District (USACE NAE). Progress-dredge cores were collected to estimate the thickness of the OL layer and elevation of the visual transition (native-OL interface). USACE NAE and Jacobs Engineering used this information together with bathymetric data to determine if the target dredge elevations were met and if additional dredge passes were needed to achieve the target dredge elevations or remove remaining OL material. The post-dredge cores were collected to assess the final sediment condition after dredging was complete for the season. Post-dredge cores were examined to estimate the thickness of the OL layer remaining after dredging and elevation of the visual transition (native-OL interface). Sediment was also sub-sampled to characterize polychlorinated biphenyl (PCB) contamination in the post-dredge sediment surface. The sediment monitoring data were provided to the USACE NAE, the United States Environmental Protection Agency Region 1 (EPA), and Jacobs Engineering to assess dredging performance and assist with future planning efforts.

Two sediment sampling events were performed in 2014, including collection of progress- and post-dredge cores at Areas R and O, respectively, in July 2014 and collection of post-dredge cores at Areas O, L, P, R and S in November 2014, after dredging was complete for the season (note: pre-dredge cores were collected by Jacobs Engineering). Visual characterization of the Area R progress-dredge cores indicated that the thickness of the OL layer ranged from 0.0 to 2.1 feet; these data were used to help guide dredge operations in Area R for the remainder of the season. Visual characterization of the post-dredge cores collected at Areas O, L, P, R and S indicated that OL was present at approximately 90% of the locations, and, where present, the thickness of the OL layer ranged from 0.1 to 1.5 feet. PCB characterization of surface sediment (0.0 to 0.5 foot interval) indicated that total PCB concentrations were above the target cleanup level (TCL) (10 parts per million [ppm]) in all but one of the locations where 0.1 foot or more of OL was observed in the post-dredge sediment surface. Total PCB concentrations were generally below or near the TCL (10 ppm) at locations where OL was not visually observed on the post-dredge sediment surface.

The PCB immunoassay (IA) method was introduced during the 2014 dredge season as a low cost, rapid screening method for estimating total PCB concentrations in sediment, and was used in combination with the PCB congener method to characterize a larger number of samples. Approximately 20% of the IA samples were also analyzed for 139 congeners to calculate total PCB, characterize PCB composition, and assess the relationship between the two methods. The subset of samples that were analyzed for total PCB by both the IA and PCB congener methods had, on average, IA-based concentrations that were approximately 53% higher than the PCB congener-based concentrations, and were about twice as high as would be expected based on the PCB composition. The Aroclor types and their approximate composition in these samples were estimated by determining the relative proportions of the levels of chlorination (LOC) of the quantified PCB congeners in the samples, and comparing those to the composition in Aroclors and mixtures of Aroclors. In addition, histograms of the PCB composition in the samples and Aroclors were produced and compared, and hierarchical cluster and principal component analyses were performed on the PCB compositional data of samples and Aroclors to identify similarities. These analyses suggest that the PCB contamination originated with primarily Aroclors 1242 and 1254, and slightly more Aroclor 1242 than 1254.

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Chapter 1. Introduction

This report presents the results of sediment monitoring activities performed at the New Bedford Harbor Superfund Site in 2014 in support of remedial dredging operations. Sediment cores were collected during and after dredging to assess sediment conditions and characterize polychlorinated biphenyl (PCB) contamination in the post-dredge sediment surface. Sediment data were provided to the United States Army Corps of Engineers New England District (USACE NAE), the United States Environmental Protection Agency Region 1 (EPA), and Jacobs Engineering to assess dredging performance and assist with future planning efforts.

1.1 SITE DESCRIPTION

The New Bedford Harbor Superfund Site (site), located in Bristol County, Massachusetts, extends from the shallow northern reaches of the Acushnet River estuary south through the commercial harbors of New Bedford and Fairhaven and into 17,000 adjacent acres of Buzzards Bay (Figure 1-1).

Industrial and urban development surrounding the harbor has resulted in sediments becoming contaminated with high concentrations of many pollutants, notably PCBs and heavy metals. PCB concentration gradients within harbor sediments generally decrease from north to south. The source of the PCB contamination has been attributed to two electrical capacitor manufacturing facilities that operated between the 1940s and 1970s. One facility, Aerovox Corporation, is located near the northern boundary of the site, and the other, Cornell-Dubilier Electronics, Inc., is located just south of the New Bedford Harbor hurricane barrier. The two facilities are known to have discharged PCB-laden wastes either directly into the harbor or indirectly via discharges to the City's sewerage system. Based on human health and ecological concerns, EPA added New Bedford Harbor to the National Priorities List in 1983 as a designated Superfund Site. USACE NAE is responsible for carrying out the design and implementation of remedial measures at the site through an Interagency Agreement with EPA.

The site has been divided into three geographic areas: the upper, lower and outer harbors, consistent with geographic features, basin morphology and gradients of contamination (Figure 1-2). The upper harbor comprises approximately 187 acres, with current sediment PCB levels ranging from below detection to approximately over 1,000 parts per million (ppm). The boundary between the upper and lower harbor is the Coggeshall Street Bridge; at this point the harbor is constricted to a width of approximately 100 feet. The lower harbor comprises approximately 750 acres, with current sediment PCB levels ranging from below detection to over 100 ppm. The boundary between the lower and outer harbor is the 150 foot wide opening of the New Bedford hurricane barrier.

The remedial action at the site addresses the removal of approximately 900,000 cubic yards of PCB-contaminated sediment. The remediation in the upper harbor involves hydraulic dredging of contaminated sediment, pipeline transport of dredged material, dewatering, and off-site disposal. The site is divided into a series of Dredge Management Units (DMUs) based primarily on contamination levels and bathymetry. Each year, specific dredge areas are established based on DMU boundaries, planned removal volumes, and dredging operation logistics. In 2014, remediation activities included dredging and/or debris removal in five specific areas within the upper harbor: Areas O, L, P, R and S (Figure 1-3). Hydraulic dredging removed approximately 77,000 cubic yards of contaminated sediment from the harbor in 2014.

1.2 PROJECT OBJECTIVES

The objective of the 2014 sediment monitoring effort was to collect sediment data to assess sediment conditions before, during and after dredging operations. Jacobs Engineering collected pre-dredge cores and bathymetric data to better estimate the thickness of the organic silt (OL)¹ layer and elevation at the native-OL interface. This information was used by Jacobs Engineering to update the depth of dredging (i.e., z^*) and determine target dredge elevations for the 2014 dredge areas (Jacobs, 2015). Battelle collected progress- and post-dredge cores at locations identified by USACE NAE. The progress-dredge cores were collected to estimate the thickness of the OL layer and elevation of the visual transition (native-OL interface). USACE NAE and Jacobs Engineering used this information together with bathymetric data to determine if target dredge elevations were met and if additional dredge passes were necessary to achieve the target dredge elevation or remove remaining OL material. The post-dredge cores were collected to assess the final sediment condition after dredging was complete for the season. Post-dredge cores were examined to estimate the thickness of the OL layer remaining after dredging and elevation of the visual transition (native-OL interface). Sediment was also sub-sampled to characterize PCB contamination in the post-dredge sediment surface. This information was used by USACE NAE and Jacobs Engineering to assess dredging effectiveness.

In 2014, sediment monitoring was also performed in intertidal areas of the upper harbor and subtidal areas of the lower harbor to characterize PCB contamination in support of remedial planning efforts. Results from the intertidal and lower harbor sediment monitoring activities will be reported separately.

¹ Soft or very soft, dark gray or black organic silt layer associated with the PCB contamination.



Figure 1-1. Location of the Site in Southeastern Massachusetts

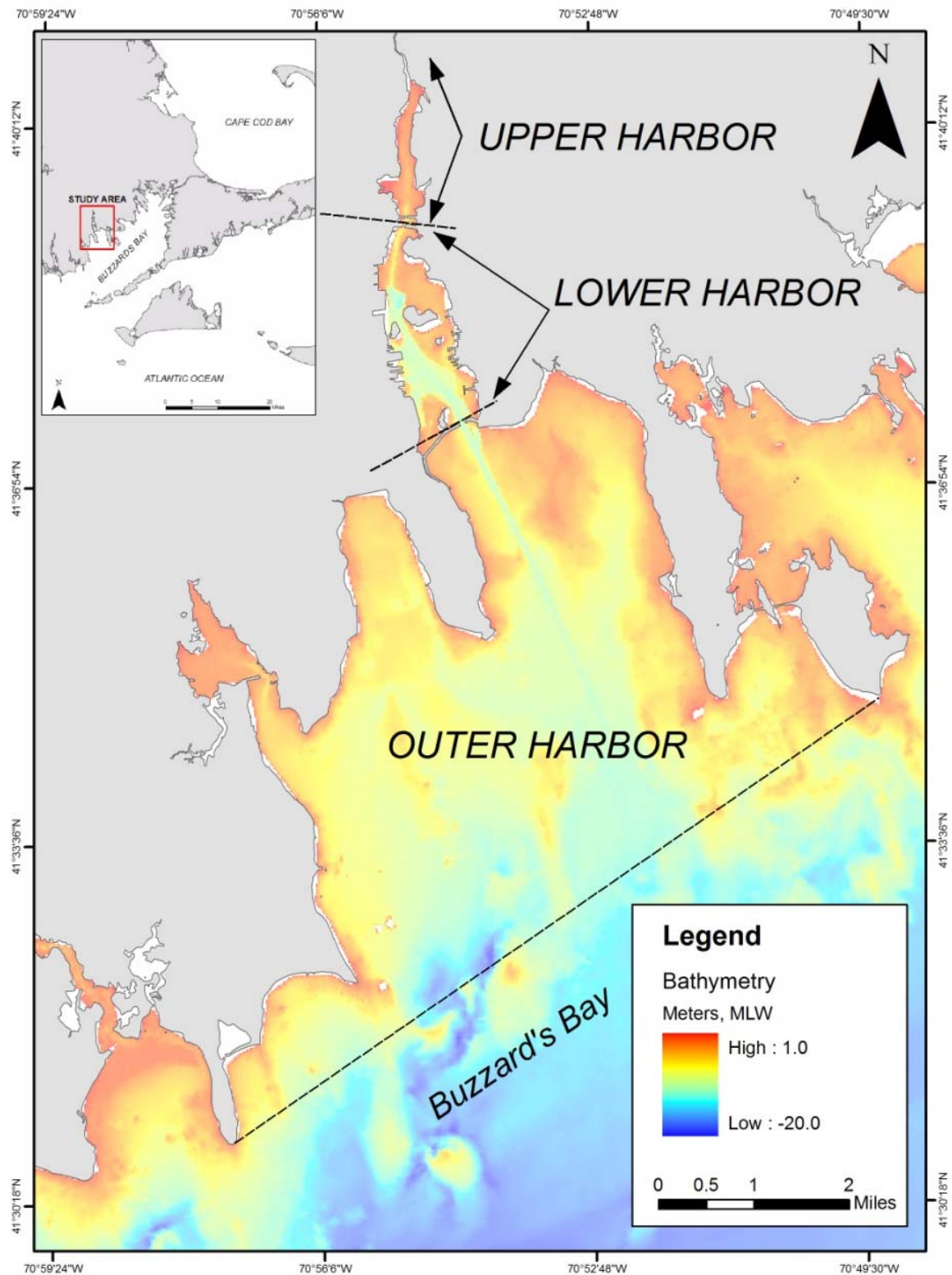


Figure 1-2. Overview of New Bedford Harbor Superfund Site

CHAPTER 1. INTRODUCTION

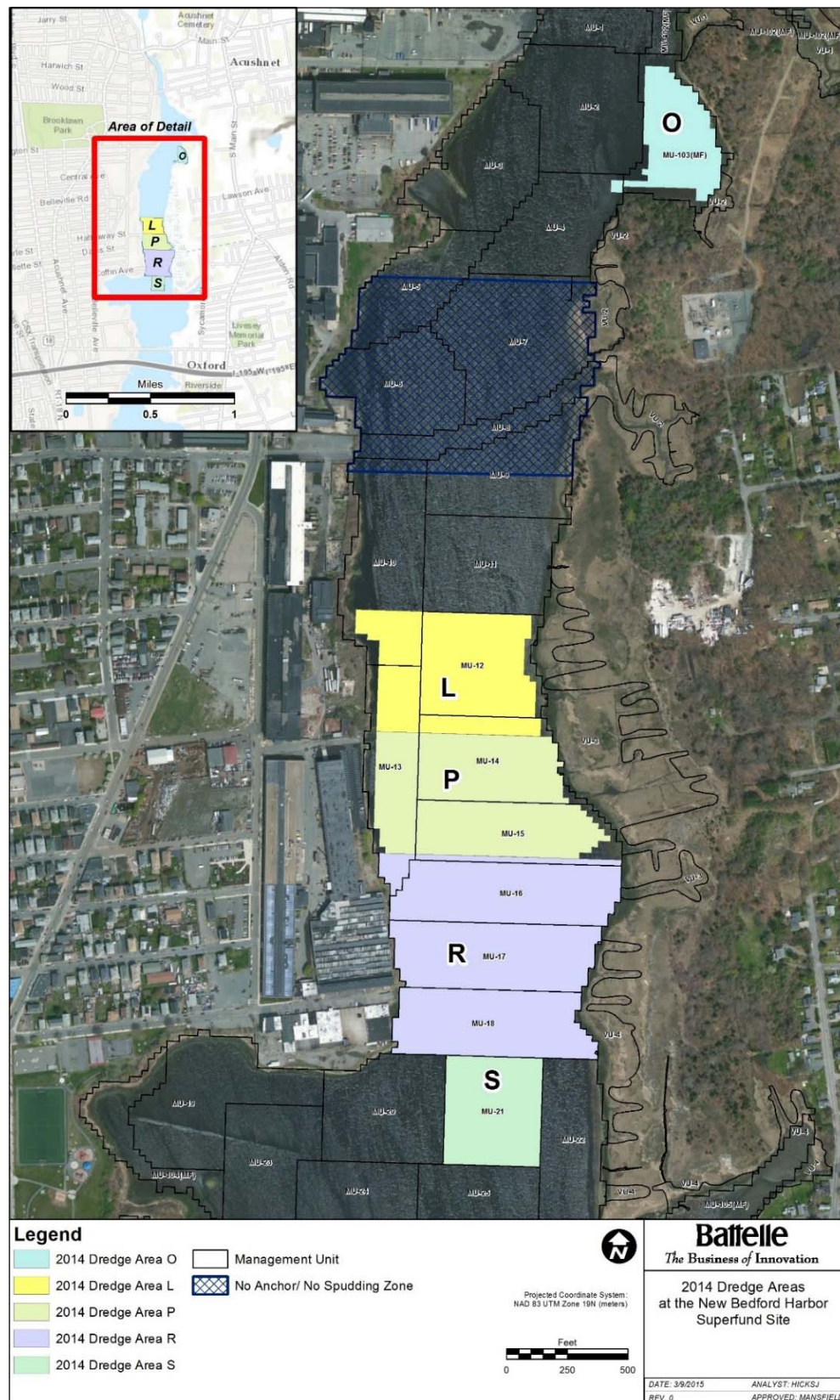


Figure 1-3. 2014 Upper Harbor Dredge Areas

Chapter 2. Methods

This section describes the scope of the 2014 sediment monitoring program and the methods used to collect and analyze the sediment samples for assessing sediment conditions and characterizing PCB contamination in the post-dredge sediment surface. These methods are described in detail in the approved project Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP) (Battelle, 2014a and 2014b).

2.1 2014 FIELD MONITORING AND SAMPLING APPROACH

The sediment monitoring and sampling approach for the 2014 dredge season included collection and processing of pre-, progress- and post-dredge cores to confirm dredge elevations, determine the thickness of the OL layer, and elevation of the visual transition (native-OL interface). Post-dredge cores were also subsampled for laboratory testing to characterize PCB contamination in the post-dredge sediment surface (see Section 2.2). Pre-dredge coring was performed by Jacobs Engineering and progress- and post-dredge coring was performed by Battelle. All coring locations were identified by USACE NAE and Jacobs.

2.1.1 SEDIMENT SAMPLING

Sediment sampling locations were provided by Jacobs Engineering and USACE NAE. All samples were collected from Battelle's Research Vessel (R/V) *Gale Force*, a 20-foot pontoon boat. The vessel was spudded at each station to create a stable platform for collecting the necessary elevation data and sediment cores. Sediment sampling was performed in two events: progress and post-dredge cores were collected at two dredge areas in July 2014 (Figure 2-1) and post-dredge cores were collected at all dredge areas in November 2014 (Figure 2-2).

Sediment cores were collected with a piston-core sampling device utilizing 3-inch diameter Lexan™ core barrels. The sampling device was designed to securely hold one end of a pre-cut length of core barrel. Core lengths were targeted so that penetration exceeded the expected depth of the target dredge elevation by at least 1 foot. A piston assembly inside the core barrel was used to create suction during retrieval of the core to prevent sediment loss from the bottom of the barrel.

Once the individual components of the piston-core sampler were assembled, sample collection was achieved as follows. The core assembly was measured from the bottom of the core to the top of the assembly. The piston assembly was positioned just inside the leading end of the core liner and the piston line was held loosely on deck. The device was lowered into the water until the leading end of the core barrel contacted the sediment surface. The piston attachment line was then tied off securely on the deck of the survey vessel, thus fixing the elevation of the piston assembly. In driving the piston-core into the sediment, the piston created a syringe effect as the core liner was driven past the fixed elevation of the piston. The core liner was then driven to the maximum depth of either refusal or the limiting depth allowed by the length of the piston attachment line. When retrieving the core assembly (with sample), tension was held on the piston line so that the piston and sample were not pulled back down the core liner by suction from the sediments. The sampler was recovered onto the deck of the survey vessel. The bottom end of the core barrel was fitted with a plastic cap, after which the sediment on the external body of the sampler was rinsed off. After thoroughly cleaning the sampling device, the core liner was removed from the socket assembly, the core barrel is cut just below the piston, any excess water (typically less than 1 inch) is poured off, and the top of the core liner was fitted with a plastic end cap. All cores were transferred to the Sawyer Street field trailer for characterization.



Figure 2-1. July 2014 Sediment Sampling Locations

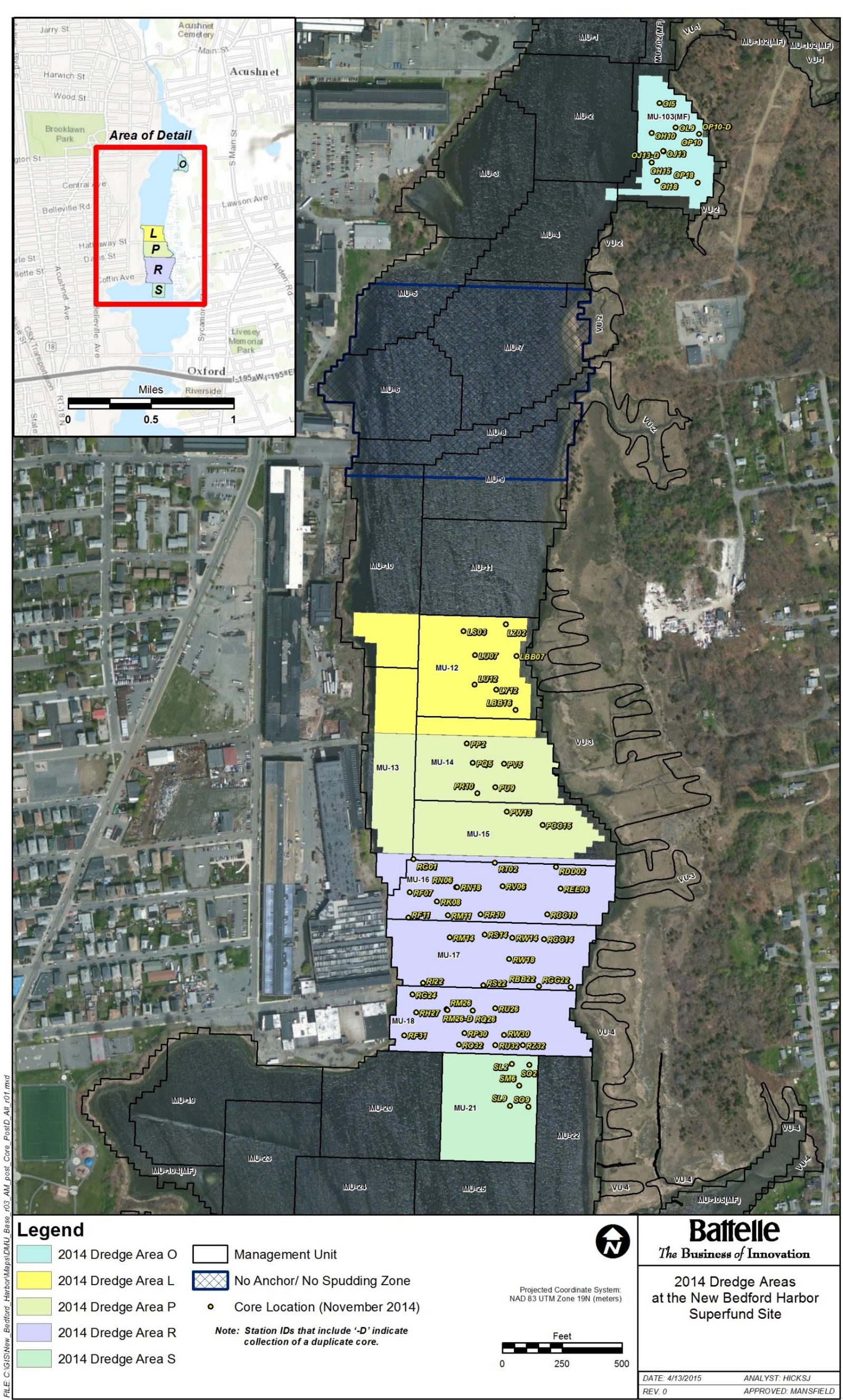


Figure 2-2. November 2014 Sediment Sampling Locations

CHAPTER 2. METHODS

Determining the accurate vertical elevation of the samples is critical in achieving the objectives of the project. Elevation of the water levels, sediment-water interface, and sediment type transitions are all critical measurements for this project. The 2014 project elevation datum was the National Geodetic Vertical datum of 1929 (NGVD29). A series of measurements were conducted for each core to correct elevations for tidal fluctuations. All measurements were recorded to the nearest 0.1 feet. The required measurements and techniques are listed below. See Figure 2-3 for graphical depiction of the measurements.

A = Water depth. The water depth was recorded using a measuring pole.

B = Length of piston-core assembly. Prior to deployment, the full length of the piston-core assembly from the top of the handle to the bottom edge of the core liner was recorded.

C = Water surface to top of core assembly handle. Once the core assembly was fully inserted (refusal or full core penetration), the length of the assembly remaining above the water surface was recorded.

D = Core Length. The core length, from bottom to top, was measured and recorded.

E = Surveyed elevation: Prior to operations, the dredge contractor installed a fixed sheet pile with markings indicating a survey elevation (NGVD29). This elevation was recorded and served as the reference point for all elevation calculations.

F = Water surface from surveyed elevation. After sample collection, the survey vessel navigated to the fixed sheet pile with surveyed elevations and the distance from the water surface to the surveyed elevation was recorded. Note: for the November sampling event a real time kinematic (RTK) global positioning system (GPS) unit with vertical accuracy of <0.1 feet was used at all stations so it was unnecessary to use the surveyed elevation (E).

From these measurements a number of calculations were made to determine true elevations:

$E - F = \text{Elevation of water surface (G)}$ (or measured directly with RTK GPS).

$G - (B - C) = \text{Elevation of bottom of core (H)}$.

The H elevation (bottom of core) was used to determine the elevation of all visual transitions, including apparent target dredge elevation, i.e.:

$H + (\text{distance to visual transition}) = \text{Elevation of visual transition}$ (target dredge elevation)

$H + D = \text{Elevation of sediment-water interface (I)}$.

Once the core was deemed acceptable, a Sediment Sampling Log sheet was completed. Sample collection data, including collection date and time, station coordinates, and sample identification (ID), were documented on Sediment Sampling Log forms. The field measurements required for determining vertical elevation of the sediment-water interface and each transition layer was also included on the Sediment Sampling Log sheet. The core barrel was labeled with a sample ID, date, and the orientation for the top of the core. Chain of custody for each core section was initiated in the field. Core samples were capped tightly, stored on ice in the field, and transferred to the Sawyer Street field trailer for processing.

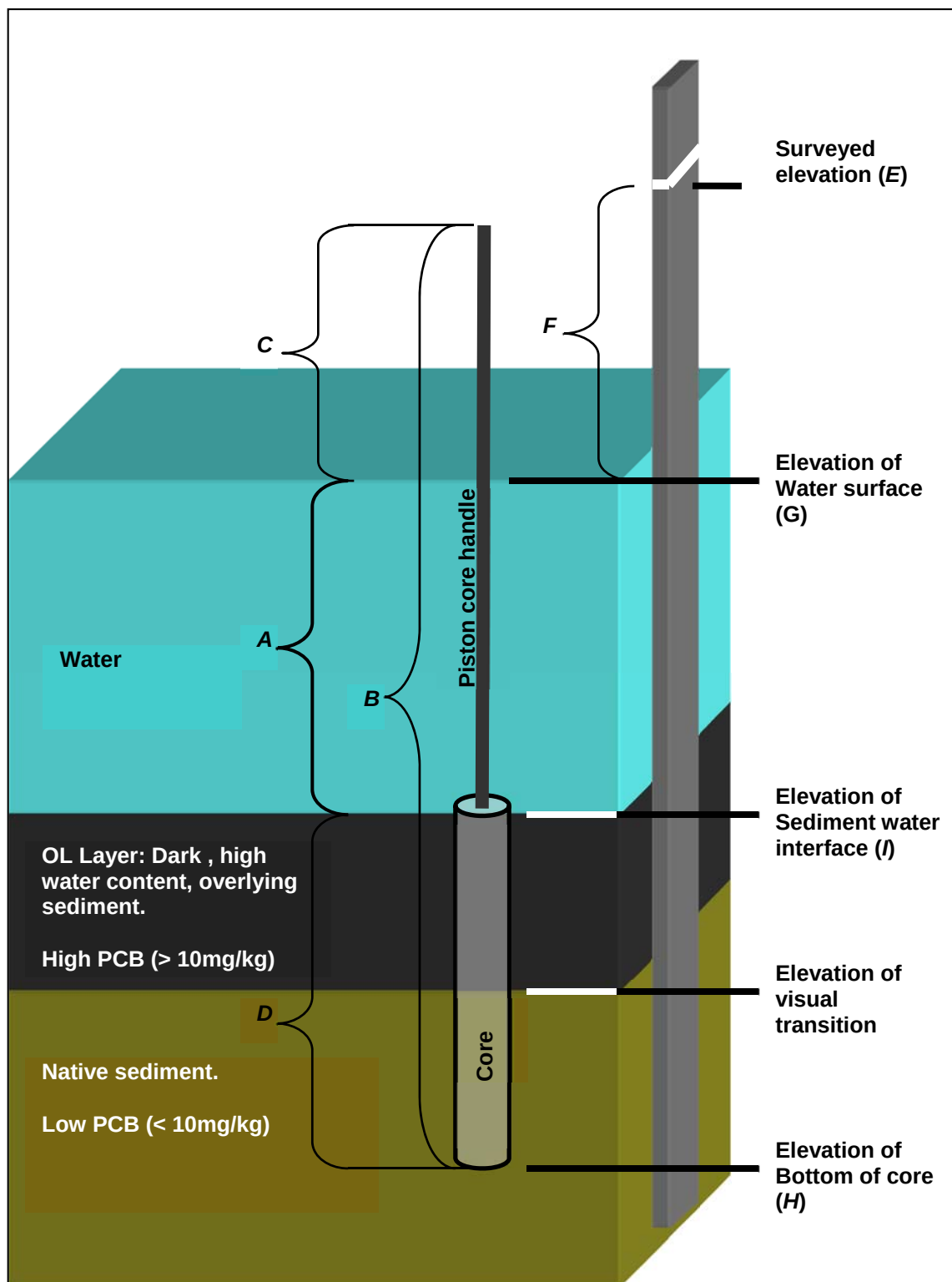


Figure 2-3. Graphical Depiction of Sediment Core Measurements

2.1.2 SEDIMENT PROCESSING

Sediment cores were photo-documented, visually characterized, and subsampled for laboratory testing as described below.

2.1.2.1 PHOTO DOCUMENTATION

In general, previous site investigations have shown that dark, high water content, organic silts in the upper harbor surface sediment are associated with elevated PCB concentrations. These contaminated OL sediments generally overlay lighter-colored, more consolidated native marine sediments which have lower PCB concentrations. The use of this visual transition as a general indicator of the vertical extent of contamination provides a rapid and inexpensive method to assess dredge targets and performance.

All sediment cores (progress- and post-dredge) were documented with digital photographs to record the visual transition. Each photograph contained the following elements in the frame:

- *The Sediment Core.* For the progress-dredge cores the photographs were taken of the intact core through the clear liner (progress-dredge cores were not cut open because sub-sampling for analytical testing was not required). For post-dredge cores the photographs were taken of the open core during full characterization.
- *Measurement Reference.* A tape measure marked in decimal feet placed parallel to length of the core.
- *Sample Identifier.* A card, paper, whiteboard, or equivalent was placed next to the core with the following written information:
 - Station ID – an alpha numeric code that identifies station location
 - Core Length (in decimal feet)
 - Sample Collection Date

2.1.2.2 VISUAL CHARACTERIZATION AND SUBSAMPLING FOR LABORATORY TESTING

The Battelle field staff visually examined the post-dredge cores, documented sediment lithology, and collected subsamples for PCB testing and archival. Post-dredge cores were cut open longitudinally and the physical characteristics (i.e., lithology according to the Unified Soil Classification System [USCS], material type, color, consistency, particle size and odor) were documented on the Sediment Sampling Log forms (Sediment Sampling Logs are provided in Appendix A; sediment core photographs are provided in Appendix B). The surface 0.0 to 0.5-foot interval of each post-dredge core was subsampled for PCB testing and/or archival (Section 2.2). The sediment was removed from the center of the core using a disposable plastic spoon and homogenized in a disposable aluminum bowl. Sediment in contact with the core liner was not removed. Dedicated processing equipment was used for each sample to minimize the potential for cross-contamination and reduce the use of solvents. Samples were collected into the appropriate sample containers and transferred to the laboratories for PCB testing (Table 2-1).

For the November 2014 post-dredge cores, two 0.5-ft increments were collected. The surface 0.0 to 0.5-foot interval was collected for PCB testing and archival as described above, and a second 0.5-foot increment from the subsurface, native 'clean' material was collected for archival. For example, for a 2-foot core with OL in the top 1 foot, the surface 0.0 to 0.5-foot interval was sampled for PCB testing and the subsurface 1.0 to 1.5-foot interval was collected from the native sediment for archival.

Table 2-1. Sample Collection Requirements and Participating Laboratories

Test Parameter	Sample Container Type	Number Containers per Sample	Preservation	Storage Condition	Holding Times	Laboratory
PCB Immunoassay	4-oz glass bottle	1	Ice	4 ± 2 °C	Extraction: 14 days (cold) or 1-year (frozen) Analysis: 40 days	Jacobs Engineering 103 Sawyer Street New Bedford, MA 02746 508-802-7320
PCB Congener/Archive	8-oz glass bottle	1	Ice	4 ± 2 °C	Extraction: 14 days (cold) or 1-year (frozen); Analysis: 40 days	Battelle 141 Longwater Dr Norwell, MA 02061 781-681-5400

2.1.3 QUALITY CONTROL

The GPS units (Garmin GPS Map 76CSx used in July and RTK system used in November) were checked at the beginning and end of each sampling day against an established benchmark at the Sawyer Street facility. The calibration check is recorded on the differential GPS Calibration Check logbook, and maintained in the project files. The GPS units were within the accuracy specified by the manufacturer.

Field-based quality control (QC) samples were collected during the July and November sediment sampling events, and included field replicates (i.e., duplicates). For sediment cores, the field replicate (duplicate) was a second core collected from a co-located station at the same time (generally within ½ hour of the parent core) and using the same techniques. Field replicates (duplicates) were handled, containerized, stored and transported in the same manner as field samples. Field replicates (duplicates) were collected at a frequency of approximately one per 20 samples, and PCB field replicate data were evaluated (by the data validator) against the project measurement performance criteria (MPC) to assess sampling and analytical precision.

2.2 LABORATORY TESTING

Laboratory testing was performed to characterize PCB contamination in the post-dredge sediment surface (0.0 to 0.5 foot). The PCB analytical approach was modified during the 2014 dredge season from the National Oceanic and Atmospheric Administration (NOAA) 18 congener method outlined in the project QAPP (Battelle, 2014b) to a rapid screening method with confirmatory PCB congener analysis. Under the modified approach, total PCB is measured in all samples using immunoassay rapid screening test kits and a sub-set of the samples (approximately 20%) are analyzed for 139 PCB congeners (which represent 95% or more of the total PCBs in the environment and also represent the congeners found in the 9 major Aroclor formulations) to confirm the IA data. This modified PCB analytical approach was used for the Lower Harbor sediment studies conducted in 2014-2015 and provides a rapid, low cost method for estimating total PCB. USACE NAE and EPA approved use of the modified PCB analytical approach for the Upper Harbor sediment monitoring program, beginning with the November 2014 post-dredge sediment sampling event.

Laboratory testing included PCB congener and/or PCB immunoassay (IA) screening, depending on the sampling event. For the July 2014 event, post-dredge cores were analyzed for the NOAA 18 PCB congeners. For the November 2014 event, post-dredge cores were analyzed for total PCB using the modified analytical approach, i.e., rapid assay IA screening method with confirmatory PCB congener analysis. Both methods (NOAA 18 congener and IA with confirmatory congener) were used to characterize

total PCB concentrations in harbor sediment. Analytical data generated by the participating laboratories were submitted to the project database.

The NOAA 18 PCB congener method is described in detail in the approved project QAPP (Battelle, 2014b). Revisions to the QAPP are in progress to include the 139 congener and IA methods. Pertinent QAPP worksheets related to the 139 PCB congener analysis have been provided to USACE NAE for review, and are provided in Appendix C with the analytical data. The IA method is provided in Appendix D.

2.2.1 PCB CONGENERS

2.2.1.1 NOAA 18 PCB CONGENERS BY GC/ECD

PCB analysis for the 18 NOAA congeners was performed by Battelle (Norwell, Massachusetts laboratory). Prior to extraction, samples were air dried for approximately one to three days (depending on moisture content) and a percent moisture determination was performed on the air-dried sediment to verify that percent solids in the samples were >50% and to report data on a dry weight basis.

For extraction and analysis, approximately 5 to 10 grams of the well mixed, air-dried sample was spiked with surrogate internal standards (SIS) and extracted three times with methylene chloride according to Battelle SOP 5-192, *Soil/Sediment Extraction Using an Orbital Shaker Table Method for Trace Level Semi-Volatile Organic Contaminant Analysis*. The combined sample extract was dried over anhydrous sodium sulfate, concentrated and cleaned using florisil to isolate the PCBs (Battelle SOP 5-327, *Florisil Cleanup of Environmental Sample Extracts*) and activated copper to remove sulfur (Battelle SOP 5-328, *Removal of Sulfur from Environmental Sample Extracts*). The final extracts were concentrated, fortified with recovery internal standards (RIS), and submitted for analysis.

PCB analysis was performed by gas chromatography/electron capture detection (GC/ECD) using dual column confirmation, following Battelle SOP 5-128, *Identification and Quantification of Polychlorinated Biphenyls (By Congener and Aroclor) and Chlorinated Pesticides by Gas Chromatography/Electron Capture Detection*, which is based on EPA Method 8082. An initial calibration consisting of target analytes was analyzed prior to sample analysis to demonstrate the linear range. Calibration verification was performed with every 10 samples or every 24-hours, whichever was shorter. Concentrations of target congeners were calculated versus RIS using the average response factors generated from the initial calibration. Positive congener results were confirmed by a secondary column confirmation analysis with the higher of the two results reported, unless analyst discretion required otherwise (e.g., the result without an interference signal was reported). Congener results that were greater than 40% different between the first and second column analysis were 'p' qualified.

Sample results were reported by the laboratory in nanograms per gram (ng/g) dry weight to three significant figures. Total PCB was calculated as the sum of the detected NOAA 18 congeners (a value of zero used for non-detects) times the site factor of 2.6. Total PCB results were converted to ppm basis (ppm = ng/g result divided by 1,000).

2.2.1.2 139 PCB CONGENERS BY GC/MS

PCB analysis for the 139 congeners was performed by Battelle (Norwell, Massachusetts laboratory). Sediment samples were prepared for analysis following the same air drying, percent moisture, extraction and extract cleanup procedures described in Section 2.2.1.1, except that results from the IA screening were used to guide sample size (smaller sample size [e.g., one gram] was used for extraction for samples with higher total PCB measured by the screening method). Sample extracts were analyzed for 139 PCB congeners following Battelle SOP 5-315, *Identification and Quantification of Polychlorinated Biphenyl Congeners (PCB), PCB Homologues, and Chlorinated Pesticides by Gas Chromatography/Mass Spectroscopy in the Selected Ion Monitoring (SIM) Mode*. This method is based on key components of the PCB congener analysis described in EPA Method 1668A and the PCB homologue analysis described in EPA Method 680. Overall guidance for the method is based on EPA Method 8270D. An initial calibration consisting of target analytes was analyzed prior to sample analysis to demonstrate the linear range.

Calibration verification was performed with every 10 samples or every 24-hours, whichever was shorter. Concentrations of target congeners were calculated versus RIS using the average response factors generated from the initial calibration.

Sample results were reported by the laboratory in micrograms per kilogram ($\mu\text{g}/\text{kg}$, equivalent to ng/g) dry weight to three significant figures. Total PCB was calculated as the sum of the detected 139 congeners (a value of zero used for non-detects). Total PCB results were converted to ppm.

2.2.2 PCB IMMUNOASSAY

PCB IA analysis of the November 2014 post-dredge core samples (surface 0.0 to 0.5 foot) was performed by Jacobs Engineering (at the Sawyer Street facility) using Modern Water Sample Extraction and Rapid Assay[®] PCB Test Kits (A00134). The test kits detail the sample extraction and analysis procedures; a summary of the IA method is provided in Appendix D.

Prior to extraction, samples were oven-dried at 100°C for 12 hours to ensure percent solids in the samples were >95%. Approximately 10 grams of the well mixed, oven-dried sample was transferred to the extraction jar and extracted with methanol by vigorously agitating the extraction jar for one minute. After several minutes of settling, the extract was removed by pipette, filtered and 25 μL of the filtered extract diluted with 25 mL of sample diluent according to the test kit. Sample extracts are analyzed by photometric interpretation using the RPA-II analyzer. Sample results were reported by the laboratory in ppm dry weight to three significant figures.

2.2.3 QUALITY CONTROL

A routine set of laboratory-based QC samples was prepared with the post-dredge sediment samples to monitor data quality. For PCB congener analysis, QC samples included a procedural blank, laboratory control sample (LCS), laboratory control sample duplicate (LCSD), a matrix spike (MS) and a matrix spike duplicate (MSD) with each batch of 20 or fewer samples. For IA, QC samples include a laboratory duplicate with each set of 15 or fewer samples. QC sample results were evaluated against the project MPC, and data that did not meet the MPC were evaluated to determine the impact(s) on data quality, and corrective action was taken as appropriate.

2.2.4 DATA ANALYSIS

Linear regression analysis of the IA and PCB congener results was performed to assess the overall performance of the IA method. The coefficient of determination (R^2) provides an indication of the variability (scatter) in the IA-PCB congener relationship, which is influenced by factors such as sample heterogeneity. The slope of the best fit line is related to the composition of the PCBs in the samples.

The Aroclor types and their approximate composition in the subset of samples analyzed for 139 PCB congeners were estimated by determining the relative proportions of the levels of chlorination (LOC) of the quantified PCB congeners in the samples, and comparing those to the composition in Aroclors and mixtures of Aroclors. In addition, histograms of the PCB composition in the samples and Aroclors were produced and compared, and hierarchical cluster and principal component analyses were performed on the PCB compositional data of samples and Aroclors to identify similarities.

LOC values were calculated for each level of chlorination (LOCs 1-10). For example, LOC1 was calculated as the sum of target congeners with one chlorine (i.e., PCBs 1 and 3); a value of zero was used for non-detects.

Scatter plots were used to assess the thickness of the OL layer associated with total PCB concentrations above the target cleanup level (TCL) in the post-dredge sediment surface.

2.2.5 DATA VALIDATION

Data validation was performed by Battelle (PCB congener) and Jacobs Engineering (IA). PCB congener results for the post-dredge sediment samples received data validation at the Tier 1 Stage 2A level using the following guidelines, as applicable to each method:

- EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Specific Guidance/Procedures, April 2013
- EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010.

IA data received data validation at the Tier 1 Stage 1 level.

Chapter 3. Results

This section summarizes results from the 2014 sediment monitoring program performed at the site to assess sediment conditions during and after dredging and characterize the PCB contamination in the post-dredge sediment surface. Complete results are provided as appendices to this report.

3.1 FIELD MONITORING SUMMARY

The location and timing of sediment core collection were directed by USACE NAE. Sediment cores were collected from Areas R and O in July 2014 and Areas O², L, P, R and S in November 2014, after dredging was complete for the season. For the July 2014 sampling event, sediment cores collected from Area R were handled as *progress-dredge* cores and all but two of the sediment cores collected from Area O (Stations OH15 and OI18) were handled as *post-dredge* cores. Progress-dredge cores were visually examined and photo-documented (through the core liner) to determine sediment transition layers, particularly the thickness of the OL layer. This information was used to plan additional dredging in Area R; progress-dredge cores were not opened or sub-sampled for analytical testing. *Post-dredge* cores were opened, photo-documented and visually examined to document sediment lithology and determine the thickness and elevation of the OL layer. Subsamples were collected for laboratory testing to characterize PCB contamination in the post-dredge sediment surface. All sediment cores collected from the November 2014 sampling event were handled as post-dredge cores. Complete field data including sample collection logs, core characterizations and photographs of the sediment cores are provided in Appendices A and B.

3.1.1 AREA R PROGRESS-DREDGE CORES, JULY 2014 SAMPLING EVENT

Progress-dredge cores were collected on July 18, 2014 at 17 locations identified by Jacobs Engineering and USACE NAE. Sediment cores were visually examined and photo-documented (through the core liner) to determine the elevation of the visual transition (native-OL interface) and thickness of the OL sediment layer. The thickness of the OL layer ranged from 0.0 to 2.1 feet (Table 3-1). USACE NAE and Jacobs Engineering used these data together with bathymetric data to determine that the target dredge elevations were not met at all coring locations within the dredge area (Table 3-1), and, as a result, additional dredge passes were performed to achieve the target dredge elevation and/or remove remaining OL material. This information is discussed in more detail in the Data Summary Report for the 2014 dredge season (Jacobs, 2015).

3.1.2 AREA O POST-DREDGE CORES, JULY 2014 SAMPLING EVENT

Post-dredge cores were collected on July 17, 2014 at 16 locations identified by Jacobs Engineering and USACE NAE. All sediment cores were cut open longitudinally and fully characterized, except cores from Stations OH15 and OI18, which were handled as progress-dredge cores. The thickness of the OL layer ranged from 0.0 to 0.7 feet (Table 3-1). USACE NAE and Jacobs Engineering used these data together with bathymetric data to determine that some additional dredging was needed, but that many areas met the target dredge elevations (Table 3-1). The surface 0.0 to 0.5 foot interval from all sediment cores (except Stations OH15 and OI18) were subsampled for PCB testing (Section 3.2).

² Additional dredging was performed in a small section of Area O based on results from the July progress-dredge core data. Dredging was completed in Area O by the end of July, and USACE NAE directed that post-dredge cores be collected again in this area in November 2014, after dredging operations were complete for the season.

3.1.3 AREAS O, L, P, R AND S POST-DREDGE CORES, NOVEMBER 2014 SAMPLING EVENT

Following completion of the 2014 dredge season, post-dredge core samples were collected from November 17 to 25, 2014 at 60 locations across Areas O, L, P, R, and S to assess the final sediment condition at the end of the dredge season; locations were identified by USACE NAE and Jacobs Engineering. All sediment cores were cut open longitudinally and fully characterized. The thickness of the OL layer ranged from 0.0 to 1.5 feet (Table 3-1). The surface 0.0 to 0.5 foot interval from each core was subsampled for PCB testing (Section 3.2).

For Area R, the thickness of the OL layer decreased at some stations (RR10, RK08, RM11, RF07 and RM14) and increased at others (RO32, RM26, MN06, RG01 and RN18) between the July and November sampling events (Table 3-1). For Area O, the thickness of the OL layer generally increased between July and November for those stations sampled during both events; increase ranged from 0.2 to 0.75 feet (Table 3-1) and was 0.5 feet on average. Small differences (0.25 feet) are probably not significant given that differences in OL thickness ranged from 0 to 0.25 feet for field replicate cores. A number of factors could have influenced the differences in OL thickness measured in the Area O post-dredge cores from July and November 2014, including:

- Visually estimating the OL thickness is an inexact science: measurements taken from visual observations through the core liner may be influenced by smearing along the edge of the liner, and measurements taken from open cores may be influenced by slumping when the core is placed in a horizontal position. In addition, the contact between the OL and the native sediment is often not sharp and horizontal; for example, there may be a wedge of native sediment in the OL. The contact may be a zone of mixed OL and native sediment, or the contact may be at an angle.
- The elevation of the dredged surface is not perfectly level: at low tide in shallow water, irregularities on the dredge surface are visually evident. Although the same stations were visited in July and November, the core sample location ranged from 0 to 5 feet apart.
- Additional sediment may have been transported to and deposited in Area O between July and November.

Different factors or combinations of factors could be influencing results at different locations. Small differences in OL thickness are not likely to be significant; for example, the field replicate (duplicate) cores from one location (OJ13, November 2013) had a 0.25-foot difference in OL thickness. However, locations with greater differences (e.g., OL9 and OJ13, which both showed a 0.7 to 0.75-foot increase in OL thickness) may be affected by additional sediment accumulation.

Table 3-1. Elevation and PCB Data for Progress- and Post-dredge Cores, 2014 Dredge Season

Station	Collection Date	Northing, ft (actual)	Easting, ft (actual)	Elevation (NGVD29, ft)				Measured Thickness of OL (ft)	Total PCB (ppm dry weight) by Method	
				Target Dredge Elevation (a)	Measured Sediment-Water Interface	Measured Visual Transition (native-OL interface)	Actual vs. Predicted Native-OL Transition (b)		IA	PCB Congener (c)
Progress-dredge Cores, July 2014 Sampling Event (h)										
Area R										
RP30	7/18/2014	2702647	815428	-8.7	-3.4	-4.2	4.5	0.8	Progress-dredge cores did not receive analytical testing	
RO32	7/18/2014	2702595	815404	-7.7	-2.9	-3.4	4.3	0.5		
RM26	7/18/2014	2702744	815346	-7.5	-2.8	-2.8	4.7	0.0		
RP24	7/18/2014	2702799	815425	— (d)	-5.3	-6.1	— (d)	0.8		
RR10	7/18/2014	2703144	815478	-12.1	-6.2	-7.6	4.5	1.4		
RQ05	7/18/2014	2703276	815450	— (d)	-5.7	-6.5	— (d)	0.8		
RM02	7/18/2014	2703346	815353	— (d)	-5.8	-6.4	— (d)	0.6		
RN06	7/18/2014	2703253	815375	-9.1	-6.1	-6.7	2.4	0.6		
RK08	7/18/2014	2703190	815297	-9.9	-6.2	-8.3	1.6	2.1		
RM11	7/18/2014	2703136	815342	-10.7	-7.9	-9.3	1.4	1.4		
RF07	7/18/2014	2703226	815181	-7.9	-6.6	-7.6	0.3	1.0		
RC02	7/18/2014	2703350	815092	— (d)	-5.7	-6.2	— (d)	0.5		
RC02 - DUP	7/18/2014	2703350	815092	— (d)	-5.9	-6.5	— (d)	0.6		
RO12	7/18/2014	2703099	815400	— (d)	-11.8	-13.2	— (d)	1.4		
RM14	7/18/2014	2703045	815350	-9.3	-10.5	-11.8	-2.5	1.3		
RG01	7/18/2014	2703363	815191	-5.1	-7.9	-8	-2.9	0.1		
RN22	7/18/2014	2702849	815372	— (d)	-11.6	-12.2	— (d)	0.6		
RN18	7/18/2014	2702951	815380	-9.1	-10.4	-11	-1.9	0.6		
Post-dredge Cores, July 2014 Sampling Event (h)										
Area O										
OH2	7/17/2014	2706624	816097	— (d)	-0.2	-0.4	— (d)	0.2	— (e)	390
OG5	7/17/2014	2706547	816073	— (d)	-0.9	-1.1	— (d)	0.2	— (e)	122
O15	7/17/2014	2706553	816123	-4.4	-0.6	-1	3.4	0.4	— (e)	70.2
OH10	7/17/2014	2706425	816098	-3.5	-0.3	-0.6	2.9	0.3	— (e)	195

Table 3-1. Elevation and PCB Data for Progress- and Post-dredge Cores, 2014 Dredge Season

Station	Collection Date	Northing, ft (actual)	Easting, ft (actual)	Elevation (NGVD29, ft)				Measured Thickness of OL (ft)	Total PCB (ppm dry weight) by Method	
				Target Dredge Elevation (a)	Measured Sediment-Water Interface	Measured Visual Transition (native-OL interface)	Actual vs. Predicted Native-OL Transition (b)		IA	PCB Congener (c)
OH15 (f)	7/17/2014	2706301	816098	-3.7	-1.9	-2.3	1.4	0.4	— (e)	— (f)
OI18 (f)	7/17/2014	2706225	816125	-3.6	-2.2	-2.9	0.7	0.7	— (e)	— (f)
OJ08	7/17/2014	2706476	816151	— (d)	-3.7	-3.9	— (d)	0.2	— (e)	83.2
OL6	7/17/2014	2706522	816197	— (d)	-3.5	-3.5	— (d)	0.0	— (e)	218
OL9	7/17/2014	2706449	816196	-3.1	-4.4	-4.5	-1.4	0.1	— (e)	16.9
OL9 - DUP	7/17/2014	2706449	816196	-3.1	-4.5	-4.6	-1.5	0.1	— (e)	338
OP10	7/17/2014	2706425	816297	-2.5	-5.1	-5.1	-2.6	0.0	— (e)	11.7
ON11	7/17/2014	2706399	816251	— (d)	-5.7	-6.4	— (d)	0.7	— (e)	884
OJ13	7/17/2014	2706349	816147	-3.1	-6.4	-6.5	-3.4	0.1	— (e)	72.8
OO15	7/17/2014	2706301	816273	— (d)	-6.0	-6.1	— (d)	0.1	— (e)	286
OL17	7/17/2014	2706252	816199	— (d)	-5.6	-5.8	— (d)	0.2	— (e)	135
OP18	7/17/2014	2706225	816298	-2.4	-5.8	-6.0	-3.6	0.2	— (e)	140
ON20	7/17/2014	2706177	816250	— (d)	-5.5	-5.7	— (d)	0.2	— (e)	250
Post-dredge Cores, November 2014 Sampling Event										
Area L										
LBB07	11/20/14	2704225	815598	-2.2	-1.7	-1.9	0.3	0.2	78.1	— (g)
LBB16	11/20/14	2704001	815600	-2.5	-2.4	-2.4	0.1	0.0	1.3	1.67
LS03	11/19/14	2704323	815374	-7.3	-7.2	-7.9	-0.6	0.7	83.1	119
LU07	11/19/14	2704225	815425	-6.9	-6.6	-7.3	-0.4	0.7	311	— (g)
LU12	11/19/14	2704101	815426	-6.2	-6.4	-7.1	-0.9	0.7	488	— (g)
LY12	11/19/14	2704083	815516	-5.2	-5.6	-6.4	-1.2	0.8	89.7	— (g)
LZ02	11/19/14	2704357	815549	-3.5	-4.5	-4.5	-1.0	0.0	1.3	— (g)
Area O										
OH10	11/17/14	2706423	816098	-3.5	-3.4	-4.3	-0.8	0.9	919	— (g)
OH15	11/17/14	2706301	816102	-3.7	-4.8	-5.5	-1.8	0.7	211	— (g)
OI18	11/17/14	2706225	816127	-3.6	-4.9	-5.4	-1.8	0.5	90.2	76.1

Table 3-1. Elevation and PCB Data for Progress- and Post-dredge Cores, 2014 Dredge Season

Station	Collection Date	Northing, ft (actual)	Easting, ft (actual)	Elevation (NGVD29, ft)				Measured Thickness of OL (ft)	Total PCB (ppm dry weight) by Method	
				Target Dredge Elevation (a)	Measured Sediment-Water Interface	Measured Visual Transition (native-OL interface)	Actual vs. Predicted Native-OL Transition (b)		IA	PCB Congener (c)
OI5	11/17/14	2706549	816126	-4.4	-4.0	-4.6	-0.4	0.7	1330	— (g)
OJ13	11/17/14	2706348	816150	-3.1	-3.3	-4.2	-1.1	0.9	405	— (g)
OJ13-DUP	11/17/14	2706349	816148	-3.1	-3.2	-3.8	-0.7	0.6	171	— (g)
OL9	11/17/14	2706449	816198	-3.1	-2.6	-3.4	-0.4	0.8	920	— (g)
OP10	11/17/14	2706425	816297	-2.5	-3.0	-3.4	-0.9	0.4	807	510
OP10-DUP	11/17/14	2706425	816296	-2.5	-3.0	-3.4	-0.9	0.4	362	— (g)
OP18	11/17/14	2706222	816296	-2.4	-2.7	-3.1	-0.8	0.4	344	— (g)
Area P										
PCC15	11/18/14	2703523	815726	-4.7	-5.2	-5.4	-0.7	0.2	5.5	2.85
PP2	11/18/14	2703855	815400	-6.7	-7.7	-8.8	-2.1	1.1	85.1	— (g)
PQ5	11/18/14	2703774	815427	-7.9	-8.3	-8.6	-0.7	0.3	182	— (g)
PR10	11/18/14	2703649	815451	-7.1	-6.8	-6.8	0.3	0.0	1.6	— (g)
PU9	11/18/14	2703676	815525	-5.9	-6.0	-6.5	-0.6	0.5	84.1	— (g)
PV5	11/18/14	2703775	815557	-5.3	-5.0	-5.3	0.0	0.3	14.2	22.2
PW13	11/18/14	2703575	815575	-6.6	-6.8	-7.2	-0.7	0.4	35.6	— (g)
Area R										
RBB22	11/19/14	2702851	815730	-4.7	-5.3	-5.5	-0.8	0.2	33	23.7
RCC10	11/19/14	2703152	815757	-6.3	-6.6	-7.3	-1.2	0.7	59.9	— (g)
RCC14	11/19/14	2703049	815747	-5.9	-6.0	-6.9	-0.9	0.9	64.9	42.4
RDD02	11/18/14	2703350	815787	-5.0	-4.9	-5.5	-0.5	0.6	25.5	— (g)
REE06	11/19/14	2703260	815809	-5.1	-4.7	-5.1	-0.1	0.4	50.1	— (g)
RF07	11/18/14	2703227	815180	-7.9	-7.5	-8.2	-0.3	0.7	79.6	— (g)
RF11	11/18/14	2703121	815177	-5.9	-5.3	-6.1	-0.3	0.8	11	— (g)
RF31	11/20/14	2702631	815175	-3.2	-3.0	-3.9	-0.7	0.9	613	— (g)
RG01	11/18/14	2703365	815191	-5.1	-5.8	-6.2	-1.1	0.4	57.4	— (g)
RG24	11/18/14	2702801	815204	-3.1	-3.4	-3.4	-0.3	0.0	5.7	— (g)

Table 3-1. Elevation and PCB Data for Progress- and Post-dredge Cores, 2014 Dredge Season

Station	Collection Date	Northing, ft (actual)	Easting, ft (actual)	Elevation (NGVD29, ft)				Measured Thickness of OL (ft)	Total PCB (ppm dry weight) by Method	
				Target Dredge Elevation (a)	Measured Sediment-Water Interface	Measured Visual Transition (native-OL interface)	Actual vs. Predicted Native-OL Transition (b)		IA	PCB Congener (c)
RGG22	11/20/14	2702852	815863	-1.8	-2.6	-2.6	-0.7	0.0	1.5	— (g)
RH27	11/20/14	2702726	815221	-3.7	-3.7	-4.6	-0.9	0.9	95.3	— (g)
RI22	11/18/14	2702850	815246	-5.2	-5.9	-7.1	-1.8	1.2	49.5	— (g)
RK08	11/21/14	2703193	815295	-9.9	-10.8	-11.4	-1.4	0.6	280	— (g)
RM11	11/25/14	2703136	815343	-10.7	-9.1	-9.5	1.2	0.4	46.6	— (g)
RM14	11/25/14	2703045	815352	-9.3	-9.9	-10.4	-1.1	0.5	46.5	— (g)
RM26	11/18/14	2702745	815348	-7.5	-7.6	-8.7	-1.3	1.1	332	236
RM26-DUP	11/18/14	2702741	815353	-7.5	-7.7	-8.7	-1.2	1.0	96	123
RN06	11/25/14	2703254	815373	-9.1	-9.2	-10.2	-1.1	1.0	391	222
RN18	11/21/14	2703255	815378	-9.1	-8.9	-9.6	-0.4	0.7	421	— (g)
RO32	11/21/14	2702597	815404	-7.7	-7.8	-8.6	-1.0	0.8	330	— (g)
RP30	11/20/14	2702646	815426	-8.7	-9.0	-9.6	-1.0	0.6	422	— (g)
RQ26	11/20/14	2702742	815458	-10.9	-11.2	-12.4	-1.5	1.2	326	— (g)
RR10	11/25/14	2703145	815479	-12.1	-13.0	-13.4	-1.3	0.4	77.8	— (g)
RS14	11/25/14	2703061	815497	-13.8	-14.1	-14.6	-0.8	0.5	112	— (g)
RS22	11/21/14	2702849	815498	-13.4	-12.4	-13.9	-0.4	1.5	236	— (g)
RT02	11/19/14	2703360	815532	-9.0	-9.4	-9.7	-0.7	0.3	70.6	— (g)
RU26	11/21/14	2702754	815551	-12.5	-11.9	-12.8	-0.3	0.9	445	— (g)
RU32	11/21/14	2702601	815556	-11.5	-11.9	-12.3	-0.8	0.4	77.4	— (g)
RV06	11/19/14	2703265	815567	-7.9	-8.1	-8.8	-0.9	0.7	73.9	— (g)
RW14	11/19/14	2703051	815614	-7.1	-7.6	-7.8	-0.6	0.2	68.3	— (g)
RW18	11/19/14	2702961	815604	-9.4	-9.3	-9.7	-0.3	0.4	235	— (g)
RW30	11/19/14	2702643	815592	-11.8	-11.4	-12.9	-1.1	1.5	381	— (g)
RZ32	11/19/14	2702604	815671	-7.4	-6.5	-7.47	-0.1	1.0	142	— (g)

Table 3-1. Elevation and PCB Data for Progress- and Post-dredge Cores, 2014 Dredge Season

Station	Collection Date	Northing, ft (actual)	Easting, ft (actual)	Elevation (NGVD29, ft)				Measured Thickness of OL (ft)	Total PCB (ppm dry weight) by Method	
				Target Dredge Elevation (a)	Measured Sediment-Water Interface	Measured Visual Transition (native-OL interface)	Actual vs. Predicted Native-OL Transition (b)		IA	PCB Congener (c)
Area S										
SL2	11/19/14	2702524	815626	-11.5	-12.1	-12.6	-1.1	0.5	259	— (g)
SL9	11/19/14	2702350	815625	-11.2	-11.8	-12.5	-1.4	0.7	185	— (g)
SM6	11/19/14	2702434	815660	-10.5	-10.8	-11.5	-1.0	0.7	274	— (g)
SO2	11/19/14	2702521	815700	-7.0	-7.5	-8.5	-1.5	1.0	274	146
SO9	11/19/14	2702347	815701	-7.8	-8.3	-9.0	-1.2	0.7	94.9	57.5

- (a) Source: Jacobs Engineering
- (b) Actual vs. Predicted Transition Elevation = Measured Elevation of Visual Transition (ft) – Target Dredge Elevation (ft)
- (c) July 2014 Post-dredge cores analyzed using NOAA 18 congener method, where Total PCB = sum of detected 18 NOAA congeners * 2.6 site factor; November 2014 post-dredge cores analyzed using 139 PCB congener method, where Total PCB = sum of detected 139 congeners
- (d) Target Dredge Elevation not available; Actual vs. Predicted Transition not calculated
- (e) Immunoassay testing not performed on July 2014 post-dredge cores
- (f) Progress-dredge cores; analytical testing not performed
- (g) Not available; 139 PCB congener testing performed on sub-set of IA samples
- (h) Area R and O sediment-water interface elevation measurements from July 17-18, 2014 are not consistent with Jacobs Engineering bathymetric data from a late June 2014 survey. Field log data and sediment-water interface elevation calculations were confirmed as correct. The reason for the discrepancy between the measured elevations and the bathymetric survey data is not apparent.

3.2 LABORATORY TESTING

Post-dredge core samples were analyzed to characterize PCB contamination in the post-dredge sediment surface. Area O post-dredge cores from the July 2014 sampling event were analyzed for PCBs using the NOAA 18 congener method. Area O, L, P, R and S post-dredge core samples from the November 2014 sampling event were analyzed for total PCB using the IA method, and a subset (about 20%) of the samples received confirmatory PCB congener (139 congeners) analysis. Complete PCB congener test results, along with results from the analysis of field- and laboratory-based QC samples, are provided in Appendix C.

3.2.1 PCB CHARACTERIZATION OF THE POST-DREDGE SEDIMENT SURFACE

Total PCB concentrations in the post-dredge sediment surface (0.0 to 0.5 foot) varied widely, ranging from 11.7 to 884 ppm in Area O sediment samples collected in July 2014 (based on the NOAA 18 congener method; Table 3-1 and Figure 3-1) and from 1.3 to 1,330 ppm in Area O, L, P, R and S sediments collected in November 2014 after dredging was complete for the season (based on IA method; Table 3-1 and Figure 3-2). On average, total PCB concentrations were highest at Area O and lowest at Area P. Results from the detailed congener analysis are discussed in Section 4.0.

3.3 QUALITY CONTROL

PCB congener results from the field- and laboratory-based QC samples are reported with the laboratory data packages provided in Appendix C. Results from the analysis of the field- and laboratory-based QC samples were evaluated against the project MPC to evaluate the data quality in terms of accuracy and precision.

3.3.1 FIELD REPLICATES

One field replicate (a second core collected at a co-located station) was collected with every 20 sediment cores, resulting in one field replicate for the July 2014 sampling event and three field replicates for the November 2014 sampling event. The relative percent difference (RPD) between PCB results (congener, total PCB and IA) was greater than the QAPP precision MPC of 50% for all replicate cores samples (Table 3-2). Other measures of precision (from laboratory-based QC samples, Appendix C and Table 3-3) were acceptable, suggesting that the higher RPDs for field replicate samples are associated with sample heterogeneity. This is consistent with previous monitoring years, where replicate results have been mixed, i.e., some replicates meet precision MPC while others do not, and the precision exceedances have been attributed to natural sample heterogeneity (WHG, 2013 and 2012).

Table 3-2. Concentrations of Total PCB in Field Replicates (Surface 0.0 to 0.5 foot), July and November 2014 Sampling Events

Area/ Station	Total PCB (ppm dry weight)		Relative Percent Difference	PCB Method
	Original	Field Replicate		
July 2014 Sampling Event				
OL9	16.9	338	181%	PCB Congener, NOAA 18
November 2014 Sampling Event				
OJ13	405	171	81%	IA
OP10	807	362	76%	IA
RM26	332	96	110%	IA
RM26	236	123	63%	PCB Congener, 139 congeners

CHAPTER 3. RESULTS

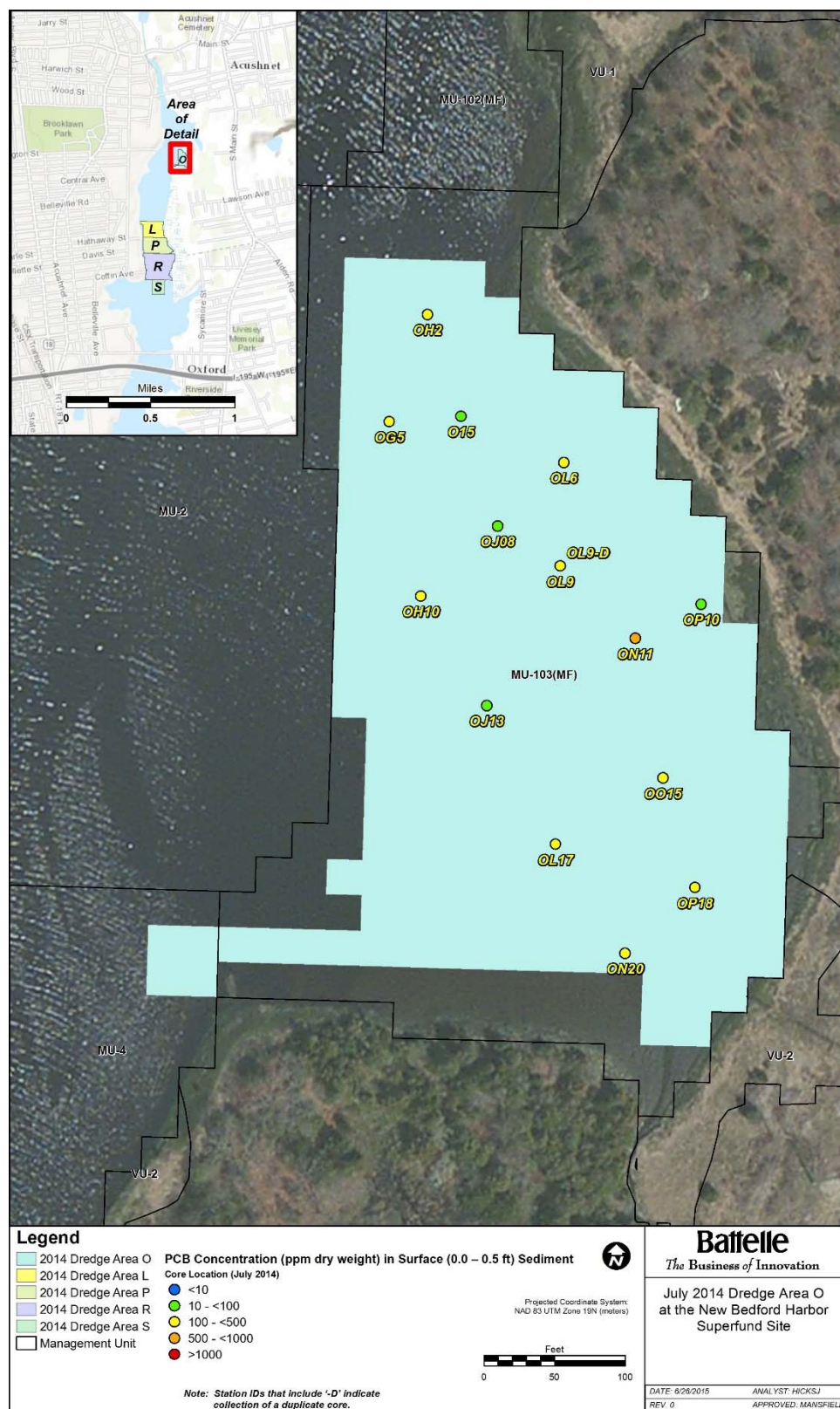
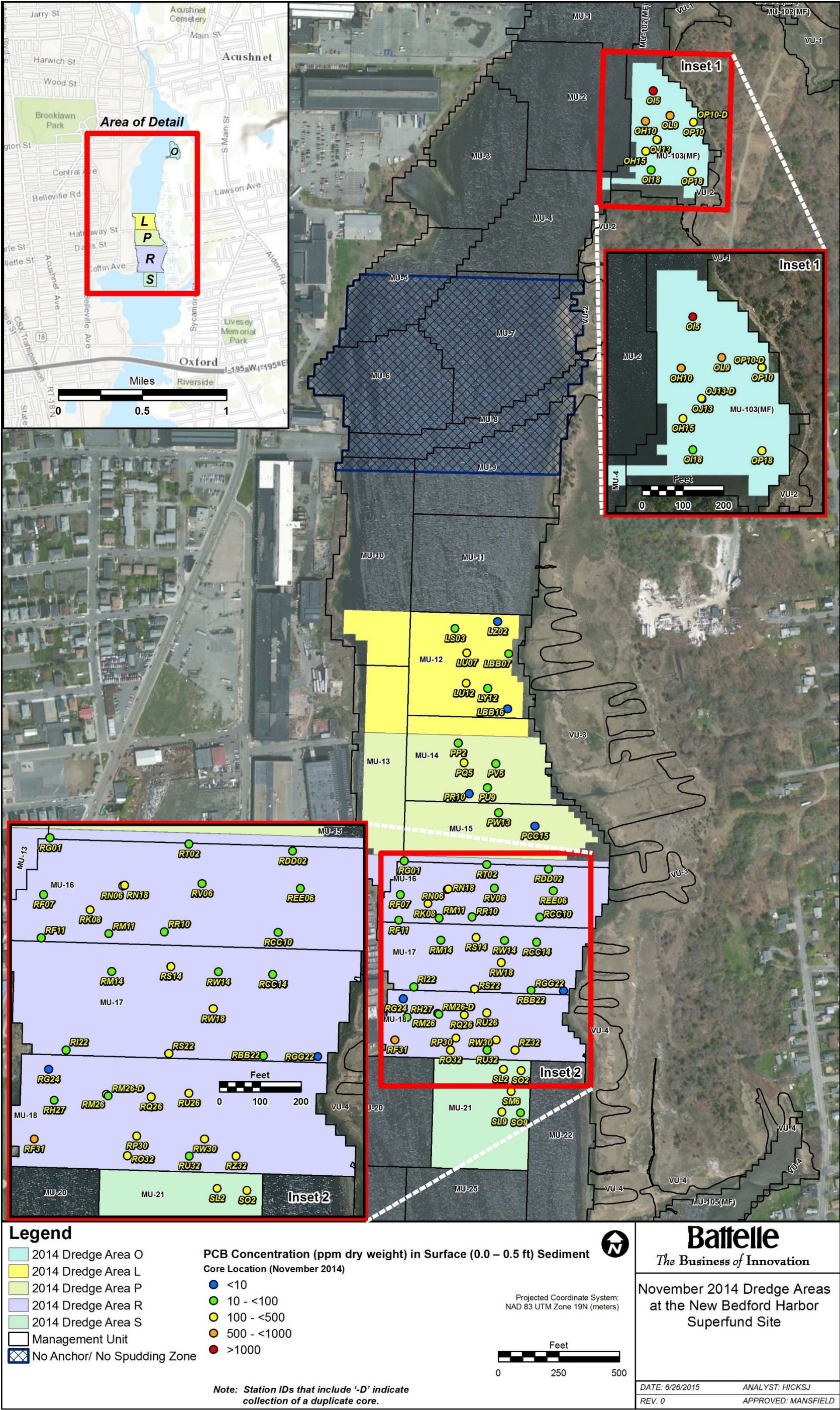


Figure 3-1. Total PCB Concentrations (from NOAA 18 Congener Analysis) in Surface (0.0 to 0.5-foot) Sediment, July 2014 Post-dredge Sediment Cores

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25 Figure 3-2. Total PCB Concentrations (from Immunoassay Analysis) in Surface (0.0 – 0.5 foot) Sediment, November 2014 Post-dredge Sediment Cores

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3.3.2 LABORATORY QUALITY CONTROL SAMPLES

The review of the laboratory QC data for the PCB congener analysis is documented in quality assurance (QA)/QC narratives, which are provided with the sample data in Appendix C. In general, the quality of the data is acceptable and the analytical methods are in control. For example, the target PCB congeners were undetected in the procedural blanks, indicating that the methods were free of contamination. In addition, recovery and precision results for LCS and LCSD QC samples were acceptable for all target compounds, indicating that the methods were in control. Recovery and precision results for the MS and MSD were mixed; for congeners that were spiked at a concentration $>5\times$ background levels, the recovery and precision results generally met the project MPC. Congeners were not recovered or were over-recovered in cases where the MS and MSD spike concentration was $<5\times$ background levels. This is an artifact of the elevated background, and does not indicate poor method performance. PCB surrogate recoveries also generally met the project MPC, except in cases where the surrogates were diluted out. Results from the Tier I validation of the PCB congener data indicate that the data are useable. The data validation reports are provided in Appendix E.

Laboratory-based QC samples for the IA analysis included one laboratory duplicate with approximately every 15 samples. The RPD between duplicate IA results was generally less than 10%, except for the laboratory duplicate prepared from station PV5 (RPD = 48%; Table 3-3).

Table 3-3. Concentrations of Total PCB (Immunoassay) in Laboratory Replicates (Surface 0.0 to 0.5 foot), November 2014 Sampling Event

Station	IA Total PCB (ppm dry weight)		Relative Percent Difference
	Original	Laboratory Replicate	
LY12	89.7	91.7	2.2%
PV5	14.2	23.2	48%
RG01	57.4	62.8	9.0%
RN06	391	370	5.6%
SM6	274	254	7.5%

3.3.3 IMMUNOASSAY AND CONGENER DATA COMPARISON

The IA method was introduced during the 2014 dredge season as a low cost, rapid screening method for estimating total PCB concentrations in sediment, and was used in combination with the PCB congener method to characterize a much larger number of samples. Approximately 20% of the IA samples were also analyzed by the PCB congener method (139 congeners) to calculate total PCB, characterize PCB composition, and assess the relationship between the two methods.

Samples selected for confirmatory PCB congener analysis spanned the range of the measured IA concentrations and were spatially representative across the five dredge areas (Areas O, L, P, R and S). The paired IA and PCB congener data were reviewed to better understand the performance of the IA analysis. The IA test kit is calibrated to Aroclor 1254, so if the samples were comprised of 100% Aroclor 1254, then the relationship between the IA and congener-based Total PCB concentrations would yield a slope of about 1.0. Samples comprised of a mix of Aroclor 1242 and Aroclor 1254 should yield a slope of less than 1.0. Figure 3-3 depicts the relationship between the IA and PCB congener data for the November post-dredge core samples, and shows the linear regression results. For this dataset, an R^2 of 0.975 and slope of 1.53 was obtained. This means that, on average, the IA result was about 53% higher than the total PCB congener result. Despite the good correlation (R^2 of 0.975), these results show higher IA results than would be expected based on the PCB composition (mix of Aroclors 1242 and 1254; see Section 4.0). Additional investigations are ongoing to better understand the IA and congener relationship for this dataset.

CHAPTER 3.

Preliminary findings from the investigations suggest that there are no specific analytical method factors that could explain the higher-than expected IA-PCB congener relationship (slope of 1.53), although sample dilution could be a contributing factor (Battelle, 2015), as could natural sample heterogeneity. The methods (IA and congener) have also been updated effective 2015 to include a requirement to prepare Certified Reference Material and Standard Reference Material QC samples to independently assess method accuracy.

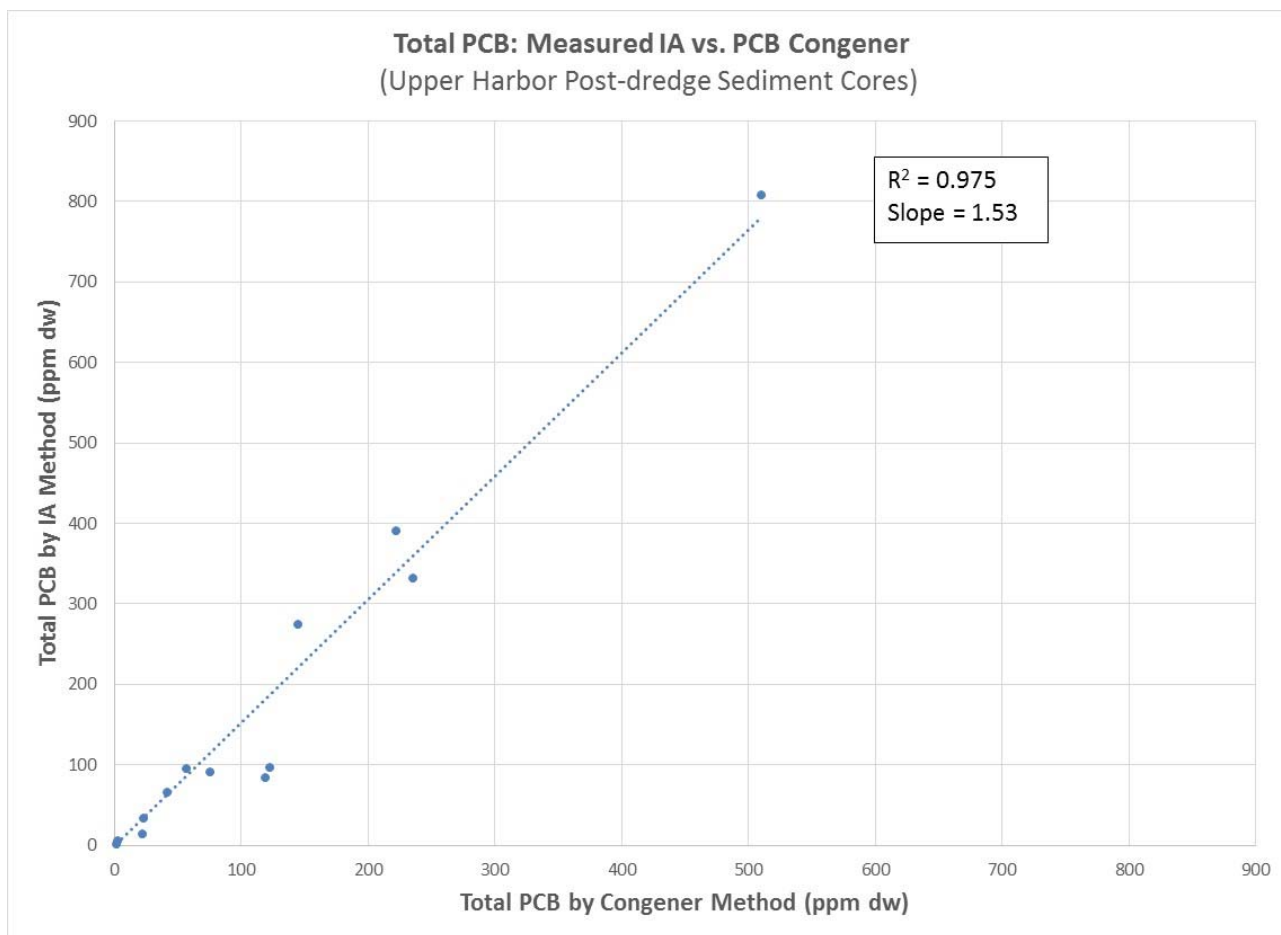


Figure 3-3. Relationship of the Total PCB Concentrations (ppm, dry weight) Measured in November 2014 Post-dredge Core Surface (0.0 – 0.5 foot) Sediment by the PCB Congener and IA Methods.

Chapter 4. DISCUSSION

Field monitoring data including thickness and elevation of the OL layer provided valuable reconnaissance information to USACE NAE and Jacobs Engineering to assess dredging performance. Visual characterization data for the July 2014 progress-dredge cores in Area R were used to help guide dredge operations in that area for the remainder of the season. Visual characterization data for the post-dredge cores collected after dredging was complete for the season indicated that OL material was present at approximately 90% of the dredge areas/locations, and where present the thickness of the OL layer ranged from 0.1 to 1.5 feet. PCB characterization of the post-dredge sediment surface indicated that total PCB concentrations varied widely (typically by two orders of magnitude) within and across the 2014 dredge areas. The majority of the post-dredge surface samples (approximately 90%) had total PCB concentrations above the target cleanup level (TCL, 10 ppm). In general, total PCB concentrations were below or near the TCL of 10 ppm at locations where the OL material was not observed on the post-dredge sediment surface, whereas samples with 0.1 foot or more of OL in the surface (0.0 to 0.5 foot) interval had total PCB concentrations above the TCL (Figure 4-1).

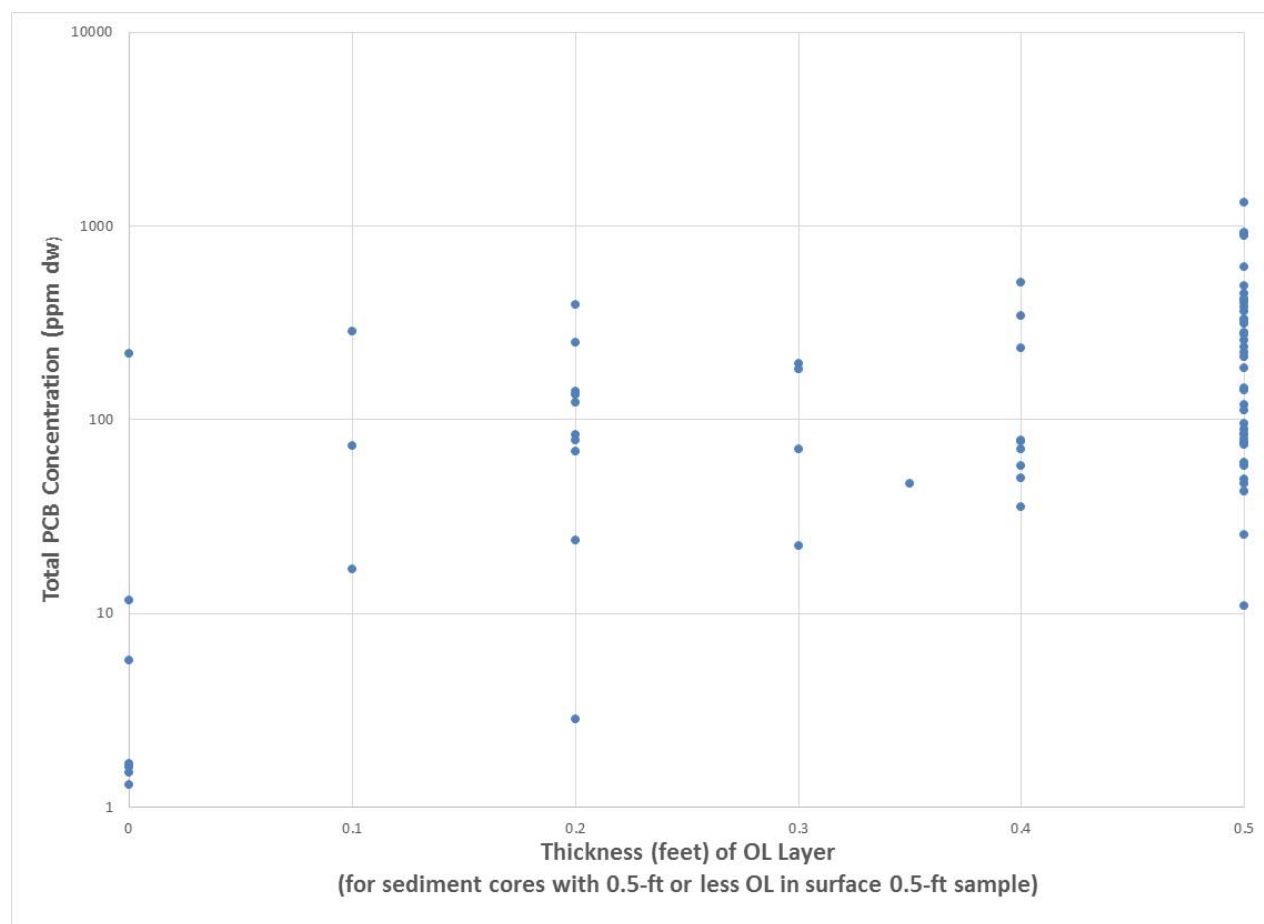


Figure 4-1. Relationship between Total PCB Concentrations (ppm, dry weight) Measured in July and November 2014 Post-dredge Core Surface (0.0 – 0.5 foot) Samples and the Sediment Thickness of the OL Layer (all samples with OL thickness of 0.5-ft or more are shown here as having 0.5-ft of OL in the surface 0.0 – 0.5 foot interval sample). Note Total PCB Concentrations shown on log scale.

CHAPTER 4. DISCUSSION

The detailed PCB congener data (n=13) show a relatively uniform PCB composition on the post-dredge sediment surface (Table 4-1). The PCBs appear to primarily originate from Aroclors 1242 and 1254. The PCB composition suggests a slightly greater contribution from Aroclor 1242 than 1254, with a PCB homolog and congener compositional distribution indicating about 60 to 75% Aroclor 1242 (i.e., LOC3 and LOC4 are the primary LOCs in these samples, much like the 75/25 mixture of Aroclors 1242/1254; Table 4-1). However, the PCBs in the post-dredge core samples may have undergone some dechlorination transformation, with lower-than-expected relative concentrations of some key congeners that are susceptible to dechlorination (e.g., PCB 33, 70, 87, and 105) and higher-than-expected relative concentrations of some congeners that are often dechlorination products (e.g., PCB 25, 26, and 49). These congener patterns could mean that the original PCB contamination in these sediments had a higher proportion of Aroclor 1254 than would be identified today (i.e., possibly more than 25 to 40% Aroclor 1254 estimated in these samples). This compositional distribution is also evident from the principal components analysis using detailed PCB congener data (Figure 4-2). These data analyses also show that the PCB composition of these samples do not neatly align with that of pure Aroclor formulations (i.e., the samples do not neatly cluster near or between Aroclor formulations in the PCA plot), also suggesting there may be environmental PCB transformation processes at work.

Table 4-1. PCB Homolog Percent Composition in Aroclor Mixtures and November 2014 Post-Dredge Core Samples

Aroclor and Post-dredge Cores	Percent Composition (a)									
	LOC 1	LOC 2	LOC 3	LOC 4	LOC 5	LOC 6	LOC 7	LOC 8	LOC 9	LOC 10
Aroclor-1221	97	0.79	0.43	0.90	0.21	0.11	0.13	0.05	0.01	0.00
Aroclor-1232	23	27	27	19	3.6	0.43	0.16	0.04	0.01	0.00
Aroclor-1016	0.74	17	55	27	0.58	0.01	0.00	0.00	0.00	0.00
Aroclor-1242	0.68	14	44	34	6.9	0.65	0.04	0.00	0.00	0.00
Aroclor-1248	0.05	1.4	21	56	19	1.8	0.14	0.03	0.01	0.00
Aroclor-1254	0.02	0.21	0.84	16	54	26	2.7	0.09	0.00	0.00
Aroclor-1260	0.02	0.16	0.40	0.69	10	44	36	8.4	0.83	0.09
Aroclor-1262	0.01	0.35	1.2	1.1	3.5	27	46	19	1.8	0.03
Aroclor-1268	0.00	0.00	0.03	0.09	0.09	0.11	4.9	42	46	6.5
Aroclor-1242/1254 (75/25)	0.52	10	33	30	19	6.9	0.70	0.02	0.00	0.00
Aroclor-1242/1254 (50/50)	0.35	7.1	22	25	31	13	1.4	0.04	0.00	0.00
Aroclor-1242/1254 (25/75)	0.18	3.6	12	21	42	19	2.0	0.07	0.00	0.00
LBB16	0.12	5.0	30	34	19	10	1.7	0.28	0.067	0.00
LS03	0.045	10	40	32	12	5.8	0.92	0.17	0.038	0.005
OI18	0.020	5.2	28	38	19	8.6	1.1	0.20	0.046	0.008
OP10	0.050	11	38	33	12	4.9	0.63	0.19	0.000	0.000
PCC15	0.064	4.29	27.5	31.4	22.9	11.4	1.98	0.422	0.122	0.026
PV5	0.064	9.63	38.7	30.6	13.7	6.12	0.90	0.186	0.051	0.010
RBB22	0.058	7.92	36.5	29.9	16.2	7.76	1.29	0.263	0.077	0.018
RCC14	0.041	5.6	31	32	20	9.6	1.5	0.26	0.063	0.010
RM26	0.056	7.2	35	32	17	7.1	1.2	0.20	0.044	0.000
RM26-REP	0.033	7.0	34	32	19	7.2	1.1	0.19	0.038	0.005
RN06	0.048	7.5	33	33	18	7.8	1.3	0.27	0.027	0.000
SO2	0.031	4.7	29	34	23	8.6	1.3	0.24	0.040	0.000
SO9	0.025	5.375	29	32	22.6	9.0	1.3	0.22	0.048	0.008

Note: major level of chlorination (LOC) is highlighted in orange, and secondary LOC in yellow

(a) LOC values represent the percentage of LOC_x to the total PCB, where LOC_x is the sum of the detected PCBs within a given level of chlorination (LOC; e.g., LOC1 = sum of target congeners with one chlorine, i.e., PCBs 1 and 3) and Total PCB is the sum of the detected 139 congeners. A value of zero used for non-detects.

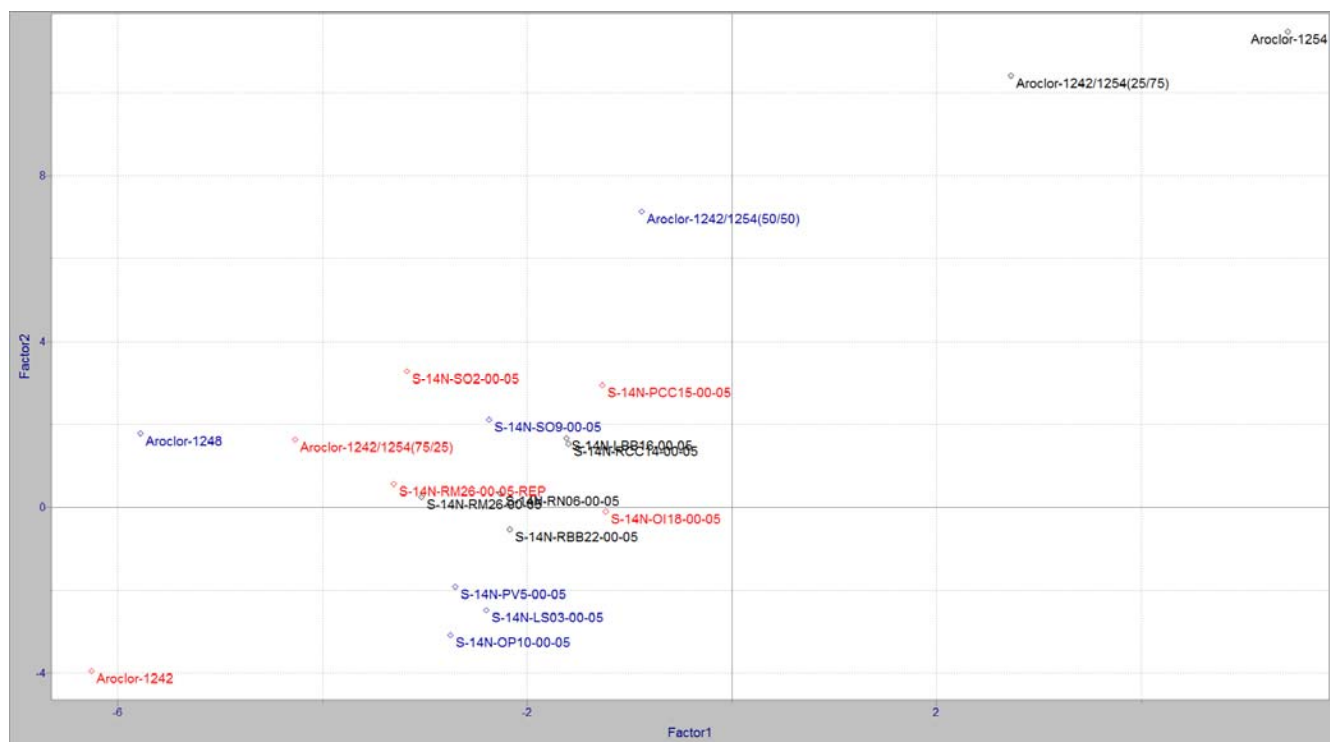


Figure 4-2. Principal Component Analysis of the PCB Congener Composition of the November 2014 Post-dredge Core Samples and Major Aroclor Formulation.

Chapter 5. Conclusions

Field monitoring data provided valuable reconnaissance information to USACE NAE and Jacobs Engineering to assess dredging performance and support future site planning efforts. Visual characterization of sediment cores collected after dredging was complete for the season indicated that OL was present at approximately 90% of the locations, and where present the thickness of the OL layer ranged from 0.1 to 1.5 feet. OL is associated with elevated concentrations of total PCB at the site, commonly at levels above the 10 ppm TCL. PCB characterization of surface sediment (0.0 to 0.5 foot interval) confirmed that total PCB concentrations were above the TCL (10 ppm) in all but one of the locations (Station PCC15) where 0.1 foot or more of OL was observed in the post-dredge sediment surface. Total PCB concentrations were generally below or near the TCL (10 ppm) at locations where OL was not visually observed in the post-dredge sediment surface. PCB characterization of a subset of the post-dredge sediment cores showed a relatively uniform PCB composition, comprised primarily of Aroclors 1242 and Aroclor 1254. The PCB composition of the post-dredge sediment samples also suggest that there may be environmental PCB transformation (e.g., dechlorination) processes at work.

Chapter 6. References

Battelle, 2015 (In Progress). Intertidal Pilot Study, Upper Harbor Post-Dredge Cores, and Lower Harbor Round 3 PCB Data Review, New Bedford Harbor Superfund Site.

Battelle, 2014a. Draft Final Upper Harbor Sediment Field Sampling Plan, Environmental Monitoring, Sampling, and Analysis, New Bedford Harbor Superfund Site, New Bedford, Massachusetts. Prepared under Contract W912WJ-12-D-0004 Task Order No 0010 for the U.S. Army Corps of Engineers New England District, Concord, MA. April.

Battelle, 2014b. Final Quality Assurance Project Plan Addendum Revision 7.0, Environmental Monitoring, Sampling, and Analysis, New Bedford Harbor Superfund Site, New Bedford, Massachusetts. Prepared under Contract W912WJ-12-D-0004 Task Order No 0010 for the U.S. Army Corps of Engineers New England District, Concord, MA. April.

Jacobs Engineering, 2015 (In Progress). 2014 Dredge Season Data Submittal, New Bedford Harbor Superfund Site.

WHG, 2013. Final Sediment Monitoring Summary Report, 2012 Remedial Dredging, New Bedford Harbor Superfund Site, OU #1. Prepared under Contract W912WJ-09-D-0001-0010-07 for the U.S. Army Corps of Engineers New England District, Concord, MA. May

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Appendix A

Field Sampling and Core Characterization Log Sheets

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July 2014

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Barrielle <i>The Business of Innovation</i>		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	POST-DREDGE
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: 0H2	Time On Station: 0839	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): 41.67357	Water Depth (A): 3.94 / 4.1	
Logged by: M. Walsh	Easting (NAD 83): -70.91461	Length of push core assembly (B): 8.0	
Collection Mechanism: Push-Core	GPS Accuracy: $\pm 3m$	Water surface to top of handle (C): 22.27 / 2.2	
Date: 7/17/14	Predicted Tide (ft): _____	Length of core (from bottom) (D): 1.45 / 1.4	
	Time of Collection: 0900	Surveyed elevation (NVGD 29) (E): 40	
Survey Type: Lower Harbor	Time Depart Station: 0907	Water surface from surveyed elevation (F): -0.2	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.6' 	ML v. fine sandy clay ML	Dark gray v. fine sandy claygy silt	Dark gray Dark gray mottled	medium	v. fine sand	No odor	S-14L-0H2-00-05	

File ID of digital photograph(s): _____
 Comments:

WP-009

1st Attempt not Accepted

2nd not Accepted

3rd Attempt Good - lost .1' off bottom

Visual - 0.0' - 0.2' OL

Striking bellow that

① ignore SMT 7/22/14

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	POST-DREDGE
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>OH10</u>	Time On Station: <u>0957</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>41.67303</u>	Water Depth (A): <u>4.6</u>	
Logged by: <u>M. WASH</u>	Easting (NAD 83): <u>-70.91461</u>	Length of push core assembly (B): <u>8.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>±3m</u>	Water surface to top of handle (C): <u>2.8</u>	
Date: <u>7/17/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.5</u>	
	Time of Collection: <u>1010</u>	Surveyed elevation (NVGD 29) (E): <u>4.0</u>	
Survey Type: Lower Harbor	Time Depart Station: <u>1018</u>	Water surface from surveyed elevation (F): <u>10.6</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.5'	OL OF ↓ ML	OF 0.3' Very fine sandy silty clay silt	Dark gray mottled	soft medium	v. fine sand	HL odor	S-14L- OH 10-00-05	shell lost

File ID of digital photograph(s): _____

Comments:

WP12

1st Attempt not Accepted

① S/B JMT 7/22/14

Visual - ~ 0.3' of OL, some smearing
below that

Page of

Battelle <i>The Business of Innovation</i>		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429		POST-DREDGE	
		Location: New Bedford, MA		Vessel: R/V Gale Force		Chief Scientist: Matt Fitzpatrick	
		Client: USACE NAE					

Station ID: 00118 0118	Time On Station: 1038	All measurements are ± 0.1 feet	
Core Sample ID:	Northing (NAD 83): 41.67247	Water Depth (A): 4.6	
Logged by: M. WALSH	Easting (NAD 83): -70.91452	Length of push core assembly (B): 8.0	
Collection Mechanism: Push-Core	GPS Accuracy: $\pm 3m$	Water surface to top of handle (C): 1.9	
Date: 7/12/14	Predicted Tide (ft):	Length of core (from bottom) (D): 1.5	
	Time of Collection: 1042	Surveyed elevation (NVGD 29) (E): 4.0	
Survey Type: Lower Harbor	Time Depart Station: 1045	Water surface from surveyed elevation (F): 1.6	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.0		silt	2.5/1	very soft	fine silts/clay	Acrid H ₂ S		Sample 0.0 - 0.7
0.5			mottled					mixed/mottled silt/clay
0.7								
		clay	4/1	soft	fine silt clay	none		Sample 0.7 - 1.5
1.5								

File ID of digital photograph(s):

Comments: **WP 014** **Visual: minor sampling ~ 0.0 - 0.7 OL**

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	POST-DREDGE
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>0508</u>	Time On Station: <u>1056</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>41.67316</u>	Water Depth (A): <u>5.5</u>	
Logged by: <u>M. Walsh</u>	Easting (NAD 83): <u>-70.91441</u>	Length of push core assembly (B): <u>8.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>±3m</u>	Water surface to top of handle (C): <u>0.9</u>	
Date: <u>7/17/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.35</u>	
	Time of Collection: <u>1059</u>	Surveyed elevation (NVGD 29) (E): <u>4.0</u>	
Survey Type: <u>Lower Harbor</u>	Time Depart Station: <u>1103</u>	Water surface from surveyed elevation (F): <u>1.9</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.2' ① 0.4' ① 0.5' ① _____ _____ _____ _____ _____ _____ _____ _____ _____	OH v.fine sandy clay silt clay ② silt	Dark gray	DK gray gray	soft mod. stiff	v.fine sand v.fine silt	HG	S-142-OSP8-00-10	④ clay increases w/ depth

File ID of digital photograph(s): _____

Comments: WP-015 Visual - 0.0 - 0.2 OL

① ignore JMR
7/22/14

[illegible]

Calculations for Determination of Z* Elevation

Page 1 of 1

[illegible]

[illegible]

Calculations for Determination of Z* Elevation

(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)

① Please ignore JMT 2/22/19

[illegible]

[illegible]

Battelle

The Business of Innovation

Project Name: New Bedford Harbor Environmental Monitoring

Location: New Bedford, MA

Client: USACE NAE

Project #: 100043429

Vessel: R/V Gale Force

Chief Scientist: Matt Fitzpatrick

POST-DREDGE

Station ID: ON20

Time On Station: 1341

All measurements are ±0.1 feet

Core Sample ID:

Northing (NAD 83): 41.67234

Water Depth (A): 6.3

Logged by: M. WAISH

Easting (NAD 83): 70.91406

Length of push core assembly (B): 9.0

Collection Mechanism: Push-Core

GPS Accuracy: ±3m

Water surface to top of handle (C): 1.1

Date: 7/12/14

Predicted Tide (ft):

Length of core (from bottom) (D): 1.4

Time of Collection: 1345

Surveyed elevation (NVGD 29) (E): 4.0

Survey Type: Lower Harbor

Time Depart Station: 1349

Water surface from surveyed elevation (F): 3.0

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): E - F

(H) Elevation of the bottom of the core (NVGD): G - (B - C)

(Z*) Elevation of visual transition (NVGD): H + (distance to visual transition)

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): H + D

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): G - A

(Note if I ≠ I₂ within ± 1.0 feet, discard and resample)

File ID of digital photograph(s):

Comments:

WP-024

Visual - ~ 0.0 - 0.2 of OL
some sheen on surface of core

Battelle <i>The Business of Innovation</i>		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429		POST-DREDGE	
		Location: New Bedford, MA		Vessel: R/V Gale Force			
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick			

Station ID: RP 30	Time On Station: 0814	All measurements are ± 0.1 feet	
Core Sample ID:	Northing (NAD 83): 41.66267	Water Depth (A): 8.3	
Logged by: M. Walsh	Easting (NAD 83): 70.91716	Length of push core assembly (B): 14.0	
Collection Mechanism: Push-Core	GPS Accuracy: $\pm 3m$	Water surface to top of handle (C): 3.4	
Date: 7/18/14	Predicted Tide (ft):	Length of core (from bottom) (D): 2.2	
	Time of Collection: 0820	Surveyed elevation (NVGD 29) (E): 4.0	
Survey Type: Lower Harbor	Time Depart Station: 0825	Water surface from surveyed elevation (F): -1.0	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments

File ID of digital photograph(s):

Comments: **WP 026** **Visual 0.0 - 0.8 OL**

[illegible]

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring			Project #: 100043429		POST-DREDGE	
		Location: New Bedford, MA			Vessel: R/V Gale Force			
		Client: USACE NAE			Chief Scientist: Matt Fitzpatrick			

Station ID:	<u>RM26</u>	Time On Station:	<u>0850</u>	All measurements are ± 0.1 feet	
Core Sample ID:		Northing (NAD 83):	<u>41.66293</u>	Water Depth (A):	<u>7.4</u>
Logged by:	<u>M. Walsh</u>	Easting (NAD 83):	<u>-70.91746</u>	Length of push core assembly (B):	<u>140</u>
Collection Mechanism:	<u>Push-Core</u>	GPS Accuracy:	<u>$\pm 3m$</u>	Water surface to top of handle (C):	<u>4.0</u>
Date:	<u>7/18/14</u>	Predicted Tide (ft):		Length of core (from bottom) (D):	<u>2.4</u>
		Time of Collection:	<u>0902</u>	Surveyed elevation (NVGD 29) (E):	<u>4.0</u>
Survey Type: Lower Harbor		Time Depart Station:	<u>0906</u>	Water surface from surveyed elevation (F):	<u>-0.8</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample) _____

Elevation (NVGD) (I.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments

File ID of digital photograph(s): _____

Comments: WP 028 Visual: no significant OL (none)

[illegible]

[illegible]

[illegible]

[illegible]
$$\begin{array}{r} 14.0 \\ 8.8 \\ \hline 5.2 \end{array} \quad \begin{array}{r} 5.2 \\ 3.0 \\ \hline 2.2 \end{array}$$

[illegible]

[illegible]

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	POST-DREDGE
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>RC02-DWP</u>	Time On Station: <u>1227</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>41.66460</u>	Water Depth (A): <u>7.4</u>	
Logged by: <u>M. WAISH</u>	Easting (NAD 83): <u>-70.91837</u>	Length of push core assembly (B): <u>14.0</u>	
Collection Mechanism: <u>Push-Core</u>	GPS Accuracy: <u>3.2</u>	Water surface to top of handle (C): <u>4.6</u>	
Date: <u>7/18/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.9</u>	
	Time of Collection: <u>1248</u>	Surveyed elevation (NVGD 29) (E): <u>4.0</u>	
Survey Type: <u>Lower Harbor</u>	Time Depart Station: <u>1254</u>	Water surface from surveyed elevation (F): <u>2.4</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments

File ID of digital photograph(s): _____

Comments: Visual: 0.0 - 0.6 of OL
spotty sheen on surface

[illegible]

[illegible]

[illegible]

Battelle <i>The Business of Innovation</i>		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429 POST-DREDGE					
		Location: New Bedford, MA		Vessel: R/V Gale Force					
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick					
Station ID:	RN18	Time On Station:	1456	All measurements are ±0.1 feet					
Core Sample ID:		Northing (NAD 83):	41.66350	Water Depth (A):	11.9				
Logged by:	M. Walsh	Easting (NAD 83):	-70.91734	Length of push core assembly (B):	15.0				
Collection Mechanism:	Push-Core	GPS Accuracy:	± 3.0	Water surface to top of handle (C):	1.1				
Date:	7/18/14	Predicted Tide (ft):		Length of core (from bottom) (D):	0.8-2.4				
		Time of Collection:	1505	Surveyed elevation (NVGD 29) (E):	4.0				
Survey Type: Lower Harbor		Time Depart Station:	1508	Water surface from surveyed elevation (F):	2.9				
Calculations for Determination of Z* Elevation									
(G) Elevation of Water Surface (NVGD): E - F									
(H) Elevation of the bottom of the core (NVGD): G - (B - C)									
(Z*) Elevation of visual transition (NVGD): H + (distance to visual transition)									
(I ₁) Elevation of the sediment-water interface as measured from bottom of core (NVGD): H + D									
(I ₂) Elevation of the sediment-water interface as measured from water depth (NVGD): G - A									
(Note if I ₁ ≠ I ₂ within ± 1.0 feet, discard and resample)									
	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
File ID of digital photograph(s):									
Comments: WP-044 Visual: 0.0 - 0.6' of OL									

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November 2014

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Station ID: **LBB07** Time On Station: **0750** All measurements are ± 0.1 feet
Core Sample ID: _____ Northing (NAD 83): **2704225.266** Water Depth (A): **3.6**
Logged by: **PDS** Easting (NAD 83): **815597.782** Length of push core assembly (B): **11.1**
Collection Mechanism: **Push-Core** / Vibracore GPS Accuracy: **1.7** Water surface to top of handle (C): **5.4**
Date: **11/20/14** Predicted Tide (ft): _____ Length of core (from bottom) (D): **2.0**
Survey Type: **Post** Time of Collection: **0800** Surveyed elevation (NVGD 29) (E): **1.980**
Lower Harbor Time Depart Station: **0805** Water surface from surveyed elevation (F): **0.0**

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.2	ML	Clayey Sandy Silt	Dark Gray GLY1 3/N	Very soft	Fine Sand	None		OL Layer S-14N-LBB07-00-05
1.0	SC	Sandy/ Clay	Dark Gray GLY1 3/N	Soft	Fine Sand	Slight HC		Native S-14N-LBB07-05-10
1.5	SC	Sandy Clay	Gray 2.5Y 2.5/1	Soft	Medium Sand	None		Native
2.0	OL	Organic Clayey Silt	Gray Brown 10YR 2/1	Soft	Fine Sand	Slight H ₂ S No H ₂ S 20-Nov-14		Native

File ID of digital photograph(s):

Comments:

0.0'-0.5' + 0.5'-1.0' sampled, all other material discarded

(1.1)

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: LBB16	Time On Station: 0830	All measurements are ± 0.1 feet
Core Sample ID: PDS	Northing (NAD 83): 2704000.525	Water Depth (A): 3.7
Logged by: PDS	Easting (NAD 83): 815600.022	Length of push core assembly (B): 11.1
Collection Mechanism: Push-Core / Vibracore	GPS Accuracy: 1.9	Water surface to top of handle (C): 6.3
Date: 11/20/14	Predicted Tide (ft): 	Length of core (from bottom) (D): 1.1
	Time of Collection: 0835	Surveyed elevation (NVGD 29) (E): 1.292
Survey Type: Lower Harbor Post	Time Depart Station: 0840	Water surface from surveyed elevation (F):

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.7	SW	Well Graded medium Sand	Gray Brown	Soft	medium Sand	None		Native S-14N-LBB16-00-05
1.1	SW	Well Graded Fine sand	Light Brown	medium stiff	Fine Sand	None		Native S-14N-LBB16-05-10

File ID of digital photograph(s):

Comments:

No OL Layer Present

0.0'-0.5' & 0.5'-1.0' sampled, all other material discarded

Station ID: **LS03** Time On Station: **0839** All measurements are ± 0.1 feet
Core Sample ID: **PDS** Northing (NAD 83): **2704322.534** Water Depth (A): **7.1**
Logged by: **PDS** Easting (NAD 83): **815373.947** Length of push core assembly (B): **11.1**
Collection Mechanism: **Push-Core / Vibracore** GPS Accuracy: **1.4** Water surface to top of handle (C): **1.7**
Date: **11/19/24** Predicted Tide (ft): **2.4** Length of core (from bottom) (D): **2.4**
Survey Type: **Post** Time of Collection: **0845** Surveyed elevation (NVGD 29) (E): **-0.188**
Lower Harbor Time Depart Station: **0850** Water surface from surveyed elevation (F): **0.0**

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.5	ML	clayey silt	Dark Gray Black (GLEY 2.5/1N)	Very soft	silt	HC		OL Layer S-14N-LS03-00-05
0.7	ML	clayey silt	Gray (GLEY 2.5/1N)	Very soft	silt	HC		OL Layer
2.4	CL	Silty clay	Gray (GLEY 1.5/1N)	Soft	silt	Slight H ₂ S		Native S-14N-LS03-07-12

File ID of digital photograph(s):

Comments: **Point MARK 129**

**0.0'-0.5' +0.7'-1.2' sampled, all other material
discarded**

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
Location: New Bedford, MA		Client: USACE NAE		Vessel: R/V Gale Force	
Station ID: LU07		Time On Station: 0853		All measurements are ± 0.1 feet	
Core Sample ID: PDS		Northing (NAD 83): 2904224.797		Water Depth (A): 6.2	
Logged by: PDS		Easting (NAD 83): 815424.664		Length of push core assembly (B): 11.1	
Collection Mechanism: Push-Core/Vibracore		GPS Accuracy: 1.3		Water surface to top of handle (C): 2.5	
Date: 11/19/14		Predicted Tide (ft):		Length of core (from bottom) (D): 2.5	
Survey Type: Post Lower Harbor		Time of Collection: 0859		Surveyed elevation (NVGD 29) (E): -6.521	
		Time Depart Station: 0904		Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.7	ML	Clayey Silt	Black GLY1 2.5/N	very soft	silt	None		OL Layer S-14N-LU07-00-05
1.4	CL	Silty clay	Gray GLY1 3/10Y	soft	silt	None		Native S-14N-LU07-07-12
2.2	CL	Silty clay	Gray GLY1 3/10Y	medium stiff	silt	None		Native
2.5	OL	organic Silty Clay	Brown 10YR 2/2	soft	silt	H ₂ S		Native root & rhizome material present

File ID of digital photograph(s):

Comments:

Point Mark 130

0.0'-0.5' + 0.7'-1.2' sampled; all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	
Station ID:	LU12	Time On Station:	0942	All measurements are ± 0.1 feet	
Core Sample ID:		Northing (NAD 83):	2704100.624	Water Depth (A):	5.5
Logged by:	PDS	Easting (NAD 83):	815426.062	Length of push core assembly (B):	11.1
Collection Mechanism:	Push-Core/Vibracore	GPS Accuracy:	1.4	Water surface to top of handle (C):	2.1
Date:	11/19/14	Predicted Tide (ft):	0.95	Length of core (from bottom) (D):	3.4
		Time of Collection:	6957	Surveyed elevation (NVGD 29) (E):	-0.843
Survey Type: Post	Lower Harbor	Time Depart Station:	1005	Water surface from surveyed elevation (F):	0.0

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	0.7		ML	clayey silt	Black GLEP1 2.5/N	very soft	silt	HC		OL Layer SN S-14N-LU12-00-05 PDS 19-Nov-14
	1.9		CL	Silty Clay	Gray GLEP1 3/10Y	soft	silt	H ₂ S		Native S-14N-LU12-07-12
	2.8		ML	Clayey Silt	GLEP1 2.5/N Dark Grey Black	very soft	silt	None		Native very watery, appears to be more water than Sedi
	3.2		CL	Silty Clay	Gray GLEP1 3/10Y	soft	silt	Slight H ₂ S		Native
	3.4		OL	Organic silty clay	Brown 10YR 2/2	soft	silt	H ₂ S		Native, root & rhizome material Present

File ID of digital photograph(s):

Comments: **Point MARK 133**

① WN m. wash

② WL m. wash

0.0' - 0.5' + 0.7' - 1.2' sampled all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: LY12	Time On Station: 0928	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): 2704072.812	Water Depth (A): 4.9	
Logged by: PDS	Easting (NAD 83): 815515.541	Length of push core assembly (B): 11.1	
Collection Mechanism: Push-Core Vibracore	GPS Accuracy: 1.2	Water surface to top of handle (C): 3.8	
Date: 11/19/14	Predicted Tide (ft): _____	Length of core (from bottom) (D): 2.4	
	Time of Collection: 0933	Surveyed elevation (NVGD 29) (E): -0.684	
Survey Type: Lower Harbor Post	Time Depart Station: 0938	Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	0.2	ML	clayey Silt	Black GLE42 2.5/N	Very Soft	Silt	Slight HC		OL Layer S-14N-LY12-00-05
	0.4	ML	clayey Silt	Gray GLE41 3/10Y	Very Soft	Silt	Slight HC		OL Layer some modeling of Black (GLE41 2.5/N) Sediment
	0.8	ML	clayey Silt	Gray GLE41 3/10Y	Very Soft	Silt	Slight HC		OL Layer some modeling of Black (GLE41 2.5/N) Sediment
	2.0	CL	Silty Clay	Gray GLE42 3/10Y	Soft	Silt	Slight H ₂ S		Native S-14N-LY12-08-13
	2.4	OL	organic Silty Clay	Brown 10YR 2/2	Soft	Silt	H ₂ S		Native Root + Rhizome Material present

File ID of digital photograph(s): _____

Comments: **Point Mark 132**

0.0' - 0.5' + 0.8' - 1.3' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	
Station ID:	LZ02	Time On Station:	0910	All measurements are ± 0.1 feet	
Core Sample ID:		Northing (NAD 83):	2704356.512	Water Depth (A):	3.9
Logged by:	PDS	Easting (NAD 83):	815548.613	Length of push core assembly (B):	11.0
Collection Mechanism:	Push-Core / Vibracore	GPS Accuracy:	1.5	Water surface to top of handle (C):	5.2
Date:	11/19/14	Predicted Tide (ft):		Length of core (from bottom) (D):	1.7
	Post	Time of Collection:	0917	Surveyed elevation (NVGD 29) (E):	-0.607
Survey Type: Lower Harbor		Time Depart Station:	0923	Water surface from surveyed elevation (F):	0.0

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	0.3	SW	Well Graded Fine Sand	Brown Gray 2.5Y 4/2	medium stiff	Fine sand	None		S-14N-LZ02-00-05 Native
	0.5	SP	Poorly Graded coarse sand	Brown Gray 2.5Y 3/1	medium stiff	small Gravel	None		S-14N-LZ02-05-10 Native
	1.9	SW	Well Graded Fine Sand	Light Brown 2.5Y 4/4	Hard	Fine sand	None		Native

File ID of digital photograph(s):

Comments:

No OL Layer

0.0' - 0.5' + 0.5' - 1.0' sampled all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>0410</u>	Time On Station: <u>1136</u>	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): <u>2706423.081</u>	Water Depth (A): <u>3.8'</u>
Logged by: <u>PDS</u>	Easting (NAD 83): <u>816098.022</u>	Length of push core assembly (B): <u>11.2'</u>
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>3.3</u>	Water surface to top of handle (C): <u>4.7'</u>
Date: <u>11/17/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.5'</u>
	Time of Collection: <u>1142</u>	Surveyed elevation (NVGD 29) (E): <u>0.658</u>
Survey Type: <u>Lower Harbor Post</u>	Time Depart Station: <u>1148</u>	Water surface from surveyed elevation (F): <u>0.0</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample) _____

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9	ML	clayey silt	Dark Gray Black GLEY 2-5% 2-5%	Very soft	silt	HC	S-14N-0410-00-05	OLLayer
2.5	CL	silty clay	Gray GLEY 3/N	soft	silt	None	S-14N-0410-09-14	Native

File ID of digital photograph(s): _____
 Comments: Point Mark 98
0.0 - 0.5 + 0.9 - 1.5 ^{1.4} sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>OH15</u>	Time On Station: <u>1150</u>	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): <u>1706300.784</u>	Water Depth (A): <u>5.3</u>
Logged by: <u>PDS</u>	Easting (NAD 83): <u>816102.420</u>	Length of push core assembly (B): <u>11.2</u>
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.6</u>	Water surface to top of handle (C): <u>3.6</u>
Date: <u>11/17/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.1</u>
	Time of Collection: <u>1156</u>	Surveyed elevation (NVGD 29) (E): <u>0.739</u>
Survey Type: <u>Lower Harbor Post</u>	Time Depart Station: <u>1203</u>	Water surface from surveyed elevation (F): <u>0.0</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.5	ML	clayey silt	Gray OLEY1 2.5/N	very soft	silt	HC	S-14N-OH15-00-05	OL Layer
0.7	ML	clayey silt	Gray OLEY1 3/N	very soft	silt	HC		OL Layer
2.1	CL	silty clay	Gray OLEY1 3/N	soft	silt	None	S-14N-OH15-07-12	Native

File ID of digital photograph(s): _____

Comments: Point Mark 99

0.0-0.5 + 0.7-1.2 sampled, all other material discarded

Battelle <i>The Business of Innovation</i>		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>0218</u>	Time On Station: <u>1208</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2706224.561</u>	Water Depth (A): <u>5.8</u>	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>816126.567</u>	Length of push core assembly (B): <u>11.2</u>	
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.5</u>	Water surface to top of handle (C): <u>3.7</u>	
Date: <u>11/17/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.6</u>	
	Time of Collection: <u>1215</u>	Surveyed elevation (NVGD 29) (E): <u>0.978</u>	
Survey Type: <u>Lower Harbor Post</u>	Time Depart Station: <u>1220</u>	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.5		ML	clayey silt	Gray GLEY 3/N	very soft	silt	HC	S-14N-0218-00-05	OL Layer
1.6		CL	silty clay	Gray GLEY 3/N	soft	silt	None	S-14N-0218-05-10	Native

File ID of digital photograph(s): _____

Comments:

0.0-0.5 + 0.5-1.0 sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: 015	Time On Station: 1115	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): 2706548.619	Water Depth (A): 5.0'
Logged by: PDS	Easting (NAD 83): 816126.377	Length of push core assembly (B): 11.2'
Collection Mechanism: Push-Core Vibracore	GPS Accuracy: 1.7	Water surface to top of handle (C): 4.0'
Date: 11/17/14	Predicted Tide (ft): _____	Length of core (from bottom) (D): 2.4'
	Time of Collection: 1128	Surveyed elevation (NVGD 29) (E): 0.822
Survey Type: Lower Harbor Post	Time Depart Station: 1133	Water surface from surveyed elevation (F): 0.0

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
①	0.65 0.8'	ML	Clayey Silt	Dark Gray 2.5Y 2.5/1	very soft	Silt	H ₂ C		OL Layer Sample-0.0-0.5 S-14N-015-00-05
①	1.35 1.5	CL	Silty Clay	Gray 2.5Y 3/1	soft	Silt	H ₂ S		sample 0.8-1.3 Native S-14N-015-08-13
①	2.4 2.55	CL	Silty clay	Gray 2.5Y 3/1	medium stiff	Silt	H ₂ S		Native

File ID of digital photograph(s): _____
 Comments: **Pointmark 97**
0.0-0.5, 0.8-1.3 Sampled, All other areas not Sampled

① Measurement was off by 0.15'. MRF 12/5/14

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: 0513-DWP	Time On Station: 1240	All measurements are ± 0.1 feet			
Core Sample ID: PDS	Northing (NAD 83): 2706349.305	Water Depth (A): 4.5			
Logged by: PDS	Easting (NAD 83): 816147.954	Length of push core assembly (B): 11.2			
Collection Mechanism: Push-Core/Vibracore	GPS Accuracy: 1.4	Water surface to top of handle (C): 5.0			
Date: 11/17/14	Predicted Tide (ft): 	Length of core (from bottom) (D): 1.7			
	Time of Collection: 1258	Surveyed elevation (NVGD 29) (E): 1.314			
Survey Type: Lower Harbor Post	Time Depart Station: 1302	Water surface from surveyed elevation (F): 0.0			

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.2	ML	Clayey Silt	Dark Gray Darker GLE12.5/N	Very Soft	Silt	organic		OL Layer S-14N-0513-00-05-REP
0.6	ML	Clayey Silt	Gray GLE1 3/N	Very Soft	Silt	organic		OL Layer
1.7	CL	Silty Clay	GLE1 3/N Gray	Soft	Silt	Slight Organic		S-14N-0513-06-01-REP Native

File ID of digital photograph(s):
 Comments: **point mark 103**

0.0-0.5 + 0.6 - 1.1 sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>OL 9</u>	Time On Station: <u>1305</u>	All measurements are ± 0.1 feet
Core Sample ID: <u>PDS</u>	Northing (NAD 83): <u>2706448.795</u>	Water Depth (A): <u>4.3</u>
Logged by: <u>PDS</u>	Easting (NAD 83): <u>816197.847</u>	Length of push core assembly (B): <u>10.4</u>
Collection Mechanism: <u>Push-Core/Vibracore</u>	GPS Accuracy: <u>2.1</u>	Water surface to top of handle (C): <u>3.0</u>
Date: <u>11/17/14</u>	Predicted Tide (ft): <u></u>	Length of core (from bottom) (D): <u>1.8</u>
	Time of Collection: <u>1316</u>	Surveyed elevation (NVGD 29) (E): <u>1.661</u>
Survey Type: <u>Lower Harbor</u> <u>POSE</u>	Time Depart Station: <u>1324</u>	Water surface from surveyed elevation (F): <u>0.0</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

#	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
②	0.8 0.9	ML	Clayey Silt	Dark Gray Black GLEYS 2.5/N	Very Soft	Silt	HC		S-14N-069-CO-05 OL Layer
②	1.8 1.9	CL	Silty Clay	Gray GLEYS 3/N	Soft	Silt	None		S-14N-069-09-14 Native

File ID of digital photograph(s):
 Comments: Point mark 104
① Wn m.wash
0-0.5 + 0.9-1.4 sampled, all other
material discarded
② measurement was off by 0.1' MRF 12/5/14

Calculations for Determination of Z Elevation*

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

File ID of digital photograph(s):

Comments: Print Mark 105
106

0.0-0.5 + 0.5-1.0 Sampled all other
material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	
Station ID:	OP10-DWP	Time On Station:	1326	All measurements are ± 0.1 feet	
Core Sample ID:		Northing (NAD 83):	2706424.727	Water Depth (A):	4.5
Logged by:	PDS	Easting (NAD 83):	616295.868	Length of push core assembly (B):	9.6
Collection Mechanism:	Push-Core/Vibracore	GPS Accuracy:	1.8	Water surface to top of handle (C):	3.1
Date:	11/17/14	Predicted Tide (ft):		Length of core (from bottom) (D):	1.9
		Time of Collection:	1346	Surveyed elevation (NVGD 29) (E):	1.439
Survey Type: Lower Harbor Post		Time Depart Station:	1350	Water surface from surveyed elevation (F):	

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.2		ML	Silty ①	Gray ①	very soft	Silt	HC		over PDS 18-Nov-14 OL Layer ②
0.4		ML	Clayey Silt	Gray GLEY 1 3/N	Soft	Silt	HC	S-14N-OP10-00-05-REP	OL Layer
1.07		CL	Silty Clay	Gray GLEY 1 3/N	Stiff	Silt	Slight H ₂ S	S-14N-OP10-05-10-REP	Native
1.09		CL	Silty Clay	Gray GLEY 1 3/N	Stiff	Silt	Slight H ₂ S		Native organic material present

File ID of digital photograph(s):

Comments:

Point Mark 106

① Clayey Silt, Dark Gray Black GLEY 12.5/N,

0-0.5 to 0.5-1.0 sampled, all other material discarded

Page ___ of ___

② small amount of organic material present

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>0J13</u>	Time On Station: <u>1240</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2706348.329</u>	Water Depth (A): <u>4.3</u>	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>816149.817</u>	Length of push core assembly (B): <u>11.2</u>	
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.5</u>	Water surface to top of handle (C): <u>4.4</u>	
Date: <u>11/17/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.45</u>	
	Time of Collection: <u>1243</u>	Surveyed elevation (NVGD 29) (E): <u>1.037</u>	
Survey Type: <u>Lower Harbor</u> <u>Post</u>	Time Depart Station: <u>1248</u> <u>1302</u>	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
①	0.45 0.5	ML	Clayey Silt	Black Dark Gray GLEY 12.5/N	Very Soft	Silt	Slight HC		OL Layer S-14N-0513-00-05
①	0.9 0.85	ML	Clayey Silt	Gray GLEY 13/N	Very Soft	Silt	Slight HC		OL Layer
									S-14N-0513-09-14
①	2.45 2.5	CL	Silty Clay	GLEY 1 3/N Gray	Soft	Silt	None		Native

File ID of digital photograph(s): _____

Comments: Point MARK 102

① WN M. WASH

0.0-0.5 + 0.9-1.4 sampled, all other material discarded

① Measurement was off by 0.05'

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>OP18</u>	Time On Station: <u>1225</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2706222.323</u>	Water Depth (A): <u>9.0</u>	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>816296.006</u>	Length of push core assembly (B): <u>9.4</u>	
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.4</u>	Water surface to top of handle (C): <u>3.8</u>	
Date: <u>11/12/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.7</u>	
	Time of Collection: <u>1228</u>	Surveyed elevation (NVGD 29) (E): <u>1.165</u>	
Survey Type: <u>Lower Harbor Post</u>	Time Depart Station: <u>1232</u>	Water surface from surveyed elevation (F): <u>6.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
① 0.2 0.3		ML	Clayey Silt	Dark Gray Black GLE1 2.5/N	Very Soft	Silt	HC	S-14N-OP18-00-05	OL Layer
① 0.4 0.5		ML	Clayey Silt	Gray GLE1 3/N	Very Soft	Silt	HC	8	OL Layer
① 1.8 1.7		CL	Silty Clay	GLE1 3/N Gray	Soft	Silt	None	S-14N-OP18-05-10	Native

File ID of digital photograph(s): _____

Comments: Paint Mark 101

0.0-0.5 + 0.5-1.0 sampled, all other material discarded

① measurement was off by 0.1'. MRF 12/5/14

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
Location: New Bedford, MA		Vessel: R/V Gale Force		Chief Scientist: Matt Fitzpatrick	
Client: USACE NAEE					
Station ID: PCC15	Time On Station: 1335	All measurements are ± 0.1 feet			
Core Sample ID: PDS	Northing (NAD 83): 2703523.493	Water Depth (A): 5.4			
Logged by: PDS	Easting (NAD 83): 815725.950	Length of push core assembly (B): 11.1			
Collection Mechanism: Push-Core/Vibracore	GPS Accuracy: 1.7	Water surface to top of handle (C): 2.6			
Date: 11/18/14	Predicted Tide (ft): 1.7	Length of core (from bottom) (D): 3.1			
Survey Type: Lower Harbor Post	Time of Collection: 1345	Surveyed elevation (NVGD 29) (E): 0.166			
	Time Depart Station: 1350	Water surface from surveyed elevation (F): 0.0			

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.2	ML	Clayey Silt	Gray 2.5Y 3/1	Very soft	Silt	None		OL Layer S-14N-PCC15-00-05
1.0	SW	Well Graded Sand	Light Brown 2.5Y 4/2	medium stiff	Fine Sand	None		Native S-14N-PCC15-05-10
1.1			①					Native
3.1	SW	Well Graded very Fine sand	Light Brown 2.5Y 5/4	Very Stiff	Fine Sand	None		Native

File ID of digital photograph(s):

Comments:

① SW, well graded coarse sand, light brown, 2.5Y 4/2, medium stiff, coarse sand, None

0'-0.5' + 0.5' - 1.0' sampled, all other material discarded

Station ID: PP2	Time On Station: 1245	All measurements are ± 0.1 feet
Core Sample ID: PDS	Northing (NAD 83): 2703845.569	Water Depth (A): 7.1
Logged by: PDS	Easting (NAD 83): 815400.44	Length of push core assembly (B): 12.1
Collection Mechanism: Push-Core / Vibracore	GPS Accuracy: 1.3	Water surface to top of handle (C): 1.0
Date: 11/18/14	Predicted Tide (ft):	Length of core (from bottom) (D): 3.8
Survey Type: Lower Harbor Post	Time of Collection: 1250	Surveyed elevation (NVGD 29) (E): -0.391
	Time Depart Station: 1300	Water surface from surveyed elevation (F): 0.0

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
ML PDS 19-Nov-14	ML Clayey Silt 19-Nov-14	Clayey Silt	Modelled Gray Black ①	Very Soft	Silt	Slight HC		OL Layer S-14N-PP2-00-05
CL PDS 19-Nov-14	CL Silty Clay	Silty Clay	Gray GLE Y1 3/10 Y	Soft	Silt	Slight H₂S		S-14N-PP2-11-16 Native
3.8'								

File ID of digital photograph(s):

Comments:

① Black GLE Y1 2.5/N, Gray GLE Y1 3/10 Y

0'-0.5' to 1.0' - 1.6' Sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>PQ5</u>	Time On Station: <u>1305</u>	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): <u>2703774.215</u>	Water Depth (A): <u>8.2</u>
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815427.311</u>	Length of push core assembly (B): <u>11.1</u>
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.9</u>	Water surface to top of handle (C): <u>0.7</u>
Date: <u>11/18/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.2</u>
	Time of Collection: <u>1305</u>	Surveyed elevation (NVGD 29) (E): <u>-0.125</u>
Survey Type: <u>Lower Harbor Post</u>	Time Depart Station: <u>1310</u>	Water surface from surveyed elevation (F): <u>0.0</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.3	ML	clayey silt	Dark Gray Black GREY 2.5/10	Very Soft	Silt	Slight HC		OL Layer S-14N-PQ5-00-05
2.2	CL	Silty Clay	Gray GREY 3/10	Soft	Silt	None		S-14N-PQ5-05-10 Native

File ID of digital photograph(s): _____

Comments:

0.0'-0.5' + 0.5'-1.0' sampled all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>PR 10</u>	Time On Station: <u>1320</u>	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): <u>2703648.535</u>	Water Depth (A): <u>8.69</u>
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815450.533</u>	Length of push core assembly (B): <u>11.211</u>
Collection Mechanism: <u>Push-Core</u> Vibracore	GPS Accuracy: <u>1.4</u>	Water surface to top of handle (C): <u>1.0</u>
Date: <u>11/19/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>3.2</u>
	Time of Collection: <u>1325</u>	Surveyed elevation (NVGD 29) (E): <u>0.059</u>
Survey Type: <u>Lower Harbor</u> <u>Post</u>	Time Depart Station: <u>1330</u>	Water surface from surveyed elevation (F): <u>0.0</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0	CL	Silty Clay	Gray GLEY1 3/10%	Soft	Silt	None		Native S-14N-PR10-00-05
1.4	ML	Clayey Silt	Black GLEY1 205/N	very soft	Silt	None		Native S-14N-PR10-05-10
2.3	CL	Silty Clay	Gray GLEY1 3/10%	Soft	Silt	None		Native
3.2	CL	Silty Clay	Gray GLEY1 3/10%	very Soft	Silt	None		Native

File ID of digital photograph(s): _____
 Comments:
 No OL Layer, sampled 0.0' - 0.5' + 0.5' - 1.0', all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: PV9	Time On Station: 1405	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): 2703675.596	Water Depth (A): 6.4	
Logged by: PDS	Easting (NAD 83): 815525.15	Length of push core assembly (B): 11.1	
Collection Mechanism: Push-Core / Vibracore	GPS Accuracy: 1.5	Water surface to top of handle (C): 2.2	
Date: 11/18/14	Predicted Tide (ft): _____	Length of core (from bottom) (D): 2.4	
	Time of Collection: 1410	Surveyed elevation (NVGD 29) (E): 0.489	
Survey Type: Lower Harbor Post	Time Depart Station: _____	Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Sample IDs should be
 '-PU9', not '-PV9'.
 DTDahlen 4/16/2015

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.5	ML	Clayey Silt	Dark Gray Black GLE41 2.5/N	Very Soft	Silt	Slight HC		OL Layer S-14N-PV9-00-05
1.5'	CL	Silty Clay	Gray GLE41 3/10X ①	Soft	Silt	H ₂ S		Native S-14N-PV9-06-11
2.4 3.4	SC	Silty Clay	Gray GLE41 3/10X	Soft	Fine sand	None		Native

File ID of digital photograph(s): _____
 Comments:

① Some streaks of Black GLE41 2.5/N
 0.0-0.5' + 0.5' - 1.0' sampled, all other material discarded
 1.1

② s/b 2.4 mrf 12/5/14 Page ____ of ____

- Large Rock at 0.5 0.4-0.5, moved archive sample
 PDS
 15-Nov-14 down to 0.6-1.1'

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
Location: New Bedford, MA		Client: USACE NAE		Vessel: R/V Gale Force	
Station ID: PV5		Time On Station: 1415		All measurements are ± 0.1 feet	
Core Sample ID: PDS		Northing (NAD 83): 2703774.928		Water Depth (A): 5.7	
Logged by: PDS		Easting (NAD 83): 815557.309		Length of push core assembly (B): 11.1	
Collection Mechanism: Push-Core/Vibracore		GPS Accuracy: 1.5		Water surface to top of handle (C): 3.1	
Date: 11/18/14		Predicted Tide (ft): 1420		Length of core (from bottom) (D): 2.3	
Survey Type: Lower Harbor Post		Time of Collection: 1420		Surveyed elevation (NVGD 29) (E): 0.690	
		Time Depart Station: ---		Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.3	POS 11-Nov-14 ML	Clayey Silt	Gray GLE1 3/10/0	very soft	Silt	Slight HC		OL Layer S-14N-PV5-00-05
2.3	SC PDS 19-Nov-14	Sandy Clay	Gray GLE1 3/10/0	Soft	Fine Sand	None		S-14N-PV5-05-10 Native

File ID of digital photograph(s):

Comments:

① Some black material on surface and some streaking of Black (GLE1 2.5/N)

0.0' - 0.5' + 0.5' - 1.0' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: PW13	Time On Station: 1355	All measurements are ± 0.1 feet	
Core Sample ID:	Northing (NAD 83): 270357966	Water Depth (A): 7.1	
Logged by: PDS	Easting (NAD 83): 815575.049	Length of push core assembly (B): 11.1	
Collection Mechanism: Push-Core / Vibracore	GPS Accuracy:	Water surface to top of handle (C): 2.0	
Date: 11/18/14	Predicted Tide (ft):	Length of core (from bottom) (D): 2.1	
	Time of Collection: 1400	Surveyed elevation (NVGD 29) (E): 0.224	
Survey Type: Post	Time Depart Station:	Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
① 0.4 0.5		ML	clayey silt	Dark Gray GLEY2 2.5/N	very soft	silt	Slight HC		OL Layer S-14N-PW13-00-05
① 1.0 1.1		SC	Sandy clay	Gray GLEY1 3/10R	soft	Fine sand	none		S-14N-PW13-05-10 Native
① 2.1 2.2		SC	Sandy Clay	Brown 10YR 3/2	soft	Fine Sand	None		Native

File ID of digital photograph(s):

Comments:

0.0'-0.5' + 0.5'-1.0' sampled, all other material discarded

① Measurement was off by 0.1'. MRF 12/5/14

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>RBB22</u>	Time On Station: <u>1100</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2902850.736</u>	Water Depth (A): <u>4.1</u>	
Logged by: <u>SPS</u>	Easting (NAD 83): <u>815730.375</u>	Length of push core assembly (B): <u>11.1</u>	
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.3</u>	Water surface to top of handle (C): <u>4.6</u>	
Date: <u>11/19/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.4</u>	
	Time of Collection: <u>1105</u>	Surveyed elevation (NVGD 29) (E): <u>-1.189</u>	
Survey Type: <u>Lower Harbor</u> <u>POST</u>	Time Depart Station: <u>1110</u>	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z^{*} Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z^{*}) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample) _____

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.2	ML	clayey silt	black gray 2.5N	very soft	silt	None		OK Layer S-14N-RBB22-00-05 large amount of this ran out of core upon opening
2.4	CL	Silty clay	Gray gray GLEP1 3/10Y	Soft	very fine sand	Slight H ₂ S		S-14N-RBB22-05-05 Native

File ID of digital photograph(s): _____

Comments:
Point Mark 137
0.0' - 0.5' + 0.5' - 1.0' Sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>RCC10</u>	Time On Station: <u>1031</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2703151.558</u>	Water Depth (A): <u>5.5</u>	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815757.322</u>	Length of push core assembly (B): <u>11.1</u>	
Collection Mechanism: <u>Push-Core Vibracore</u>	GPS Accuracy: <u>1.3</u>	Water surface to top of handle (C): <u>3.3</u>	
Date: <u>11/19/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.3</u>	
	Time of Collection: <u>1034</u>	Surveyed elevation (NVGD 29) (E): <u>-1.100</u>	
Survey Type: <u>Lower Harbor</u> <u>BST</u>	Time Depart Station: <u>1040</u>	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
① 0.7 <u>0.8</u>		ML	clayey Silt	Dark Gray GLE1 2.5/IN	Very Soft	Silt	None		OL Layer RDS19-Nov-14 S-14N-RCC10-08-05
① 1.0 <u>1.1</u>		SC	Sandy clay	Dark Gray GLE1 3/10Y	Soft	Fine sand	None		Native S-14N-RCC10-08-13
① 1.6 <u>1.7</u>		CL	Silty clay	Gray GLE1 3/10Y	Soft	Silt	None		Native
① 2.0 <u>2.1</u>		SC	Sandy clay	Gray GLE2 3/10Y	Soft	Fine sand	None		Native
① 2.3 <u>2.4</u>		CL	Silty clay	Gray Brown 10YR 3/2	Soft	Silt	None		Native

File ID of digital photograph(s): _____
 Comments: Point Mark 135

0.0'-0.5' + 0.8'-1.3' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>RCC14</u>	Time On Station: <u>1043</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2703048.855</u>	Water Depth (A): <u>5.6</u> 4.6	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815747.337</u>	Length of push core assembly (B): <u>11.1</u>	
Collection Mechanism: <u>Push-Core</u> Vibracore	GPS Accuracy: <u>1.3</u>	Water surface to top of handle (C): <u>3.4</u>	
Date: <u>11/19/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>3.0</u>	
	Time of Collection: <u>1049</u>	Surveyed elevation (NVGD 29) (E): <u>-1.257</u>	
Survey Type: <u>Lower Harbor</u> <u>POST</u>	Time Depart Station: <u>1057</u>	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9	ML	Clayey Silt	Dark Gray Black GLEY1 2.5/N	Very Soft	Silt	HC		OL Layer S-14N-RCC14-00-05 Shell hash S-14N-RCC14-09-14
3.0	CL	Silty Clay	Gray GLEY1 3/10Y ①	Soft	Silt	Slight H ₂ S		Native ① Black deposit @ 1.0' - 1.1', organic deposit

File ID of digital photograph(s): _____
 Comments: Paint Mark 136
OWN M. Walsh
0.0-0.5' + 0.9' - 1.4' Sampled, all other material discarded

Battelle <i>The Business of Innovation</i>		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: RDD02	Time On Station: 0810	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): 2703350.102	Water Depth (A): 5.4	
Logged by: PDS	Easting (NAD 83): 815787.253	Length of push core assembly (B): 11.2	
Collection Mechanism: Push-Core / Vibracore	GPS Accuracy: 1.7	Water surface to top of handle (C): 3.5	
Date: 11/18/14	Predicted Tide (ft): _____	Length of core (from bottom) (D): 2.2	
	Time of Collection: 08:15	Surveyed elevation (NVGD 29) (E): 1.582	
Survey Type: Lower Harbor Post	Time Depart Station: 08:20	Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I₁) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if $I_1 \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.6		ML	Clayey Silt	Dark Gray GLEY1 2.5/N	Very Soft	Silt	HC		OL Layer S-14N-RDD02-06-05
2.2		CL	Silty Clay	Gray GLEY1 3/N	Soft	Silt			S-14N-RDD02-06-11 Slight Native H ₂ S

File ID of digital photograph(s): _____

Comments:

0.0'-0.5' + 0.6'-1.1' Sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	
Station ID:	REE06	Time On Station:	1617	All measurements are ± 0.1 feet	
Core Sample ID:		Northing (NAD 83):	2703260.448	Water Depth (A):	3.7
Logged by:	PDS	Easting (NAD 83):	815808.861	Length of push core assembly (B):	11.2 ^{11.0}
Collection Mechanism:	Push-Core Vibracore	GPS Accuracy:	1.3	Water surface to top of handle (C):	5.2
Date:	11/19/14	Predicted Tide (ft):		Length of core (from bottom) (D):	2.2
		Time of Collection:	1020	Surveyed elevation (NVGD 29) (E):	-1.023
Survey Type: Lower Harbor POST		Time Depart Station:	1026	Water surface from surveyed elevation (F):	0.0

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
①	0.4 0.5	ML	clayey silt	Black GREY2 2.5/N	Very Soft	Silt	H ₂ S		OL Layer S-14N-REE06-00-05
②	2.2 2.3	CL	Silty clay	Gray GREY1 2.5/10Y ↓ 3/10Y ①	Soft	Silt	H ₂ S		NATIVE S-14N-REE06-05-10 Dark Black spot at 1.0-1.1', organic matter decomposing

File ID of digital photograph(s):

Comments: **Point Mark 134**

① **OWN M. WALSH**

② **Gradual change over length of core segment**

0.0-0.5'-0.5'-1.0' Sampled, all other material discarded

Page of

③ **measurement off by 0.1'. MRF 12/5/14**

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>RF07</u>	Time On Station: <u>0840</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2703226.732</u>	Water Depth (A): <u>8.1</u>	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815179.583</u>	Length of push core assembly (B): <u>11.2</u>	
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.3</u>	Water surface to top of handle (C): <u>0.4</u>	
Date: <u>11/18/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.6</u>	
	Time of Collection: <u>0900</u>	Surveyed elevation (NVGD 29) (E): <u>0.709</u>	
Survey Type: <u>Lower Harbor Post</u>	Time Depart Station: <u>0905</u>	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I₁) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if $I_1 \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.7	ML	Clayey Silt	Black Dark Gray GLEYS 2.5/N	Very Soft	Silt	HC	S-14N-RF07-00-05	OL Layer
2.6	CL	Silty Clay	Gray GLEYS 3/N	Soft	Silt	Slight H ₂ S	S-14N-RF07-07-12	Native

File ID of digital photograph(s): _____

Comments:

0.0'-0.5'+0.7'-1.2' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	
Station ID:	RF11	Time On Station:	0910	All measurements are ±0.1 feet	
Core Sample ID:		Northing (NAD 83):	2703121.237	Water Depth (A):	5.9
Logged by:	PDS	Easting (NAD 83):	815172.147	Length of push core assembly (B):	11.1
Collection Mechanism:	Push-Core / Vibracore	GPS Accuracy:	1.5	Water surface to top of handle (C):	3.1
Date:	11/18/14	Predicted Tide (ft):		Length of core (from bottom) (D):	2.1
		Time of Collection:	0915	Surveyed elevation (NVGD 29) (E):	0.558
Survey Type: Lower Harbor	AST	Time Depart Station:	0920	Water surface from surveyed elevation (F):	0.0

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.8			ML	Clayey Silt	Gray GLE4 3/N	Very Soft	Silt	Slight H ₂ S		OL Layer S-14N-RF11-00-05
2.1			CL	Silty clay	Gray GLE4 3/N	Soft	Silt	Slight H ₂ S		S-14N-RF11-08-13 Native

File ID of digital photograph(s): _____

Comments:

large shell @ 1.4 - 1.7 ft

0.0' - 0.5' + 0.8' - 1.3' sampled, all other material

discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>RF31</u>	Time On Station: <u>0850</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2702630.693</u>	Water Depth (A): <u>3.8</u>	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815174.688</u>	Length of push core assembly (B): <u>11.1</u>	
Collection Mechanism: <u>Push-Core/Vibracore</u>	GPS Accuracy: <u>1.5</u>	Water surface to top of handle (C): <u>3.9</u>	
Date: <u>11/20/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>3.2</u>	
	Time of Collection: <u>0855</u>	Surveyed elevation (NVGD 29) (E): <u>1.009</u>	
Survey Type: Lower Harbor	Time Depart Station: _____	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I₁) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if $I_1 \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9	ML	clayey silt	Black GLE4 2.5/N	Very Soft	silt	HC		OL Layer S-14N-RF31-00-05
3.2	CL	silty clay	Olive Gray 220-NAD #0514 GLE4 3/10Y	Soft	silt	Slight H ₂ S		Native S-14N-RF31-09-14

File ID of digital photograph(s): _____
 Comments:
0.0' - 0.5' + 0.9' - 1.4' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring Location: New Bedford, MA Client: USACE NAE		Project #: 100043429 Vessel: R/V Gale Force Chief Scientist: Matt Fitzpatrick	
Station ID:	R601	Time On Station:	0825	All measurements are ±0.1 feet	
Core Sample ID:		Northing (NAD 83):	2703365.33	Water Depth (A): 6.1	
Logged by:	PDS	Easting (NAD 83):	815190.95	Length of push core assembly (B): 11.2	
Collection Mechanism:	Push-Core / Vibracore	GPS Accuracy:	1.4	Water surface to top of handle (C): 2.0	
Date:	11/18/14	Predicted Tide (ft):		Length of core (from bottom) (D): 2.7	
Survey Type: Lower Harbor Post		Time of Collection:	0830	Surveyed elevation (NVGD 29) (E): 0.496	
		Time Depart Station:	0835	Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): E - F _____

(H) Elevation of the bottom of the core (NVGD): G - (B - C) _____

(Z*) Elevation of visual transition (NVGD): H + (distance to visual transition) _____

(I₁) Elevation of the sediment-water interface as measured from bottom of core (NVGD): H + D _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): G - A _____

(Note if I₁ ≠ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.4' - 0.6'	ML	Clayey silt	Gray GLEY 2 3/N	very soft	silt	H ₂ S		OL Layer S-14N-R601-00-05
0.6' - 1.6'	CL	Silty Clay	Gray GLEY 1 3/N	soft	silt	H ₂ S		Native S-14N-R601-05-10
1.6' - 2.1'	CL	Silty Clay	Gray GLEY 1 3/N	very soft	silt	H ₂ S		Native
2.1' - 2.7'	CL	Silty Clay	Gray GLEY 1 3/N	soft	silt	H ₂ S		Native

File ID of digital photograph(s): _____

Comments:
 0.0 - 0.6 + 0.6 - 1.0 sampled, all other material discarded
 PDS 18-Nov-14 PDS 18-Nov-14 PDS 18-Nov-14

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>R624</u>	Time On Station: <u>1025</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2702801.487</u>	Water Depth (A): <u>3.4</u>	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815209.354</u>	Length of push core assembly (B): <u>11.1</u>	
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.4</u>	Water surface to top of handle (C): <u>4.3</u>	
Date: <u>11/18/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>3.4</u>	
	Time of Collection: <u>1030</u>	Surveyed elevation (NVGD 29) (E): <u>-0.015</u>	
Survey Type: <u>Lower Harbor</u> <u>Post</u>	Time Depart Station: <u>1050</u>	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9	SW	Well Graded Gravelly Sand	Black GLE41 2.5/N	medium Stiff	Small Gravel	HC	S-14N-R624-00-05 S-14N-R624-05-10	
1.4	SC	Sandy Clay	Black GLE41 2.5/N	Soft	Fine Sand	HC		
2.0	SW	Well Graded Sand	Black GLE41 2.5/N	Soft	Fine sand	HC		
3.0	SC	Sandy Clay	Black GLE41 2.5/N	Soft	Fine sand	HC	S-14N-R624-29-34	
3.4	CL	Silty Clay	Black GLE41 2.5/N	Soft	Silt	HC		Organic material present

File ID of digital photograph(s): _____
 Comments:

2.9-3.4, 0.0'-0.5', 0.5'-1.0' sampled, all other material discarded
 core did not follow expected sediment composition

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>RG22</u>	Time On Station: <u>1405</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2702852.097</u>	Water Depth (A): <u>2.5</u>	
Logged by: <u>PPS</u>	Easting (NAD 83): <u>815863.463</u>	Length of push core assembly (B): <u>11.1</u>	
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>15</u>	Water surface to top of handle (C): <u>7.0</u>	
Date: <u>11/20/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.6</u>	
	Time of Collection: <u>1415</u>	Surveyed elevation (NVGD 29) (E): <u>-0.058</u>	
Survey Type: <u>Lower Harbor Post</u>	Time Depart Station: _____	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample) _____

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.3	SW	Well Graded medium sand	Gray Brown 2.5Y 3/1	Very Soft	medium sand	None		Native S-14N-RG22-00-05
1.6	SW	Well Graded Fine sand	Light Brown 2.5Y 4/3	Stiff	Fine Sand	None		Native S-14N-RG22-05-10

File ID of digital photograph(s): _____
 Comments:

0-0.5' + 0.5' - 1.0' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: RH27	Time On Station: 0900	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): 270226.488	Water Depth (A): 4.5	
Logged by: PDS	Easting (NAD 83): 815220.810	Length of push core assembly (B): 11.1	
Collection Mechanism: <u>Push-Core</u> / Vibracore	GPS Accuracy: 1.4	Water surface to top of handle (C): 3.3	
Date: 11/20/14	Predicted Tide (ft): _____	Length of core (from bottom) (D): 3.3	
	Time of Collection: 0905	Surveyed elevation (NVGD 29) (E): 0.805	
Survey Type: <u>Post</u> Lower Harbor	Time Depart Station: 0910	Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.5	ML	Clayey Silt	Dark Gray Black GLE _{Y2} 2.5/N	Very Soft	Silt	HC		OL Layer S-14N-RH27-00-05
0.9	ML	Clayey Silt	Dark Gray Black 2.5/N	Very Soft	Fine Sand	HC		OL Layer
3.3	CL	Silty clay	Gray GLE _{Y1} 3/10Y w/Black spots 1.0-1.1 1.2-1.4	Soft	Silt	H ₂ S		Native S-14N-RH27-09-14

File ID of digital photograph(s): _____

Comments:

① Black GLE_{Y2} 2.5/N, most likely organic matter deposits

② - 0.5' + 0.9' - 1.4' Sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>RI22</u>	Time On Station: <u>0925</u>	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): <u>2702850.413</u>	Water Depth (A): <u>5.8</u>
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815246.16</u>	Length of push core assembly (B): <u>14.1</u>
Collection Mechanism: <u>Push-Core Vibracore</u>	GPS Accuracy: <u>1.4</u>	Water surface to top of handle (C): <u>3.7</u>
Date: <u>11/18/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>4.645</u>
	Time of Collection: <u>1015</u>	Surveyed elevation (NVGD 29) (E): <u>-0.001</u>
Survey Type: <u>Lower Harbor Post</u>	Time Depart Station: <u>1020</u>	Water surface from surveyed elevation (F): <u>0.0</u>

31B
4.5
mef

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2	ML	Clayey Silt	Dark Gray Black GREY 2.5/N	Very Soft	Silt	HC	S-14N-RI22-00-05	OL Layer
2.9	CL	Silty Clay	Gray	Soft	Silt	HC	S-14N-RI22-12-17	Native
4.5	CL	Silty Clay	Gray	Soft	Silt	None	S-14N-RI22-29-34	Native

File ID of digital photograph(s): _____

Comments:

0.0-0.5, 2.9-3.4, 1.2' - ~~1.8~~ 1.7' sampled, all other
 material discarded

PDS
18-Nov-14

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: RK08	Time On Station: 1250	All measurements are ± 0.1 feet			
Core Sample ID: _____	Northing (NAD 83): 2703192.509	Water Depth (A): 9.2			
Logged by: PDS	Easting (NAD 83): 815245.094	Length of push core assembly (B): 16.0			
Collection Mechanism: Push-Core Vibracore	GPS Accuracy: 1.8	Water surface to top of handle (C): 3.9			
Date: 11/21/14	Predicted Tide (ft): _____	Length of core (from bottom) (D): 2.9			
	Time of Collection: 1301	Surveyed elevation (NVGD 29) (E): -1.550			
Survey Type: Lower Harbor	Time Depart Station: 1307	Water surface from surveyed elevation (F): 0.0			

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample) _____

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.6	ML	clayey silt	black GLY1 2.5/N	very soft	silt	HC		OL Layer S-14N-RK08-00-05
1.6	CL	silty clay	black GLY1 2.5/N	soft	silt	HC		Native S-14N-RK08-06-11
2.2	CL	silty clay	black GLY1 2.5/N	soft	silt	HC		Native
2.9	CL	silty clay	PDS 20-104 gray GLY1 2.5/104	soft	silt	None		Native

File ID of digital photograph(s): _____
 Comments: **Print Mark**

0-0.5' + 0.6' - ~~1.0~~ 1.1 ^{PDS 20-104-14} sampled, all other material discarded

Page ____ of ____

Station ID: <u>RM11</u>	Time On Station: <u>0902</u>	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): <u>2703136.150</u>	Water Depth (A): <u>13.4</u>
Logged by: <u>LM</u>	Easting (NAD 83): <u>815342.680</u>	Length of push core assembly (B): <u>18.1</u>
Collection Mechanism: <u>Push-Core/Vibracore</u>	GPS Accuracy: <u>1.4</u>	Water surface to top of handle (C): <u>2.8</u>
Date: <u>11/25/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.75</u>
	Time of Collection: <u>0909</u>	Surveyed elevation (NVGD 29) (E): <u>3.419</u>
Survey Type: Lower Harbor	Time Depart Station: <u>0915</u>	Water surface from surveyed elevation (F): <u>0.0</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.4	ML	clayey silt	Black GREY 2.5/N	very soft	silt	slight HC		S-14/N-RM11-00-05
0.8	ML	silty clay	Black GREY 10Y	soft	silt	slight HC		S-14/N-RM11-05-10
2.75	CL	silty clay	Gray GREY 10Y	stiff	silt	None		

File ID of digital photograph(s):

Comments:

Point Mark 170

Station ID: <u>RM14</u>	Time On Station: <u>0923</u>	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): <u>2703044.573</u>	Water Depth (A): <u>13.5</u>
Logged by: <u>Jm</u>	Easting (NAD 83): <u>815352.227</u>	Length of push core assembly (B): <u>15.8</u>
Collection Mechanism: <u>Push-Core/Vibracore</u>	GPS Accuracy: <u>1.2</u>	Water surface to top of handle (C): <u>0.9</u>
Date: <u>11/25/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.4</u>
Survey Type: Lower Harbor	Time of Collection: <u>0933</u>	Surveyed elevation (NVGD 29) (E): <u>3.564</u>
	Time Depart Station: <u>0940</u>	Water surface from surveyed elevation (F): <u>0.0</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.5	ML	Silty Clay	Gray GLE/1 2.5/10	Soft	SILT	None		S-14N-RM14-00.05
1.4	SC	Sandy clay	Gray GLE/1 2.5/10	Med Stiff	fine Sand	None		S-14N-RM14-05.10

File ID of digital photograph(s):

Comments:

Point Mark 171

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>RM26</u>	Time On Station: <u>11:00</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2703744.576</u>	Water Depth (A): <u>7.6</u>	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815348.083</u>	Length of push core assembly (B): <u>11.1</u>	
Collection Mechanism: <u>Push-Core/Vibracore</u>	GPS Accuracy: <u>1.4</u>	Water surface to top of handle (C): <u>0.3</u>	
Date: <u>11/18/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>3.2</u>	
	Time of Collection: <u>1105</u>	Surveyed elevation (NVGD 29) (E): <u>-0.015</u>	
Survey Type: <u>Lower Harbor</u>	Time Depart Station: _____	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
①	0.5 0.6	ML	Clayey Silt	Black dark gray GLEY 2.5/N	very soft	Silt	HC		OL Layer S-14N-RM26-00-05
①	1.1 1.2	ML	Clayey Silt	Dark gray GLEY 2 2.5/10Y	very soft	Silt	Slight H ₂ S		OL Layer
①	3.2 3.3	CL	Silty clay	Dark gray GLEY 1 2.5/10Y	soft	Silt	H ₂ S		Native S-14N-RM26-12-17 11-18-14 PDS

File ID of digital photograph(s): _____
 Comments:
 0.0'-0.5' + 1.2'-1.7' Sampled, all other material discarded

① measurement was off by 0.1'. MRF 12/5/14

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>Rmac-DUP</u>	Time On Station: <u>1100</u>	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): <u>2702740.857</u>	Water Depth (A): <u>7.5</u>
Logged by: <u>POS</u>	Easting (NAD 83): <u>815352.553</u>	Length of push core assembly (B): <u>15.1</u>
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>2.0</u>	Water surface to top of handle (C): <u>4.7</u>
Date: <u>11/18/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.4</u>
	Time of Collection: <u>1115</u>	Surveyed elevation (NVGD 29) (E): <u>-0.235</u>
Survey Type: <u>Lower Harbor Post</u>	Time Depart Station: <u>1130</u>	Water surface from surveyed elevation (F): <u>0.0</u>

0
 5/8
 3.0
 max

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0	ML	Clayey Silt	Dark Gray Black CLEY 1 2.5/10	very Soft	silt	HC		OL Layer S-14N-RM26-00-05-REF
2.4	CL	Silty clay	Dark Gray	Soft	silt	H ₂ S		Native S-14N-RM26-10-15-REF
3.0	CL	Silty Clay	Dark Gray	10-NOV-14 POS medium silt Soft	silt	H ₂ S		Native

File ID of digital photograph(s): _____
 Comments:

0.0'-0.5' + 1.0'-1.5' Sampled, all other material discarded

Station ID: RNOG	Time On Station: 0752	All measurements are ± 0.1 feet
Core Sample ID:	Northing (NAD 83): 2703253.588	Water Depth (A): 11.6
Logged by: AM	Easting (NAD 83): 815373.162	Length of push core assembly (B): 16.0
Collection Mechanism: Push-Core / Vibracore	GPS Accuracy: 1.4	Water surface to top of handle (C): 1.5
Date: 11/25/14	Predicted Tide (ft):	Length of core (from bottom) (D): 2.9
	Time of Collection: 0800	Surveyed elevation (NVGD 29) (E): 2.402
Survey Type: Lower Harbor	Time Depart Station: 0805	Water surface from surveyed elevation (F): 0.0

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0	ML	Clayey Silt	Black GLEVI 2.5N	Very Soft	Silt	HC		OL Layer S-14-N-RNOG-00-05
1.7	CL	Silty Clay	Black GLEVI 2.5/N	Soft	Silt	HC		Native S-14-N-RNOG-10-15
2.9	CL	Silty Clay w/ shell Hash	Gray GLEVI 2.5/10/1	med stiff	Silt	None		Shell Hash

File ID of digital photograph(s):

Comments: **Pond Mark 168**

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>RN18</u>	Time On Station: <u>1323</u>	All measurements are ± 0.1 feet	
Core Sample ID: <u>PDS</u>	Northing (NAD 83): <u>7703255.269</u>	Water Depth (A): <u>7.3</u>	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815378147</u>	Length of push core assembly (B): <u>16.0</u>	
Collection Mechanism: <u>Push-Core/Vibracore</u>	GPS Accuracy: <u>1.4</u>	Water surface to top of handle (C): <u>5.6</u>	
Date: <u>11/21/14</u>	Predicted Tide (ft): <u></u>	Length of core (from bottom) (D): <u>3.2</u>	
	Time of Collection: <u>1327</u>	Surveyed elevation (NVGD 29) (E): <u>-1.646</u>	
Survey Type: <u>Lower Harbor</u>	Time Depart Station: <u>1335</u>	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.7	ML	clayey silt	Black GLE42 2.5/N	very soft	silt	HC		OL Layer S-14N-RN18-00-05
1.7	CL	silty clay	Black GLE42 2.5/N	soft	silt	HC		Native S-14N-RN18-07-12
3.2	CL	silty clay	Gray GLE42 2.5/10Y	soft	silt	H ₂ S		Shell Hash

File ID of digital photograph(s):

Comments:
Paint mark 146
0'-0.5' + 0.7' - 1.2' sampled all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring				Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force		Chief Scientist: Matt Fitzpatrick	
		Client: USACE NAE					

Station ID: <u>R032</u>	Time On Station: <u>0749</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2702597.142</u>	Water Depth (A): <u>10.3</u> ^{10.5}	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815404.427</u>	Length of push core assembly (B): <u>16.0</u>	
Collection Mechanism: <u>Push-Core</u> / <u>Vibracore</u>	GPS Accuracy: <u>1.5</u>	Water surface to top of handle (C): <u>2.3</u>	
Date: <u>11/21/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>3.2</u>	
	Time of Collection: <u>0756</u>	Surveyed elevation (NVGD 29) (E): <u>2.678</u>	
Survey Type: <u>Lower Harbor</u>	Time Depart Station: <u>0802</u>	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.8	ML	Clayey Silt	Black Grey 2.5/N	Very Soft	Silt	HC		OL Layer S-HN-R032-00-05
	CL	Silty Clay	Grey	Soft	Silt	H ₂ S		Native S-14N-R032-08-13
3.2								Shell Hash

File ID of digital photograph(s): _____

Comments: Point Mark 161

OWN MWAH

0-0.5' + 0.8'-1.3' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	
Station ID:	RP30	Time On Station:	1435	All measurements are ± 0.1 feet	
Core Sample ID:		Northing (NAD 83):	2702646.014	Water Depth (A):	8.8
Logged by:	PPS	Easting (NAD 83):	815425.739	Length of push core assembly (B):	16
Collection Mechanism:	Push-Core Vibracore	GPS Accuracy:	1.4	Water surface to top of handle (C):	4.2
Date:	11/20/14	Predicted Tide (ft):		Length of core (from bottom) (D):	2.8
		Time of Collection:	1445	Surveyed elevation (NVGD 29) (E):	0.045
Survey Type: Lower Harbor Post		Time Depart Station:		Water surface from surveyed elevation (F):	

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
① 0.6 0.7		ML	clayey Silt	Black GLEY1 2.5/N	Very Soft	Silt	HC		OL Layer S-14N-RP30-00-05 PDS 24 Nov. 14 S-14N-RP30-00-05
② 1.3 1.4		CL	Silty Clay	Gray GLEY1 3/10Y	Soft	Silt	H ₂ S		Native S-14N-RP30-07-12
③ 1.7 2.0		CL	Silty Clay	Black GLEY1 2.5/N	Soft	Silt	H ₂ S		Native
④ 2.8 2.9		CL	Silty Clay	GLEY1 2.5/10Y	Soft	Silt	H ₂ S		Native

File ID of digital photograph(s):

Comments:

① Some areas of black GLEY1 2.5/N, mostly likely organic deposits
 1.3-1.4 shell hash deposit
 0.0-0.5' + 0.7'-1.2' sampled, all other material discarded

Page ___ of ___

② measurement was off by 0.1'. MRF 12/5/14

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	
Station ID:	RQ26	Time On Station:	1515	All measurements are ± 0.1 feet	
Core Sample ID:		Northing (NAD 83):	2702741.973	Water Depth (A):	11.7
Logged by:	POS	Easting (NAD 83):	815457.609	Length of push core assembly (B):	16.0
Collection Mechanism:	Push-Core / Vibracore	GPS Accuracy:	1.5	Water surface to top of handle (C):	1.2
Date:	11/20/14	Predicted Tide (ft):		Length of core (from bottom) (D):	3.0
Survey Type: Post Lower Harbor		Time of Collection:	1520	Surveyed-elevation (NVGD 29) (E):	0.619
		Time Depart Station:		Water surface from surveyed elevation (F):	

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.02		ML	clayey Silt	Black GRAY 2.0/5/N	Very SOFT	Silt	HC		OL Layer S-14N-RQ26-00-05
2.02		CL	Silty clay	moderately Gray GLE Y1 (3 to 3/10 y) POS 21-N-14 Black GLE Y1 2.0/5/N	SOFT	Silt	H ₂ S		Native S-14N-RQ26-12-17
3.0		CL	Silty clay	Gray GLE Y1 3/10 y	SOFT	Silt	H ₂ S		Native

File ID of digital photograph(s):

Comments:

0'-0.5' + 1.02'-1.07' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring				Project #: 100043429	
		Location: New Bedford, MA				Vessel: R/V Gale Force	
		Client: USACE NAE				Chief Scientist: Matt Fitzpatrick	

Station ID: RE10	Time On Station: 0838	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): 2703144954	Water Depth (A): 15.8	
Logged by: _____	Easting (NAD 83): 815478.696	Length of push core assembly (B): 20.0	
Collection Mechanism: Push-Core Vibracore	GPS Accuracy: 1.4	Water surface to top of handle (C): 2.0	
Date: 11/25/14	Predicted Tide (ft): _____	Length of core (from bottom) (D): 1.9	
	Time of Collection: 0851	Surveyed elevation (NVGD 29) (E): 3.109	
Survey Type: Lower Harbor	Time Depart Station: 0856	Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.4	ML	Clay Silt	Black	Very Soft	Silt	HC		S-14N-RR10-00-05 Some shell hash
1.9	CL	Silty Clay	Gray Grey 3/10y	Stiff	Silt	None		Native w/ shell hash S-14N-RR10-05-10

File ID of digital photograph(s): _____

Comments: **Point Mark 169**

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring				Project #: 100043429	
		Location: New Bedford, MA				Vessel: R/V Gale Force	
		Client: USACE NAE				Chief Scientist: Matt Fitzpatrick	

Station ID: RS14	Time On Station: 0955	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): 2703060.974	Water Depth (A): 17.3
Logged by: Am	Easting (NAD 83): 815497.231	Length of push core assembly (B): 20.0
Collection Mechanism: Push-Core / Vibracore	GPS Accuracy: 1.3	Water surface to top of handle (C): 0.0
Date: 11/25/14	Predicted Tide (ft): _____	Length of core (from bottom) (D): 2.2
	Time of Collection: 1601	Surveyed elevation (NVGD 29) (E): 3.682
Survey Type: Lower Harbor	Time Depart Station: 1010	Water surface from surveyed elevation (F): 0.0

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample) _____

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.5	ML	clayey silt	Black grey 2.5N	Var. / soft silt	silt	HC		OL Layer S-14N-RS14-00-05
2.2	SC	Sandy clay	Grey / 2.5 / 10N	Med st. ff	fine sand	None		Native S-14N-RS14-05-10

File ID of digital photograph(s): _____
 Comments: **Point Mark 172**

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring				Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force		Chief Scientist: Matt Fitzpatrick	
		Client: USACE NAE					

Station ID: <u>RS22</u>	Time On Station: <u>0943</u>	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): <u>7702848.76</u>	Water Depth (A): <u>12.8</u>
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815497.79</u>	Length of push core assembly (B): <u>14.0</u>
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.2</u>	Water surface to top of handle (C): <u>0.6</u>
Date: <u>11/21/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>7.6</u>
	Time of Collection: <u>0949</u>	Surveyed elevation (NVGD 29) (E): <u>0.452</u>
Survey Type: Lower Harbor	Time Depart Station: <u>0954</u>	Water surface from surveyed elevation (F): <u>0.0</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample) _____

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5	ML	Clayey Silt	Black GLEY1 2.5/W	Very Soft	Silt	HC		OL Layer S-14N-RS22-00-05
2.6	CL	Silty clay	Gray GLEY2 2.5/lor	Soft	silt	H ₂ S		Native S-14N-RS22-15-20

File ID of digital photograph(s): _____
 Comments:

0'-0.5' + 1.5'-2.0' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>BT02</u>	Time On Station: <u>1512</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>2705360.133</u>	Water Depth (A): <u>10.1</u>	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>585532.402</u>	Length of push core assembly (B): <u>16.0</u>	
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.6</u>	Water surface to top of handle (C): <u>3.2</u>	
Date: <u>11/19/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.8</u>	
	Time of Collection: <u>1514</u>	Surveyed elevation (NVGD 29) (E): <u>0.649</u>	
Survey Type: <u>Post</u> Lower Harbor	Time Depart Station: <u>1520</u>	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.3	ML	Clayey Silt	Black GLE _{Y1} 2.5/IN	Very Soft	Silt	Slight HC		OL Layer S-14N-RT02-00-05
0.9	CL	Silty Clay	Olive Gray	Soft	Silt	None		Native S-14N-RT02-05-10
1.4	CL	Silty Clay	Olive Gray GLE _{Y1} 3/10Y	Soft	Silt	H ₂ S		Native large Black (GLE _{Y1} 2.5) area, most likely an organic matter deposit
2.8	CL	Silty Clay	Olive Gray GLE _{Y1} 3/10Y	Soft	Silt	None		Native

File ID of digital photograph(s): _____

Comments: Point Mark 149

0'-0.5' + 0.5'-1.0' Sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring				Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force		Chief Scientist: Matt Fitzpatrick	
		Client: USACE NAE					

Station ID: <u>RU26</u>	Time On Station: <u>0915</u>	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): <u>7702753.644</u>	Water Depth (A): <u>17.8</u>	
Logged by: <u>PDS</u>	Easting (NAD 83): <u>819550.531</u>	Length of push core assembly (B): <u>16.0</u>	
Collection Mechanism: <u>Push-Core/Vibracore</u>	GPS Accuracy: <u>1.2</u>	Water surface to top of handle (C): <u>4.6</u>	
Date: <u>11/24/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>1.5</u>	
	Time of Collection: <u>0922</u>	Surveyed elevation (NVGD 29) (E): <u>1.008</u>	
Survey Type: <u>Lower Harbor</u>	Time Depart Station: <u>0929</u>	Water surface from surveyed elevation (F): <u>0.0</u>	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9	ML	Clayey Silt	Black GLY#1 2.5/N	Very Soft	Silt	HC		OL Layer S-14N-RU26-00-05
1.5	SC	Sandy Clay	Light Brown 2.4 3/2	Soft	medium Sand	None		Native S-14N-RU26-09-14

File ID of digital photograph(s): _____

Comments:

0-0.5' + 0.9' - 1.4' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring				Project #: 100043429	
		Location: New Bedford, MA				Vessel: R/V Gale Force	
		Client: USACE NAE				Chief Scientist: Matt Fitzpatrick	

Station ID: 0878# RU32	Time On Station: 0828	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): 2702601.118	Water Depth (A): 14.0	
Logged by: PDS	Easting (NAD 83): 715555.764	Length of push core assembly (B): 16.0	
Collection Mechanism: Push-Core / Vibracore	GPS Accuracy: 1.5	Water surface to top of handle (C): 0.0	
Date: 11/21/19	Predicted Tide (ft): _____	Length of core (from bottom) (D): 2.1	
	Time of Collection: 0837	Surveyed elevation (NVGD 29) (E): 1.782	
Survey Type: Lower Harbor	Time Depart Station: 0842	Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.4	ML	clayey silt	Black GLE42 2.5/N	Very soft	silt	H ₂ S		OL Layer S-14N-RU32-00-05
0.5	CL	Silty clay	Gray GLE42 2.5/10N	Soft	silt	H ₂ S		Native
0.7	ML	clayey silt	Black GLE42 2.5/N	Soft	silt	H ₂ S		Native S-14N-RU32-05-10
1.5	CL	Silty clay	Gray GLE42 2.5/10N	Soft	silt	H ₂ S		Native
2.1	CL	Silty clay	Black GLE42 2.5/N	Soft	silt	H ₂ S		Native

File ID of digital photograph(s): _____

Comments: **Point Mark 162 ② PDS 21-Nov-14, H₂S**
① WL m. work
0'-0.5'+0.5'-1.0' sampled, all other material discarded

2203

Battelle <i>The Business of Innovation</i>		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	
Station ID:	RV06	Time On Station:	1458	All measurements are ± 0.1 feet	
Core Sample ID:		Northing (NAD 83):	2703264.610	Water Depth (A):	8.9
Logged by:	PDS	Easting (NAD 83):	815507.491	Length of push core assembly (B):	16.1
Collection Mechanism:	Push-Core Vibracore	GPS Accuracy:	1.5	Water surface to top of handle (C):	4.5
Date:	11/19/14	Predicted Tide (ft):		Length of core (from bottom) (D):	2.9
Survey Type: Post	Lower Harbor	Time of Collection:	1505	Surveyed elevation (NVGD 29) (E):	0.596
		Time Depart Station:	1509	Water surface from surveyed elevation (F):	0.0

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.7		ML	clayey Silt	Dark Gray mottled w/ Black	Very Soft	Silt	Slight H ₂ S		OL Layer S-14N-RV06-00-05
2.9		CL	Silty Clay	Gray GLE _{Y1} 3/10Y	Soft	Silt	H ₂ S		Native S-14N-RV06-07-12

File ID of digital photograph(s):

Comments:

Point Mark 148

① Gray GLE_{Y1} 2.5/10Y, Black GLE_{Y1} 2.5/N

0.0'-0.5'+0.7'-1.2' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>RW14</u>	Time On Station: <u>1118</u>	All measurements are ± 0.1 feet
Core Sample ID: <u>PDS</u>	Northing (NAD 83): <u>2703050.932</u>	Water Depth (A): <u>6.5</u>
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815614.094</u>	Length of push core assembly (B): <u>11.1</u>
Collection Mechanism: <u>Push-Core</u> Vibracore	GPS Accuracy: <u>1.5</u>	Water surface to top of handle (C): <u>1.7</u>
Date: <u>11/19/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>3.0</u>
	Time of Collection: <u>1121</u>	Surveyed elevation (NVGD 29) (E): <u>-1.177</u>
Survey Type: Lower Harbor	Time Depart Station: <u>1128</u>	Water surface from surveyed elevation (F): <u>0.0</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample) _____

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.2	ML	clayey silt	Black GLE1 2.5/N	very soft	silt	slight HC		OL Layer S14N-RW14-00-05
	CL	silty clay	Gray GLE1 3/10Y	soft	silt	slight H ₂ S		Native S14N-RW14-05-10
3.0								

File ID of digital photograph(s): _____
 Comments:

0.0-0.5' + 0.5'-1.0' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	
Station ID:	RW18	Time On Station:	1436	All measurements are ± 0.1 feet	
Core Sample ID:		Northing (NAD 83):	270 2960.726	Water Depth (A):	9.7
Logged by:	PDS	Easting (NAD 83):	815603.607	Length of push core assembly (B):	16.0
Collection Mechanism:	Push-Core / Vibracore	GPS Accuracy:	1.4	Water surface to top of handle (C):	3.3
Date:	11/19/14	Predicted Tide (ft):		Length of core (from bottom) (D):	3.1
		Time of Collection:	1440	Surveyed elevation (NVGD 29) (E):	0.268
Survey Type: Lower Harbor		Time Depart Station:	1444	Water surface from surveyed elevation (F):	0.0

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	0.4		ML	clayey silt	Black GLEW1 2.5/W	very soft	silt	HC		OL Layer PDS 19-Nov-14 RW S-14N-RW18-00-05
			CL	Silty Clay	Dark Gray GLEW1 3/10x	soft	Silt	H ₂ S		Native S-14N-RW18-05-10
	3.2									

File ID of digital photograph(s): _____

Comments: **Point Mark 147**

0.0'-0.5' + 0.5'-1.0' Sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: RW 30	Time On Station: 1418	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): 2702643.099	Water Depth (A): 11.2	
Logged by: PDS	Easting (NAD 83): 815591.734	Length of push core assembly (B): 16.0	
Collection Mechanism: Push-Core Vibracore	GPS Accuracy: 1.5	Water surface to top of handle (C): 2.2	
Date: 11/19/14	Predicted Tide (ft): _____	Length of core (from bottom) (D): 2.4	
	Time of Collection: 1424	Surveyed elevation (NVGD 29) (E): 0.021	
Survey Type: Post Lower Harbor	Time Depart Station: 1430	Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2	ML	clayey Silt	Black GLEYS 2.5/W	Very soft	Silt	HC		OL Layer S-14N-RW30-00-05
1.5	ML	clayey Silt	Black GLEYS 2.5/W	Very soft	Silt	HC		OL Layer
2.4	SC	Sandy Clay	Gray GLEYS 3/W	medium stiff	Fine sand	Slight HC		Native S-14N-RW30-07-12 S/B S-14N-RW30-15-20 Shell Hash ^{mark} 3/24/15

File ID of digital photograph(s): _____
 Comments: **Point Mark 146**

0.0'-0.5' + 1.5'-2.0' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: RZ32	Time On Station: 1400	All measurements are ± 0.1 feet	
Core Sample ID: _____	Northing (NAD 83): 2702604.353	Water Depth (A): 6.2	
Logged by: PDS	Easting (NAD 83): 815670.715	Length of push core assembly (B): 4016.0	
Collection Mechanism: Push-Core / Vibracore	GPS Accuracy: 1.4	Water surface to top of handle (C): 7.4	
Date: 11/19/14	Predicted Tide (ft): _____	Length of core (from bottom) (D): 2.45	
	Time of Collection: 1402	Surveyed elevation (NVGD 29) (E): -0.317	
Survey Type: Post Lower Harbor	Time Depart Station: 1409	Water surface from surveyed elevation (F): 0.6	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I₁) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if $I_1 \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.5		ML	clayey Silt	Black GLY2 2.5/N	very soft	silt	HC		OL Layer S-14N-RZ32-00-05
1.0		SC	clayey Sand	Gray GLY2 2.5/N	very soft	Fine Sand	HC		OL Layer Shell Hash
2.0		SC	Sandy Clay	Gray GLY1 2.5/10	Soft	^{PDS} 20-Nov-14 Fined Sand	Slight H ₂ S		Native S-14N-RZ32-10-15
2.45		SC	sandy Clay	Gray Brown 2.5Y 3/1	Soft	Fine Sand	Slight H ₂ S		Native some roots & rhizome material present

File ID of digital photograph(s): _____
 Comments: **Point Mark 145**

^{PDS} 20-Nov-14 ^{PDS} 20-Nov-14
0.0-0.5' + 1.0-2.0' sampled, all other material discarded
1.5'

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>SL2</u>	Time On Station: <u>1256</u>	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): <u>2902523.926</u>	Water Depth (A): <u>11.2</u>
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815626.311</u>	Length of push core assembly (B): <u>16.0</u>
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.9</u>	Water surface to top of handle (C): <u>2.1</u>
Date: <u>11/19/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.65</u>
	Time of Collection: <u>1301</u>	Surveyed elevation (NVGD 29) (E): <u>-0.852</u>
Survey Type: <u>Post</u> Lower Harbor	Time Depart Station: <u>1306</u>	Water surface from surveyed elevation (F): <u>00</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.5	ML	clayey silt	Black Grey 2.5/N	Very soft	silt	HC		OL Layer ① S-14N-SL2-00-05
1.2	SC	sandy clay	Dark Gray	soft	Fine Sand	H ₂ S		Native S-14N-SL2-05-10
2.65	CL	silty clay	Gray	soft	silt	None		Shell Hash Native

File ID of digital photograph(s): _____
 Comments: Paint mark 141
① Small amount of OL Layer leaked out of core during opening
0-0.5' + 0.5-1.0' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	
Station ID:	SL9	Time On Station:	1240	All measurements are ± 0.1 feet	
Core Sample ID:		Northing (NAD 83):	2702349.766	Water Depth (A):	10.7
Logged by:	PPS	Easting (NAD 83):	815624.997	Length of push core assembly (B):	16.0
Collection Mechanism:	Push-Core Vibracore	GPS Accuracy:	1.3	Water surface to top of handle (C):	2.9
Date:	4/19/14	Predicted Tide (ft):		Length of core (from bottom) (D):	2.4
		Time of Collection:	1247	Surveyed elevation (NVGD 29) (E):	-1.139
Survey Type:	Post Lower Harbor	Time Depart Station:	1253	Water surface from surveyed elevation (F):	0.0

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$
- (Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.7		ML	Clayey Silt	Black GLEY1 2.5/N	very Soft	Silt	HC		OL Layer S-14N-SL9-00-05
2.4		CL	Silty Clay	Dark Gray GLEY1 3/104 ①	Soft	Silt	H ₂ S		Native S-14N-SL9-07-12

File ID of digital photograph(s):

Comments: Point Mark 140

OG gradually lightens ~~as~~ the with depth PPS20-Nov-14

0-0.5' + 0.7-1.2' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: SM6	Time On Station: 1312	All measurements are ± 0.1 feet	
Core Sample ID: PD3	Northing (NAD 83): 2702434.382	Water Depth (A): 10.2	
Logged by: PD3	Easting (NAD 83): 815660.055	Length of push core assembly (B): 16.0	
Collection Mechanism: Push-Core Vibracore	GPS Accuracy: 1.4	Water surface to top of handle (C): 3.1	
Date: 11/19/14	Predicted Tide (ft): 	Length of core (from bottom) (D): 2.8	
	Time of Collection: 1319	Surveyed elevation (NVGD 29) (E): -0.670	
Survey Type: Post Lower Harbor	Time Depart Station: 1324	Water surface from surveyed elevation (F): 0.0	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.7		ML	clayey Silt	Black GLEP 2.5/N	Very Soft	Silt	HC		OL Layer S-14N-SM6-00-05
1.3		SC	Sandy Clay	modeled Gray Black ①	Soft	Fine sand	H ₂ S		Native S-14N-SM6-07-12
2.8		CL	Silty Clay	Gray	Soft	Silt	Slight H ₂ S		Native

File ID of digital photograph(s):

Comments:

→ Small amount of OL Layer leaked out top of core while opening core

① GLEP 12.5/N (Black), Gray GLEP 12.5/104 GPAS 20-Nov-14

0-0.5' + 0.7' - 1.2' Sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	
Station ID:	S02	Time On Station:	1342	All measurements are ± 0.1 feet	
Core Sample ID:		Northing (NAD 83):	2702521.182	Water Depth (A):	6.8
Logged by:	PD3	Easting (NAD 83):	815699.508	Length of push core assembly (B):	16.0
Collection Mechanism:	Push-Core / Vibracore	GPS Accuracy:	1.4	Water surface to top of handle (C):	6.6
Date:	11/19/14	Predicted Tide (ft):		Length of core (from bottom) (D):	2.5 * see below
	Post	Time of Collection:	1349	Surveyed elevation (NVGD 29) (E):	-0.6 * -0.641
Survey Type: Lower Harbor		Time Depart Station:	1355	Water surface from surveyed elevation (F):	0.0

Calculations for Determination of Z* Elevation

- (G) Elevation of Water Surface (NVGD): $E - F$
- (H) Elevation of the bottom of the core (NVGD): $G - (B - C)$
- (Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$
- (I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$
- (I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0		ML	clayey Silt	Black GREY 2.5/N	Very Soft	Very Fine Sand	HC		OL Layer S-14N-S02-00-05
1.5		SC	Sandy Clay	Gray Brown 2.5Y 2.5/1	Soft	Fine Sand	H ₂ S		Native S-14N-S02-10-15
2.1		OL	Organic Silty Clay	Gray Brown 10YR 2/1	Soft	Silt	H ₂ S		Native Organic material present
2.5		SC	Sandy Clay	Gray	Soft	Fine Sand	H ₂ S		Native

File ID of digital photograph(s):

Comments:

Point Mark 144

① WW m. wash

* 0.1' of core (bottom) lost off in recovery

0.0'-0.5' + 1.0'-1.5' sampled, all other material discarded

Battelle The Business of Innovation		Project Name: New Bedford Harbor Environmental Monitoring		Project #: 100043429	
		Location: New Bedford, MA		Vessel: R/V Gale Force	
		Client: USACE NAE		Chief Scientist: Matt Fitzpatrick	

Station ID: <u>509</u>	Time On Station: <u>1326</u>	All measurements are ± 0.1 feet
Core Sample ID: _____	Northing (NAD 83): <u>2702347.483</u>	Water Depth (A): <u>7.8</u>
Logged by: <u>PDS</u>	Easting (NAD 83): <u>815700.973</u>	Length of push core assembly (B): <u>16.0</u>
Collection Mechanism: <u>Push-Core / Vibracore</u>	GPS Accuracy: <u>1.5</u>	Water surface to top of handle (C): <u>5.9</u>
Date: <u>11/19/14</u>	Predicted Tide (ft): _____	Length of core (from bottom) (D): <u>2.6</u>
Survey Type: <u>Post</u> Lower Harbor	Time of Collection: <u>1333</u>	Surveyed elevation (NVGD 29) (E): <u>-0.798</u>
	Time Depart Station: <u>1338</u>	Water surface from surveyed elevation (F): <u>0.0</u>

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): $E - F$ _____

(H) Elevation of the bottom of the core (NVGD): $G - (B - C)$ _____

(Z*) Elevation of visual transition (NVGD): $H + (\text{distance to visual transition})$ _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): $H + D$ _____

(I₂) Elevation of the sediment-water interface as measured from water depth (NVGD): $G - A$ _____

(Note if I $\neq$ I₂ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = H)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.7	ML	clayey Silt	Black GRAY 2.5/N	Very Soft	Silt	Slight H ₂ S		OL Layer S-14N-S09-00-05
2.6	CL	Silty Clay	Gray GRAY 3/10Y	Soft	Silt	Slight H ₂ S		Native S-14N-S09-07-12 Some small Hash in top 0.4' of segment

File ID of digital photograph(s): _____
 Comments: Paint Mark 143

0.0'-0.5' + 0.7'-1.2' sampled, all other material discarded

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Appendix B

Sediment Core Photographs

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July 2014

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OG 5
0.0' - 1.3'
7/17/14

Quartet

6
5
4
3
2
1
1 FT
9
8
7
6
5
4

OH2
0.0-1.4
7/17/14

Quartet



OH 10
0.0' - 1.5'
7/17/14

Quartet



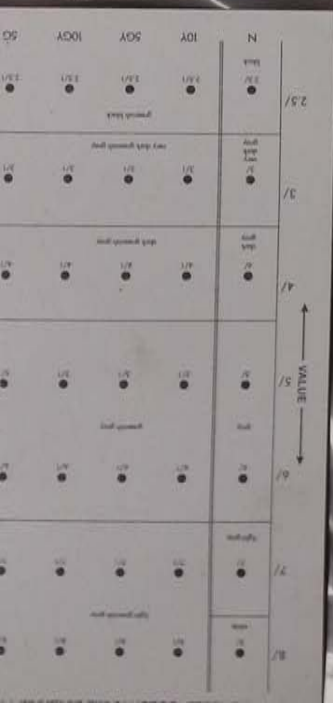
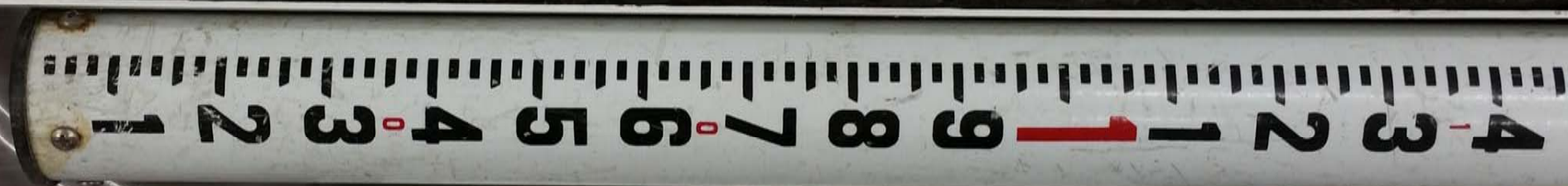


OH15
0.0' - 1.5'
7/17/14

Quartet

OI 5
0.0'-1.5'
7/17/14





OI 18
0.0' - 1.5'
7/17/14

Quartet



0508

0.0' - 1.35'

7/17/14

Quartet

0513

0.0' - 1.3'

7/17/14



OL6

1/17/14

Optima



OL9

0.0' - 1.5'

7/17/14





OL9 DUP
0.0' - 1.5'
7/17/14

A vertical glass core sample is shown next to a yellow measuring tape. The tape is marked in feet and inches, with the top of the core aligning with the 1.5-foot mark. The core contains a dark, silty sediment. A white label with handwritten text is attached to the right side of the core. A person's shadow is visible on the left, and a gloved hand is holding the label on the right. The background is a dark, textured surface, and green grass is visible at the bottom.

OL 17
0.0' - 1.4'
7/17/14

Quartlet



ON 11

0.0' - 1.4'

7/17/14



ON20
0.0'-1.4'
7/17/14

Quart



Quartet

0015

0.0' - 1.35'

7/17/14



OP 10

0.0' - 1.1'

7/17/14



OP 18
0.0' - 1.35'
7/17/14

Quartet



RC02
0.0-1.9
7/18/14

Quartec



RCO2 DUP

0.0-1.9

7/18/14

Quartet



RF07
0.0-1.8
7/18/14

Quintet



RG01.
0.0-2.1
7/18/14

Quartec



RK08
0.0-3.7
7/18/14

Quart



RM02

0.0-2.05

7/18/14

Quartet



RM11
0.0-2.2
7/18/14



RM14
0.0-1.9
7/18/14

2 FT 1 .2
.9
.8
.7
.6
.5
.4
.3
.2
.1
9
8
7
6
5
4



RM26

0.0-2.4

7/18/14

[Quarter]



RN06
O.O-2.2
7/18/14

Quartet



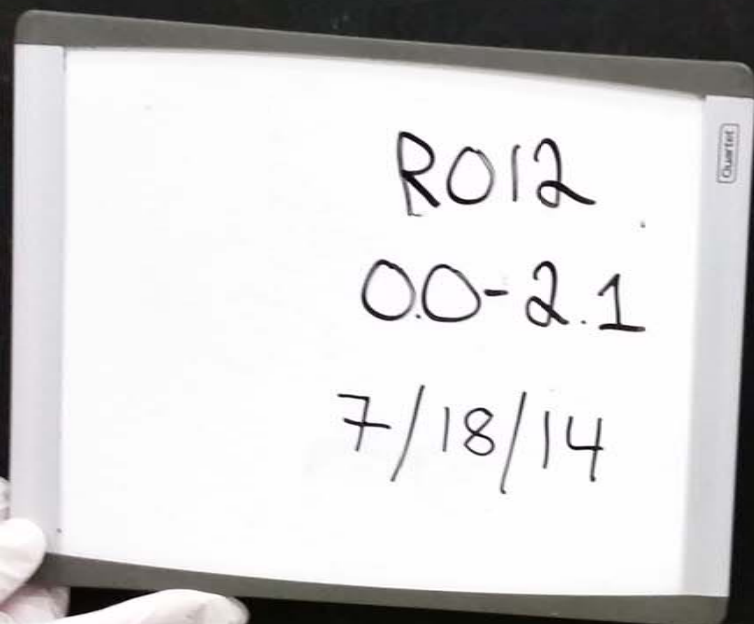
RN18
O.O-2.4
7/18/14

Quintet

3
2
1
2 FT
9
8
7
6
5
4
3
2
1
9
8
7
6
5
4

RN22
0.0-2.0
7/18/14





RO12
0.0-2.1
7/18/14



R032

0.0-2.0

7/18/14

Quartet



RP24

0.0-2.4

7/18/14

QUANTY

2 FT 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

RP30
0.0-2.2
7/18/14



RQ05

0.0-2.4

7/18/14

Quartet



RR10

0.0-2.4

7/18/14

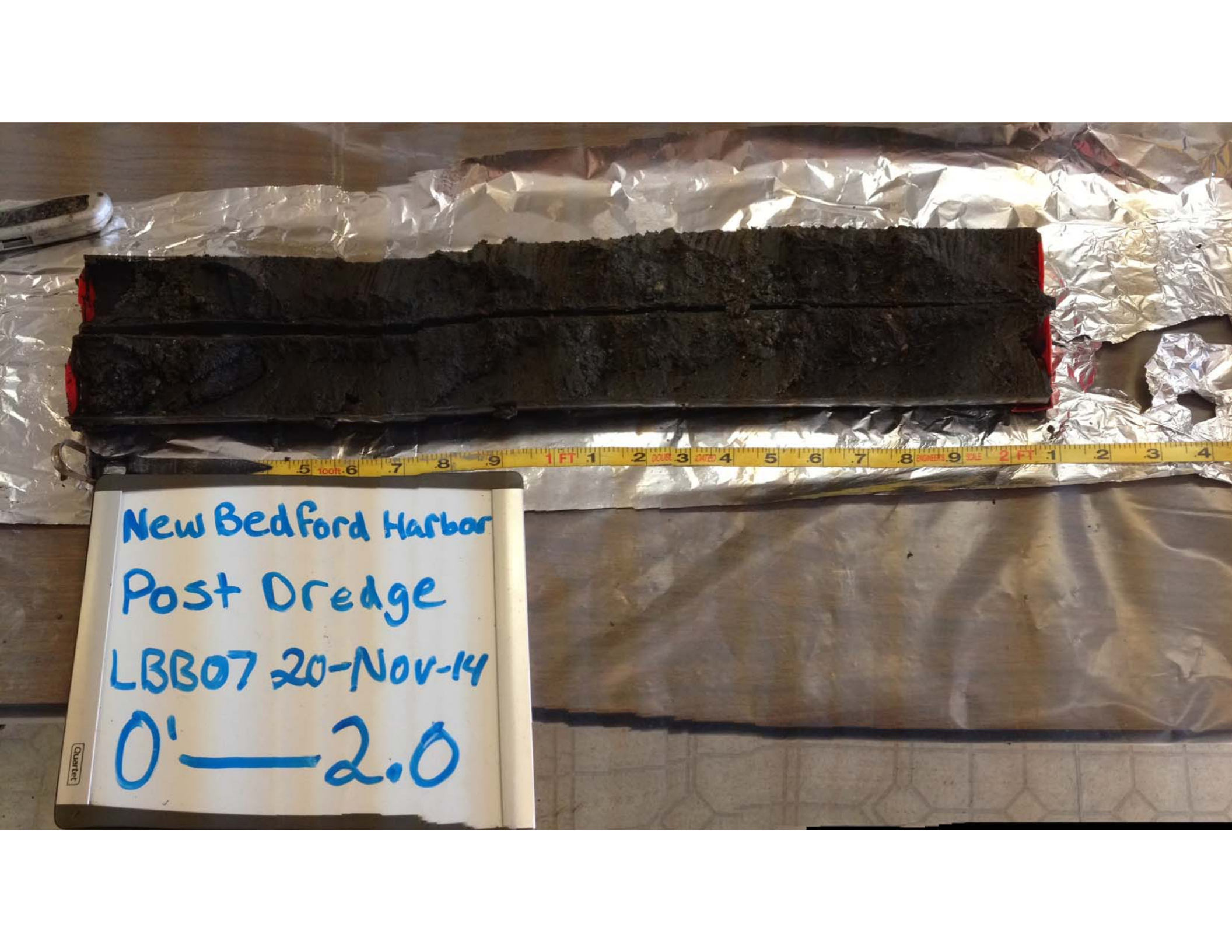
Quartet



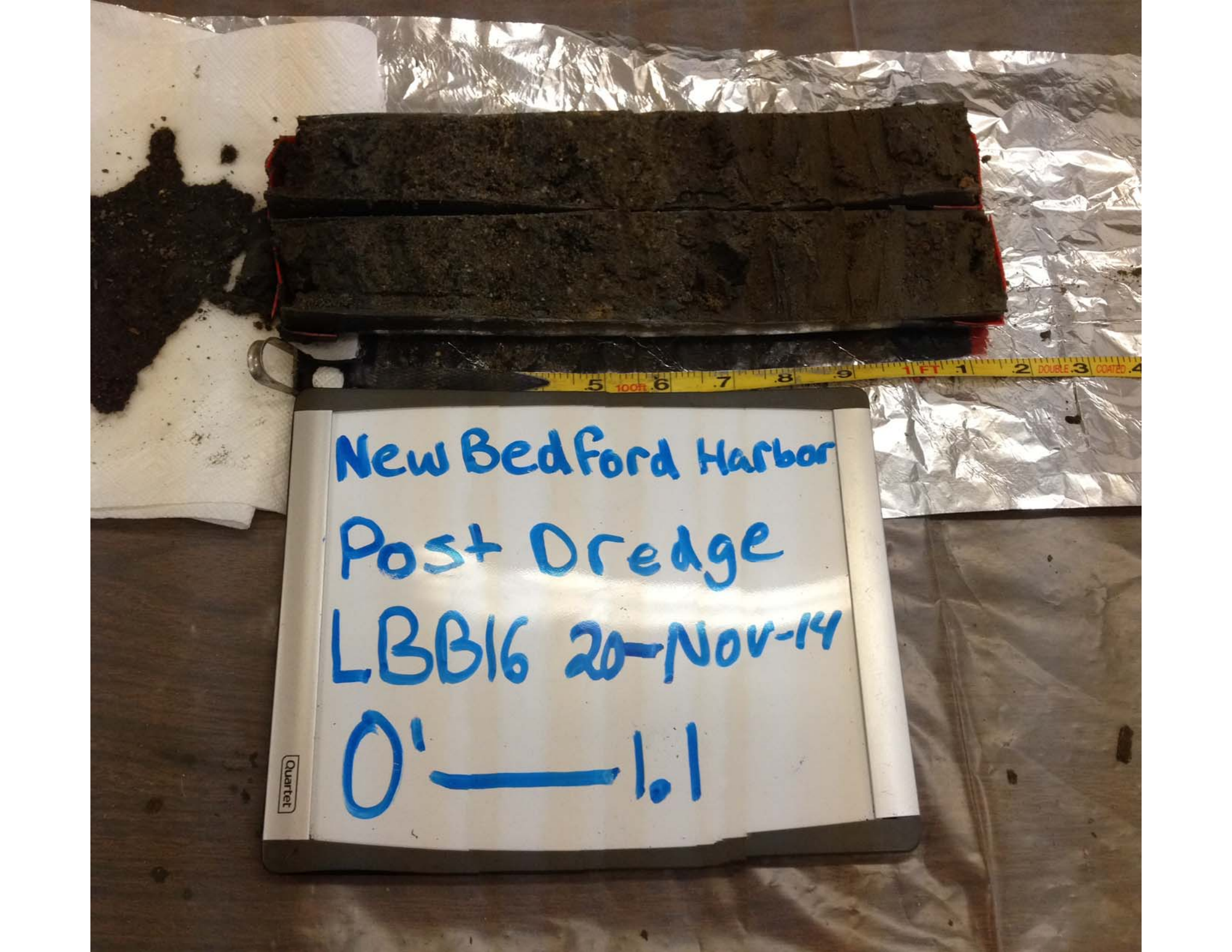
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November 2014

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New Bedford Harbor
Post Dredge
LBB07 20-Nov-14
0' — 2.0



The image shows a sediment sample, likely a core, held in a red core tube. The sediment is dark and appears to be a fine-grained material. A yellow measuring tape is placed horizontally below the core tube, showing measurements in inches and feet. The label is a white piece of paper with blue handwritten text. The background consists of a crinkled aluminum foil surface and a white paper towel on the left.

New Bedford Harbor

Post Dredge

LBB16 20-Nov-14

0' — 1.1



New Bedford Harbor
Post Dredge
LS03 19 Nov-14

0' 2.4'



New Bedford Harbor
Post Dredge
LUØ7 19-Nov-14
0' — 2.5



New Bedford Harbor
Post Dredge
LU12 19-Nov-14

0'

3.4



New Bedford Harbor
Post Dredge
LY12 19-Nov-14
0' — 2.4



New Bedford Harbor
Post Dredge
LZ02 19 - Nov-14
0' — 2.0



New Bedford Harbor
Post-Dredge
OH10 17-Nov-14
0' ————— 2.5'



New Bedford Harbor
Post-Dredge
OH15 17-Nov-14
0' — 2.1



New Bedford Harbor
Post-Dredge
OI5 17-Nov-14
0' ————— 2.55'



New Bedford Harbor
Post-Dredge
OI18 17-Nov-14
0' ————— 1.6

Quartet



New Bedford Harbor
Post-Dredge
OJ13 17-Nov-14
0' ————— 2.5

01/25
DUP

New Bedford Harbor
Post-Dredge
OJ13 Dup 17-Nov-14
0' ————— 1.7



New Bedford Harbor
Post-Dredge
OL9 17-Nov-14
0' 1.91



New Bedford Harbor
Post-Dredge
OP10 17-Nov-14
0' ——— 1.5



New Bedford Harbor
Post-Dredge
OP100 up 17-Nov-14
0' ————— 1.9'



New Bedford Harbor
Post-Dredge
OP18 17-Nov-14
0' — 1.7



New Bedford Harbor
Post Dredge
PCC15 18-Nov-14
0' — 3.1



New Bedford Harbor
Post Dredge
PP2 18-Nov-14
0' — 3.8



New Bedford Harbor
Post Dredge
PQ5 18-Nov-14

0'

2.2'



New Bedford Harbor
Post Dredge
PR10 18-Nov-14

0' — 3.2'



New Bedford Harbor
Post Dredge
PV5 18-Nov-14
0' — 2.3



New Bedford Harbor
Post Dredge
PV9 18-Nov-14
0' — 2.4'

Note - this is Station PU9. DTDahlen 4/16/2015



New Bedford Harbor
Post Dredge
PW13 18-Nov-14
0' — 2.2

New Bedford Harbor
Post Dredge
RBB22 19-Nov-14
0' — 2.4'





New Bedford Harbor
Post Dredge
RCC10 19-Nov-14
0' — 2.4



New Bedford Harbor
Post Dredge
RCC14 19-Nov-14
0' — 3.0'

New Bedford Harbor
Post-Dredge
R000218-Nov-14
0' ——— 2.2

Quartet



New Bedford Harbor
Post Dredge
REE06 19-Nov-14
0' — 2.3

New Bedford Harbor
Post-Dredge
RF07 18-Nov-14
0' ——— 2.6



New Bedford Harbor
Post-Dredge
RF 11 18-Nov-14
0' ——— 2.1



New Bedford Harbor
Post Dredge
RF3/ 20-Nov-14
0' — 3.2



New Bedford Harbor
Post-Dredge
RG01 18-Nov-14
0' — 2.7



New Bedford Harbor
Post-Dredge
RG2418-Nov-14
0' — 3.4



New Bedford Harbor
Post Dredge
RGG22 20-Nov-14
0 ——— 1.6



New Bedford Harbor
Post Dredge
RH2720-Nov-14
0'—3.3



New Bedford Harbor
Post-Dredge
RI22 18-Nov-14
0' — 4.5'

RK08

New Bedford Harbor
Post Dredge
RK08 21-Nov-14

0—2.9





RM11

New Bedford Harbor - Post Bridge
Station: RM11 Length: 31.75
Date: 11-25-2014



NEW Bedford Harbor. Post Dredge
STATION RM14 Length: 1.4
Date: 11.25.2014



New Bedford Harbor
Post Dredge
RM26 18-Nov-14
0' — 3.3



New Bedford Harbor
Post Dredge

RM26 Dup 18-Nov-14

0' — 3.0



New Bedford Harbor - Post Dredge
STATION: RNO6 Length: 29'
DATE: 11-25-2014



New Bedford Harbor
Post Dredge
RN18 21-Nov-14

0—3.2'



32

New Bedford Harbor
Post Dredge
R032 21-Nov-14
0 — 3.2



A long, dark, rectangular sediment sample is shown horizontally. Below it is a yellow ruler with black markings in inches and feet. To the left of the sample is a white label with blue handwritten text. The entire setup is on a crinkled silver background.

New Bedford Harbor
Post Dredge
RP3020-Nov-14
0—2.8



New Bedford Harbor
Post Dredge
RQ26 20-Nov-14
0 — 3.0



New Bedford Harbor - Post Dredge
STATION: RR10 Length: 1.9
DATE: 11-25-2014



NEW Bedford Harbor Post Dodge
STATION: RS14 LENGTH: 2.2
DATE: 11-25-2014

RS14



New Bedford Harbor
Post Dredge
RS2221-Nov-14
0 — 2.6



New Bedford Harbor
Post Dredge
RTO2 19-Nov-14
0' — 2.8

New Bedford Harbor
Post Dredge
RU26 21-Nov-14
0 — 1.5

Quartet

New Bedford Harbor
Post Dredge
RU32 21-Nov-14
0 — 2.1

Quart



New Bedford Harbor
Post Dredge
RVOG 19-Nov-14

0' ——— 2.9'



New Bedford Harbor
Post Dredge
RW14 19-Nov-14
0' — 3.0



New Bedford Harbor
Post Dredge
RW18 19-Nov-14

0'

3.1'



New Bedford Harbor
Post Dredge
RW3019-Nov-14
0'—2.4



New Bedford Harbor
Post Dredge
RZ32 19-Nov-14
0' — 2.45

SL 2

New Bedford Harbor
Post Dredge
SL 2 19-Nov-14
0' — 2.65



New Bedford Harbor
Post Dredge
SL9 19-Nov-14
0' — 2.4'



New Bedford Harbor
Post Dredge
SM6 19-Nov-14
0' — 2.8'



New Bedford Harbor
Post Dredge
S02 19-Nov-14
0'—2.5

New Bedford Harbor
Post Dredge
S09 19-Nov-14
0' — 2.4



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Appendix C

PCB Congener Analytical Data and
QAPP Worksheets for 139 PCB Congeners

(Provided on CD only)

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USACE/NAE New Bedford Harbor Task Order 10
Project No 100043429
Pesticide / PCB by GC/ECD
SED
Batch 14-0314
Package DP-14-0430

Submitted to:
USACE/NAE
696 Virginia Road
Concord, MA 01742 USA

Submitted by:
Battelle Norwell Operations
141 Longwater Drive Suite 202
Norwell, MA 02061

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USACE/NAE New Bedford Harbor Task Order 10
Project No 100043429
Pesticide / PCB by GC/ECD
SED

Batch 14-0314
Package DP-14-0430

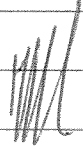
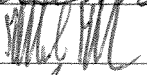
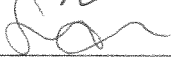
Submitted to:
USACE/NAE
696 Virginia Road
Concord, MA 01742 USA

Submitted by:
Battelle Norwell Operations
141 Longwater Drive Suite 202
Norwell, MA 02061

Analyst Approval:		Rich Restucci 2014.08.19 14:55:01 -04'00'
QC Chemist Approval:		Carla Devine 2014.08.20 15:05:16 -04'00'
Project Manager Approval:		Carole McCarthy 2014.08.22 07:39:16 -04'00'

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2014 Signature Page

Name (print)	Name (signature)	Initials
Matt Schumitz		MNS
Ellyn M Webb	Ellyn M Wehr	EMW
Carla Devine	Carla Devine	CRD
Roxanne M. Brackett	Roxanne M. Brackett	RMB
Robert Lizotte, Jr.	Robert Lizotte Jr.	BL
Lauren M Griffith	Lauren M Griffith	LMG
Kevin M. McInerney		KMC 
Michael Neenan		
Rich Restucci		RR
Stephanie Hart		SAH
Kerry Davis	Kerry Davis	KPD
Katherine Goodrow Robinson	Katherine Goodrow Robinson	KGR
Sam Guimaraes		SAG
Emily Fraser	Emily Fraser	EF
Denise Schumitz	Denise Schumitz	DAS
Jonathan Thorn		JRT
Christie Usher	Christie Usher	CU
Caitlyn Farragher	Caitlyn Farragher	CNF
Mart J. Benotti		
Guimiao H Brown		GB
Dawn Trapp	Dawn B Trapp	DBT
Carolee S. Riven McLaren	Carolee S Riven McLaren	CSRM
Weidong Li	Weidong Li	W.L
Jeannine Seyfert	Jeannine Seyfert	JS
FRANCO PALA	Francis Pala	FP

USACE/NAE New Bedford Harbor Task Order 10
Project No 100043429
Pesticide / PCB by GC/ECD
SED
Batch 14-0314
Package DP-14-0430

1	<i>Work Plan</i> Laboratory Work Plan, Addendums To Work Plan, Memos From Project Manager, Special Instructions, Chain-of-Custody Reports.	1
2	<i>Tables</i> Analytical Data Tables, Qualifier Definitions.	27
3	<i>Miscellaneous Documentation</i> Case Narrative, Miscellaneous Documentation Form, Quality Control Summary, Example Calculations, Internal Standard Recovery Report, Retention Time Window Report.	36
4	<i>Sample Preparation Records</i> Sample Preparation Records, Dilution Worksheets, Standard Preparation Records, Certificates Of Analysis, GPC Check Report.	49
5	<i>Analytical Calibrations</i> Analytical Sequence, Analytical Method, Tune Report, Initial Calibration, Pesticide Degradation Report, RF Summary, Calibration Verifications, Independent Calibration Verification Check.	84
6	<i>Analytical Data</i> Raw Data Quantification Reports.	136
7	<i>Chromatograms</i> Sample And Standard Chromatograms.	N/A
8	<i>Unused Data</i>	N/A



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WORK/QUALITY ASSURANCE PROJECT PLAN

1.0 GENERAL PROJECT INFORMATION

Project Title: USACE-NAE New Bedford Harbor Task Order 10 - Sediment
Project Number: 100043429
Client: USACE/NAE
 696 Virginia Road
 Concord, MA 01742
 USA
Client Contact Information: Peter Hugh
 Engineering Technical Lead
 (978) 318-8452(V)
 NA
 NA
Effective Date of QAPP: 5/27/2014
Version Number: 100043429(S)-02
Project Manager: Peven-McCarthy, Carole
Laboratory Task Manager: Peven-McCarthy, Carole
Deliverable Due Date: 8/14/2014

2.0 SCOPE OF WORK

Overview: Extraction and analysis of sediment samples for PCB congeners. Work package: -14LABBATSSED
Matrix: Soil/Sediment

2.1 TECHNICAL APPROACH

2.1.1 Sample Receipt, Storage, and Handling

The list of samples for this project plan are presented in Attachment 1.

Storage Directions: Store frozen.
Sub_Sampling: None
Procedures: NA
Contact: NA
Comment: NA
Archiving: Store frozen.
Disposal: Retain for 6 months from delivery of final data.



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WORK/QUALITY ASSURANCE PROJECT PLAN

2.1.2 Sample Preparation

Initially 40 sediments will be identified for analysis.

Samples Expected:	Samples Per Batch:	Batches Expected:
40	20	2

Batch quality control samples are defined in Table 1.

Target samples are presented in Attachment 1.

Table 1: Quality Control Samples

Type:	Description:	Count:	Rgt:	Reference:	Comment:
PB	Laboratory control reagent blank.	1 per batch	--	NA	
LCS	Laboratory Control Sample	1 per batch	No	NA	
LCSD	Laboratory Control Sample Duplicate	1 per batch	No	NA	
MS	Spiked field sample for determining method accuracy in the presence of matrix.	1 per batch	--	NA	Use samples identified as "4" for background for MS/MSD
MSD	Spiked field sample for determining method accuracy and precision in the presence of matrix.	1 per batch	--	NA	

2.1.3 Extraction/Preparation

2.1.3.1 Extraction

SOP No.-Rev:	5-192-14
SOP Title:	<i>Soil/Sediment Extraction for Trace Level Semi-Volatile Organic Contaminant Analysis</i>
Sample Size:	10 g
SIS and LCS/MS Compounds:	Defined in Table 2.
Deviations:	NA
Comments:	Samples must be air dried to <50% moisture prior to extraction. Homogenize, remove ~30 g from original sample jar, place on labeled foil, loosely fold over foil and leave in hood overnight. Sample weight: use attached spreadsheet to determine sample size for extraction. "1" = 2.5 g "2" = 2.5 g "3" = 5 g "4" = 10 g



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WORK/QUALITY ASSURANCE PROJECT PLAN

Place all "1" samples in first batch; supplement batch with "2's" and one "4" for the MS/MSD.

Table 2: SIS and LCS/MS Spiking Level

Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PCB Surrogate	HW93 SIS	~ 400 ng	400 uL	NA
PCB/Pesticide Standard HU72	LCS/MS	~ 50 - 750 ng	125 uL	MS spike
PCB/Pesticide Standard HU72	LCS/MS	~ 30.0 - 450 ng	75 uL	LCS samples

2.1.3.2 Cleanup

- 1) SOP No.-Rev: **5-328-04**
 SOP Title: *Removal (cleanup) of Sulfur from Environmental Sample Extracts*
 Deviations: NA
 Comments: NA
- 2) SOP No.-Rev: **5-327-04**
 SOP Title: *Florisil Cleanup of Environmental Sample Extracts*
 Deviations: Elute with Hexane only
 Comments: NA

RIS spiking levels are presented in Table 3.

Extract PIV (uL): 1000

Table 3: RIS Spiking Level

Standard Type	Standard Contents	Spike Amount (ng)	Volume (uL)	Comment
PCB IS	HX16 RIS	~ 100 ng	100 uL	NA

2.1.4 Instrumental Analysis

The list of analytes along with data quality criteria are presented in Attachment 2.

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WORK/QUALITY ASSURANCE PROJECT PLAN

- 1) SOP_No-Rev: **5-128-13**
 SOP_Title: *Identification and Quantification of Polychlorinated Biphenyls (By Congener and Aroclor) and Chlorinated Pesticides by Gas Chromatography/Electron Capture Detection*
 Deviations: NA
 Comments: NA
- 2) SOP_No-Rev: **5-315-10**
 SOP_Title: *Identification and Quantification of Polychlorinated Biphenyl Congeners (PCBs), PCB Homologues, and Chlorinated Pesticides by Gas Chromatography / Mass Spectroscopy in the Selected Ion Monitoring (SIM) Mode*
 Deviations: NA
 Comments: Note: for non-detects, "U" is the qualifier and the ssRL will be reported.

2.2. DELIVERABLES

Deliverables Due:	8/14/2014
LIMS Reports:	Yes
Histograms:	No
Excel Tables:	Yes
EICs:	No
Chromatograms:	No
EDDs:	Yes
Comments:	Required 15 day TAT.

New Bedford Harbor EDD required.
 Full data package (pdf) required for external validation.
 Detailed quant reports are not required.

3.0 QUALITY

The Method Quality Objectives are defined in Attachment 3.

4.0 ORGANIZATION AND COMMUNICATION

4.1 ORGANIZATION

The project team is defined in Table 4. Supervisors may make substitutions with Project Manager concurrence.

Table 4: Project Team and Roles

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WORK/QUALITY ASSURANCE PROJECT PLAN

Staff Member	Role	Comment
Carole S. Peven-McCarthy	Project Manager	NA
Samuel A. Guimaraes	Sample Preparation	NA
Lauren M. Griffith	GC/MS Analysis	NA
Richard P. Restucci Jr	GC/ECD Analysis	NA
Matt D. Schumitz	Sample Custody	NA
Carla R. Devine	Quality Control Officer	NA

4.2 COMMUNICATION

A kick-off meeting will be held to discuss project scope and goals.

5.0 SCHEDULE

The project schedule is presented in Table 5.

Table 5. Schedule of Laboratory Activities

Activity:	Start Date:	End Date:	TAT (days):	Comment:
Sample Receipt	05/09/2014	05/09/2014	0	NA
Sample Preparation	05/22/2014	05/29/2014	7	NA
Instrument Analysis	05/27/2014	06/03/2014	7	NA
Quality Control Review	06/02/2014	06/04/2014	2	NA
Final Data Reporting	06/04/2014	06/04/2014	0	NA

6.0 BUDGET

The labor budget for the analytical task is presented in Table 6.

Table 6. Labor Budget (Laboratory Analytical Task)

Labor Activity:	Hours/ Batch:	Batches:	Total Hours:	Comment:
Sample Receipt	1	2	2	NA
Sample Preparation	33	2	66	Pre-processing = drying
<i>Extraction</i>	27			
<i>glassware</i>	5			
<i>Sample pre-processing</i>	1			

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WORK/QUALITY ASSURANCE PROJECT PLAN

Labor Activity:	Hours/ Batch:	Batches:	Total Hours:	Comment:
Instrument Analysis	16	1	16	NA
<i>GC/ECD</i>	<i>16</i>			
Quality Control Review	4	2	8	NA
Final Data Reporting	1	2	2	NA

7.0 STAFF DEVELOPMENT



WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 1: Target Samples

Shipment: SHP-140509-01

Status: Approved

Description: New Bedford Harbor

Range: M3511-M3662

Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	M3511	S-14A-3325-07-17	04/29/2014 12:00 am	SED	F0117 (NA)			
2	M3512	S-14A-3325-17-27	04/29/2014 12:00 am	SED	F0117 (NA)			
3	M3514	S-14A-3325-37-47	04/29/2014 12:00 am	SED	F0117 (NA)			
4	M3521	S-14A-3326-23-33	04/30/2014 12:00 am	SED	F0117 (NA)			
5	M3522	S-14A-3326-33-43	04/30/2014 12:00 am	SED	F0117 (NA)			
6	M3525	S-14A-3329-23-33	04/30/2014 12:00 am	SED	F0117 (NA)			
7	M3526	S-14A-3329-33-43	04/30/2014 12:00 am	SED	F0117 (NA)			
8	M3527	S-14A-3331-00-10	04/30/2014 12:00 am	SED	F0117 (NA)			
9	M3528	S-14A-3331-10-20	04/30/2014 12:00 am	SED	F0117 (NA)			
10	M3543	S-14Y-3315-20-28	05/02/2014 12:00 am	SED	F0117 (NA)			
11	M3544	S-14Y-3313-00-11	05/01/2014 12:00 am	SED	F0117 (NA)			
12	M3545	S-14Y-3313-11-21	05/01/2014 12:00 am	SED	F0117 (NA)			
13	M3547	S-14Y-3317-10-20	05/02/2014 12:00 am	SED	F0117 (NA)			
14	M3548	S-14Y-3317-20-30	05/02/2014 12:00 am	SED	F0117 (NA)	BIN	1	
15	M3549	S-14Y-335-00-10	05/01/2014 12:00 am	SED	F0117 (NA)	BIN	1	
16	M3550	S-14Y-335-10-20	05/01/2014 12:00 am	SED	F0117 (NA)			
17	M3552	S-14Y-334-00-07	05/01/2014 12:00 am	SED	F0117 (NA)			
18	M3553	S-14Y-334-07-17	05/01/2014 12:00 am	SED	F0117 (NA)			
19	M3555	S-14Y-337-00-11	05/01/2014 12:00 am	SED	F0117 (NA)			
20	M3556	S-14Y-337-11-21	05/01/2014 12:00 am	SED	F0117 (NA)			
21	M3560	S-14A-3323-00-08	04/30/2014 12:00 am	SED	F0117 (NA)	BIN	1	
22	M3561	S-14A-3323-08-18	04/30/2014 12:00 am	SED	F0117 (NA)	BIN	1	
23	M3563	S-14A-3327-00-07	04/30/2014 12:00 am	SED	F0117 (NA)	BIN	1	
24	M3564	S-14A-3327-07-17	04/30/2014 12:00 am	SED	F0117 (NA)			
25	M3565	S-14A-3327-17-27	04/30/2014 12:00 am	SED	F0117 (NA)			
26	M3574	S-14A-333-13-23	04/30/2014 12:00 am	SED	F0117 (NA)	BIN	1	
27	M3595	S-14A-3311-00-09	04/28/2014 12:00 am	SED	F0117 (NA)	BIN	2	
28	M3598	S-14A-3610-00-06	04/28/2014 12:00 am	SED	F0117 (NA)	BIN	2	
29	M3599	S-14A-3610-06-16	04/28/2014 12:00 am	SED	F0117 (NA)	BIN	2	
30	M3609	S-14A-3312-00-10	04/30/2014 12:00 am	SED	F0117 (NA)	BIN	2	
31	M3612	S-14A-361-05-15	04/29/2014 12:00 am	SED	F0117 (NA)	BIN	2	
32	M3617	S-14A-365-15-26	04/29/2014 12:00 am	SED	F0117 (NA)	BIN	2	
33	M3619	S-14A-364-08-18	04/29/2014 12:00 am	SED	F0117 (NA)	BIN	2	
34	M3624	S-14A-3319-08-18	04/29/2014 12:00 am	SED	F0117 (NA)	BIN	2	
35	M3625	S-14A-3319-18-28	04/29/2014 12:00 am	SED	F0117 (NA)	BIN	2	
36	M3641	S-14A-3312REP-00-09	04/30/2014 12:00 am	SED	F0117 (NA)	BIN	3	
37	M3649	S-14A-331-00-06	04/29/2014 12:00 am	SED	F0117 (NA)	BIN	3	
38	M3658	S-14A-362-00-11	04/29/2014 12:00 am	SED	F0117 (NA)	BIN	3	
39	M3661	S-14Y-3311-REP-00-10	05/01/2014 12:00 am	SED	F0117 (NA)	BIN	3	
40	M3662	S-14Y-3311-REP-10-20	05/01/2014 12:00 am	SED	F0117 (NA)	BIN	3	



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WORK/QUALITY ASSURANCE PROJECT PLAN

Shipment: SHP-140724-01

Status: Pending

Description: New Bedford Harbor

Range: M4556-M4570

Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility: Location:	No:	Comments:
1	M4556	S-14L-OH2-00-05	07/17/2014 9:00 am	SED	F0002 (Walk-in)		
2	M4557	S-14L-OG5-00-05	07/17/2014 9:38 am	SED	F0002 (Walk-in)		
3	M4558	S-14L-OI5-00-05	07/17/2014 9:52 am	SED	F0002 (Walk-in)		
4	M4559	S-14L-OH10-00-05	07/17/2014 10:10 am	SED	F0002 (Walk-in)		
5	M4560	S-14L-OJ08-00-05	07/17/2014 10:59 am	SED	F0002 (Walk-in)		
6	M4561	S-14L-OL6-00-05	07/17/2014 11:15 am	SED	F0002 (Walk-in)		
7	M4562	S-14L-OL9-00-05	07/17/2014 11:42 am	SED	F0002 (Walk-in)		
8	M4563	S-14L-OL9-DUP-00-05	07/17/2014 11:51 am	SED	F0002 (Walk-in)		
9	M4564	S-14L-OP10-00-05	07/17/2014 12:01 pm	SED	F0002 (Walk-in)		
10	M4565	S-14L-ON11-00-05	07/17/2014 12:28 pm	SED	F0002 (Walk-in)		
11	M4566	S-14L-OJ13-00-05	07/17/2014 12:45 pm	SED	F0002 (Walk-in)		
12	M4567	S-14L-OO15-00-05	07/17/2014 1:06 pm	SED	F0002 (Walk-in)		
13	M4568	S-14L-OL17-00-05	07/17/2014 1:20 pm	SED	F0002 (Walk-in)		
14	M4569	S-14L-OP18-00-05	07/17/2014 1:35 pm	SED	F0002 (Walk-in)		
15	M4570	S-14L-ON20-00-05	07/17/2014 1:45 pm	SED	F0002 (Walk-in)		

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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name:	Master_128
SOP Reference:	5-128 - Identification and Quantification of Polychlorinated Biphenyls (By Congener and Aroclor) and Chlorinated Pesticides by Gas Chromatography/Electron Capture Detection
Description:	Pesticide / PCB by GC/ECD
Matrix:	S - Solid Samples, like soil or sediment, prepared and analyzed under the same class of detection limits.
Detection Limit Study:	5-128-2013-ssMDL-SF
Instrument:	ECD
MQO Criteria	USACE/NBH
Standard Report:	Standard Result Report

Method Specific Reporting				Holding Times (days)	Data Flags
Result Units:	ng/g	Unit Conversion:	(none)	Sample: 7	DL_Flag: U
Weight Basis:	DRY	Result Format:	Significant Figures	Frozen: 40	RL_Flag: J
Standard Basis:	RIS	# of Figures/Digits:	3	Extract: 40	PB_Flag: B
Oil Weight Basis:	No	Oil Weight Source:	Oil Weight		DIL_Flag: D
U-Value Substitution:	U-Flag=NED	Histograms:	No		HT_Flag: T
ECD_Reporting:	Yes				
ECD_Result:	Higher	ECD_Flag	p		
RPD_Limit (<%):	40	ECD_Manual_Flag:	m		

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
1	Cl2(8)	Cl2(8)	T	Cl5(96)	Cl3(34)	No	No
2	Cl3(18)	Cl3(18)	T	Cl5(96)	Cl3(34)	No	No
3	Cl3(28)	Cl3(28)	T	Cl5(96)	Cl3(34)	No	No
4	Cl4(44)	Cl4(44)	T	Cl5(96)	Cl3(34)	No	No
5	Cl4(52)	Cl4(52)	T	Cl5(96)	Cl3(34)	No	No
6	Cl4(66)	Cl4(66)	T	Cl5(96)	Cl3(34)	No	No
7	Cl5(101)	Cl5(101)	T	Cl5(96)	Cl3(34)	No	No
8	Cl5(105)	Cl5(105)	T	Cl6(161)	Cl6(152)	No	No
9	Cl5(118)	Cl5(118)	T	Cl6(161)	Cl6(152)	No	No
10	Cl6(128)	Cl6(128)	T	Cl6(161)	Cl6(152)	No	No
11	Cl6(138)	Cl6(138)	T	Cl6(161)	Cl6(152)	No	No
12	Cl6(153)	Cl6(153)	T	Cl6(161)	Cl6(152)	No	No
13	Cl7(170)	Cl7(170)	T	Cl6(161)	Cl6(152)	No	No
14	Cl7(180)	Cl7(180)	T	Cl6(161)	Cl6(152)	No	No
15	Cl7(187)	Cl7(187)	T	Cl6(161)	Cl6(152)	No	No
16	Cl8(195)	Cl8(195)	T	Cl6(161)	Cl6(152)	No	No



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_128

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
17	CI9(206)	CI9(206)	T	CI6(161)	CI6(152)	No	No
18	CI10(209)	CI10(209)	T	CI6(161)	CI6(152)	No	No
1	CI3(34)	CI3(34)	SIS	CI5(96)		No	No
2	CI6(152)	CI6(152)	SIS	CI6(161)		No	No
Total Analytes:		20					

Subtract Peaks:

None

Sum Peaks:

None



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Attachment 2: Test Codes

Project Test Code Name: Master_128

ICAL Acceptance Criteria:

Curve Fit:	Limit Mean(%):	Mean Qual:	Limit Ind.:	Ind. Qual:	Min Points:	Points Qual:	Comments:
Linear	NA	NA	0.995	N	5	N	y = Bx + C
Average RF	15	N	25	N	5	N	y = Bx
Linear (0,0)	NA	NA	0.995	N	5	N	y = Bx + 0
Quadratic	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + C
Quadratic (0,0)	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + 0

Continuing Calibration Verification Criteria:

CCV Name: 5-128

Frequency Hrs:	Mean PD(%):	Individual PD(%):	RIS/SIS RT Window (min):	Area Limit Low(%):	Area Limit High(%):	Comment:
24 (N)	15 (N)	20 (N)	0.25 (N)	-50	100 (N)	NA

Independent Calibration Verification:

ICC Name: 5-128

Mean PD Limit(%):	Ind. PD Limit(%):	RIS/SIS Window Limit (Secs):	Area Limit High(%):	Area Limit Low(%):	Comment:
20 (N)	20 (N)	0.25 (N)	-50	100 (N)	NA

Mass Discrimination Criteria:

None

Degradation Check Criteria:

Degradation Check Name: 5-128

DDT Breakdown Limit (%):	Endrin Breakdown Limit(%):	Total Breakdown Limit(%):	Comment:
20 (N)	20 (N)	20 (N)	

Attachment 2: Test Codes

Project Test Code Name: Master_315

SOP Reference: 5-315 - Identification and Quantification of Polychlorinated Biphenyl Congeners (PCBs), PCB Homologues, and Chlorinated Pesticides by Gas Chromatography / Mass Spectroscopy in the Selected Ion Monitoring (SIM) Mode

Description: Pesticide/PCB by GC/MS SIM

Matrix: S - Solid Samples, like soil or sediment, prepared and analyzed under the same class of detection limits.

Detection Limit Study: RL-NA-MS

Instrument: GCMS

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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_315

MQO Criteria USACE/NBH

Standard Report: Standard Result Report

Method Specific Reporting				Holding Times (days)	Data Flags
Result Units:	ug/Kg	Unit Conversion:	(none)	Sample: 14	DL_Flag: U
Weight Basis:	DRY	Result Format:	Significant Figures	Frozen: 365	RL_Flag: J
Standard Basis:	RIS	# of Figures/Digits:	3	Extract: 40	PB_Flag: B
Oil Weight Basis:	No	Oil Weight Source:	Oil Weight		DIL_Flag: D
U-Value Substitution:	ND=MDL	Histograms:	No		HT_Flag: T
ECD_Reporting:	No				

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
1	Cl1(1)	Cl1(1)	T	Cl5(96)	Cl3(34)	No	No
2	Cl1(3)	Cl1(3)	T	Cl5(96)	Cl3(34)	No	No
3	Cl2(4)	Cl2(4)	T	Cl5(96)	Cl3(34)	No	No
4	Cl2(5)	Cl2(5)	T	Cl5(96)	Cl3(34)	No	No
5	Cl2(6)	Cl2(6)	T	Cl5(96)	Cl3(34)	No	No
6	Cl2(7)	Cl2(7)	T	Cl5(96)	Cl3(34)	No	No
7	Cl2(8)	Cl2(8)	T	Cl5(96)	Cl3(34)	No	No
8	Cl2(9)	Cl2(9)	T	Cl5(96)	Cl3(34)	No	No
9	Cl2(11)	Cl2(11)	T	Cl5(96)	Cl3(34)	No	No
10	Cl2(12)	Cl2(12)	T	Cl5(96)	Cl3(34)	No	No
11	Cl2(13)	Cl2(13)	T	Cl5(96)	Cl3(34)	No	No
12	Cl2(15)	Cl2(15)	T	Cl5(96)	Cl3(34)	No	No
13	Cl3(16)	Cl3(16)	T	Cl5(96)	Cl3(34)	No	No
14	Cl3(17)	Cl3(17)	T	Cl5(96)	Cl3(34)	No	No
15	Cl3(18)	Cl3(18)	T	Cl5(96)	Cl3(34)	No	No
16	Cl3(19)	Cl3(19)	T	Cl5(96)	Cl3(34)	No	No
17	Cl3(22)	Cl3(22)	T	Cl5(96)	Cl3(34)	No	No
18	Cl3(24)	Cl3(24)	T	Cl5(96)	Cl3(34)	No	No
19	Cl3(25)	Cl3(25)	T	Cl5(96)	Cl3(34)	No	No
20	Cl3(26)	Cl3(26)	T	Cl5(96)	Cl3(34)	No	No
21	Cl3(27)	Cl3(27)	T	Cl5(96)	Cl3(34)	No	No
22	Cl3(28)	Cl3(28)	T	Cl5(96)	Cl3(34)	No	No
23	Cl3(29)	Cl3(29)	T	Cl5(96)	Cl3(34)	No	No
24	Cl3(30)	Cl3(30)	T	Cl5(96)	Cl3(34)	No	No
25	Cl3(31)	Cl3(31)	T	Cl5(96)	Cl3(34)	No	No
26	Cl3(32)	Cl3(32)	T	Cl5(96)	Cl3(34)	No	No
27	Cl3(33)	Cl3(33)	T	Cl5(96)	Cl3(34)	No	No
28	Cl3(37)	Cl3(37)	T	Cl5(96)	Cl3(34)	No	No
29	Cl4(40)	Cl4(40)	T	Cl5(96)	Cl3(34)	No	No

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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_315

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
30	CI4(41)	CI4(41)	T	CI5(96)	CI3(34)	No	No
31	CI4(42)	CI4(42)	T	CI5(96)	CI3(34)	No	No
32	CI4(43)	CI4(43)	T	CI5(96)	CI3(34)	No	No
33	CI4(44)	CI4(44)	T	CI5(96)	CI3(34)	No	No
34	CI4(45)	CI4(45)	T	CI5(96)	CI3(34)	No	No
35	CI4(46)	CI4(46)	T	CI5(96)	CI3(34)	No	No
36	CI4(47)	CI4(47)	T	CI5(96)	CI3(34)	No	No
37	CI4(48)	CI4(48)	T	CI5(96)	CI3(34)	No	No
38	CI4(49)	CI4(49)	T	CI5(96)	CI3(34)	No	No
39	CI4(50)	CI4(50)	T	CI5(96)	CI3(34)	No	No
40	CI4(51)	CI4(51)	T	CI5(96)	CI3(34)	No	No
41	CI4(52)	CI4(52)	T	CI5(96)	CI3(34)	No	No
42	CI4(53)	CI4(53)	T	CI5(96)	CI3(34)	No	No
43	CI4(54)	CI4(54)	T	CI5(96)	CI3(34)	No	No
44	CI4(56)	CI4(56)	T	CI5(96)	CI3(34)	No	No
45	CI4(60)	CI4(60)	T	CI6(161)	CI6(152)	No	No
46	CI4(63)	CI4(63)	T	CI5(96)	CI3(34)	No	No
47	CI4(64)	CI4(64)	T	CI5(96)	CI3(34)	No	No
48	CI4(66)	CI4(66)	T	CI5(96)	CI3(34)	No	No
49	CI4(67)	CI4(67)	T	CI5(96)	CI3(34)	No	No
50	CI4(70)	CI4(70)	T	CI5(96)	CI3(34)	No	No
51	CI4(71)	CI4(71)	T	CI5(96)	CI3(34)	No	No
52	CI4(74)	CI4(74)	T	CI5(96)	CI3(34)	No	No
53	CI4(75)	CI4(75)	T	CI5(96)	CI3(34)	No	No
54	CI4(77)	CI4(77)	T	CI6(161)	CI6(152)	No	No
55	CI4(80)	CI4(80)	T	CI5(96)	CI3(34)	No	No
56	CI4(81)	CI4(81)	T	CI6(161)	CI6(152)	No	No
57	CI5(82)	CI5(82)	T	CI6(161)	CI6(152)	No	No
58	CI5(83)	CI5(83)	T	CI6(161)	CI6(152)	No	No
59	CI5(84)	CI5(84)	T	CI5(96)	CI3(34)	No	No
60	CI5(85)	CI5(85)	T	CI6(161)	CI6(152)	No	No
61	CI5(87)	CI5(87)	T	CI6(161)	CI6(152)	No	No
62	CI5(91)	CI5(91)	T	CI5(96)	CI3(34)	No	No
63	CI5(92)	CI5(92)	T	CI5(96)	CI3(34)	No	No
64	CI5(95)	CI5(95)	T	CI5(96)	CI3(34)	No	No
65	CI5(97)	CI5(97)	T	CI6(161)	CI6(152)	No	No
66	CI5(99)	CI5(99)	T	CI6(161)	CI6(152)	No	No
67	CI5(100)	CI5(100)	T	CI5(96)	CI3(34)	No	No
68	CI5(101)	CI5(101)	T	CI5(96)	CI3(34)	No	No
69	CI5(104)	CI5(104)	T	CI5(96)	CI3(34)	No	No
70	CI5(105)	CI5(105)	T	CI6(161)	CI6(152)	No	No
71	CI5(110)	CI5(110)	T	CI6(161)	CI6(152)	No	No
72	CI5(114)	CI5(114)	T	CI6(161)	CI6(152)	No	No
73	CI5(115)	CI5(115)	T	CI6(161)	CI6(152)	No	No
74	CI5(118)	CI5(118)	T	CI6(161)	CI6(152)	No	No
75	CI5(123)	CI5(123)	T	CI6(161)	CI6(152)	No	No

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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_315

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
76	CI5(124)	CI5(124)	T	CI6(161)	CI6(152)	No	No
77	CI5(125)	CI5(125)	T	CI6(161)	CI6(152)	No	No
78	CI5(126)	CI5(126)	T	CI6(161)	CI6(152)	No	No
79	CI5(127)	CI5(127)	T	CI6(161)	CI6(152)	No	No
80	CI6(128)	CI6(128)	T	CI6(161)	CI6(152)	No	No
81	CI6(130)	CI6(130)	T	CI6(161)	CI6(152)	No	No
82	CI6(131)	CI6(131)	T	CI6(161)	CI6(152)	No	No
83	CI6(134)	CI6(134)	T	CI6(161)	CI6(152)	No	No
84	CI6(135)	CI6(135)	T	CI6(161)	CI6(152)	No	No
85	CI6(136)	CI6(136)	T	CI6(161)	CI6(152)	No	No
86	CI6(137)	CI6(137)	T	CI6(161)	CI6(152)	No	No
87	CI6(138)	CI6(138)	T	CI6(161)	CI6(152)	No	No
88	CI6(139)	CI6(139)	T	CI6(161)	CI6(152)	No	No
89	CI6(140)	CI6(140)	T	CI6(161)	CI6(152)	No	No
90	CI6(141)	CI6(141)	T	CI6(161)	CI6(152)	No	No
91	CI6(144)	CI6(144)	T	CI6(161)	CI6(152)	No	No
92	CI6(146)	CI6(146)	T	CI6(161)	CI6(152)	No	No
93	CI6(149)	CI6(149)	T	CI6(161)	CI6(152)	No	No
94	CI6(151)	CI6(151)	T	CI6(161)	CI6(152)	No	No
95	CI6(153)	CI6(153)	T	CI6(161)	CI6(152)	No	No
96	CI6(154)	CI6(154)	T	CI6(161)	CI6(152)	No	No
97	CI6(155)	CI6(155)	T	CI5(96)	CI3(34)	No	No
98	CI6(156)	CI6(156)	T	CI6(161)	CI6(152)	No	No
99	CI6(157)	CI6(157)	T	CI6(161)	CI6(152)	No	No
100	CI6(158)	CI6(158)	T	CI6(161)	CI6(152)	No	No
101	CI6(163)	CI6(163)	T	CI6(161)	CI6(152)	No	No
102	CI6(164)	CI6(164)	T	CI6(161)	CI6(152)	No	No
103	CI6(166)	CI6(166)	T	CI6(161)	CI6(152)	No	No
104	CI6(167)	CI6(167)	T	CI6(161)	CI6(152)	No	No
105	CI6(169)	CI6(169)	T	CI6(161)	CI6(152)	No	No
106	CI7(170)	CI7(170)	T	CI6(161)	CI6(152)	No	No
107	CI7(171)	CI7(171)	T	CI6(161)	CI6(152)	No	No
108	CI7(172)	CI7(172)	T	CI6(161)	CI6(152)	No	No
109	CI7(173)	CI7(173)	T	CI6(161)	CI6(152)	No	No
110	CI7(174)	CI7(174)	T	CI6(161)	CI6(152)	No	No
111	CI7(175)	CI7(175)	T	CI6(161)	CI6(152)	No	No
112	CI7(176)	CI7(176)	T	CI6(161)	CI6(152)	No	No
113	CI7(177)	CI7(177)	T	CI6(161)	CI6(152)	No	No
114	CI7(178)	CI7(178)	T	CI6(161)	CI6(152)	No	No
115	CI7(179)	CI7(179)	T	CI6(161)	CI6(152)	No	No
116	CI7(180)	CI7(180)	T	CI6(161)	CI6(152)	No	No
117	CI7(183)	CI7(183)	T	CI6(161)	CI6(152)	No	No
118	CI7(184)	CI7(184)	T	CI6(161)	CI6(152)	No	No
119	CI7(185)	CI7(185)	T	CI6(161)	CI6(152)	No	No
120	CI7(187)	CI7(187)	T	CI6(161)	CI6(152)	No	No
121	CI7(188)	CI7(188)	T	CI6(161)	CI6(152)	No	No

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Attachment 2: Test Codes

Project Test Code Name: Master_315

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
122	CI7(189)	CI7(189)	T	CI6(161)	CI6(152)	No	No
123	CI7(190)	CI7(190)	T	CI6(161)	CI6(152)	No	No
124	CI7(191)	CI7(191)	T	CI6(161)	CI6(152)	No	No
125	CI7(193)	CI7(193)	T	CI6(161)	CI6(152)	No	No
126	CI8(194)	CI8(194)	T	CI6(161)	CI6(152)	No	No
127	CI8(195)	CI8(195)	T	CI6(161)	CI6(152)	No	No
128	CI8(197)	CI8(197)	T	CI6(161)	CI6(152)	No	No
129	CI8(198)	CI8(198)	T	CI6(161)	CI6(152)	No	No
130	CI8(199)	CI8(199)	T	CI6(161)	CI6(152)	No	No
131	CI8(200)	CI8(200)	T	CI6(161)	CI6(152)	No	No
132	CI8(201)	CI8(201)	T	CI6(161)	CI6(152)	No	No
133	CI8(202)	CI8(202)	T	CI6(161)	CI6(152)	No	No
134	CI8(203)	CI8(203)	T	CI6(161)	CI6(152)	No	No
135	CI8(205)	CI8(205)	T	CI6(161)	CI6(152)	No	No
136	CI9(206)	CI9(206)	T	CI6(161)	CI6(152)	No	No
137	CI9(207)	CI9(207)	T	CI6(161)	CI6(152)	No	No
138	CI9(208)	CI9(208)	T	CI6(161)	CI6(152)	No	No
139	CI10(209)	CI10(209)	T	CI6(161)	CI6(152)	No	No
140	LOC 1	LOC 1	T	CI5(96)	CI3(34)	No	No
141	LOC 2	LOC 2	T	CI5(96)	CI3(34)	No	No
142	LOC 3	LOC 3	T	CI5(96)	CI3(34)	No	No
143	LOC 4	LOC 4	T	CI5(96)	CI3(34)	No	No
144	LOC 5	LOC 5	T	CI5(96)	CI3(34)	No	No
145	LOC 6	LOC 6	T	CI6(161)	CI6(152)	No	No
146	LOC 7	LOC 7	T	CI6(161)	CI6(152)	No	No
147	LOC 8	LOC 8	T	CI6(161)	CI6(152)	No	No
148	LOC 9	LOC 9	T	CI6(161)	CI6(152)	No	No
149	LOC 10	LOC 10	T			No	No
1	CI3(34)	CI3(34)	SIS	CI5(96)		No	No
2	CI6(152)	CI6(152)	SIS	CI6(161)		No	No

Total Analytes: 151

Subtract Peaks:

None

Sum Peaks:

Compound:		LOC 1				
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
CI1(1)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
CI1(3)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Compound:		LOC 2				
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
CI2(4)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
CI2(5)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	



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Attachment 2: Test Codes

Project Test Code Name: Master_315

Compound: LOC 2						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl2(6)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(7)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(8)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(9)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(11)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(12)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(13)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(15)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Compound: LOC 3						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl3(16)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(17)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(18)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(19)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(22)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(24)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(25)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(26)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(27)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(28)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(29)	1.000	No	FIXED-ZERO	Replace a non-detect with 0		
Cl3(30)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(31)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(32)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(33)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(37)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(38)	1.000	No	FIXED-ZERO	Replace a non-detect with 0		
Compound: LOC 4						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl4(40)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(41)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(42)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(43)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(44)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(45)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(46)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(47)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(48)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(49)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(50)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(51)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(52)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(53)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		

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Attachment 2: Test Codes

Project Test Code Name: Master_315

Compound: LOC 4						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl4(54)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(56)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(60)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(63)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(64)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(66)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(67)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(70)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(71)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(74)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(75)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(77)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(80)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(81)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(61)		1.000	No	FIXED-ZERO	Replace a non-detect with 0	
Compound: LOC 5						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl5(82)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(83)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(84)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(85)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(87)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(91)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(92)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(95)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(97)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(99)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(100)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(101)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(104)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(105)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(110)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(114)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(115)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(118)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(123)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(124)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(125)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(126)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(127)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Compound: LOC 6						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl6(128)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	



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Attachment 2: Test Codes

Project Test Code Name: Master_315

Compound: LOC 6						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl6(130)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(131)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(134)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(135)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(136)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(137)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(138)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(139)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(140)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(141)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(144)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(146)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(149)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(151)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(153)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(154)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(155)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(156)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(157)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(158)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(163)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(164)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(166)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(167)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(169)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Compound: LOC 7						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl7(170)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(171)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(172)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(173)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(174)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(175)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(176)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(177)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(178)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(179)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(180)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(183)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(184)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(185)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(187)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(188)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(189)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	

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Attachment 2: Test Codes

Project Test Code Name: Master_315

Compound: LOC 7						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl7(190)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(191)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(193)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl7(186)		1.000	No	FIXED-ZERO	Replace a non-detect with 0	
Compound: LOC 8						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl8(194)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl8(195)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl8(197)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl8(198)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl8(199)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl8(200)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl8(201)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl8(202)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl8(203)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl8(205)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Compound: LOC 9						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl9(206)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl9(207)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl9(208)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Compound: LOC 10						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl10(209)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	



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Attachment 2: Test Codes

Project Test Code Name: Master_315

ICAL Acceptance Criteria:

Curve Fit:	Limit Mean(%):	Mean Qual:	Limit Ind.:	Ind. Qual:	Min Points:	Points Qual:	Comments:
Linear	NA	NA	0.995	N	5	N	$y = Bx + C$
Average RF	15	N	25	N	5	N	$y = Bx$
Linear (0,0)	NA	NA	0.995	N	5	N	$y = Bx + 0$
Quadratic	NA	NA	0.995	N	6	N	$y = Ax^2 + Bx + C$
Quadratic (0,0)	NA	NA	0.995	N	6	N	$y = Ax^2 + Bx + 0$

Continuing Calibration Verification Criteria:

CCV Name: 5-315

Frequency Hrs:	Mean PD(%):	Individual PD(%):	RIS/SIS RT Window (min):	Area Limit Low(%):	Area Limit High(%):	Comment:
24 (N)	15 (N)	25 (N)	0.25 (N)	-50	100 (N)	NA

Independent Calibration Verification:

ICC Name: 5-315

Mean PD Limit(%):	Ind. PD Limit(%):	RIS/SIS Window Limit (Secs):	Area Limit High(%):	Area Limit Low(%):	Comment:
25 (N)	25 (N)	0.25 (N)	-50	100 (N)	NA

Mass Discrimination Criteria:

None

Degradation Check Criteria:

Degradation Check Name: 5-315

DDT Breakdown Limit (%):	Endrin Breakdown Limit(%):	Total Breakdown Limit(%):	Comment:
20 (N)	20 (N)	20 (N)	



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Attachment 3: Method Quality Objectives

MQO Application	USACE/NBH		
MQO	Acceptance Criteria	Qual:	Corrective Action:
Procedural Blank	Samples must be greater than five times the blank concentration (>5xPB).	B	Review with Project Manager; re-analyze or justify results in project records.
PB Measurement Quality Objective	Organic results in the Procedural Blank are less than the ssRL (<ssRL)	N	
Laboratory Control Sample	Recovery values 40-120%.	N	Review with project manager; re-analyze or justify reporting the results in project records.
Matrix Spike Recovery	Organics 40-120%. Analyte concentration in MS must be greater than five times reported background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Matrix Spike/Spike Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Spike must be >5x background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Standard Reference Material Accuracy	Organics Percent Difference less than 30% from a range of certified values on average. Analyte concentration must be greater than five times the Method Detection Limit (>5xMDL).	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the MDL	n	
Analytical Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Concentration must be >10X the MDL.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Original is less than 10 times the MDL	n	
Analytical Triplicate Precision	Organics results less than 30% Relative Standard Deviation (RSD). Concentration must be >10X the MDL.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Original is less than 10 times the MDL	n	
Surrogate Compound Recovery	Recovery results between 40% and 120%.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.

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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 3: Method Quality Objectives

MQO Application	USACE/NBH		
MQO	Acceptance Criteria	Qual:	Corrective Action:
Control Oil	RPD < 30% for at least 90% of analytes	N	Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
		n	
Instrument Calibration	5-128-13: R-squared greater than or equal to 0.995 Mean RSD less than or equal to 15%, Individual RSD less than or equal to 25%	N	Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
	5-315-10: R-squared greater than or equal to 0.995 Mean RSD less than or equal to 15%, Individual RSD less than or equal to 25%	N	Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
Independent Calibration Check Solution	5-128-13: Individual PD less than or equal to 20%. Mean Percent Difference less than or equal to 20%.	N	Review with Project Manager; re-analyze or justify in project records.
	5-315-10: Individual PD less than or equal to 25%. Mean Percent Difference less than or equal to 25%.	N	Review with Project Manager; re-analyze or justify in project records.
Continuing Calibration Verification	5-128-13: Individual PD less than or equal to 20%. Mean Percent Difference less than or equal to 15%.	N	
	5-315-10: Individual PD less than or equal to 25%. Mean Percent Difference less than or equal to 15%.	N	

Battelle*The Business of Innovation*ShpNo SHP-140724-01**Battelle Project No:** _____**Sample Receipt Form**Approved: ☐ Authorized ☐**Project Number:** 100043429**Client:** USACE**Received by:** Schumitz, Matt**Date/Time Received:** Wednesday, July 23, 2014 5:00 PM**No. of Shipping Containers:** 1**SHIPMENT****Method of Delivery:** Hand Delivered**Tracking Number:** NA**COC Forms:** ☒ **Shipped with samples** ☐ **No Forms****Cooler(s)/Box(es)**

Cntr	Type	Tracking No.	Seal	Seal Condition	Container Condition	Temp C	Smgs
1 of 1	Cardboard Box		None	Intact	Intact	4.0	15

Samples

Sample Labels: ☒ Sample labels agree with COC forms
☐ Discrepancies (see Sample Custody Corrective Action Form)

Container Seals: ☐ Tape ☐ Custody Seals ☐ Other Seals (See sample Log)
☒ Seals intact for each shipping container
☐ Seals broken (See sample log for impacted samples)

Condition of Samples: ☒ Sample containers intact
☐ Sample containers broken/leaking (See Custody Corrective Action Form)

Temperature upon receipt (°C): 4 Temperature Blank used ☐ Yes ☒ No

(Note: If temperature upon receipt differs from required conditions, see sample log comment field)

Samples Acidified: ☐ Yes ☐ No ☒ Unknown

Initial pH 5-9?: ☐ Yes ☐ No ☒ NA

If no, individual sample adjustments on the Auxiliary Sample Receipt Form

Total Residual Chlorine Present?: ☐ Yes ☐ No ☒ NA

If yes, individual sample adjustments on the Auxiliary Sample Receipt Form

Head Space <1% in samples for water VOC analysis: ☐ Yes ☐ No ☒ NA

Individual sample deviations noted on sample log

Samples Containers:

Samples returned in PC-grade jars: ☐ Yes ☐ No ☒ Unknown /Lot No.: Unknown

Storage Location: Chem North: Freezer - F0002 (Walk-in)

BDO IDs Assigned: M4556 - M4570

Samples logged in by: Schumitz, Matt

Date/Time: 07/23/2014 5:00 PM

Approved By: _____

Approved On: _____

Authorized By: _____

Authorized On: _____



The Business of Innovation

ShpNo: SHP-140724-01

Battelle Project No: 100043429

Report Corrective Actions

Corrective Action No: 1 of 1

Authorized ☐ Approved: ☐

COC Client: USACE

COC Project: New Bedford Harbor

COC Date: 7/24/2014 9:33:

	Description of Problem:	Explanation:
Custody	Jars and C-O-C do not match for time/date	The jars do not contain the time of collection, they only have the date listed. Time of collection information taken from the COC.

Documentation of project manager notification

Sample Custodian Schumitz, Matt **Date:** 7/24/2014 9:56:00 AM

Laboratory Manager: Lizotte Jr, Robert **Date:** 8/20/2014 10:00:00 A

Project Manager Peven-McCarthy, Carole **Date:** 8/19/2014 11:35:00 A

Documentation of client notification (should be completed by project manager within 24 hrs):

On _____ **I contacted** _____ **at** _____

Results of communication with client (Describe any corrective action directed by the client):

Appropriate action taken by sample custodian.

Date this form was received back to the custodian: _____

Reference Number: _____

Sample Receipt Form Details

Approved: ☐ Authorized: ☐Project Number: 100043429Client: USACEReceived by: Schumitz, MattDate/Time Received: Wednesday, July 23, 2014 5:00 PMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
M4556	S-14L-OH2-00-05	07/17/14 9:00	07/24/14 9:36	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4557	S-14L-OG5-00-05	07/17/14 9:38	07/24/14 9:36	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4558	S-14L-OI5-00-05	07/17/14 9:52	07/24/14 9:37	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4559	S-14L-OH10-00-05	07/17/14 10:10	07/24/14 9:38	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4560	S-14L-OJ08-00-05	07/17/14 10:59	07/24/14 9:39	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4561	S-14L-OL6-00-05	07/17/14 11:15	07/24/14 9:39	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4562	S-14L-OL9-00-05	07/17/14 11:42	07/24/14 9:40	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4563	S-14L-OL9-DUP-00-05	07/17/14 11:51	07/24/14 9:40	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4564	S-14L-OP10-00-05	07/17/14 12:01	07/24/14 9:40	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4565	S-14L-ON11-00-05	07/17/14 12:28	07/24/14 9:40	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4566	S-14L-OJ13-00-05	07/17/14 12:45	07/24/14 9:41	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4567	S-14L-OO15-00-05	07/17/14 13:06	07/24/14 9:41	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4568	S-14L-OL17-00-05	07/17/14 13:20	07/24/14 9:41	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4569	S-14L-OP18-00-05	07/17/14 13:35	07/24/14 9:42	1	SED	4	NA	NA	NA	F0002 (Walk-in)			
M4570	S-14L-ON20-00-05	07/17/14 13:45	07/24/14 9:42	1	SED	4	NA	NA	NA	F0002 (Walk-in)			

Total Samples: 15

Battelle <i>The Business of Innovation</i>							Chain of Custody		Project Manager: Dierdre Dahlen Phone: (781) 952-5253		
Ship to: Battelle Duxbury 397 Washington St Duxbury, Ma 02332			Ship From: Battelle Duxbury 397 Washington St Duxbury, Ma 02332			Site Contact: Matt Fitzpatrick Mobile: (781) 773-6797					
Date	Time	Sample ID	Lab ID(s)	Matrix	Station	Notes	Analyses (Record No. of containers / Preservative)				
							Planned Analysis	Number of Containers	Preservative		
7/17/2014	9:00	S-14L-OH2-00-05	M4556	SED	OH2		HOM	1	ICE		
7/17/2014	9:38	S-14L-OG5-00-05	M4557	SED	OG5		HOM	1	ICE		
7/17/2014	9:52	S-14L-OI5-00-05	M4558	SED	OI5		HOM	1	ICE		
7/17/2014	10:10	S-14L-OH10-00-05	M4559	SED	OH10		HOM	1	ICE		
7/17/2014	10:59	S-14L-OJ08-00-05	M4560	SED	OJ08		HOM	1	ICE		
7/17/2014	11:15	S-14L-OL6-00-05	M4561	SED	OL6		HOM	1	ICE		
7/17/2014	11:42	S-14L-OL9-00-05	M4562	SED	OL9		HOM	1	ICE		
7/17/2014	11:51	S-14L-OL9-DUP-00-05	M4563	SED	OL9 DUP		HOM	1	ICE		
7/17/2014	12:01	S-14L-OP10-00-05	M4564	SED	OP10		HOM	1	ICE		
7/17/2014	12:28	S-14L-ON11-00-05	M4565	SED	ON11		HOM	1	ICE		
7/17/2014	12:45	S-14L-OJ13-00-05	M4566	SED	OJ13		HOM	1	ICE		
7/17/2014	13:06	S-14L-OO15-00-05	M4567	SED	OO15		HOM	1	ICE		
7/17/2014	13:20	S-14L-OL17-00-05	M4568	SED	OL17		HOM	1	ICE		
7/17/2014	13:35	S-14L-OP18-00-05	M4569	SED	OP18		HOM	1	ICE		
7/17/2014	13:45	S-14L-ON20-00-05	M4570	SED	ON20		HOM	1	ICE		

Relinquished By (name/date/time):

Mina Rohan BOO 7/23/14 @ 1700

Page: 1 of 1

Received By (name/date/time):

MNA 7-23-14 1700

Cooler Stored in Field Fridge overnight

Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Task Order 10 - Sediment
Project Number: 100043429

Client ID Procedural Blank

Battelle ID CC814PB-P
Sample Type PB
Collection Date 08/01/2014
Extraction Date 08/01/2014
Analysis Date 08/16/2014
Analytical Instrument ECD
% Moisture 6.93
% Lipid NA
Matrix SEDIMENT
Sample Size 9.38
Size Unit-Basis G_DRY
Units NG/G_DRY

CI2(8)	0.512 U
CI3(18)	0.514 U
CI3(28)	0.514 U
CI4(44)	0.514 U
CI4(52)	0.512 U
CI4(66)	0.512 U
CI5(101)	0.512 U
CI5(105)	0.514 U
CI5(118)	0.514 U
CI6(128)	0.514 U
CI6(138)	0.514 U
CI6(153)	0.514 U
CI7(170)	0.514 U
CI7(180)	0.514 U
CI7(187)	0.514 U
CI8(195)	0.514 U
CI9(206)	0.512 U
CI10(209)	0.514 U

Surrogate Recoveries (%)

CI3(34)	86
CI6(152)	81

Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Task Order 10 - Sediment
Project Number: 100043429

Client ID	Laboratory Control Sample			Laboratory Control Sample Duplicate						
Battelle ID	CC815LCS-P			CC816LCSD-P						
Sample Type	LCS			LCSD						
Collection Date	08/01/2014			08/01/2014						
Extraction Date	08/01/2014			08/01/2014						
Analysis Date	08/16/2014			08/14/2014						
Analytical Instrument	ECD			ECD						
% Moisture	6.93			6.93						
% Lipid	NA			NA						
Matrix	SEDIMENT			SEDIMENT						
Sample Size	9.36			9.30						
Size Unit-Basis	G_DRY			G_DRY						
Units	NG/G_DRY	Target	% REC	Qual	NG/G_DRY	Target	% REC	Qual	RPD	Qual
CI2(8)	3.42	4.09	84		3.59	4.11	87		3.5	
CI3(18)	3.39	4.09	83		3.59	4.11	87		4.7	
CI3(28)	3.77	4.09	92		3.90	4.11	95		3.2	
CI4(44)	4.03	4.09	99		4.17	4.11	101		2.0	
CI4(52)	3.88	4.09	95		3.68	4.11	90		5.4	
CI4(66)	4.28	4.09	105		3.86	4.11	94		11.1	
CI5(101)	4.05	4.09	99		3.76	4.11	91		8.4	
CI5(105)	3.92	4.09	96		3.91	4.11	95		1.0	
CI5(118)	3.79	4.09	93		3.69	4.11	90		3.3	
CI6(128)	3.70	4.09	90		3.82	4.11	93		3.3	
CI6(138)	3.50	4.09	86		4.51	4.11	110		24.5	
CI6(153)	3.38	4.09	83		3.55	4.11	86		3.6	
CI7(170)	3.58	4.09	88		3.81	4.11	93		5.5	
CI7(180)	3.36	4.09	82		3.59	4.11	87		5.9	
CI7(187)	3.48	4.09	85		3.78	4.11	92		7.9	
CI8(195)	3.31	4.09	81		3.65	4.11	89		9.4	
CI9(206)	3.28	4.09	80		3.67	4.11	89		10.7	
CI10(209)	3.25	4.17	78		3.65	4.19	87		10.9	
Surrogate Recoveries (%)										
CI3(34)	86				83					
CI6(152)	85				83					

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

8/21/2014

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Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Task Order 10 - Sediment
Project Number: 100043429

Client ID	S-14L-OH2-00-05	S-14L-OG5-00-05	S-14L-OI5-00-05	S-14L-OH10-00-05
Battelle ID	M4556-P	M4557-P	M4558-P	M4559-P
Sample Type	SA	SA	SA	SA
Collection Date	07/17/2014	07/17/2014	07/17/2014	07/17/2014
Extraction Date	08/01/2014	08/01/2014	08/01/2014	08/01/2014
Analysis Date	08/14/2014	08/14/2014	08/14/2014	08/15/2014
Analytical Instrument	ECD	ECD	ECD	ECD
% Moisture	7.48	5.69	6.15	7.08
% Lipid	NA	NA	NA	NA
Matrix	SED	SED	SED	SED
Sample Size	9.33	9.44	9.44	9.29
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	NG/G_DRY	NG/G_DRY	NG/G_DRY	NG/G_DRY

Cl2(8)	14200	D	3790	D	2460	D	5740	D
Cl3(18)	28800	D	7300	D	4310	D	10900	D
Cl3(28)	22700	D	7280	D	3490	D	10600	D
Cl4(44)	11100	D	4320	D	2400	D	6080	D
Cl4(52)	50400	D	14300	D	8470	D	23300	D
Cl4(66)	8910	D	3390	D	1860	D	5400	D
Cl5(101)	4970	Dp	2100	Dp	1200	Dp	3890	Dp
Cl5(105)	170	D	57.0	D	24.2	DJ	118	D
Cl5(118)	2630	D	1080	D	694	D	2270	D
Cl6(128)	207	D	62.3	D	22.6	DJ	116	D
Cl6(138)	3130	D	988	D	650	D	1800	D
Cl6(153)	5320	D	2010	D	1230	D	3800	D
Cl7(170)	344	D	105	D	52.6	D	173	D
Cl7(180)	526	D	197	D	107	D	363	D
Cl7(187)	1170	D	364	D	232	D	617	D
Cl8(195)	85.4	D	25.9	D	8.42	DJ	43.0	D
Cl9(206)	140	D	50.1	Dp	18.0	DJ	83.6	Dp
Cl10(209)	31.1	D	7.92	DJ	25.5	U	23.6	D

Surrogate Recoveries (%)

Cl3(34)	0	ND	0	ND	0	ND	0	ND
Cl6(152)	0	ND	0	ND	0	ND	0	ND

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

8/21/2014

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Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Task Order 10 - Sediment
Project Number: 100043429

Client ID	S-14L-OJ08-00-05	S-14L-OL6-00-05	S-14L-OL9-00-05	S-14L-OL9-DUP-00-05
Battelle ID	M4560-P	M4561-P	M4562-P	M4563-P
Sample Type	SA	SA	SA	SA
Collection Date	07/17/2014	07/17/2014	07/17/2014	07/17/2014
Extraction Date	08/01/2014	08/01/2014	08/01/2014	08/01/2014
Analysis Date	08/15/2014	08/15/2014	08/15/2014	08/15/2014
Analytical Instrument	ECD	ECD	ECD	ECD
% Moisture	6.60	5.34	6.54	9.55
% Lipid	NA	NA	NA	NA
Matrix	SED	SED	SED	SED
Sample Size	9.40	9.46	9.29	8.99
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	NG/G_DRY	NG/G_DRY	NG/G_DRY	NG/G_DRY

Cl2(8)	2180	D	7920	D	542	D	14400	D
Cl3(18)	5400	D	14500	D	1170	D	23500	D
Cl3(28)	4490	D	11400	D	932	D	19300	D
Cl4(44)	2720	D	6220	D	515	D	11500	D
Cl4(52)	9340	D	21000	D	1860	D	27400	D
Cl4(66)	2350	D	6220	Dp	441	D	9460	D
Cl5(101)	1710	Dp	4810	Dp	304	Dp	6650	Dp
Cl5(105)	82.0	D	315	D	8.51		231	D
Cl5(118)	962	D	3020	D	196	D	4330	D
Cl6(128)	78.6	D	340	D	10.0		201	D
Cl6(138)	835	D	2180	D	145	D	2960	D
Cl6(153)	1650	D	4390	D	293	D	6310	D
Cl7(170)	86.0	D	277	D	11.5		251	D
Cl7(180)	163	D	484	D	24.2		524	D
Cl7(187)	243	D	598	D	41.3		1000	D
Cl8(195)	16.6	D	55.4	D	5.22		68.1	D
Cl9(206)	33.2	D	103	D	10.6		114	D
Cl10(209)	8.85	DJ	32.1	D	7.53		33.9	D

Surrogate Recoveries (%)

Cl3(34)	0	ND	0	ND	82		0	ND
Cl6(152)	0	ND	0	ND	97		0	ND

Analyzed By Restucci Jr, Richard

8/21/2014

Not Surrogate Corrected

S14-0314ECD-Master_128:FINAL

Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Task Order 10 - Sediment
Project Number: 100043429

Client ID	S-14L-OP10-00-05	S-14L-ON11-00-05	S-14L-OJ13-00-05	S-14L-OO15-00-05
Battelle ID	M4564-P	M4565-P	M4566-P	M4567-P
Sample Type	SA	SA	SA	SA
Collection Date	07/17/2014	07/17/2014	07/17/2014	07/17/2014
Extraction Date	08/01/2014	08/01/2014	08/01/2014	08/01/2014
Analysis Date	08/15/2014	08/15/2014	08/15/2014	08/15/2014
Analytical Instrument	ECD	ECD	ECD	ECD
% Moisture	1.20	9.52	6.40	11.01
% Lipid	NA	NA	NA	NA
Matrix	SED	SED	SED	SED
Sample Size	9.96	9.09	9.35	8.93
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	NG/G_DRY	NG/G_DRY	NG/G_DRY	NG/G_DRY

Cl2(8)	398	D	37000	D	1740	D	4270	D
Cl3(18)	915	D	74400	D	3830	D	11900	D
Cl3(28)	730	D	61900	D	3340	D	11500	D
Cl4(44)	415	D	24500	D	2580	D	10800	D
Cl4(52)	1220	D	80300	D	9010	D	42200	Dp
Cl4(66)	260	D	17600	D	2280	D	7240	D
Cl5(101)	169	Dp	12300	Dp	1740	Dp	5610	D
Cl5(105)	3.54		173	D	47.4		206	D
Cl5(118)	83.6	D	8720	D	1080	D	5350	D
Cl6(128)	6.50		234	D	48.3	p	216	D
Cl6(138)	105	D	5310	D	727	D	3290	D
Cl6(153)	180	D	15100	D	1540	D	5660	D
Cl7(170)	9.99		474	D	56.8		306	D
Cl7(180)	17.7		1020	Dp	115	D	483	D
Cl7(187)	27.0		2170	D	222	D	1050	D
Cl8(195)	2.42		153	D	9.61		57.0	D
Cl9(206)	4.16		340	Dp	24.0	p	81.4	D
Cl10(209)	0.998		85.9	Dp	7.59	p	26.2	D

Surrogate Recoveries (%)

Cl3(34)	69		0	ND	58		0	ND
Cl6(152)	72		0	ND	68		0	ND

Analyzed By Restucci Jr, Richard

8/21/2014

Not Surrogate Corrected

S14-0314ECD-Master_128:FINAL

Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Task Order 10 - Sediment
Project Number: 100043429

Client ID	S-14L-OL17-00-05	S-14L-OP18-00-05	S-14L-ON20-00-05
Battelle ID	M4568-P	M4569-P	M4570-P
Sample Type	SA	SA	SA
Collection Date	07/17/2014	07/17/2014	07/17/2014
Extraction Date	08/01/2014	08/01/2014	08/01/2014
Analysis Date	08/16/2014	08/16/2014	08/16/2014
Analytical Instrument	ECD	ECD	ECD
% Moisture	6.09	7.56	7.69
% Lipid	NA	NA	NA
Matrix	SED	SED	SED
Sample Size	9.39	9.24	9.31
Size Unit-Basis	G_DRY	G_DRY	G_DRY
Units	NG/G_DRY	NG/G_DRY	NG/G_DRY

Cl2(8)	2270	D	2980	D	6220	D
Cl3(18)	5960	D	6900	D	14000	D
Cl3(28)	5340	D	6060	D	12900	D
Cl4(44)	4970	D	5470	D	8680	D
Cl4(52)	15000	D	15100	D	27600	D
Cl4(66)	4470	D	5300	D	7480	D
Cl5(101)	4280	Dp	4020	Dp	5370	Dp
Cl5(105)	182	D	97.7	D	157	D
Cl5(118)	2780	D	2380	D	3260	D
Cl6(128)	165	D	119	D	239	D
Cl6(138)	1610	D	1580	D	2580	D
Cl6(153)	3520	D	3440	D	5720	D
Cl7(170)	181	D	151	D	325	D
Cl7(180)	292	D	248	D	493	D
Cl7(187)	438	D	451	D	819	D
Cl8(195)	33.8	D	29.7	D	66.6	D
Cl9(206)	56.6	D	45.2	D	107	D
Cl10(209)	22.4	D	12.4	DJ	24.6	D

Surrogate Recoveries (%)

Cl3(34)	0	ND	0	ND	0	ND
Cl6(152)	0	ND	0	ND	0	ND

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

8/21/2014

S14-0314ECD-Master_128:FINAL

Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Task Order 10 - Sediment
Project Number: 100043429

Client ID	S-14L-OL9-00-05	S-14L-OL9-00-05			
Battelle ID	M4562-P	M4562MS-P			
Sample Type	SA	MS			
Collection Date	07/17/2014	07/17/2014			
Extraction Date	08/01/2014	08/01/2014			
Analysis Date	08/15/2014	08/15/2014			
Analytical Instrument	ECD	ECD			
% Moisture	6.54	5.31			
% Lipid	NA	NA			
Matrix	SED	SED			
Sample Size	9.29	4.79			
Size Unit-Basis	G_DRY	G_DRY			
Units	NG/G_DRY	NG/G_DRY	Target	% REC	Qual

Cl2(8)	542 D	480 Ep	13.31	0 n
Cl3(18)	1170 D	886 Ep	13.31	0 n
Cl3(28)	932 D	540 Ep	13.31	0 n
Cl4(44)	515 D	349 E	13.31	0 n
Cl4(52)	1860 D	634 Ep	13.31	0 n
Cl4(66)	441 D	312 E	13.31	0 n
Cl5(101)	304 Dp	198 E	13.31	0 n
Cl5(105)	8.51	21.0	13.31	94
Cl5(118)	196 D	192	13.31	0 n
Cl6(128)	10.0	21.6	13.31	87
Cl6(138)	145 D	126	13.31	0 n
Cl6(153)	293 D	242 Ep	13.31	0 n
Cl7(170)	11.5	22.9	13.31	86
Cl7(180)	24.2	37.1 p	13.31	97
Cl7(187)	41.3	55.1	13.31	104
Cl8(195)	5.22	17.1	13.31	89
Cl9(206)	10.6	23.6 p	13.31	98
Cl10(209)	7.53	21.2 p	13.57	101

Surrogate Recoveries (%)

Cl3(34)	82	79
Cl6(152)	97	82



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Task Order 10 - Sediment
Project Number: 100043429

Client ID S-14L-OL9-00-05

Battelle ID M4562MSD-P

Sample Type MSD

Collection Date 07/17/2014

Extraction Date 08/01/2014

Analysis Date 08/15/2014

Analytical Instrument ECD

% Moisture 6.42

% Lipid NA

Matrix SED

Sample Size 4.73

Size Unit-Basis G_DRY

Units NG/G_DRY **Target % REC Qual RPD Qual**

CI2(8)	436 Ep	13.48	0 n	0.0	
CI3(18)	853 Ep	13.48	0 n	0.0	
CI3(28)	496 Ep	13.48	0 n	0.0	
CI4(44)	305 E	13.48	0 n	0.0	
CI4(52)	599 Ep	13.48	0 n	0.0	
CI4(66)	311 E	13.48	0 n	0.0	
CI5(101)	213 Ep	13.48	0 n	0.0	
CI5(105)	21.9	13.48	99	5.2	
CI5(118)	263	13.48	497 n	200.0	n
CI6(128)	22.0	13.48	89	2.3	
CI6(138)	174 p	13.48	215 n	200.0	n
CI6(153)	230 Ep	13.48	0 n	0.0	
CI7(170)	22.9	13.48	85	1.2	
CI7(180)	37.5	13.48	99	2.0	
CI7(187)	49.3	13.48	59	55.2	n
CI8(195)	19.3 p	13.48	104	15.5	
CI9(206)	21.6	13.48	82	17.8	
CI10(209)	18.7	13.74	81	22.0	

Surrogate Recoveries (%)

CI3(34)	66
CI6(152)	86

Analyzed By Restucci Jr, Richard

8/21/2014

Not Surrogate Corrected

S14-0314ECD-Master_1

Glossary of Data Qualifiers

Flag: Application:

B	Analyte concentration found in the sample at a concentration <5x the level found in the procedural blank.
D	Dilution Run. Initial run outside linear range of instrument.
E	Estimate, result is greater than the highest concentration level in the calibration.
H	Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract.
J	Analyte detected below the sample-specific Reporting Limit (RL).
m	Confirmation column manually over-ridden by analyst, dual column quantitative analysis only.
ME	Significant Matrix Interference - Estimated value.
MI	Significant Matrix Interference - value could not be determined or estimated.
n	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets the contingency criteria.
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not applicable
p	Dual column value exceeds RPD criteria, dual column quantitative analysis only.
T	Holding Time (HT) exceeded.
U	Analyte not detected at 3:1 signal:noise ratio.

QA/QC Summary Batch 14-0314

Project:	USACE/NAE – New Bedford Harbor Task Order 10 – Area O Post Dredge Sediment
Parameters:	PCB Congeners (NOAA 18)
Laboratory:	Battelle, Norwell, MA
Matrix:	Sediment
Data Set:	DP-14-0430
Analytical SOP:	5-128
Method Reference:	EPA Method 8081 (modified)

Sample Custody

Collection Date	Receipt Date	Temp (°C)
7/17/2014	7/23/2014	4 °C

Corrective Actions	The collection time was not recorded on the sample jars. The time recorded on the custody forms was saved in LIMS.
Sample Storage	The sediment core sections were stored frozen until extraction.
Related samples	NA

METHOD SUMMARIES

Sample Preparation	Prior to sediment extraction, an aliquot of approximately 30 g of wet sediment was placed on clean, labeled aluminum foil, covered and placed in a laboratory laminar flow hood to dry the sample to <50% moisture. Aliquots of these dried samples were weighed into sample extraction vessels for sample extraction. Approximately 10 g sediment was weighed out for extraction. The sediments were spiked with surrogates, extracted three times with methylene chloride, and the extracts combined, dried over anhydrous sodium sulfate, and concentrated. The concentrated extracts were processed through Florisil to isolate the PCBs, followed by activated copper treatment to remove sulfur. The cleaned extract was concentrated and fortified with internal standard (IS) compounds prior to analysis by GC/ECD.
Prep Comments	Weights were incorrectly recorded for percent moisture determination measurements. "Aliquot wet weight" value was recorded as only the weight of the sediment added to the weighing pan, not the combined weight of pan and sediment. These incorrectly recorded data were printed (electronically and in hard copy) as backups before manually calculating and entering the correct value (the sum of the empty pan and sediment-only weights) in the aliquot wet weight field. Arithmetic and hand-entered data were validated by the prep supervisor.
Analysis	PCBs were analyzed by gas chromatography electron capture detection (GC/ECD). An initial calibration consisting of target analytes was analyzed prior to sample analysis to demonstrate the linear range. Calibration verification was performed at the beginning and end of each 24-hr period in which samples were analyzed. Concentrations of target compounds were calculated versus internal standards using the average response factors (RF) generated from the initial calibration.

QA/QC Summary
Batch 14-0314

Analysis Comments	All samples required dilution and re-analysis for congeners that responded above the calibration range (E, e qualified results on the quant reports). Internal Standard (IS) areas are higher than the acceptable range in several samples (see Internal Standard Area Report in data package); the higher response appears to be sample related (elevated concentrations of target analytes in the samples); no further action taken.	
Holding Times	Extraction Date(s)	Analysis Date(s)
	8/1/2014	8/14-19/2014

Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.
Blank value <ssRL Samples >5X PB	No exceedences noted. No comments.

Laboratory Control Spike (LCS)/ Laboratory Control Spike Duplicate (LCSD)	A LCS/LCSD pair was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. The relative percent difference (RPD) was calculated to measure data quality in terms of precision.
40-120% recovery <30% RPD	No exceedences noted. The spiking solution used to fortify the LCS/LCSD contains PCB208 (not target congener) that co-elutes with the target congener PCB195 on the primary column (PCB 195 and PCB208 are resolved on the secondary column). For the primary column, a vertical integration was performed inside PCB 195 on the primary column to better represent PCB 195.

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)	A MS/MSD pair was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. The relative percent difference (RPD) was calculated to measure data quality in terms of precision.
40-120% recovery <30% RPD Spike must be >5x bkgd conc.	No exceedences noted (to contingency criteria) Several target PCB congeners were not recovered in the MS/MSD because the spike concentration was <5x the background levels; background is elevated in the NBH samples.

Surrogate Recovery	Surrogate compounds were added prior to extraction. The surrogate recoveries are calculated to measure extraction efficiency.
40-120% recovery	Exceedences noted. Surrogates were diluted out in all authentic samples except S-14L-OL9-00-05, S-14L-OP10-00-05, S-14L-OJ13-00-05. Dilutions were required because PCB congeners responded above the upper limit of the linear calibration.

QA/QC Summary
Batch 14-0314

Initial Calibration (ICAL)	The GC/ECD was calibrated with six-level quadratic calibration curve for all compounds using an instrument response factor (RF).
$R^2 \geq 0.995$	No exceedences noted.
	No comments.

Independent Calibration Check (ICC)	The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL.
$\leq 20\%$ difference individual and mean	No exceedences noted.
	No comments.

Continuing Calibration Verification (CCV)	Continuing calibration standards were run every 24 hours to ensure that initial calibration is still valid.
$\leq 20\%$ difference individual; $\leq 15\%$ difference mean	Exceedences noted.
	CCV X1159 mis-injected. The affected bracket contains dilutions, and both the previous and following CCVs are acceptable for all diluted analytes. No further action taken.
	PCBs 206 and 209 fail low in several CCVs. As these congeners do not contribute significantly to the total PCB concentration ($<0.3\%$ of total), the samples were not re-run.

Battelle

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Report Project Data Set MQOs

Project Title: USACE/NAE New Bedford Harbor Task

Data Set Number: DP-14-0430

Project Number: 100043429

Prep Batch Number: 14-0314

Test Code (Matrix Type): Master_128(S)

QC_PARAMETER:	Exceed:	Contg.:	JUSTIFICATION:
Procedural Blank	0	0	None
PB Measurement Quality Objective	0	0	None
Laboratory Control Sample	0	0	
			RR 08/19/2014
Matrix Spike Recovery	0	20	None
Matrix Spike/Spike Duplicate Precision	0	3	None
Standard Reference Material Accuracy	NA	NA	NA
Analytical Duplicate Precision	NA	NA	NA
Analytical Triplicate Precision	NA	NA	NA
Surrogate Compound Recovery	24	0	Elevated concentrations of target analytes obscure surrogate compounds in most samples. Surrogates reported where possible.
			RR 08/19/2014
Control Oil	NA	NA	NA
Instrument Calibration	0	0	None
Independent Calibration Check Solution	0	0	None
Continuing Calibration Verification	12	0	PCBs 206 and 209 fail low in several CCVs. As these congeners do not contribute significantly to the total PCB concentration, the samples were not re-run.
			RR 08/19/2014



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BATTELLE - DUXBURY OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

Project Title:	USACE/NAE New Bedford Harbor Task	Data Set Number:	DP-14-0430
Project Number:	100043429	Prep Batch Number:	14-0314
Entered By:	Richard Restucci Jr	Entered On:	08/19/2014
Test Code (Matrix Type):	Master_128(S)		

Integrations by Rich Restucci.
RR 8/19/14

An incorrect spiking material was used to fortify the LCS/MS and their duplicates. PCB 195 is impacted as this analyte co-elutes with PCB 208 on the primary column, but is separated on the secondary column. A vertical integration was performed inside PCB 195 on the primary column to better represent PCB 195.
RR 8/19/14

The original extracts for this batch contain elevated concentrations of target analytes which interfere with both quantifying internal standards and surrogates. As such, for most samples, all data are reported from dilution. The original extracts for samples M4562, M4564, and M4566 are quantifiable and are reported.
RR 8/19/14

CCV X1159 mis-injected. The affected bracket contains dilutions, and both the previous and following CCVs are acceptable for all diluted analytes. Although the CCV is outside of the 24 hr time requirement, due to time constraints, and the elevated concentrations of detected analytes, these samples were not re-run.
RR 8/19/14

Several IS areas are higher than the acceptable range. Because of the elevated concentrations of target analytes in the samples, the samples are reported with these failures.
RR 8/19/14

Task Leader Approval:

Supervisor Approval:

PM Approval:

Robert Lizotte, Jr.
2014.08.21 14:49:59 -04'00'

Deirdre Dahlen
2014.08.21 13:56:57
-04'00'



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Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 14-0314

METHOD: MX0038.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:
SX0038.S	X1084.D	HX25	CS	Cl5(96)	7809192
SX0038.S	X1086.D	HX27	CS	Cl5(96)	8367374
SX0038.S	X1087.D	HX28	CS	Cl5(96)	7870878
SX0038.S	X1088A.D	HX29	CS	Cl5(96)	8009957
SX0038.S	X1089.D	HX30	CS	Cl5(96)	8809888
SX0038.S	X1091.D	HX32	CS	Cl5(96)	9497800

L3 7870878

(+) 15741756

(-) 3935439

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SX0038.S	X1092.D	HY06 ICC	ICC	Cl5(96)	9882169	
SX0038.S	X1095.D	CC816LCSD-P(3)	LCSD	Cl5(96)	9438716	
SX0038.S	X1097.D	M4556-P-D(6)	SA	Cl5(96)	15789022	>
SX0038.S	X1098.D	M4556-P-D(7)	SA	Cl5(96)	11002147	
SX0038.S	X1100.D	M4557-P-D(6)	SA	Cl5(96)	13733371	
SX0038.S	X1101.D	HX29	CCV	Cl5(96)	11153755	
SX0038.S	X1102.D	M4557-P-D(7)	SA	Cl5(96)	9615448	
SX0038.S	X1103.D	M4558-P(4)	SA	Cl5(96)	29303824	> NA RR 8/21/14
SX0038.S	X1104.D	M4558-P-D(5)	SA	Cl5(96)	12138673	
SX0038.S	X1106.D	M4559-P-D(6)	SA	Cl5(96)	13411701	
SX0038.S	X1107.D	M4559-P-D(7)	SA	Cl5(96)	10879856	
SX0038.S	X1109.D	M4560-P-D(6)	SA	Cl5(96)	11473907	
SX0038.S	X1110.D	HX30	CCV	Cl5(96)	12538957	
SX0038.S	X1111.D	M4560-P-D(7)	SA	Cl5(96)	10239944	
SX0038.S	X1113.D	M4561-P-D(6)	SA	Cl5(96)	13995718	
SX0038.S	X1114.D	M4561-P-D(7)	SA	Cl5(96)	11510291	
SX0038.S	X1115.D	M4562-P(4)	SA	Cl5(96)	10876021	
SX0038.S	X1116.D	M4562-P-D(5)	SA	Cl5(96)	9960977	
SX0038.S	X1117.D	M4562MS-P(3)	MS	Cl5(96)	10331247	
SX0038.S	X1118.D	M4562MSD-P(3)	MSD	Cl5(96)	10134120	
SX0038.S	X1119.D	HX29	CCV	Cl5(96)	12648609	
SX0038.S	X1121.D	M4563-P-D(6)	SA	Cl5(96)	16196153	>
SX0038.S	X1122.D	M4563-P-D(7)	SA	Cl5(96)	9409782	
SX0038.S	X1123.D	M4564-P(4)	SA	Cl5(96)	12906700	
SX0038.S	X1124.D	M4564-P-D(5)	SA	Cl5(96)	10037105	
SX0038.S	X1126.D	M4565-P-D(6)	SA	Cl5(96)	18604457	>
SX0038.S	X1127.D	M4565-P-D(8)	SA	Cl5(96)	10201529	
SX0038.S	X1128.D	HX30	CCV	Cl5(96)	13438193	
SX0038.S	X1129.D	M4565-P-D(9)	SA	Cl5(96)	10763329	
SX0038.S	X1130.D	M4566-P(4)	SA	Cl5(96)	28844400	>
SX0038.S	X1131.D	M4566-P-D(5)	SA	Cl5(96)	10016325	
SX0038.S	X1133.D	M4567-P-D(6)	SA	Cl5(96)	12876386	



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Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 14-0314

METHOD: MX0038.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SX0038.S	X1134.D	M4567-P-D(7)	SA	Cl5(96)	11856960	
SX0038.S	X1136.D	M4568-P-D(6)	SA	Cl5(96)	11093482	
SX0038.S	X1137.D	HX29	CCV	Cl5(96)	14115159	
SX0038.S	X1138.D	M4568-P-D(7)	SA	Cl5(96)	10575926	
SX0038.S	X1140.D	M4569-P-D(6)	SA	Cl5(96)	10692135	
SX0038.S	X1141.D	M4569-P-D(7)	SA	Cl5(96)	10307618	
SX0038.S	X1143.D	M4570-P-D(6)	SA	Cl5(96)	13589035	
SX0038.S	X1144.D	M4570-P-D(7)	SA	Cl5(96)	10788230	
SX0038.S	X1145.D	HX30	CCV	Cl5(96)	15058472	
SX0038.S	X1147.D	CC814PB-P(3)	PB	Cl5(96)	11264158	
SX0038.S	X1148.D	CC815LCS-P(3)	LCS	Cl5(96)	10128737	
SX0038.S	X1149.D	HX30	CCV	Cl5(96)	12327592	
SX0038.S	X1151.D	HX29	CCV	Cl5(96)	10882875	
SX0038.S	X1152.D	M4556-P-D(9)	SA	Cl5(96)	8144573	
SX0038.S	X1153.D	M4557-P-D(9)	SA	Cl5(96)	10147192	
SX0038.S	X1154.D	M4558-P-D(7)	SA	Cl5(96)	10048978	
SX0038.S	X1155.D	M4559-P-D(9)	SA	Cl5(96)	10077363	
SX0038.S	X1156.D	M4560-P-D(9)	SA	Cl5(96)	10865489	
SX0038.S	X1158.D	M4563-P-D(9)	SA	Cl5(96)	9496959	
SX0038.S	X1162.D	M4566-P-D(7)	SA	Cl5(96)	10240944	
SX0038.S	X1163.D	M4567-P-D(9)	SA	Cl5(96)	5957337	
SX0038.S	X1164.D	M4568-P-D(9)	SA	Cl5(96)	6658616	
SX0038.S	X1165.D	M4569-P-D(9)	SA	Cl5(96)	8429609	
SX0038.S	X1166.D	M4570-P-D(9)	SA	Cl5(96)	8403037	
SX0038.S	X1167.D	HX30	CCV	Cl5(96)	11109971	
SX0038.S	X1168.D	M4564-P-D(7)	SA	Cl5(96)	7180214	
SX0038.S	X1169.D	M4565-P-D(11)	SA	Cl5(96)	9146650	
SX0038.S	X1170.D	M4561-P-D(9)	SA	Cl5(96)	7970753	
SX0038.S	X1171.D	HX29	CCV	Cl5(96)	9622532	



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Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 14-0314

METHOD: MX0038.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:
SX0038.S	X1084.D	HX25	CS	Cl6(161)	20730273
SX0038.S	X1086.D	HX27	CS	Cl6(161)	22362370
SX0038.S	X1087.D	HX28	CS	Cl6(161)	21405010
SX0038.S	X1088A.D	HX29	CS	Cl6(161)	19241632
SX0038.S	X1089.D	HX30	CS	Cl6(161)	21294700
SX0038.S	X1091.D	HX32	CS	Cl6(161)	25931258

L3 21405010

(+) 42810019

(-) 10702505

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SX0038.S	X1092.D	HY06 ICC	ICC	Cl6(161)	25374296	
SX0038.S	X1095.D	CC816LCSD-P(3)	LCSD	Cl6(161)	25413229	
SX0038.S	X1097.D	M4556-P-D(6)	SA	Cl6(161)	19663049	
SX0038.S	X1098.D	M4556-P-D(7)	SA	Cl6(161)	28483248	
SX0038.S	X1100.D	M4557-P-D(6)	SA	Cl6(161)	26973974	
SX0038.S	X1101.D	HX29	CCV	Cl6(161)	30274927	
SX0038.S	X1102.D	M4557-P-D(7)	SA	Cl6(161)	25841735	NA RR 8/21/14
SX0038.S	X1103.D	M4558-P(4)	SA	Cl6(161)	118932732	>
SX0038.S	X1104.D	M4558-P-D(5)	SA	Cl6(161)	30874563	
SX0038.S	X1106.D	M4559-P-D(6)	SA	Cl6(161)	23197155	
SX0038.S	X1107.D	M4559-P-D(7)	SA	Cl6(161)	28462181	
SX0038.S	X1109.D	M4560-P-D(6)	SA	Cl6(161)	21703049	
SX0038.S	X1110.D	HX30	CCV	Cl6(161)	32386879	
SX0038.S	X1111.D	M4560-P-D(7)	SA	Cl6(161)	25805409	
SX0038.S	X1113.D	M4561-P-D(6)	SA	Cl6(161)	20406775	
SX0038.S	X1114.D	M4561-P-D(7)	SA	Cl6(161)	31685435	
SX0038.S	X1115.D	M4562-P(4)	SA	Cl6(161)	11601850	
SX0038.S	X1116.D	M4562-P-D(5)	SA	Cl6(161)	22460744	
SX0038.S	X1117.D	M4562MS-P(3)	MS	Cl6(161)	14836265	
SX0038.S	X1118.D	M4562MSD-P(3)	MSD	Cl6(161)	13551588	
SX0038.S	X1119.D	HX29	CCV	Cl6(161)	34273145	
SX0038.S	X1121.D	M4563-P-D(6)	SA	Cl6(161)	21918808	
SX0038.S	X1122.D	M4563-P-D(7)	SA	Cl6(161)	22449813	
SX0038.S	X1123.D	M4564-P(4)	SA	Cl6(161)	21928154	
SX0038.S	X1124.D	M4564-P-D(5)	SA	Cl6(161)	24249618	
SX0038.S	X1126.D	M4565-P-D(6)	SA	Cl6(161)	31174543	
SX0038.S	X1127.D	M4565-P-D(8)	SA	Cl6(161)	24311953	
SX0038.S	X1128.D	HX30	CCV	Cl6(161)	35056340	
SX0038.S	X1129.D	M4565-P-D(9)	SA	Cl6(161)	30173678	
SX0038.S	X1130.D	M4566-P(4)	SA	Cl6(161)	27970248	
SX0038.S	X1131.D	M4566-P-D(5)	SA	Cl6(161)	26258347	
SX0038.S	X1133.D	M4567-P-D(6)	SA	Cl6(161)	17636327	



The Business of Innovation

Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 14-0314

METHOD: MX0038.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SX0038.S	X1134.D	M4567-P-D(7)	SA	Cl6(161)	27345288	
SX0038.S	X1136.D	M4568-P-D(6)	SA	Cl6(161)	20780118	
SX0038.S	X1137.D	HX29	CCV	Cl6(161)	37629357	
SX0038.S	X1138.D	M4568-P-D(7)	SA	Cl6(161)	26915408	
SX0038.S	X1140.D	M4569-P-D(6)	SA	Cl6(161)	22003807	
SX0038.S	X1141.D	M4569-P-D(7)	SA	Cl6(161)	26810087	
SX0038.S	X1143.D	M4570-P-D(6)	SA	Cl6(161)	21144958	
SX0038.S	X1144.D	M4570-P-D(7)	SA	Cl6(161)	25974773	
SX0038.S	X1145.D	HX30	CCV	Cl6(161)	39290190	
SX0038.S	X1147.D	CC814PB-P(3)	PB	Cl6(161)	31222580	
SX0038.S	X1148.D	CC815LCS-P(3)	LCS	Cl6(161)	27156648	
SX0038.S	X1149.D	HX30	CCV	Cl6(161)	31913931	
SX0038.S	X1151.D	HX29	CCV	Cl6(161)	27406540	
SX0038.S	X1152.D	M4556-P-D(9)	SA	Cl6(161)	20490788	
SX0038.S	X1153.D	M4557-P-D(9)	SA	Cl6(161)	26737948	
SX0038.S	X1154.D	M4558-P-D(7)	SA	Cl6(161)	26199802	
SX0038.S	X1155.D	M4559-P-D(9)	SA	Cl6(161)	26191495	
SX0038.S	X1156.D	M4560-P-D(9)	SA	Cl6(161)	30074359	
SX0038.S	X1158.D	M4563-P-D(9)	SA	Cl6(161)	22982867	
SX0038.S	X1162.D	M4566-P-D(7)	SA	Cl6(161)	26625161	
SX0038.S	X1163.D	M4567-P-D(9)	SA	Cl6(161)	13555241	
SX0038.S	X1164.D	M4568-P-D(9)	SA	Cl6(161)	16923098	
SX0038.S	X1165.D	M4569-P-D(9)	SA	Cl6(161)	20448580	
SX0038.S	X1166.D	M4570-P-D(9)	SA	Cl6(161)	20898932	
SX0038.S	X1167.D	HX30	CCV	Cl6(161)	26259483	
SX0038.S	X1168.D	M4564-P-D(7)	SA	Cl6(161)	16680516	
SX0038.S	X1169.D	M4565-P-D(11)	SA	Cl6(161)	24193351	
SX0038.S	X1170.D	M4561-P-D(9)	SA	Cl6(161)	22356793	
SX0038.S	X1171.D	HX29	CCV	Cl6(161)	24134421	



The Business of Innovation

Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 14-0314

METHOD: MX0038.M

SIGNAL: 2

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:
SX0038.S	X1084.D	HX25	CS	Cl5(96)	3718074
SX0038.S	X1086.D	HX27	CS	Cl5(96)	3877673
SX0038.S	X1087.D	HX28	CS	Cl5(96)	4441532
SX0038.S	X1088A.D	HX29	CS	Cl5(96)	4254435
SX0038.S	X1089.D	HX30	CS	Cl5(96)	5169438
SX0038.S	X1091.D	HX32	CS	Cl5(96)	6449250

L3 4441532

(+) 8883064

(-) 2220766

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SX0038.S	X1092.D	HY06 ICC	ICC	Cl5(96)	5095732	
SX0038.S	X1095.D	CC816LCSD-P(3)	LCSD	Cl5(96)	3962898	
SX0038.S	X1097.D	M4556-P-D(6)	SA	Cl5(96)	8538911	
SX0038.S	X1098.D	M4556-P-D(7)	SA	Cl5(96)	4641425	
SX0038.S	X1100.D	M4557-P-D(6)	SA	Cl5(96)	4862805	
SX0038.S	X1101.D	HX29	CCV	Cl5(96)	5442778	
SX0038.S	X1102.D	M4557-P-D(7)	SA	Cl5(96)	5043579	
SX0038.S	X1103.D	M4558-P(4)	SA	Cl5(96)	15463062	>
SX0038.S	X1104.D	M4558-P-D(5)	SA	Cl5(96)	4302194	NA RR 8/21/14
SX0038.S	X1106.D	M4559-P-D(6)	SA	Cl5(96)	6127231	
SX0038.S	X1107.D	M4559-P-D(7)	SA	Cl5(96)	5025478	
SX0038.S	X1109.D	M4560-P-D(6)	SA	Cl5(96)	5220900	
SX0038.S	X1110.D	HX30	CCV	Cl5(96)	6406918	
SX0038.S	X1111.D	M4560-P-D(7)	SA	Cl5(96)	4901223	
SX0038.S	X1113.D	M4561-P-D(6)	SA	Cl5(96)	5891135	
SX0038.S	X1114.D	M4561-P-D(7)	SA	Cl5(96)	4684562	
SX0038.S	X1115.D	M4562-P(4)	SA	Cl5(96)	6305244	
SX0038.S	X1116.D	M4562-P-D(5)	SA	Cl5(96)	4613003	
SX0038.S	X1117.D	M4562MS-P(3)	MS	Cl5(96)	4785535	
SX0038.S	X1118.D	M4562MSD-P(3)	MSD	Cl5(96)	4812973	
SX0038.S	X1119.D	HX29	CCV	Cl5(96)	6626608	
SX0038.S	X1121.D	M4563-P-D(6)	SA	Cl5(96)	7685082	
SX0038.S	X1122.D	M4563-P-D(7)	SA	Cl5(96)	5221426	
SX0038.S	X1123.D	M4564-P(4)	SA	Cl5(96)	7016710	
SX0038.S	X1124.D	M4564-P-D(5)	SA	Cl5(96)	4666032	
SX0038.S	X1126.D	M4565-P-D(6)	SA	Cl5(96)	10379110	>
SX0038.S	X1127.D	M4565-P-D(8)	SA	Cl5(96)	5468092	
SX0038.S	X1128.D	HX30	CCV	Cl5(96)	6405945	
SX0038.S	X1129.D	M4565-P-D(9)	SA	Cl5(96)	5227754	
SX0038.S	X1130.D	M4566-P(4)	SA	Cl5(96)	19694426	>
SX0038.S	X1131.D	M4566-P-D(5)	SA	Cl5(96)	5522767	
SX0038.S	X1133.D	M4567-P-D(6)	SA	Cl5(96)	7345284	



The Business of Innovation

Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 14-0314

METHOD: MX0038.M

SIGNAL: 2

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SX0038.S	X1134.D	M4567-P-D(7)	SA	CI5(96)	4963168	
SX0038.S	X1136.D	M4568-P-D(6)	SA	CI5(96)	6424411	
SX0038.S	X1137.D	HX29	CCV	CI5(96)	8606875	
SX0038.S	X1138.D	M4568-P-D(7)	SA	CI5(96)	5493470	
SX0038.S	X1140.D	M4569-P-D(6)	SA	CI5(96)	6557732	
SX0038.S	X1141.D	M4569-P-D(7)	SA	CI5(96)	5689951	
SX0038.S	X1143.D	M4570-P-D(6)	SA	CI5(96)	7409377	
SX0038.S	X1144.D	M4570-P-D(7)	SA	CI5(96)	5609566	
SX0038.S	X1145.D	HX30	CCV	CI5(96)	9274770	>
SX0038.S	X1147.D	CC814PB-P(3)	PB	CI5(96)	6333289	
SX0038.S	X1148.D	CC815LCS-P(3)	LCS	CI5(96)	5523262	
SX0038.S	X1149.D	HX30	CCV	CI5(96)	6900577	
SX0038.S	X1151.D	HX29	CCV	CI5(96)	6002857	
SX0038.S	X1152.D	M4556-P-D(9)	SA	CI5(96)	4724425	
SX0038.S	X1153.D	M4557-P-D(9)	SA	CI5(96)	4606003	
SX0038.S	X1154.D	M4558-P-D(7)	SA	CI5(96)	4659298	
SX0038.S	X1155.D	M4559-P-D(9)	SA	CI5(96)	4776907	
SX0038.S	X1156.D	M4560-P-D(9)	SA	CI5(96)	4660564	
SX0038.S	X1158.D	M4563-P-D(9)	SA	CI5(96)	4922197	
SX0038.S	X1162.D	M4566-P-D(7)	SA	CI5(96)	4827770	
SX0038.S	X1163.D	M4567-P-D(9)	SA	CI5(96)	3803068	
SX0038.S	X1164.D	M4568-P-D(9)	SA	CI5(96)	4068816	
SX0038.S	X1165.D	M4569-P-D(9)	SA	CI5(96)	4346678	
SX0038.S	X1166.D	M4570-P-D(9)	SA	CI5(96)	4213455	
SX0038.S	X1167.D	HX30	CCV	CI5(96)	6285688	
SX0038.S	X1168.D	M4564-P-D(7)	SA	CI5(96)	4199386	
SX0038.S	X1169.D	M4565-P-D(11)	SA	CI5(96)	4114924	
SX0038.S	X1170.D	M4561-P-D(9)	SA	CI5(96)	4189547	
SX0038.S	X1171.D	HX29	CCV	CI5(96)	6304494	



The Business of Innovation

Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 14-0314

METHOD: MX0038.M

SIGNAL: 2

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:
SX0038.S	X1084.D	HX25	CS	Cl6(161)	9165858
SX0038.S	X1086.D	HX27	CS	Cl6(161)	9700032
SX0038.S	X1087.D	HX28	CS	Cl6(161)	11012971
SX0038.S	X1088A.D	HX29	CS	Cl6(161)	10982032
SX0038.S	X1089.D	HX30	CS	Cl6(161)	12008483
SX0038.S	X1091.D	HX32	CS	Cl6(161)	12780784

L3 11012971

(+) 22025942

(-) 5506485

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SX0038.S	X1092.D	HY06 ICC	ICC	Cl6(161)	11928985	
SX0038.S	X1095.D	CC816LCSD-P(3)	LCSD	Cl6(161)	10029866	
SX0038.S	X1097.D	M4556-P-D(6)	SA	Cl6(161)	8779172	
SX0038.S	X1098.D	M4556-P-D(7)	SA	Cl6(161)	9701922	
SX0038.S	X1100.D	M4557-P-D(6)	SA	Cl6(161)	8161656	
SX0038.S	X1101.D	HX29	CCV	Cl6(161)	12879135	
SX0038.S	X1102.D	M4557-P-D(7)	SA	Cl6(161)	11583853	
SX0038.S	X1103.D	M4558-P(4)	SA	Cl6(161)	9338806	
SX0038.S	X1104.D	M4558-P-D(5)	SA	Cl6(161)	9340646	
SX0038.S	X1106.D	M4559-P-D(6)	SA	Cl6(161)	9281712	
SX0038.S	X1107.D	M4559-P-D(7)	SA	Cl6(161)	11028230	
SX0038.S	X1109.D	M4560-P-D(6)	SA	Cl6(161)	10639654	
SX0038.S	X1110.D	HX30	CCV	Cl6(161)	15641458	
SX0038.S	X1111.D	M4560-P-D(7)	SA	Cl6(161)	11847375	
SX0038.S	X1113.D	M4561-P-D(6)	SA	Cl6(161)	9237783	
SX0038.S	X1114.D	M4561-P-D(7)	SA	Cl6(161)	11523104	
SX0038.S	X1115.D	M4562-P(4)	SA	Cl6(161)	11971304	
SX0038.S	X1116.D	M4562-P-D(5)	SA	Cl6(161)	11686053	
SX0038.S	X1117.D	M4562MS-P(3)	MS	Cl6(161)	10605760	
SX0038.S	X1118.D	M4562MSD-P(3)	MSD	Cl6(161)	10320839	
SX0038.S	X1119.D	HX29	CCV	Cl6(161)	17128899	
SX0038.S	X1121.D	M4563-P-D(6)	SA	Cl6(161)	10603086	
SX0038.S	X1122.D	M4563-P-D(7)	SA	Cl6(161)	13375818	
SX0038.S	X1123.D	M4564-P(4)	SA	Cl6(161)	11340752	
SX0038.S	X1124.D	M4564-P-D(5)	SA	Cl6(161)	13104509	
SX0038.S	X1126.D	M4565-P-D(6)	SA	Cl6(161)	9584341	
SX0038.S	X1127.D	M4565-P-D(8)	SA	Cl6(161)	11713399	
SX0038.S	X1128.D	HX30	CCV	Cl6(161)	16166160	
SX0038.S	X1129.D	M4565-P-D(9)	SA	Cl6(161)	12739780	
SX0038.S	X1130.D	M4566-P(4)	SA	Cl6(161)	10551341	
SX0038.S	X1131.D	M4566-P-D(5)	SA	Cl6(161)	12633078	
SX0038.S	X1133.D	M4567-P-D(6)	SA	Cl6(161)	10604934	

NA RR 8/21/14



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Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 14-0314

METHOD: MX0038.M

SIGNAL: 2

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SX0038.S	X1134.D	M4567-P-D(7)	SA	Cl6(161)	10748039	
SX0038.S	X1136.D	M4568-P-D(6)	SA	Cl6(161)	10695997	
SX0038.S	X1137.D	HX29	CCV	Cl6(161)	23562205	>
SX0038.S	X1138.D	M4568-P-D(7)	SA	Cl6(161)	13238584	
SX0038.S	X1140.D	M4569-P-D(6)	SA	Cl6(161)	11960147	
SX0038.S	X1141.D	M4569-P-D(7)	SA	Cl6(161)	13959808	
SX0038.S	X1143.D	M4570-P-D(6)	SA	Cl6(161)	9959426	
SX0038.S	X1144.D	M4570-P-D(7)	SA	Cl6(161)	11980368	
SX0038.S	X1145.D	HX30	CCV	Cl6(161)	24584178	>
SX0038.S	X1147.D	CC814PB-P(3)	PB	Cl6(161)	17047838	
SX0038.S	X1148.D	CC815LCS-P(3)	LCS	Cl6(161)	15187698	
SX0038.S	X1149.D	HX30	CCV	Cl6(161)	18242463	
SX0038.S	X1151.D	HX29	CCV	Cl6(161)	16180439	
SX0038.S	X1152.D	M4556-P-D(9)	SA	Cl6(161)	12572509	
SX0038.S	X1153.D	M4557-P-D(9)	SA	Cl6(161)	12443521	
SX0038.S	X1154.D	M4558-P-D(7)	SA	Cl6(161)	12958316	
SX0038.S	X1155.D	M4559-P-D(9)	SA	Cl6(161)	13126480	
SX0038.S	X1156.D	M4560-P-D(9)	SA	Cl6(161)	12687985	
SX0038.S	X1158.D	M4563-P-D(9)	SA	Cl6(161)	14370039	
SX0038.S	X1162.D	M4566-P-D(7)	SA	Cl6(161)	13432996	
SX0038.S	X1163.D	M4567-P-D(9)	SA	Cl6(161)	11849599	
SX0038.S	X1164.D	M4568-P-D(9)	SA	Cl6(161)	11635609	
SX0038.S	X1165.D	M4569-P-D(9)	SA	Cl6(161)	12017760	
SX0038.S	X1166.D	M4570-P-D(9)	SA	Cl6(161)	11590768	
SX0038.S	X1167.D	HX30	CCV	Cl6(161)	15572149	
SX0038.S	X1168.D	M4564-P-D(7)	SA	Cl6(161)	11482946	
SX0038.S	X1169.D	M4565-P-D(11)	SA	Cl6(161)	11540540	
SX0038.S	X1170.D	M4561-P-D(9)	SA	Cl6(161)	11698615	
SX0038.S	X1171.D	HX29	CCV	Cl6(161)	16652104	



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS SAMPLE PREPARATION RECORDS

<u>Project Title(s)</u> USACE/NAE New Bedford Harbor Task Order 10 14-0314 USACE-NAE New Bedford Harbor Task Order 10 - Sediment SED SOP Numbers (see workplan for modifications) <table style="margin-left: auto; margin-right: auto;"> <tr> <td>ExtractionSOP No.</td> <td>5-192</td> </tr> <tr> <td>CleanupSOP No.</td> <td>5-327</td> </tr> <tr> <td>CleanupSOP No.</td> <td>5-328</td> </tr> </table>	ExtractionSOP No.	5-192	CleanupSOP No.	5-327	CleanupSOP No.	5-328	<u>Project No.(s)</u> 100043429
ExtractionSOP No.	5-192						
CleanupSOP No.	5-327						
CleanupSOP No.	5-328						

This Batch Contains The Following Samples:			
CC814PB-P	M4559-P	M4563-P	M4569-P
CC815LCS-P	M4560-P	M4564-P	M4570-P
CC816LCSD-P	M4561-P	M4565-P	
M4556-P	M4562-P	M4566-P	
M4557-P	M4562MS-P	M4567-P	
M4558-P	M4562MSD-P	M4568-P	

Laboratory Preparation Records
COMPLETE AND VALIDATED

Prep Task Leader: Samuel Guimaraes

Approved By:	Date	Initials
Dawn Trapp	08/12/2014	DBT

BATTELLE - DUXBURY OPERATIONS SAMPLE CUSTODY LOG

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

**USACE-NAE New Bedford Harbor Task Order 10 - Sediment
SED**

Requested On/By:	08/01/2014 SG	Purpose:	Sample Preparation
Relinquished On/By:	08/01/2014 MDS	Last Activity:	Return
Accepted On/By:	08/01/2014 SG	Returned On/To:	08/01/2014 MDS
Stored In Facility:	Organics I	Returned To Facility:	Chemistry Storage: NA
Stored Until	08/01/2014	Returned Comment:	NA
Stored Comment:	NA		

No.	BDO-ID:	Ctrs	*	Condition:	Custody Comment:
1	M4556	1	--	Intact	NA
2	M4557	1	--	Intact	NA
3	M4558	1	--	Intact	NA
4	M4559	1	--	Intact	NA
5	M4560	1	--	Intact	NA
6	M4561	1	--	Intact	NA
7	M4562	1	--	Intact	NA
8	M4563	1	--	Intact	NA
9	M4564	1	--	Intact	NA
10	M4565	1	--	Intact	NA
11	M4566	1	--	Intact	NA
12	M4567	1	--	Intact	NA
13	M4568	1	--	Intact	NA
14	M4569	1	--	Intact	NA
15	M4570	1	--	Intact	NA
Total Samples		15	* "C" = Consumed Container		



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS SAMPLE IDENTIFICATION PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

**USACE-NAE New Bedford Harbor Task Order 10 - Sediment
SED**

Sample ID	Description
CC814PB-P	Procedural Blank
CC815LCS-P	Laboratory Control Sample
CC816LCSD-P	Laboratory Control Sample Duplicate
M4556-P	S-14L-OH2-00-05
M4557-P	S-14L-OG5-00-05
M4558-P	S-14L-OI5-00-05
M4559-P	S-14L-OH10-00-05
M4560-P	S-14L-OJ08-00-05
M4561-P	S-14L-OL6-00-05
M4562-P	S-14L-OL9-00-05
M4562MS-P	Matrix Spike of S-14L-OL9-00-05
M4562MSD-P	Matrix Spike Duplicate of S-14L-OL9-00-05
M4563-P	S-14L-OL9-DUP-00-05
M4564-P	S-14L-OP10-00-05
M4565-P	S-14L-ON11-00-05
M4566-P	S-14L-OJ13-00-05
M4567-P	S-14L-OO15-00-05
M4568-P	S-14L-OL17-00-05
M4569-P	S-14L-OP18-00-05
M4570-P	S-14L-ON20-00-05

Samples Assigned By: Samuel Guimaraes

Date : August 1, 2014

Comments:

BATTELLE - DUXBURY OPERATIONS ELECTRONIC DRY WEIGHT DETERMINATION

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

USACE-NAE New Bedford Harbor Task Order 10 - Sediment SED

Sample ID:	Ctrs.	*	Tare Wt. (g)	Aliquot Wt. (g)	Dry Wt. (g)	Sample Wet Wt. (g)	% Dry Wt.	% Moisture	Sample Dry Wt. (g)
CC814PB-P	NA	--	NA	NA	NA	10.08	93.07	6.93	9.38
CC815LCS-P	NA	--	NA	NA	NA	10.06	93.07	6.93	9.36
CC816LCSD-P	NA	--	NA	NA	NA	9.99	93.07	6.93	9.30
M4556-P	1	--	1.08	2.15	2.07	10.08	92.52	7.48	9.33
M4557-P	1	--	1.08	2.31	2.24	10.01	94.31	5.69	9.44
M4558-P	1	--	1.11	2.41	2.33	10.06	93.85	6.15	9.44
M4559-P	1	--	1.11	2.24	2.16	10.00	92.92	7.08	9.29
M4560-P	1	--	1.09	2.15	2.08	10.06	93.40	6.60	9.40
M4561-P	1	--	1.09	2.40	2.33	9.99	94.66	5.34	9.46
M4562-P	1	--	1.09	2.16	2.09	9.94	93.46	6.54	9.29
M4562MS-P	1	--	1.08	2.21	2.15	5.06	94.69	5.31	4.79
M4562MSD-P	1	--	1.10	2.19	2.12	5.05	93.58	6.42	4.73
M4563-P	1	--	1.09	2.66	2.51	9.94	90.45	9.55	8.99
M4564-P	1	--	1.12	2.79	2.77	10.08	98.80	1.20	9.96
M4565-P	1	--	1.09	2.35	2.23	10.05	90.48	9.52	9.09
M4566-P	1	--	1.09	3.12	2.99	9.99	93.60	6.40	9.35
M4567-P	1	--	1.11	2.20	2.08	10.03	88.99	11.01	8.93
M4568-P	1	--	1.10	2.25	2.18	10.00	93.91	6.09	9.39
M4569-P	1	--	1.12	2.31	2.22	10.00	92.44	7.56	9.24
M4570-P	1	--	1.10	2.27	2.18	10.09	92.31	7.69	9.31

Validation of:	Performed:
Wet Wt.	08/12/14 DBT

Percent Dry Wt (%) = [(Sample Dry Wt. (g) - Tare Wt. (g))/(Aliquot Wet Wt. (g) - Tare Wt. (g))] * 100

Sample Dry Wt. (%) = [(Sample Wet Wt. (g) * (Percent Dry Wt./100)]

* "C" = Sample Container Is Consumed



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS ELECTRONIC DRY WEIGHT DETERMINATION

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

**USACE-NAE New Bedford Harbor Task Order 10 - Sediment
SED**

Sample ID:	Ctrs.	*	Tare Wt. (g)	Aliquot Wt. (g)	Dry Wt. (g)	Sample Wet Wt. (g)	% Dry Wt.	% Moisture	Sample Dry Wt. (g)
Sample ID:	Comments:						Reference:		
CC814PB-P	Average of percent dry weights from authentic samples in Batch No. 14-0314 USACE-NAE New Bedford Harbor Task Order 10 - Sediment						NA		
CC815LCS-P	Average of percent dry weights from authentic samples in Batch No. 14-0314 USACE-NAE New Bedford Harbor Task Order 10 - Sediment						NA		
CC816LCSD-P	Average of percent dry weights from authentic samples in Batch No. 14-0314 USACE-NAE New Bedford Harbor Task Order 10 - Sediment						NA		

Percent Dry Wt (%) = [(Sample Dry Wt. (g) - Tare Wt. (g))/(Aliquot Wet Wt. (g) - Tare Wt. (g))] * 100

Sample Dry Wt. (%) = [(Sample Wet Wt. (g) * (Percent Dry Wt./100)]

* "C" = Sample Container Is Consumed

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Project Title(s)

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14-0314**USACE-NAE New Bedford Harbor Task Order 10 - Sediment****SED**

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
CC814PB-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
CC815LCS-P	HU72	LCS/MS	1	75	08/01/14 SG	DBT	NA
CC815LCS-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
CC816LCSD-P	HU72	LCS/MS	1	75	08/01/14 SG	DBT	NA
CC816LCSD-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4556-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4557-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4558-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4559-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4560-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4561-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4562-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4562MS-P	HU72	LCS/MS	1	125	08/01/14 SG	DBT	NA
M4562MS-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4562MSD-P	HU72	LCS/MS	1	125	08/01/14 SG	DBT	NA
M4562MSD-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4563-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4564-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4565-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4566-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4567-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4568-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4569-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA
M4570-P	HW93	SIS	5	400	08/01/14 SG	DBT	NA



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14-0314

**USACE-NAE New Bedford Harbor Task Order 10 - Sediment
SED**

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
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Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
HU72	Pipette	H0500262B
HW93	Syringe	S-1000-011

BATTELLE - DUXBURY OPERATIONS SAMPLE EXTRACTION FORM

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14-0314**USACE-NAE New Bedford Harbor Task Order 10 - Sediment****SED**

Sample ID	First Extraction	Second Extraction	Third Extraction	Turbo °C	Turbo PSI	KD °C	Comment
CC814PB-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
CC815LCS-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
CC816LCSD-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4556-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4557-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4558-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4559-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4560-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4561-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4562-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4562MS-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4562MSD-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4563-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4564-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4565-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4566-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4567-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4568-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4569-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA
M4570-P	08/01/14 SG	08/01/14 SG	08/01/14 SG	NA	NA	62	NA

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SAMPLE EXTRACTION FORM****Project Title(s)**

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14-0314**USACE-NAE New Bedford Harbor Task Order 10 - Sediment****SED**

Sample ID	First Extraction	Second Extraction	Third Extraction	Turbo °C	Turbo PSI	KD °C	Comment
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Reagents:

Name	Expires	Lot No	Procedure	Comments
Sodium Sulfate	08/07/14	0000081084	Muffled at 400 °C for more than 4 hours. Expiration date was changed from one year after preparation date once reagent was consumed.	

Solvents:

Name	Lot No	Comments
DCM cycletainer	0000071385	
hexane	0000059690	



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Extract Id	Date	Init.	Sample Specific Comments
CC814PB-P(3)	08/07/14	DBT	NA
CC815LCS-P(3)	08/07/14	DBT	NA
CC816LCSD-P(3)	08/07/14	DBT	NA
M4556-P(3)	08/07/14	DBT	NA
M4557-P(3)	08/07/14	DBT	NA
M4558-P(3)	08/07/14	DBT	NA
M4559-P(3)	08/07/14	DBT	NA
M4560-P(3)	08/07/14	DBT	NA
M4561-P(3)	08/07/14	DBT	NA
M4562-P(3)	08/07/14	DBT	NA
M4562MS-P(3)	08/07/14	DBT	NA
M4562MSD-P(3)	08/07/14	DBT	NA
M4563-P(3)	08/07/14	DBT	NA
M4564-P(3)	08/07/14	DBT	NA
M4565-P(3)	08/07/14	DBT	NA
M4566-P(3)	08/07/14	DBT	NA
M4567-P(3)	08/07/14	DBT	NA

Battelle

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BATTELLE - DUXBURY OPERATIONS COLUMN FRACTIONATION FORM

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Extract Id	Date	Init.	Sample Specific Comments
M4568-P(3)	08/07/14	DBT	NA
M4569-P(3)	08/07/14	DBT	NA
M4570-P(3)	08/07/14	DBT	NA

Column Diameter: 13 mm **Procedure Comment:**

Elution Volume: 15 mL

Solvents

Name	Lot No
hexane	0000059690

Reagents

Weight g	Name	Expires	Lot No	Procedure
1.00	Florisil	08/07/14	1730414	Baked at 110 °C for more than 24 hours (SPE columns not baked)

Fractions



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BATTELLE - DUXBURY OPERATIONS EXTRACT CLEANUP FORM

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14-0314

**USACE-NAE New Bedford Harbor Task Order 10 - Sediment
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Extract Id	Date	Init.	Comments
CC814PB-P(3)	08/13/14	DBT	NA
CC815LCS-P(3)	08/13/14	DBT	NA
CC816LCSD-P(3)	08/13/14	DBT	NA
M4556-P(3)	08/13/14	DBT	NA
M4557-P(3)	08/13/14	DBT	NA
M4558-P(3)	08/13/14	DBT	NA
M4559-P(3)	08/13/14	DBT	NA
M4560-P(3)	08/13/14	DBT	NA
M4561-P(3)	08/13/14	DBT	NA
M4562-P(3)	08/13/14	DBT	NA
M4562MS-P(3)	08/13/14	DBT	NA
M4562MSD-P(3)	08/13/14	DBT	NA
M4563-P(3)	08/13/14	DBT	NA
M4564-P(3)	08/13/14	DBT	NA
M4565-P(3)	08/13/14	DBT	NA
M4566-P(3)	08/13/14	DBT	NA
M4567-P(3)	08/13/14	DBT	NA
M4568-P(3)	08/13/14	DBT	NA



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Extract Id	Date	Init.	Comments
M4569-P(3)	08/13/14	DBT	NA
M4570-P(3)	08/13/14	DBT	NA

Cleanup:

Copper Cleanup

Reagents:

Name	Expires	Lot No	Procedure
Copper, granular (20-30 mesh)	04/14/19	0000067838	NA
Activated Copper	08/13/14	0000067838	Activated according to Cleanup SOP (5-328)



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Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
CC814PB-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
CC814PB-P-A	2	--	8/6/2014 11:38:00 AM	CC814PB-P	0	2000	1000	2.000	2.000	08/06/14 DBT
CC814PB-P	3	--	8/6/2014 11:38:00 AM	CC814PB-P	0	2000	1000	2.000	2.000	08/06/14 DBT
CC815LCS-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
CC815LCS-P-A	2	--	8/6/2014 11:38:00 AM	CC815LCS-P	0	2000	1000	2.000	2.000	08/06/14 DBT
CC815LCS-P	3	--	8/6/2014 11:38:00 AM	CC815LCS-P	0	2000	1000	2.000	2.000	08/06/14 DBT
CC816LCSD-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
CC816LCSD-P-A	2	--	8/6/2014 11:38:00 AM	CC816LCSD-P	0	2000	1000	2.000	2.000	08/06/14 DBT
CC816LCSD-P	3	--	8/6/2014 11:38:00 AM	CC816LCSD-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4556-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4556-P-A	2	--	8/6/2014 11:38:00 AM	M4556-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4556-P	3	C	8/6/2014 11:38:00 AM	M4556-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4556-P	4	--	8/13/2014 2:52:00 PM	M4556-P	3	1000	950	1.053	2.105	08/13/14 DBT
M4556-P-D	5	C	8/13/2014 2:52:00 PM	M4556-P	3	1000	50	20.000	40.000	08/13/14 DBT

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



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Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
M4556-P-D	6	--	8/13/2014 3:04:00 PM	M4556-P-D	5	1000	900	1.111	44.444	08/13/14 DBT
M4556-P-D	7	C	8/13/2014 3:04:00 PM	M4556-P-D	5	1000	100	10.000	400.000	08/13/14 DBT
M4556-P-D	8	--	8/17/2014 12:05:00 PM	M4556-P-D	7	1000	900	1.111	444.444	08/17/14 RR
M4556-P-D	9	--	8/17/2014 12:05:00 PM	M4556-P-D	7	1000	100	10.000	4000.000	08/17/14 RR
M4557-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4557-P-A	2	--	8/6/2014 11:38:00 AM	M4557-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4557-P	3	C	8/6/2014 11:38:00 AM	M4557-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4557-P	4	--	8/13/2014 2:52:00 PM	M4557-P	3	1000	950	1.053	2.105	08/13/14 DBT
M4557-P-D	5	C	8/13/2014 2:52:00 PM	M4557-P	3	1000	50	20.000	40.000	08/13/14 DBT
M4557-P-D	6	--	8/13/2014 3:08:00 PM	M4557-P-D	5	1000	800	1.250	50.000	08/13/14 DBT
M4557-P-D	7	C	8/13/2014 3:08:00 PM	M4557-P-D	5	1000	200	5.000	200.000	08/13/14 DBT
M4557-P-D	8	--	8/17/2014 12:05:00 PM	M4557-P-D	7	1000	900	1.111	222.222	08/17/14 RR
M4557-P-D	9	--	8/17/2014 12:05:00 PM	M4557-P-D	7	1000	100	10.000	2000.000	08/17/14 RR
M4558-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



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Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
M4558-P-A	2	--	8/6/2014 11:38:00 AM	M4558-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4558-P	3	C	8/6/2014 11:38:00 AM	M4558-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4558-P	4	--	8/13/2014 2:58:00 PM	M4558-P	3	1000	980	1.020	2.041	08/13/14 DBT
M4558-P-D	5	C	8/13/2014 2:58:00 PM	M4558-P	3	1000	20	50.000	100.000	08/13/14 DBT
M4558-P-D	6	--	8/17/2014 12:05:00 PM	M4558-P-D	5	1000	900	1.111	111.111	08/17/14 RR
M4558-P-D	7	--	8/17/2014 12:05:00 PM	M4558-P-D	5	1000	100	10.000	1000.000	08/17/14 RR
M4559-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4559-P-A	2	--	8/6/2014 11:38:00 AM	M4559-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4559-P	3	C	8/6/2014 11:38:00 AM	M4559-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4559-P	4	--	8/13/2014 2:52:00 PM	M4559-P	3	1000	950	1.053	2.105	08/13/14 DBT
M4559-P-D	5	C	8/13/2014 2:52:00 PM	M4559-P	3	1000	50	20.000	40.000	08/13/14 DBT
M4559-P-D	6	--	8/13/2014 3:08:00 PM	M4559-P-D	5	1000	800	1.250	50.000	08/13/14 DBT
M4559-P-D	7	C	8/13/2014 3:08:00 PM	M4559-P-D	5	1000	200	5.000	200.000	08/13/14 DBT
M4559-P-D	8	--	8/17/2014 12:05:00 PM	M4559-P-D	7	1000	900	1.111	222.222	08/17/14 RR

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



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Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
M4559-P-D	9	--	8/17/2014 12:05:00 PM	M4559-P-D	7	1000	100	10.000	2000.000	08/17/14 RR
M4560-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4560-P-A	2	--	8/6/2014 11:38:00 AM	M4560-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4560-P	3	C	8/6/2014 11:38:00 AM	M4560-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4560-P	4	--	8/13/2014 2:52:00 PM	M4560-P	3	1000	950	1.053	2.105	08/13/14 DBT
M4560-P-D	5	C	8/13/2014 2:52:00 PM	M4560-P	3	1000	50	20.000	40.000	08/13/14 DBT
M4560-P-D	6	--	8/13/2014 3:08:00 PM	M4560-P-D	5	1000	800	1.250	50.000	08/13/14 DBT
M4560-P-D	7	C	8/13/2014 3:08:00 PM	M4560-P-D	5	1000	200	5.000	200.000	08/13/14 DBT
M4560-P-D	8	--	8/17/2014 12:05:00 PM	M4560-P-D	7	1000	900	1.111	222.222	08/17/14 RR
M4560-P-D	9	--	8/17/2014 12:05:00 PM	M4560-P-D	7	1000	100	10.000	2000.000	08/17/14 RR
M4561-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4561-P-A	2	--	8/6/2014 11:38:00 AM	M4561-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4561-P	3	C	8/6/2014 11:38:00 AM	M4561-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4561-P	4	--	8/13/2014 2:52:00 PM	M4561-P	3	1000	950	1.053	2.105	08/13/14 DBT

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



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Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
M4561-P-D	5	C	8/13/2014 2:52:00 PM	M4561-P	3	1000	50	20.000	40.000	08/13/14 DBT
M4561-P-D	6	--	8/13/2014 3:04:00 PM	M4561-P-D	5	1000	900	1.111	44.444	08/13/14 DBT
M4561-P-D	7	C	8/13/2014 3:04:00 PM	M4561-P-D	5	1000	100	10.000	400.000	08/13/14 DBT
M4561-P-D	8	--	8/17/2014 12:05:00 PM	M4561-P-D	7	1000	900	1.111	444.444	08/17/14 RR
M4561-P-D	9	--	8/17/2014 12:05:00 PM	M4561-P-D	7	1000	100	10.000	4000.000	08/17/14 RR
M4562-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4562-P-A	2	--	8/6/2014 11:38:00 AM	M4562-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4562-P	3	C	8/6/2014 11:38:00 AM	M4562-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4562-P	4	--	8/13/2014 2:58:00 PM	M4562-P	3	1000	980	1.020	2.041	08/13/14 DBT
M4562-P-D	5	--	8/13/2014 2:58:00 PM	M4562-P	3	1000	20	50.000	100.000	08/13/14 DBT
M4562MS-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4562MS-P-A	2	--	8/6/2014 11:38:00 AM	M4562MS-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4562MS-P	3	--	8/6/2014 11:38:00 AM	M4562MS-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4562MSD-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314**USACE-NAE New Bedford Harbor Task Order 10 - Sediment****SED**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
M4562MSD-P-A	2	--	8/6/2014 11:38:00 AM	M4562MSD-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4562MSD-P	3	--	8/6/2014 11:38:00 AM	M4562MSD-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4563-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4563-P-A	2	--	8/6/2014 11:38:00 AM	M4563-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4563-P	3	C	8/6/2014 11:38:00 AM	M4563-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4563-P	4	--	8/13/2014 2:52:00 PM	M4563-P	3	1000	950	1.053	2.105	08/13/14 DBT
M4563-P-D	5	C	8/13/2014 2:52:00 PM	M4563-P	3	1000	50	20.000	40.000	08/13/14 DBT
M4563-P-D	6	--	8/13/2014 3:04:00 PM	M4563-P-D	5	1000	900	1.111	44.444	08/13/14 DBT
M4563-P-D	7	C	8/13/2014 3:04:00 PM	M4563-P-D	5	1000	100	10.000	400.000	08/13/14 DBT
M4563-P-D	8	--	8/17/2014 12:05:00 PM	M4563-P-D	7	1000	900	1.111	444.444	08/17/14 RR
M4563-P-D	9	--	8/17/2014 12:05:00 PM	M4563-P-D	7	1000	100	10.000	4000.000	08/17/14 RR
M4564-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4564-P-A	2	--	8/6/2014 11:38:00 AM	M4564-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4564-P	3	C	8/6/2014 11:38:00 AM	M4564-P	0	2000	1000	2.000	2.000	08/06/14 DBT

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314**USACE-NAE New Bedford Harbor Task Order 10 - Sediment****SED**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
M4564-P	4	--	8/13/2014 2:52:00 PM	M4564-P	3	1000	950	1.053	2.105	08/13/14 DBT
M4564-P-D	5	C	8/13/2014 2:52:00 PM	M4564-P	3	1000	50	20.000	40.000	08/13/14 DBT
M4564-P-D	6	--	8/17/2014 12:05:00 PM	M4564-P-D	5	1000	900	1.111	44.444	08/17/14 RR
M4564-P-D	7	--	8/17/2014 12:05:00 PM	M4564-P-D	5	1000	100	10.000	400.000	08/17/14 RR
M4565-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4565-P-A	2	--	8/6/2014 11:38:00 AM	M4565-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4565-P	3	C	8/6/2014 11:38:00 AM	M4565-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4565-P	4	--	8/13/2014 2:52:00 PM	M4565-P	3	1000	950	1.053	2.105	08/13/14 DBT
M4565-P-D	5	C	8/13/2014 2:52:00 PM	M4565-P	3	1000	50	20.000	40.000	08/13/14 DBT
M4565-P-D	6	--	8/13/2014 3:04:00 PM	M4565-P-D	5	1000	900	1.111	44.444	08/13/14 DBT
M4565-P-D	7	C	8/13/2014 3:04:00 PM	M4565-P-D	5	1000	100	10.000	400.000	08/13/14 DBT
M4565-P-D	8	--	8/13/2014 3:11:00 PM	M4565-P-D	7	1000	600	1.667	666.667	08/13/14 DBT
M4565-P-D	9	C	8/13/2014 3:11:00 PM	M4565-P-D	7	1000	400	2.500	1000.000	08/13/14 DBT
M4565-P-D	10	--	8/17/2014 12:05:00 PM	M4565-P-D	9	1000	900	1.111	1111.111	08/17/14 RR

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

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14-0314**USACE-NAE New Bedford Harbor Task Order 10 - Sediment****SED**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
M4565-P-D	11	--	8/17/2014 12:05:00 PM	M4565-P-D	9	1000	100	10.000	10000.000	08/17/14 RR
M4566-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4566-P-A	2	--	8/6/2014 11:38:00 AM	M4566-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4566-P	3	C	8/6/2014 11:38:00 AM	M4566-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4566-P	4	--	8/13/2014 2:58:00 PM	M4566-P	3	1000	980	1.020	2.041	08/13/14 DBT
M4566-P-D	5	C	8/13/2014 2:58:00 PM	M4566-P	3	1000	20	50.000	100.000	08/13/14 DBT
M4566-P-D	6	--	8/17/2014 12:05:00 PM	M4566-P-D	5	1000	900	1.111	111.111	08/17/14 RR
M4566-P-D	7	--	8/17/2014 12:05:00 PM	M4566-P-D	5	1000	100	10.000	1000.000	08/17/14 RR
M4567-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4567-P-A	2	--	8/6/2014 11:38:00 AM	M4567-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4567-P	3	C	8/6/2014 11:38:00 AM	M4567-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4567-P	4	--	8/13/2014 2:52:00 PM	M4567-P	3	1000	950	1.053	2.105	08/13/14 DBT
M4567-P-D	5	C	8/13/2014 2:52:00 PM	M4567-P	3	1000	50	20.000	40.000	08/13/14 DBT
M4567-P-D	6	--	8/13/2014 3:08:00 PM	M4567-P-D	5	1000	800	1.250	50.000	08/13/14 DBT

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

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14-0314**USACE-NAE New Bedford Harbor Task Order 10 - Sediment****SED**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
M4567-P-D	7	C	8/13/2014 3:08:00 PM	M4567-P-D	5	1000	200	5.000	200.000	08/13/14 DBT
M4567-P-D	8	--	8/17/2014 12:05:00 PM	M4567-P-D	7	1000	900	1.111	222.222	08/17/14 RR
M4567-P-D	9	--	8/17/2014 12:05:00 PM	M4567-P-D	7	1000	100	10.000	2000.000	08/17/14 RR
M4568-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4568-P-A	2	--	8/6/2014 11:38:00 AM	M4568-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4568-P	3	C	8/6/2014 11:38:00 AM	M4568-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4568-P	4	--	8/13/2014 2:52:00 PM	M4568-P	3	1000	950	1.053	2.105	08/13/14 DBT
M4568-P-D	5	C	8/13/2014 2:52:00 PM	M4568-P	3	1000	50	20.000	40.000	08/13/14 DBT
M4568-P-D	6	--	8/13/2014 3:08:00 PM	M4568-P-D	5	1000	800	1.250	50.000	08/13/14 DBT
M4568-P-D	7	C	8/13/2014 3:08:00 PM	M4568-P-D	5	1000	200	5.000	200.000	08/13/14 DBT
M4568-P-D	8	--	8/17/2014 12:05:00 PM	M4568-P-D	7	1000	900	1.111	222.222	08/17/14 RR
M4568-P-D	9	--	8/17/2014 12:05:00 PM	M4568-P-D	7	1000	100	10.000	2000.000	08/17/14 RR
M4569-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4569-P-A	2	--	8/6/2014 11:38:00 AM	M4569-P	0	2000	1000	2.000	2.000	08/06/14 DBT

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314**USACE-NAE New Bedford Harbor Task Order 10 - Sediment****SED**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
M4569-P	3	C	8/6/2014 11:38:00 AM	M4569-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4569-P	4	--	8/13/2014 2:52:00 PM	M4569-P	3	1000	950	1.053	2.105	08/13/14 DBT
M4569-P-D	5	C	8/13/2014 2:52:00 PM	M4569-P	3	1000	50	20.000	40.000	08/13/14 DBT
M4569-P-D	6	--	8/13/2014 3:08:00 PM	M4569-P-D	5	1000	800	1.250	50.000	08/13/14 DBT
M4569-P-D	7	C	8/13/2014 3:08:00 PM	M4569-P-D	5	1000	200	5.000	200.000	08/13/14 DBT
M4569-P-D	8	--	8/17/2014 12:05:00 PM	M4569-P-D	7	1000	900	1.111	222.222	08/17/14 RR
M4569-P-D	9	--	8/17/2014 12:05:00 PM	M4569-P-D	7	1000	100	10.000	2000.000	08/17/14 RR
M4570-P	0	C	8/1/2014 12:00:00 PM	NA		NA	NA	1.000	1.000	08/01/14 SG
M4570-P-A	2	--	8/6/2014 11:38:00 AM	M4570-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4570-P	3	C	8/6/2014 11:38:00 AM	M4570-P	0	2000	1000	2.000	2.000	08/06/14 DBT
M4570-P	4	--	8/13/2014 2:52:00 PM	M4570-P	3	1000	950	1.053	2.105	08/13/14 DBT
M4570-P-D	5	C	8/13/2014 2:52:00 PM	M4570-P	3	1000	50	20.000	40.000	08/13/14 DBT
M4570-P-D	6	--	8/13/2014 3:08:00 PM	M4570-P-D	5	1000	800	1.250	50.000	08/13/14 DBT
M4570-P-D	7	C	8/13/2014 3:08:00 PM	M4570-P-D	5	1000	200	5.000	200.000	08/13/14 DBT

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314**USACE-NAE New Bedford Harbor Task Order 10 - Sediment****SED**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
M4570-P-D	8	--	8/17/2014 12:05:00 PM	M4570-P-D	7	1000	900	1.111	222.222	08/17/14 RR
M4570-P-D	9	--	8/17/2014 12:05:00 PM	M4570-P-D	7	1000	100	10.000	2000.000	08/17/14 RR

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

USACE-NAE New Bedford Harbor Task Order 10 - Sediment

SED

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution*	Date Spiked/ Spiked By	With'd By
CC814PB-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
CC815LCS-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
CC816LCSD-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4556-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4556-P-D(5)	905	95	HX16	100	4	1000	40.000	08/13/14 DBT	LMG
M4556-P-D(7)	910	90	HX16	100	4	1000	400.000	08/14/14 DBT	LMG
M4556-P-D(9)	910	90	HX16	100	4	1000	4000.000	08/17/14 RR	NA
M4557-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4557-P-D(5)	905	95	HX16	100	4	1000	40.000	08/13/14 DBT	LMG
M4557-P-D(7)	920	80	HX16	100	4	1000	200.000	08/13/14 DBT	LMG
M4557-P-D(9)	910	90	HX16	100	4	1000	2000.000	08/17/14 RR	NA
M4558-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4558-P-D(5)	902	98	HX16	100	4	1000	100.000	08/14/14 DBT	LMG
M4558-P-D(7)	910	90	HX16	100	4	1000	1000.000	08/17/14 RR	NA
M4559-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4559-P-D(5)	905	95	HX16	100	4	1000	40.000	08/13/14 DBT	LMG
M4559-P-D(7)	920	80	HX16	100	4	1000	200.000	08/13/14 DBT	LMG
M4559-P-D(9)	910	90	HX16	100	4	1000	2000.000	08/17/14 RR	NA
M4560-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

USACE-NAE New Bedford Harbor Task Order 10 - Sediment

SED

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution	Date Spiked/ Spiked By	Witn'd By
M4560-P-D(5)	905	95	HX16	100	4	1000	40.000	08/13/14 DBT	LMG
M4560-P-D(7)	920	80	HX16	100	4	1000	200.000	08/13/14 DBT	LMG
M4560-P-D(9)	910	90	HX16	100	4	1000	2000.000	08/17/14 RR	NA
M4561-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4561-P-D(5)	905	95	HX16	100	4	1000	40.000	08/14/14 DBT	LMG
M4561-P-D(7)	910	90	HX16	100	4	1000	400.000	08/14/14 DBT	LMG
M4561-P-D(9)	910	90	HX16	100	4	1000	4000.000	08/17/14 RR	NA
M4562-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4562-P-D(5)	902	98	HX16	100	4	1000	100.000	08/14/14 DBT	LMG
M4562MS-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4562MSD-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4563-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4563-P-D(5)	905	95	HX16	100	4	1000	40.000	08/14/14 DBT	LMG
M4563-P-D(7)	910	90	HX16	100	4	1000	400.000	08/14/14 DBT	NA
M4563-P-D(9)	910	90	HX16	100	4	1000	4000.000	08/17/14 RR	NA
M4564-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4564-P-D(5)	905	95	HX16	100	4	1000	40.000	08/14/14 DBT	LMG
M4564-P-D(7)	910	90	HX16	100	4	1000	400.000	08/17/14 RR	NA
M4565-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

USACE-NAE New Bedford Harbor Task Order 10 - Sediment

SED

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution	Date Spiked/ Spiked By	With'd By
M4565-P-D(5)	905	95	HX16	100	4	1000	40.000	08/14/14 DBT	LMG
M4565-P-D(7)	910	90	HX16	100	4	1000	400.000	08/14/14 DBT	LMG
M4565-P-D(9)	940	60	HX16	100	4	1000	1000.000	08/14/14 DBT	LMG
M4565-P-D(11)	910	90	HX16	100	4	1000	10000.000	08/17/14 RR	NA
M4566-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4566-P-D(5)	902	98	HX16	100	4	1000	100.000	08/14/14 DBT	LMG
M4566-P-D(7)	910	90	HX16	100	4	1000	1000.000	08/17/14 RR	NA
M4567-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4567-P-D(5)	905	95	HX16	100	4	1000	40.000	08/13/14 DBT	LMG
M4567-P-D(7)	920	80	HX16	100	4	1000	200.000	08/13/14 DBT	LMG
M4567-P-D(9)	910	90	HX16	100	4	1000	2000.000	08/17/14 RR	NA
M4568-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4568-P-D(5)	905	95	HX16	100	4	1000	40.000	08/13/14 DBT	LMG
M4568-P-D(7)	920	80	HX16	100	4	1000	200.000	08/13/14 DBT	LMG
M4568-P-D(9)	910	90	HX16	100	4	1000	2000.000	08/17/14 RR	NA
M4569-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4569-P-D(5)	905	95	HX16	100	4	1000	40.000	08/13/14 DBT	LMG
M4569-P-D(7)	920	80	HX16	100	4	1000	200.000	08/13/14 DBT	LMG
M4569-P-D(9)	910	90	HX16	100	4	1000	2000.000	08/17/14 RR	NA

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

USACE-NAE New Bedford Harbor Task Order 10 - Sediment

SED

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
M4570-P(3)	900	100	HX16	100	3	1000	2.000	08/07/14 DBT	JCT
M4570-P-D(5)	905	95	HX16	100	4	1000	40.000	08/13/14 DBT	LMG
M4570-P-D(7)	920	80	HX16	100	4	1000	200.000	08/13/14 DBT	LMG
M4570-P-D(9)	910	90	HX16	100	4	1000	2000.000	08/17/14 RR	NA

Syringes/Pipettes Used:

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS SAMPLE SPECIFIC COMMENTS

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

**USACE-NAE New Bedford Harbor Task Order 10 - Sediment
SED**

Sample ID:	Comment:	Date/Initials:
CC814PB-P	NA	NA
CC815LCS-P	NA	NA
CC816LCSD-P	NA	NA
M4556-P	NA	NA
M4557-P	NA	NA
M4558-P	NA	NA
M4559-P	NA	NA
M4560-P	NA	NA
M4561-P	NA	NA
M4562-P	NA	NA
M4562MS-P	NA	NA
M4562MSD-P	NA	NA
M4563-P	NA	NA
M4564-P	NA	NA
M4565-P	NA	NA
M4566-P	NA	NA
M4567-P	NA	NA
M4568-P	NA	NA
M4569-P	NA	NA
M4570-P	NA	NA



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

USACE-NAE New Bedford Harbor Task Order 10 - Sediment

SED

Purpose: GC/ECD TRANSFER		Last Activity: Prep->Inst	
Relinquished On/By: Aug 7 2014 5:12PM DBT		Received On/By: Aug 7 2014 5:21PM LMG	
Relinquished From: Sample Preparation: NA		Received Location: GC Laboratory: NA	
Relinquish Comment: NA		Received Comment: NA	

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	CC814PB-P(3)	1000	2	Intact	NA
2	CC815LCS-P(3)	1000	2	Intact	NA
3	CC816LCSD-P(3)	1000	2	Intact	NA
4	M4556-P(3)	1000	2	Intact	NA
5	M4557-P(3)	1000	2	Intact	NA
6	M4558-P(3)	1000	2	Intact	NA
7	M4559-P(3)	1000	2	Intact	NA
8	M4560-P(3)	1000	2	Intact	NA
9	M4561-P(3)	1000	2	Intact	NA
10	M4562-P(3)	1000	2	Intact	NA
11	M4562MS-P(3)	1000	2	Intact	NA
12	M4562MSD-P(3)	1000	2	Intact	NA
13	M4563-P(3)	1000	2	Intact	NA
14	M4564-P(3)	1000	2	Intact	NA
15	M4565-P(3)	1000	2	Intact	NA
16	M4566-P(3)	1000	2	Intact	NA
17	M4567-P(3)	1000	2	Intact	NA
18	M4568-P(3)	1000	2	Intact	NA
19	M4569-P(3)	1000	2	Intact	NA
20	M4570-P(3)	1000	2	Intact	NA

Total Extracts: 20

BATTELLE - DUXBURY OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

USACE-NAE New Bedford Harbor Task Order 10 - Sediment SED

Purpose: GC/ECD TRANSFER		Last Activity: Prep->Inst	
Relinquished On/By: Aug 13 2014 5:53PM DBT		Received On/By: Aug 13 2014 5:54PM LMG	
Relinquished From: Sample Preparation: NA		Received Location: GC Laboratory: NA	
Relinquish Comment: NA		Received Comment: NA	

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	M4557-P(4)	1000	2.105	Intact	NA
2	M4557-P-D(6)	1000	50	Intact	NA
3	M4557-P-D(7)	1000	200	Intact	NA
4	M4559-P(4)	1000	2.105	Intact	NA
5	M4559-P-D(6)	1000	50	Intact	NA
6	M4559-P-D(7)	1000	200	Intact	NA
7	M4560-P(4)	1000	2.105	Intact	NA
8	M4560-P-D(6)	1000	50	Intact	NA
9	M4560-P-D(7)	1000	200	Intact	NA
10	M4567-P(4)	1000	2.105	Intact	NA
11	M4567-P-D(6)	1000	50	Intact	NA
12	M4567-P-D(7)	1000	200	Intact	NA
13	M4568-P(4)	1000	2.105	Intact	NA
14	M4568-P-D(6)	1000	50	Intact	NA
15	M4568-P-D(7)	1000	200	Intact	NA
16	M4569-P(4)	1000	2.105	Intact	NA
17	M4569-P-D(6)	1000	50	Intact	NA
18	M4569-P-D(7)	1000	200	Intact	NA
19	M4570-P(4)	1000	2.105	Intact	NA
20	M4570-P-D(6)	1000	50	Intact	NA
21	M4570-P-D(7)	1000	200	Intact	NA

Total Extracts: 21

BATTELLE - DUXBURY OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314**USACE-NAE New Bedford Harbor Task Order 10 - Sediment****SED**

Purpose: GC/ECD TRANSFER		Last Activity: Prep->Inst	
Relinquished On/By: Aug 14 2014 8:42AM DBT		Received On/By: Aug 14 2014 8:53AM LMG	
Relinquished From: Sample Preparation: NA		Received Location: GC Laboratory: NA	
Relinquish Comment: NA		Received Comment: NA	

No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	CC814PB-P(3)	1000	2	Intact	NA
2	CC815LCS-P(3)	1000	2	Intact	NA
3	CC816LCSD-P(3)	1000	2	Intact	NA
4	M4556-P(4)	1000	2.105	Intact	NA
5	M4556-P-D(6)	1000	44.444	Intact	NA
6	M4556-P-D(7)	1000	400	Intact	NA
7	M4558-P(4)	1000	2.041	Intact	NA
8	M4558-P-D(5)	1000	100	Intact	NA
9	M4561-P(4)	1000	2.105	Intact	NA
10	M4561-P-D(6)	1000	44.444	Intact	NA
11	M4561-P-D(7)	1000	400	Intact	NA
12	M4562-P(4)	1000	2.041	Intact	NA
13	M4562-P-D(5)	1000	100	Intact	NA
14	M4562MS-P(3)	1000	2	Intact	NA
15	M4562MSD-P(3)	1000	2	Intact	NA
16	M4563-P(4)	1000	2.105	Intact	NA
17	M4563-P-D(6)	1000	44.444	Intact	NA
18	M4563-P-D(7)	1000	400	Intact	NA
19	M4564-P(4)	1000	2.105	Intact	NA
20	M4564-P-D(5)	1000	40	Intact	NA
21	M4565-P(4)	1000	2.105	Intact	NA
22	M4565-P-D(6)	1000	44.444	Intact	NA
23	M4565-P-D(8)	1000	666.667	Intact	NA
24	M4565-P-D(9)	1000	1000	Intact	NA
25	M4566-P(4)	1000	2.041	Intact	NA
26	M4566-P-D(5)	1000	100	Intact	NA

Total Extracts: 26

BATTELLE - DUXBURY OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

USACE-NAE New Bedford Harbor Task Order 10 - Sediment SED

Purpose: GC/ECD TRANSFER				Last Activity: Prep->Inst	
Relinquished On/By: Aug 17 2014 12:23PM RR				Received On/By: Aug 17 2014 12:23PM RR	
Relinquished From: GC Laboratory: NA				Received Location: GC Laboratory: NA	
Relinquish Comment: NA				Received Comment: NA	
No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	M4556-P-D(8)	1000	444.444	Intact	NA
2	M4556-P-D(9)	1000	4000	Intact	NA
3	M4557-P-D(8)	1000	222.222	Intact	NA
4	M4557-P-D(9)	1000	2000	Intact	NA
5	M4558-P-D(6)	1000	111.111	Intact	NA
6	M4558-P-D(7)	1000	1000	Intact	NA
7	M4559-P-D(8)	1000	222.222	Intact	NA
8	M4559-P-D(9)	1000	2000	Intact	NA
9	M4560-P-D(8)	1000	222.222	Intact	NA
10	M4560-P-D(9)	1000	2000	Intact	NA
11	M4561-P-D(8)	1000	444.444	Intact	NA
12	M4561-P-D(9)	1000	4000	Intact	NA
13	M4563-P-D(8)	1000	444.444	Intact	NA
14	M4563-P-D(9)	1000	4000	Intact	NA
15	M4564-P-D(6)	1000	44.444	Intact	NA
16	M4564-P-D(7)	1000	400	Intact	NA
17	M4565-P-D(10)	1000	1111.111	Intact	NA
18	M4565-P-D(11)	1000	10000	Intact	NA
19	M4566-P-D(6)	1000	111.111	Intact	NA
20	M4566-P-D(7)	1000	1000	Intact	NA
21	M4567-P-D(8)	1000	222.222	Intact	NA
22	M4567-P-D(9)	1000	2000	Intact	NA
23	M4568-P-D(8)	1000	222.222	Intact	NA
24	M4568-P-D(9)	1000	2000	Intact	NA
25	M4569-P-D(8)	1000	222.222	Intact	NA
26	M4569-P-D(9)	1000	2000	Intact	NA
27	M4570-P-D(8)	1000	222.222	Intact	NA
28	M4570-P-D(9)	1000	2000	Intact	NA



The Business of Innovation

**BATTELLE - DUXBURY OPERATIONS
EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE**

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314

**USACE-NAE New Bedford Harbor Task Order 10 - Sediment
SED**

Total Extracts:	28
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BATTELLE - DUXBURY OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

14-0314**USACE-NAE New Bedford Harbor Task Order 10 - Sediment
SED**

Entered By: Dawn Trapp**On:** 08/12/2014

Weights were incorrectly recorded for percent moisture determination measurements. "Aliquot wet weight" value was recorded as only the weight of the sediment added to the weighing pan, not the combined weight of pan and sediment. These incorrectly recorded data were printed (electronically and in hard copy) as backups before manually calculating and entering the correct value (the sum of empty pan and sediment-only weights) in the aliquot wet weight field. Arithmetic and hand-entering were validated by the prep supervisor.

Task Leader Approval: Dawn Trapp**On:** 08/12/2014**Supervisor Approval:** Dawn Trapp**On:** 08/12/2014**PM Approval:** Carole Peven-McCarthy**On:** 08/19/2014

Directory I:\X\DATA\SX0038\ Highlighted cells reported.

Lin	BTL	File	Sample Id	Miscellaneous	Injected
1	1	X1083.D	HF94	NA. RR 8/19/14	8-13-2014 05:18 PM
2	2	X1084.D	HX25		8-13-2014 06:04 PM
3	3	X1085.D	HX26	Level not used. RR 8/19/14	8-13-2014 06:50 PM
4	4	X1086.D	HX27		8-13-2014 07:36 PM
5	5	X1087.D	HX28		8-13-2014 08:22 PM
6	---	X1088.D	No data in directory.	Instrument stopped.	***
7	6	X1088A.D	HX29	ICAL acceptable.	8-14-2014 08:41 AM
8	7	X1089.D	HX30	RR 8/19/14	8-14-2014 09:27 AM
9	8	X1090.D	HX31	Level not used. RR 8/19/14	8-14-2014 10:13 AM
10	9	X1091.D	HX32		8-14-2014 10:59 AM
11	10	X1092.D	HY06 ICC		8-14-2014 11:44 AM
12	---	X1093.D	No data in directory.	Data lost during transfer. Samples re-run below.	***
13	---	X1094.D	No data in directory.	RR 8/19/14	***
14	13	X1095.D	CC816LCSD-P(3)		Laboratory Control Sample 8-14-2014 04:59 PM
15	14	X1096.D	M4556-P(4)	(2)	S-14L-OH2-00-05 5-128 14- 8-14-2014 05:44 PM
16	15	X1097.D	M4556-P-D(6)		S-14L-OH2-00-05 5-128 14- 8-14-2014 06:30 PM
17	16	X1098.D	M4556-P-D(7)		S-14L-OH2-00-05 5-128 14- 8-14-2014 07:16 PM
18	17	X1099.D	M4557-P(4)	(2)	S-14L-OG5-00-05 5-128 14- 8-14-2014 08:02 PM
19	18	X1100.D	M4557-P-D(6)		S-14L-OG5-00-05 5-128 14- 8-14-2014 08:48 PM
20	19	X1101.D	HX29 mid		8-14-2014 09:34 PM
21	20	X1102.D	M4557-P-D(7)		S-14L-OG5-00-05 5-128 14- 8-14-2014 10:20 PM
22	21	X1103.D	M4558-P(4)	(2)	S-14L-OI5-00-05 5-128 14- 8-14-2014 11:06 PM
23	22	X1104.D	M4558-P-D(5)	(2)	S-14L-OI5-00-05 5-128 14- 8-14-2014 11:53 PM
24	23	X1105.D	M4559-P(4)		S-14L-OH10-00-05 5-128 14- 8-15-2014 12:39 AM
25	24	X1106.D	M4559-P-D(6)		S-14L-OH10-00-05 5-128 14- 8-15-2014 01:25 AM
26	25	X1107.D	M4559-P-D(7)		S-14L-OH10-00-05 5-128 14- 8-15-2014 02:11 AM
27	26	X1108.D	M4560-P(4)	(2)	S-14L-OJ08-00-05 5-128 14- 8-15-2014 02:58 AM
28	27	X1109.D	M4560-P-D(6)		S-14L-OJ08-00-05 5-128 14- 8-15-2014 03:44 AM
29	28	X1110.D	HX30 mid		8-15-2014 04:30 AM
30	29	X1111.D	M4560-P-D(7)		S-14L-OJ08-00-05 5-128 14- 8-15-2014 05:16 AM
31	30	X1112.D	M4561-P(4)	(2)	S-14L-OL6-00-05 5-128 14- 8-15-2014 06:03 AM
32	31	X1113.D	M4561-P-D(6)		S-14L-OL6-00-05 5-128 14- 8-15-2014 06:49 AM
33	32	X1114.D	M4561-P-D(7)		S-14L-OL6-00-05 5-128 14- 8-15-2014 07:35 AM
34	33	X1115.D	M4562-P(4)		S-14L-OL9-00-05 5-128 14- 8-15-2014 08:21 AM
35	34	X1116.D	M4562-P-D(5)		S-14L-OL9-00-05 5-128 14- 8-15-2014 09:07 AM
36	35	X1117.D	M4562MS-P(3)		Matrix Spike of S-14L-OL9 8-15-2014 09:53 AM
37	36	X1118.D	M4562MSD-P(3)		Matrix Spike Duplicate of 8-15-2014 10:39 AM
38	37	X1119.D	HX29 mid		8-15-2014 11:25 AM
39	38	X1120.D	M4563-P(4)	(2)	S-14L-OL9-DUP-00-05 5-128 8-15-2014 12:11 PM
40	39	X1121.D	M4563-P-D(6)		S-14L-OL9-DUP-00-05 5-128 8-15-2014 12:56 PM
41	40	X1122.D	M4563-P-D(7)		S-14L-OL9-DUP-00-05 5-128 8-15-2014 03:35 PM
42	41	X1123.D	M4564-P(4)		S-14L-OP10-00-05 5-128 14- 8-15-2014 04:21 PM
43	42	X1124.D	M4564-P-D(5)		S-14L-OP10-00-05 5-128 14- 8-15-2014 05:07 PM
44	43	X1125.D	M4565-P(4)	(2)	S-14L-ON11-00-05 5-128 14- 8-15-2014 05:53 PM
45	44	X1126.D	M4565-P-D(6)		S-14L-ON11-00-05 5-128 14- 8-15-2014 06:38 PM
46	45	X1127.D	M4565-P-D(8)		S-14L-ON11-00-05 5-128 14- 8-15-2014 07:24 PM
47	46	X1128.D	HX30 mid		8-15-2014 08:10 PM
48	47	X1129.D	M4565-P-D(9)		S-14L-ON11-00-05 5-128 14- 8-15-2014 08:56 PM
49	48	X1130.D	M4566-P(4)		S-14L-OJ13-00-05 5-128 14- 8-15-2014 09:42 PM
50	49	X1131.D	M4566-P-D(5)		S-14L-OJ13-00-05 5-128 14- 8-15-2014 10:28 PM
51	50	X1132.D	M4567-P(4)	(2)	S-14L-OO15-00-05 5-128 14- 8-15-2014 11:14 PM
52	51	X1133.D	M4567-P-D(6)		S-14L-OO15-00-05 5-128 14- 8-15-2014 11:59 PM
53	52	X1134.D	M4567-P-D(7)		S-14L-OO15-00-05 5-128 14- 8-16-2014 12:45 AM
54	53	X1135.D	M4568-P(4)	(2)	S-14L-OL17-00-05 5-128 14- 8-16-2014 01:31 AM
55	54	X1136.D	M4568-P-D(6)		S-14L-OL17-00-05 5-128 14- 8-16-2014 02:17 AM
56	55	X1137.D	HX29 mid		8-16-2014 03:03 AM
57	56	X1138.D	M4568-P-D(7)	(2)	S-14L-OL17-00-05 5-128 14- 8-16-2014 03:49 AM
58	57	X1139.D	M4569-P(4)		S-14L-OP18-00-05 5-128 14- 8-16-2014 04:35 AM
59	58	X1140.D	M4569-P-D(6)		S-14L-OP18-00-05 5-128 14- 8-16-2014 05:21 AM
60	59	X1141.D	M4569-P-D(7)		S-14L-OP18-00-05 5-128 14- 8-16-2014 06:06 AM
61	60	X1142.D	M4570-P(4)	(2)	S-14L-ON20-00-05 5-128 14- 8-16-2014 06:52 AM

Directory I:\X\DATA\SX0038\

Lin	BTL	File	Sample Id	Miscellaneous	Injected

62	61	X1143.D	M4570-P-D(6)	S-14L-ON20-00-05 5-128 14	8-16-2014 07:38 AM
63	62	X1144.D	M4570-P-D(7)	S-14L-ON20-00-05 5-128 14	8-16-2014 08:24 AM
64	63	X1145.D	HX30 mid		8-16-2014 09:10 AM
65	97	X1146.D	HEXANE		8-16-2014 09:56 AM
66	98	X1147.D	CC814PB-P(3)	Procedural Blank 5-128 14	8-16-2014 10:42 AM
67	99	X1148.D	CC815LCS-P(3)	Laboratory Control Sample	8-16-2014 11:28 AM
68	100	X1149.D	HX30 mid		8-16-2014 12:14 PM
69	1	X1150.D	HEXANE		8-17-2014 01:27 PM
70	2	X1151.D	HX29 mid		8-17-2014 02:13 PM
71	3	X1152.D	M4556-P-D(9)	S-14L-OH2-00-05 5-128 14-	8-17-2014 02:58 PM
72	4	X1153.D	M4557-P-D(9)	S-14L-OG5-00-05 5-128 14-	8-17-2014 03:44 PM
73	5	X1154.D	M4558-P-D(7)	S-14L-OI5-00-05 5-128 14-	8-17-2014 04:30 PM
74	6	X1155.D	M4559-P-D(9)	S-14L-OH10-00-05 5-128 14	8-17-2014 05:16 PM
75	7	X1156.D	M4560-P-D(9)	S-14L-OJ08-00-05 5-128 14	8-17-2014 06:02 PM
76	--	X1157.D	No data in directory.		***
77	9	X1158.D	M4563-P-D(9)	S-14L-OL9-DUP-00-05 5-128	8-18-2014 09:41 AM
78	10	X1159.D	HX30		8-18-2014 10:27 AM
79	11	X1160A.D	M4564-P-D(7)	S-14L-OP10-00-05 5-128 14	8-18-2014 11:12 AM
80	12	X1161.D	M4565-P-D(11)	S-14L-ON11-00-05 5-128 14	8-18-2014 01:36 PM
81	13	X1162.D	M4566-P-D(7)	S-14L-OJ13-00-05 5-128 14	8-18-2014 02:22 PM
82	14	X1163.D	M4567-P-D(9)	S-14L-OO15-00-05 5-128 14	8-18-2014 03:08 PM
83	15	X1164.D	M4568-P-D(9)	S-14L-OL17-00-05 5-128 14	8-18-2014 03:54 PM
84	16	X1165.D	M4569-P-D(9)	S-14L-OP18-00-05 5-128 14	8-18-2014 04:40 PM
85	17	X1166.D	M4570-P-D(9)	S-14L-ON20-00-05 5-128 14	8-18-2014 05:25 PM
86	18	X1167.D	HX30 mid		8-18-2014 06:11 PM
87	1	X1168.D	M4564-P-D(7)	S-14L-OP10-00-05 5-128 14	8-19-2014 10:31 AM
88	2	X1169.D	M4565-P-D(11)	S-14L-ON11-00-05 5-128 14	8-19-2014 11:17 AM
89	3	X1170.D	M4561-P-D(9)	S-14L-OL6-00-05 5-128 14-	8-19-2014 12:03 PM
90	4	X1171.D	HX29 mid		8-19-2014 12:48 PM

(1) Instrument issues rendered samples unusable. Samples re-run below. See misc doc.
RR 8/19/14

(2) Sample not reported.
RR 8/19/14

Calibration Response Factor Report

Batch: 14-0314 **Project Test Code:** Master 128(S) **RF's validate EMW 8/20/2014**
Data Set: DP-14-0430 **SOP_NO:** 5-128-13
Project Number: 100043429 **Project Name:** USACE/NAE New Bedford Harbor Task Order 10

File: MX0038.M **Responses Via** Initial Calibration **Last Updated** 8/17/2014 8:46:00 AM **Title:** NBH
Instrument: Inst. X **Operator:** LMG **Path:** I:\X\DATA\MX0038.M

No:	Analyte:	Type:	Column:	MGO:	1 HX25 X1084.D	2 HX27 X1086.D	3 HX28 X1087.D	4 HX29 X1088A.D	5 HX30 X1089.D	6 HX32 X1091.D	7 -	8 -	Levels:	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
1	Cl5(96)	I	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	Cl2(8)		1	Y	0.73031	0.63396	0.62631	0.63680	0.55650	0.44851	-	-	6	Q	-0.04645	0.59488	0.00793	0.99974	
3	Cl3(18)		1	Y	0.91381	0.81364	0.77164	0.74819	0.67470	0.53874	-	-	6	Q	-0.05567	0.71396	0.01141	0.99989	
4	Cl3(34)	s	1	Y	1.35303	1.02946	1.02792	0.95453	0.86443	0.76259	-	-	6	Q	-0.03973	0.88317	0.02064	0.99988	
5	Cl3(28)		1	Y	1.52338	1.45471	1.45336	1.38494	1.30163	1.23022	-	-	6	Q	-0.02865	1.31672	0.01742	0.99994	
6	Cl4(52)		1	Y	1.65303	1.23856	1.17962	1.06359	0.94672	0.85697	-	-	6	Q	-0.03170	0.94794	0.03329	0.99981	
7	Cl4(44)		1	Y	1.74343	1.58712	1.54876	1.41310	1.29171	1.25694	-	-	6	Q	-0.01037	1.27942	0.03411	0.99985	
8	Cl4(66)		1	Y	2.00405	1.85697	1.84661	1.63176	1.58786	1.56471	-	-	6	Q	-0.00149	1.55991	0.03038	0.99993	
9	Cl5(101)		1	Y	1.96725	1.77178	1.69029	1.36365	1.36264	1.32914	-	-	6	Q	0.00149	1.31184	0.03998	0.99982	
10	Cl6(161)	I	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11	Cl6(152)	s	1	Y	0.72787	0.60445	0.58324	0.48631	0.52710	0.45404	-	-	6	Q	-0.02441	0.53115	0.00446	0.99969	
12	Cl5(118)		1	Y	0.83762	0.76865	0.75767	0.68379	0.70165	0.62140	-	-	6	Q	-0.02942	0.71477	0.00387	0.99993	
13	Cl6(153)		1	Y	0.88843	0.70948	0.68943	0.76622	0.73565	0.59395	-	-	6	Q	-0.06075	0.79094	-0.00576	0.99990	
14	Cl5(105)		1	Y	0.95632	0.91665	0.96524	0.88648	0.95364	0.89838	-	-	6	Q	-0.01936	0.96220	-0.00506	0.99989	
15	Cl6(138)		1	Y	1.04171	0.96785	0.95209	0.89717	0.88634	0.80568	-	-	6	Q	-0.03084	0.90284	0.00619	0.99999	
16	Cl7(187)		1	Y	0.98882	0.89877	0.87020	0.81849	0.79289	0.71087	-	-	6	Q	-0.03146	0.80920	0.00873	0.99999	
17	Cl6(128)		1	Y	1.10885	1.07740	1.05850	1.02430	1.00426	0.92180	-	-	6	Q	-0.03278	1.02558	0.00491	1.00000	
18	Cl7(180)		1	Y	1.03676	1.01676	1.01377	0.96799	0.95865	0.87106	-	-	6	Q	-0.03469	0.98143	0.00352	0.99999	
19	Cl7(170)		1	Y	1.11609	1.11161	1.10848	1.06162	1.04764	0.95620	-	-	6	Q	-0.03646	1.07210	0.00399	0.99999	
20	Cl8(195)		1	Y	1.05788	1.04204	1.03917	1.01448	0.95904	0.89835	-	-	6	Q	-0.02546	0.97735	0.00868	0.99996	
21	Cl9(206)		1	Y	1.08372	0.99998	0.99720	1.00778	0.92853	0.85552	-	-	6	Q	-0.03208	0.95559	0.00860	0.99992	
22	Cl10(209)		1	Y	0.89162	0.86661	0.84453	0.85041	0.77161	0.69836	-	-	6	Q	-0.03184	0.79763	0.00937	0.99988	
23	Signal		2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24	Cl5(96)	I	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	Cl2(8)		2	Y	0.94712	0.80130	0.72662	0.68262	0.64669	0.63840	-	-	6	Q	0.00013	0.63329	0.01486	0.99996	
26	Cl3(18)		2	Y	1.25539	0.90487	0.85094	0.75981	0.71502	0.72894	-	-	6	Q	0.01173	0.68395	0.02319	0.99994	
27	Cl3(34)	s	2	Y	1.93162	1.21710	1.14808	1.00980	0.96562	1.05762	-	-	6	Q	0.04890	0.88994	0.03556	0.99995	
28	Cl3(28)		2	Y	1.86110	1.66683	1.57300	1.44124	1.49514	1.81253	-	-	6	Q	0.14162	1.34994	0.02440	0.99998	
29	Cl4(52)		2	Y	1.47729	1.77093	1.38787	1.14975	1.52187	1.86353	-	-	6	Q	0.16782	1.32622	0.00071	0.99947	
30	Cl4(44)		2	Y	1.26388	2.40206	1.16596	1.10522	1.06167	1.29452	-	-	6	Q	0.12107	0.88345	0.07062	0.99906	

Calibration Response Factor Report

Batch: 14-0314 Project Test Code: Master 128(S)
 Data Set: DP-14-0430 SOP_NO: 5-128-13
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MX0038.M Responses Via Initial Calibration Last Updated 8/17/2014 8:46:00 AM Title: NBH
 Instrument: Inst. X Operator: LMG Path: I:\X\DATA\MX0038.M

No:	Analyte:	Type:	Column:	MGO:	1 HX25 X1084.D	2 HX27 X1086.D	3 HX28 X1087.D	4 HX29 X1088A.D	5 HX30 X1089.D	6 HX32 X1091.D	7	8	Levels:	Curve Fit:	(A)	(B)	(C)	Stat (r ² /RSD):	Qual:
31	Cl4(66)		2	Y	2.00215	1.73197	1.68709	1.60922	1.54414	1.72443	-	-	6	Q	0.07923	1.46118	0.02902	0.99996	
32	Cl5(101)		2	Y	2.64118	2.45050	2.92600	2.98347	3.05836	3.56938	-	-	6	Q	0.20175	2.92894	-0.02081	0.99998	
33	Cl6(161)	I	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	Cl6(152)	s	2	Y	0.63797	0.60342	0.60465	0.59826	0.56498	0.78353	-	-	6	Q	0.09038	0.48888	0.01333	0.99989	
35	Cl5(118)		2	Y	0.72539	0.62629	0.59035	0.60460	0.58170	0.81013	-	-	6	Q	0.09532	0.49986	0.01262	0.99994	
36	Cl6(153)		2	Y	0.67768	0.64099	0.61161	0.57844	0.60187	0.79489	-	-	6	Q	0.08292	0.52570	0.00884	0.99999	
37	Cl5(105)		2	Y	0.88013	0.83164	0.82257	0.81757	0.87187	1.28671	-	-	6	Q	0.17449	0.72404	0.00831	1.00000	
38	Cl6(138)		2	Y	0.43562	0.47888	0.47437	0.47999	0.53129	0.81812	-	-	6	Q	0.11997	0.43208	0.00188	1.00000	
39	Cl7(187)		2	Y	0.75662	0.69117	0.66148	0.63544	0.67567	0.92368	-	-	6	Q	0.10610	0.58031	0.00796	0.99999	
40	Cl6(128)		2	Y	1.01203	0.94979	0.92411	0.92285	0.96967	1.39522	-	-	6	Q	0.17895	0.81702	0.01034	1.00000	
41	Cl7(180)		2	Y	0.85628	0.84483	0.82119	0.82375	0.86845	1.24438	-	-	6	Q	0.15777	0.73504	0.00783	1.00000	
42	Cl7(170)		2	Y	0.92311	0.92107	0.92087	0.93463	0.98080	1.43390	-	-	6	Q	0.18878	0.82488	0.00783	0.99999	
43	Cl8(195)		2	Y	0.84486	0.86185	0.86063	0.88951	0.90481	1.33438	-	-	6	Q	0.17761	0.76069	0.00961	0.99998	
44	Cl9(206)		2	Y	0.71290	0.77741	0.79113	0.82308	0.81872	1.22562	-	-	6	Q	0.16725	0.68613	0.00996	0.99995	
45	Cl10(209)		2	Y	0.56587	0.62725	0.62946	0.64817	0.62820	0.89018	-	-	6	Q	0.10715	0.54296	0.00917	0.99993	

Calibration Response Factor Report

Batch: 14-0314 **Project Test Code:** Master 128(S)
Data Set: DP-14-0430 **SOP_NO:** 5-128-13
Project Number: 100043429 **Project Name:** USACE/NAE New Bedford Harbor Task Order 10

File: MX0038.M **Responses Via** Initial Calibration **Last Updated** 8/17/2014 8:46:00 AM **Title:** NBH
Instrument: Inst. X **Operator:** LMG **Path:** I:\X\DATA\MX0038.M

No:	Analyte:	Type:	Column:	MQO:	1	2	3	4	5	6	7	8	Curve Fit:	Levels:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
					HX25	HX27	HX28	HX29	HX30	HX32	-	-							
					X1084.D	X1086.D	X1087.D	X1088.A.D	X1089.D	X1091.D	-	-							

MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.

Mean RSD: -
Count RSD: -

Calibration Curve Definitions:

Curve Fit:	Name:	Description:	Evaluate:
L	Linear	y = Bx + C	r-squared
RF	Average RF	y = Bx	RSD
L0	Linear (0,0)	y = Bx + 0	r-squared
Q	Quadratic	y = Ax^2 + Bx + C	r-squared
Q0	Quadratic (0,0)	y = Ax^2 + Bx + 0	r-squared

Calibration Curve Acceptance Criteria:

Curve Fit:	Limit Mean(%):	Mean Qual:	Limit Ind.:	Ind. Qual:	Min Points:	Points Qual:	Comments:
Linear	NA	NA	0.995	N	5	N	y = Bx + C
Average RF	15	N	25	N	5	N	y = Bx
Linear (0,0)	NA	NA	0.995	N	5	N	y = Bx + 0
Quadratic	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + C
Quadratic (0,0)	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + 0

Calibration Response Factor Report

Batch:	<u>14-0314</u>	Project Test Code:	<u>Master 128(S)</u>
Data Set:	<u>DP-14-0430</u>	SOP_NO:	<u>5-128-13</u>
Project Number:	<u>100043429</u>	Project Name:	<u>USACE/NAE New Bedford Harbor Task Order 10</u>

Method: I:\X\DATA\MX0038.M
Title: NBH
Last Update: Sun Aug 17 8:46 2014
Response via: Initial Calibration
Instrument: Inst. X
Operator: LMG

No:	ID:	Path\File:	Update Time:	Quant Time:	Acquisition Time:
1	HX25	I:\X\DATA\SX0038\X1084.D	Aug 17 8:43 2014	Aug 17 8:11 2014	13 Aug 2014 6:05 PM
2	HX27	I:\X\DATA\SX0038\X1086.D	Aug 17 8:43 2014	Aug 17 8:11 2014	13 Aug 2014 7:36 PM
3	HX28	I:\X\DATA\SX0038\X1087.D	Aug 17 8:43 2014	Aug 17 8:11 2014	13 Aug 2014 8:22 PM
4	HX29	I:\X\DATA\SX0038\X1088A.D	Aug 17 8:46 2014	Aug 17 8:11 2014	14 Aug 2014 8:41 AM
5	HX30	I:\X\DATA\SX0038\X1089.D	Aug 17 8:43 2014	Aug 17 8:11 2014	14 Aug 2014 9:27 AM
6	HX32	I:\X\DATA\SX0038\X1091.D	Aug 17 8:43 2014	Aug 17 8:11 2014	14 Aug 2014 10:59 AM

ICC Summary Report

Batch: 14-0314 **Data Set:** DP-14-0430
Project Test Code: Master 128(S) **SOP_NO:** 5-128-13
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project No:** 100043429
Batch: 14-0314 **Matrix:** SED
Calibration File: MX0038.M **Last Updated:** 8/17/2014 8:46:00 AM

X1092.D

HY06

Acq'd: 08/14/2014 11:44

No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	(ug/mL)	% Diff
1	Cl5(96)	I	1	-			
2	Cl2(8)		1	Y	0.04000	0.03927	1.8
3	Cl3(18)		1	Y	0.04000	0.03942	1.5
4	Cl3(34)	s	1	Y	0.04000	0.04089	2.3
5	Cl3(28)		1	Y	0.04000	0.04210	5.3
6	Cl4(52)		1	Y	0.04000	0.04161	4.0
7	Cl4(44)		1	Y	0.04000	0.04230	5.8
8	Cl4(66)		1	Y	0.04000	0.04251	6.3
9	Cl5(101)		1	Y	0.04000	0.04309	7.8
10	Cl6(161)	I	1	-			
11	Cl6(152)	s	1	Y	0.04020	0.04161	3.6
12	Cl5(118)		1	Y	0.04000	0.04079	2.0
13	Cl6(153)		1	Y	0.04000	0.03670	8.3
14	Cl5(105)		1	Y	0.04000	0.04132	3.3
15	Cl6(138)		1	Y	0.04000	0.04027	0.8
16	Cl7(187)		1	Y	0.04000	0.03996	0.0
17	Cl6(128)		1	Y	0.04000	0.03976	0.5
18	Cl7(180)		1	Y	0.04000	0.03995	0.0
19	Cl7(170)		1	Y	0.04000	0.04009	0.3
20	Cl8(195)		1	Y	0.04000	0.04017	0.5
21	Cl9(206)		1	Y	0.04000	0.03921	2.0
22	Cl10(209)		1	Y	0.04000	0.03876	3.0
24	Cl5(96)	I	2	-			
25	Cl2(8)		2	Y	0.04000	0.03939	1.5
26	Cl3(18)		2	Y	0.04000	0.04042	1.0
27	Cl3(34)	s	2	Y	0.04000	0.03984	0.5
28	Cl3(28)		2	Y	0.04000	0.04004	0.0
29	Cl4(52)		2	Y	0.04000	0.03705	7.3
30	Cl4(44)		2	Y	0.04000	0.03862	3.5
31	Cl4(66)		2	Y	0.04000	0.03827	4.3
32	Cl5(101)		2	Y	0.04000	0.03665	8.3
33	Cl6(161)	I	2	-			
34	Cl6(152)	s	2	Y	0.04020	0.03753	6.6
35	Cl5(118)		2	Y	0.04000	0.03981	0.5
36	Cl6(153)		2	Y	0.04000	0.04058	1.5
37	Cl5(105)		2	Y	0.04000	0.03977	0.5
38	Cl6(138)		2	Y	0.04000	0.03813	4.8
39	Cl7(187)		2	Y	0.04000	0.04024	0.5
40	Cl6(128)		2	Y	0.04000	0.03985	0.3
41	Cl7(180)		2	Y	0.04000	0.03949	1.3
42	Cl7(170)		2	Y	0.04000	0.03968	0.8
43	Cl8(195)		2	Y	0.04000	0.03962	1.0
44	Cl9(206)		2	Y	0.04000	0.03977	0.5

ICC Summary Report

Batch:	<u>14-0314</u>	Data Set:	<u>DP-14-0430</u>
Project Test Code:	<u>Master 128(S)</u>	SOP_NO:	<u>5-128-13</u>
Project Name:	<u>USACE/NAE New Bedford Harbor Task Order 10</u>	Project Number:	<u>100043429</u>
Project Name:	<u>USACE/NAE New Bedford Harbor Task Order 10</u>	Project No:	<u>100043429</u>
Batch:	<u>14-0314</u>	Matrix:	<u>SED</u>
Calibration File:	<u>MX0038.M</u>	Last Updated:	<u>8/17/2014 8:46:00 AM</u>

X1092.D

HY06

Acq'd: 08/14/2014 11:44

No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	(ug/mL)	% Diff
45	Cl10(209)	2	Y	0.04000	0.03968	0.8	

MQO: Only compounds flagged with "Y" will be counted towards
MQO exceedences.

Mean PD: 2.62
Follow ICAL: PASS

ICC Acceptance Criteria:

Mean PD(%):	<u>20</u>	Qual:	<u>N</u>
Individual PD(%):	<u>20</u>	Qual:	<u>N</u>

CCV Summary Report

Batch: 14-0314Data Set: DP-14-0430Project Test Code: Master 128(S)SOP_NO: 5-128-13Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SEDCalibration File: MX0038.MLast Updated: 8/17/2014 8:46:00 AM

No:	Analyte:	Type:	Col:	MQO:	CAL	X1101.D		X1119.D		X1137.D	
						HX29 mid		HX29 mid		HX29 mid	
						08/14/2014 21:34		08/15/2014 11:25		08/16/2014 03:04	
						MID	% Diff	MID	% Diff	MID	% Diff
1	Cl5(96)	I	1	-							
2	Cl2(8)		1	Y	0.04008	0.03649	-9.0	0.03626	-9.5	0.03841	-4.2
3	Cl3(18)		1	Y	0.04016	0.03912	-2.6	0.03708	-7.7	0.03885	-3.3
4	Cl3(34)	s	1	Y	0.04000	0.04013	0.3	0.04100	2.5	0.04241	6.0
5	Cl3(28)		1	Y	0.04016	0.04644	15.6	0.04444	10.7	0.04605	14.7
6	Cl4(52)		1	Y	0.04004	0.04712	17.7	0.04300	7.4	0.04318	7.8
7	Cl4(44)		1	Y	0.04016	0.04400	9.6	0.04574	13.9	0.04564	13.6
8	Cl4(66)		1	Y	0.04008	0.04660	16.3	0.04618	15.2	0.04726	17.9
9	Cl5(101)		1	Y	0.04008	0.04669	16.5	0.04660	16.3	0.04645	15.9
10	Cl6(161)	I	1	-							
11	Cl6(152)	s	1	Y	0.04016	0.04035	0.5	0.04114	2.4	0.04090	1.8
12	Cl5(118)		1	Y	0.04016	0.04268	6.3	0.04098	2.0	0.04083	1.7
13	Cl6(153)		1	Y	0.04016	0.03810	-5.1	0.04104	2.2	0.03826	-4.7
14	Cl5(105)		1	Y	0.04012	0.04196	4.6	0.04182	4.2	0.04082	1.7
15	Cl6(138)		1	Y	0.04016	0.04099	2.1	0.03997	-0.5	0.03905	-2.8
16	Cl7(187)		1	Y	0.04016	0.03996	-0.5	0.03888	-3.2	0.03828	-4.7
17	Cl6(128)		1	Y	0.04016	0.04032	0.4	0.03886	-3.2	0.03526	-12.2
18	Cl7(180)		1	Y	0.04016	0.03893	-3.1	0.03620	-9.9	0.03528	-12.2
19	Cl7(170)		1	Y	0.04016	0.03865	-3.8	0.03582	-10.8	0.03488	-13.1
20	Cl8(195)		1	Y	0.04016	0.03702	-7.8	0.03382	-15.8	0.03285	-18.2
21	Cl9(206)		1	Y	0.04008	0.03378	-15.7	0.02986	-25.5	N	N
22	Cl10(209)		1	Y	0.04016	0.03308	-17.6	0.02862	-28.7	N	N
24	Cl5(96)	I	2	-							
25	Cl2(8)		2	Y	0.04008	0.04299	7.3	0.04282	6.8	0.03851	-3.9
26	Cl3(18)		2	Y	0.04016	0.04507	12.2	0.04240	5.6	0.03897	-3.0
27	Cl3(34)	s	2	Y	0.04000	0.04155	3.9	0.04157	3.9	0.03908	-2.3
28	Cl3(28)		2	Y	0.04016	0.04263	6.2	0.04197	4.5	0.04176	4.0
29	Cl4(52)		2	Y	0.04004	0.04084	2.0	0.03746	-6.4	0.03915	-2.2
30	Cl4(44)		2	Y	0.04016	0.04303	7.1	0.04351	8.3	0.03946	-1.7
31	Cl4(66)		2	Y	0.04008	0.04008	0.0	0.03976	-0.8	0.04035	0.7
32	Cl5(101)		2	Y	0.04008	0.04017	0.2	0.03535	-11.8	0.03745	-6.6
33	Cl6(161)	I	2	-							
34	Cl6(152)	s	2	Y	0.04016	0.04269	6.3	0.03695	-8.0	0.03908	-2.7
35	Cl5(118)		2	Y	0.04016	0.04142	3.1	0.03937	-2.0	0.03785	-5.8
36	Cl6(153)		2	Y	0.04016	0.04215	5.0	0.03960	-1.4	0.03835	-4.5
37	Cl5(105)		2	Y	0.04012	0.04052	1.0	0.03915	-2.4	0.03846	-4.1
38	Cl6(138)		2	Y	0.04016	0.04076	1.5	0.03785	-5.8	0.03662	-8.8
39	Cl7(187)		2	Y	0.04016	0.04094	1.9	0.03938	-1.9	0.03872	-3.6
40	Cl6(128)		2	Y	0.04016	0.04048	0.8	0.03944	-1.8	0.03856	-4.0
41	Cl7(180)		2	Y	0.04016	0.04119	2.6	0.04066	1.2	0.03944	-1.8
42	Cl7(170)		2	Y	0.04016	0.04118	2.5	0.04136	3.0	0.03952	-1.6
43	Cl8(195)		2	Y	0.04016	0.04164	3.7	0.04170	3.8	0.03920	-2.4
44	Cl9(206)		2	Y	0.04008	0.04367	9.0	0.04335	8.2	0.03970	-0.9

CCV Summary Report

Batch: 14-0314 **Data Set:** DP-14-0430
Project Test Code: Master 128(S) **SOP_NO:** 5-128-13
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SED

Calibration File: MX0038.M **Last Updated:** 8/17/2014 8:46:00 AM

					X1101.D		X1119.D		X1137.D			
					HX29 mid		HX29 mid		HX29 mid			
					08/14/2014 21:34		08/15/2014 11:25		08/16/2014 03:04			
No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff	MID	% Diff	
45	Cl10(209)		2	Y	0.04016	0.04358	8.5	0.04287	6.7	0.03859	-3.9	
MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.					Mean PD:		6.0		7.2		7.1	
					Time Check:		< 24		< 24		< 24	

CCV Acceptance Criteria:

Frequency Hours:	<u>24</u>	Qual:	<u>N</u>
Mean PD(%):	<u>15</u>	Qual:	<u>N</u>
Individual PD(%):	<u>20</u>	Qual:	<u>N</u>

CCV Summary Report

Batch: 14-0314 **Data Set:** DP-14-0430
Project Test Code: Master 128(S) **SOP_NO:** 5-128-13
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SED

Calibration File: MX0038.M **Last Updated:** 8/17/2014 8:46:00 AM

					X1151.D		X1171.D	
					HX29 mid		HX29 mid	
					08/17/2014 14:13		08/19/2014 12:48	
No: Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff
1 Cl5(96)	I	1	-					
2 Cl2(8)		1	Y	0.04008	0.03863	-3.6	0.03960	-1.2
3 Cl3(18)		1	Y	0.04016	0.03826	-4.7	0.04022	0.1
4 Cl3(34)	s	1	Y	0.04000	0.04058	1.4	0.04138	3.4
5 Cl3(28)		1	Y	0.04016	0.04295	6.9	0.04290	6.8
6 Cl4(52)		1	Y	0.04004	0.04058	1.3	0.04245	6.0
7 Cl4(44)		1	Y	0.04016	0.04477	11.5	0.04390	9.3
8 Cl4(66)		1	Y	0.04008	0.04377	9.2	0.04357	8.7
9 Cl5(101)		1	Y	0.04008	0.04378	9.2	0.04534	13.1
10 Cl6(161)	I	1	-					
11 Cl6(152)	s	1	Y	0.04016	0.04024	0.2	0.04185	4.2
12 Cl5(118)		1	Y	0.04016	0.04160	3.6	0.04260	6.1
13 Cl6(153)		1	Y	0.04016	0.03998	-0.4	0.03975	-1.0
14 Cl5(105)		1	Y	0.04012	0.04105	2.3	0.04096	2.1
15 Cl6(138)		1	Y	0.04016	0.03967	-1.2	0.04019	0.1
16 Cl7(187)		1	Y	0.04016	0.03893	-3.1	0.04050	0.8
17 Cl6(128)		1	Y	0.04016	0.03973	-1.1	0.03954	-1.5
18 Cl7(180)		1	Y	0.04016	0.03720	-7.4	0.03783	-5.8
19 Cl7(170)		1	Y	0.04016	0.03690	-8.1	0.03743	-6.8
20 Cl8(195)		1	Y	0.04016	0.03544	-11.8	0.03593	-10.5
21 Cl9(206)		1	Y	0.04008	0.03343	-16.6	0.03342	-16.6
22 Cl10(209)		1	Y	0.04016	0.03223	-19.7	0.03232	-19.5
24 Cl5(96)	I	2	-					
25 Cl2(8)		2	Y	0.04008	0.03880	-3.2	0.03879	-3.2
26 Cl3(18)		2	Y	0.04016	0.04009	-0.2	0.04025	0.2
27 Cl3(34)	s	2	Y	0.04000	0.03989	-0.3	0.03909	-2.3
28 Cl3(28)		2	Y	0.04016	0.04187	4.3	0.04105	2.2
29 Cl4(52)		2	Y	0.04004	0.03616	-9.7	0.04104	2.5
30 Cl4(44)		2	Y	0.04016	0.04061	1.1	0.03703	-7.8
31 Cl4(66)		2	Y	0.04008	0.04042	0.8	0.03899	-2.7
32 Cl5(101)		2	Y	0.04008	0.03821	-4.7	0.03672	-8.4
33 Cl6(161)	I	2	-					
34 Cl6(152)	s	2	Y	0.04016	0.04114	2.4	0.03898	-2.9
35 Cl5(118)		2	Y	0.04016	0.03851	-4.1	0.03709	-7.6
36 Cl6(153)		2	Y	0.04016	0.03920	-2.4	0.03843	-4.3
37 Cl5(105)		2	Y	0.04012	0.03925	-2.2	0.03937	-1.9
38 Cl6(138)		2	Y	0.04016	0.03821	-4.9	0.03724	-7.3
39 Cl7(187)		2	Y	0.04016	0.03939	-1.9	0.03874	-3.5
40 Cl6(128)		2	Y	0.04016	0.03824	-4.8	0.03808	-5.2
41 Cl7(180)		2	Y	0.04016	0.03840	-4.4	0.03827	-4.7
42 Cl7(170)		2	Y	0.04016	0.03865	-3.8	0.03867	-3.7
43 Cl8(195)		2	Y	0.04016	0.03853	-4.1	0.03901	-2.9
44 Cl9(206)		2	Y	0.04008	0.03863	-3.6	0.03966	-1.0

CCV Summary Report

Batch:	<u>14-0314</u>	Data Set:	<u>DP-14-0430</u>
Project Test Code:	<u>Master 128(S)</u>	SOP_NO:	<u>5-128-13</u>
Project Name:	<u>USACE/NAE New Bedford Harbor Task Order 10</u>	Project Number:	<u>100043429</u>

Matrix:	<u>SED</u>		
Calibration File:	<u>MX0038.M</u>	Last Updated:	<u>8/17/2014 8:46:00 AM</u>

				X1151.D			X1171.D	
				HX29 mid			HX29 mid	
				08/17/2014 14:13			08/19/2014 12:48	
No: Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff
45 Cl10(209)		2	Y	0.04016	0.03821	-4.9	0.03944	-1.8
MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.				Mean PD:		4.8	5.0	
				Time Check:		< 24	< 24	

CCV Acceptance Criteria:

Frequency Hours:	<u>24</u>	Qual:	<u>N</u>
Mean PD(%):	<u>15</u>	Qual:	<u>N</u>
Individual PD(%):	<u>20</u>	Qual:	<u>N</u>

CCV Summary Report

Batch: 14-0314Data Set: DP-14-0430Project Test Code: Master 128(S)SOP_NO: 5-128-13Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SEDCalibration File: MX0038.MLast Updated: 8/17/2014 8:46:00 AM

					X1110.D		X1128.D		X1145.D					
					HX30 mid		HX30 mid		HX30 mid					
					08/15/2014 04:31		08/15/2014 20:11		08/16/2014 09:11					
No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff	MID	% Diff			
1	Cl5(96)	I	1	-										
2	Cl2(8)		1	Y	0.08016	0.06815	-15.0	0.07114	-11.3	0.07386	-7.9			
3	Cl3(18)		1	Y	0.08032	0.06892	-14.2	0.07173	-10.7	0.07315	-8.9			
4	Cl3(34)	s	1	Y	0.08000	0.07818	-2.3	0.08085	1.1	0.08080	1.0			
5	Cl3(28)		1	Y	0.08032	0.08312	3.5	0.08692	8.2	0.08774	9.2			
6	Cl4(52)		1	Y	0.08008	0.07964	-0.5	0.08148	1.7	0.07959	-0.6			
7	Cl4(44)		1	Y	0.08032	0.08258	2.8	0.08660	7.8	0.08635	7.5			
8	Cl4(66)		1	Y	0.08016	0.08616	7.5	0.08716	8.7	0.09012	12.4			
9	Cl5(101)		1	Y	0.08016	0.08602	7.3	0.08737	9.0	0.08614	7.5			
10	Cl6(161)	I	1	-										
11	Cl6(152)	s	1	Y	0.08032	0.08077	0.6	0.07998	-0.4	0.07750	-3.5			
12	Cl5(118)		1	Y	0.08032	0.07972	-0.7	0.08062	0.4	0.08172	1.7			
13	Cl6(153)		1	Y	0.08032	0.07898	-1.7	0.08617	7.3	0.07141	-11.1			
14	Cl5(105)		1	Y	0.08024	0.08047	0.3	0.08341	4.0	0.08468	5.5			
15	Cl6(138)		1	Y	0.08032	0.07803	-2.9	0.07825	-2.6	0.07834	-2.5			
16	Cl7(187)		1	Y	0.08032	0.07598	-5.4	0.07562	-5.9	0.07586	-5.6			
17	Cl6(128)		1	Y	0.08032	0.07671	-4.5	0.07293	-9.2	0.07347	-8.5			
18	Cl7(180)		1	Y	0.08032	0.07202	-10.3	0.07310	-9.0	0.07359	-8.4			
19	Cl7(170)		1	Y	0.08032	0.07045	-12.3	0.07341	-8.6	0.07334	-8.7			
20	Cl8(195)		1	Y	0.08032	0.06685	-16.8	0.07042	-12.3	0.07044	-12.3			
21	Cl9(206)		1	Y	0.08016	0.05908	-26.3	N	0.06443	-19.6	0.06452	-19.5		
22	Cl10(209)		1	Y	0.08032	0.05693	-29.1	N	0.06105	-24.0	N	0.06073	-24.4	N
24	Cl5(96)	I	2	-										
25	Cl2(8)		2	Y	0.08016	0.08195	2.2	0.08170	1.9	0.07662	-4.4			
26	Cl3(18)		2	Y	0.08032	0.08161	1.6	0.08309	3.4	0.07891	-1.8			
27	Cl3(34)	s	2	Y	0.08000	0.08277	3.5	0.08314	3.9	0.08268	3.4			
28	Cl3(28)		2	Y	0.08032	0.08439	5.1	0.08627	7.4	0.08871	10.4			
29	Cl4(52)		2	Y	0.08008	0.08721	8.9	0.08475	5.8	0.07617	-4.9			
30	Cl4(44)		2	Y	0.08032	0.07762	-3.4	0.08782	9.3	0.08637	7.5			
31	Cl4(66)		2	Y	0.08016	0.08015	0.0	0.08144	1.6	0.08511	6.2			
32	Cl5(101)		2	Y	0.08016	0.07246	-9.6	0.07479	-6.7	0.07929	-1.1			
33	Cl6(161)	I	2	-										
34	Cl6(152)	s	2	Y	0.08032	0.07305	-9.1	0.07463	-7.1	0.07421	-7.6			
35	Cl5(118)		2	Y	0.08032	0.08101	0.9	0.08058	0.3	0.07878	-1.9			
36	Cl6(153)		2	Y	0.08032	0.08053	0.3	0.08035	0.0	0.07811	-2.8			
37	Cl5(105)		2	Y	0.08024	0.08171	1.8	0.08055	0.4	0.07868	-1.9			
38	Cl6(138)		2	Y	0.08032	0.07784	-3.1	0.07390	-8.0	0.06618	-17.6			
39	Cl7(187)		2	Y	0.08032	0.08166	1.7	0.08135	1.3	0.07797	-2.9			
40	Cl6(128)		2	Y	0.08032	0.08278	3.1	0.08189	2.0	0.07784	-3.1			
41	Cl7(180)		2	Y	0.08032	0.08516	6.0	0.08329	3.7	0.07707	-4.0			
42	Cl7(170)		2	Y	0.08032	0.08737	8.8	0.08435	5.0	0.07693	-4.2			
43	Cl8(195)		2	Y	0.08032	0.08825	9.9	0.08429	4.9	0.07534	-6.2			
44	Cl9(206)		2	Y	0.08016	0.09262	15.5	0.08485	5.9	0.07350	-8.3			

CCV Summary Report

Batch: 14-0314 **Data Set:** DP-14-0430
Project Test Code: Master 128(S) **SOP_NO:** 5-128-13
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SED

Calibration File: MX0038.M **Last Updated:** 8/17/2014 8:46:00 AM

						X1110.D		X1128.D		X1145.D	
						HX30 mid		HX30 mid		HX30 mid	
						08/15/2014 04:31		08/15/2014 20:11		08/16/2014 09:11	
No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff	MID	% Diff
45	Cl10(209)		2	Y	0.08032	0.09180	14.3	0.08326	3.7	0.07080	-11.9
MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.						Mean PD:		6.8		6.1	
						Time Check:		< 24		< 24	

CCV Acceptance Criteria:

Frequency Hours:	<u>24</u>	Qual:	<u>N</u>
Mean PD(%):	<u>15</u>	Qual:	<u>N</u>
Individual PD(%):	<u>20</u>	Qual:	<u>N</u>

CCV Summary Report

Batch: 14-0314Data Set: DP-14-0430Project Test Code: Master 128(S)SOP_NO: 5-128-13Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SEDCalibration File: MX0038.MLast Updated: 8/17/2014 8:46:00 AM

No:	Analyte:	Type:	Col:	MQO:	CAL	X1149.D		X1167.D	
						HX30 mid		HX30 mid	
						08/16/2014 12:14		08/18/2014 18:12	
						MID	% Diff	MID	% Diff
1	Cl5(96)	I	1	-					
2	Cl2(8)		1	Y	0.08016	0.07461	-6.9	0.07366	-8.1
3	Cl3(18)		1	Y	0.08032	0.07472	-7.0	0.07499	-6.6
4	Cl3(34)	s	1	Y	0.08000	0.08243	3.0	0.07878	-1.5
5	Cl3(28)		1	Y	0.08032	0.08803	9.6	0.08157	1.6
6	Cl4(52)		1	Y	0.08008	0.08156	1.8	0.08045	0.5
7	Cl4(44)		1	Y	0.08032	0.08806	9.6	0.08152	1.5
8	Cl4(66)		1	Y	0.08016	0.08900	11.0	0.08168	1.9
9	Cl5(101)		1	Y	0.08016	0.08693	8.4	0.08380	4.5
10	Cl6(161)	I	1	-					
11	Cl6(152)	s	1	Y	0.08032	0.07915	-1.5	0.08339	3.8
12	Cl5(118)		1	Y	0.08032	0.08095	0.8	0.08348	3.9
13	Cl6(153)		1	Y	0.08032	0.07329	-8.8	0.07838	-2.4
14	Cl5(105)		1	Y	0.08024	0.08333	3.9	0.07864	-2.0
15	Cl6(138)		1	Y	0.08032	0.07676	-4.4	0.07776	-3.2
16	Cl7(187)		1	Y	0.08032	0.07461	-7.1	0.07817	-2.7
17	Cl6(128)		1	Y	0.08032	0.07464	-7.1	0.07471	-7.0
18	Cl7(180)		1	Y	0.08032	0.07121	-11.3	0.07210	-10.2
19	Cl7(170)		1	Y	0.08032	0.07096	-11.7	0.07033	-12.4
20	Cl8(195)		1	Y	0.08032	0.06786	-15.5	0.06824	-15.0
21	Cl9(206)		1	Y	0.08016	0.06159	-23.2	N	0.06302 -21.4 N
22	Cl10(209)		1	Y	0.08032	0.05799	-27.8	N	0.06055 -24.6 N
24	Cl5(96)	I	2	-					
25	Cl2(8)		2	Y	0.08016	0.07719	-3.7	0.08068	0.6
26	Cl3(18)		2	Y	0.08032	0.07948	-1.0	0.08362	4.1
27	Cl3(34)	s	2	Y	0.08000	0.08139	1.7	0.08313	3.9
28	Cl3(28)		2	Y	0.08032	0.08519	6.1	0.08414	4.8
29	Cl4(52)		2	Y	0.08008	0.07855	-1.9	0.08158	1.9
30	Cl4(44)		2	Y	0.08032	0.08905	10.9	0.08139	1.3
31	Cl4(66)		2	Y	0.08016	0.08335	4.0	0.07892	-1.5
32	Cl5(101)		2	Y	0.08016	0.07447	-7.1	0.08550	6.7
33	Cl6(161)	I	2	-					
34	Cl6(152)	s	2	Y	0.08032	0.07446	-7.3	0.07423	-7.6
35	Cl5(118)		2	Y	0.08032	0.07911	-1.5	0.07684	-4.3
36	Cl6(153)		2	Y	0.08032	0.07930	-1.3	0.07803	-2.9
37	Cl5(105)		2	Y	0.08024	0.07963	-0.8	0.08098	0.9
38	Cl6(138)		2	Y	0.08032	0.07135	-11.2	0.08244	2.6
39	Cl7(187)		2	Y	0.08032	0.07952	-1.0	0.07937	-1.2
40	Cl6(128)		2	Y	0.08032	0.07953	-1.0	0.07816	-2.7
41	Cl7(180)		2	Y	0.08032	0.07909	-1.5	0.07837	-2.4
42	Cl7(170)		2	Y	0.08032	0.07944	-1.1	0.07994	-0.5
43	Cl8(195)		2	Y	0.08032	0.07858	-2.2	0.08063	0.4
44	Cl9(206)		2	Y	0.08016	0.07772	-3.0	0.08279	3.3

CCV Summary Report

Batch:	<u>14-0314</u>	Data Set:	<u>DP-14-0430</u>
Project Test Code:	<u>Master 128(S)</u>	SOP_NO:	<u>5-128-13</u>
Project Name:	<u>USACE/NAE New Bedford Harbor Task Order 10</u>	Project Number:	<u>100043429</u>

Matrix:	<u>SED</u>	
Calibration File:	<u>MX0038.M</u>	Last Updated: <u>8/17/2014 8:46:00 AM</u>

				X1149.D			X1167.D	
				HX30 mid			HX30 mid	
				08/16/2014 12:14			08/18/2014 18:12	
No: Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff
45 Cl10(209)		2	Y	0.08032	0.07562	-5.9	0.08243	2.6
MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.				Mean PD:		6.4	4.8	
				Time Check:		< 24	> 24	

CCV Acceptance Criteria:

Frequency Hours:	<u>24</u>	Qual:	<u>N</u>
Mean PD(%):	<u>15</u>	Qual:	<u>N</u>
Individual PD(%):	<u>20</u>	Qual:	<u>N</u>

Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:47:36 2014
 Response via : Initial Calibration
 RIS/SIS Mult : 1.000
 Total Cpnds : 45

HX25 =X1084.D HX27 =X1086.D HX28 =X1087.D HX29 =X1088A.D
 HX30 =X1089.D HX32 =X1091.D

Compound		HX25	HX27	HX28	HX29	HX30	HX32
1 I	Cl5(96)	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000
2	Cl2(8)	0.00240	0.01042	0.02004	0.04008	0.08016	0.32064
3	Cl3(18)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
4 s	Cl3(34)	0.00240	0.01040	0.02000	0.04000	0.08000	0.32000
5	Cl3(28)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
6	Cl4(52)	0.00240	0.01041	0.02002	0.04004	0.08008	0.32032
7	Cl4(44)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
8	Cl4(66)	0.00240	0.01042	0.02004	0.04008	0.08016	0.32064
9	Cl5(101)	0.00240	0.01042	0.02004	0.04008	0.08016	0.32064
10 I	Cl6(161)	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000
11 s	Cl6(152)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
12	Cl5(118)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
13	Cl6(153)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
14	Cl5(105)	0.00241	0.01043	0.02006	0.04012	0.08024	0.32096
15	Cl6(138)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
16	Cl7(187)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
17	Cl6(128)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
18	Cl7(180)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
19	Cl7(170)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
20	Cl8(195)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
21	Cl9(206)	0.00240	0.01042	0.02004	0.04008	0.08016	0.32064
22	Cl10(209)	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
23	Signal #2	-----	-----	-----	-----	-----	-----
24 I	Cl5(96) #2	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000
25	Cl2(8) #2	0.00240	0.01042	0.02004	0.04008	0.08016	0.32064
26	Cl3(18) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
27 s	Cl3(34) #2	0.00240	0.01040	0.02000	0.04000	0.08000	0.32000
28	Cl3(28) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
29	Cl4(52) #2	0.00240	0.01041	0.02002	0.04004	0.08008	0.32032
30	Cl4(44) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
31	Cl4(66) #2	0.00240	0.01042	0.02004	0.04008	0.08016	0.32064
32	Cl5(101) #2	0.00240	0.01042	0.02004	0.04008	0.08016	0.32064
33 I	Cl6(161) #2	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000
34 s	Cl6(152) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
35	Cl5(118) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
36	Cl6(153) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
37	Cl5(105) #2	0.00241	0.01043	0.02006	0.04012	0.08024	0.32096
38	Cl6(138) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
39	Cl7(187) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
40	Cl6(128) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
41	Cl7(180) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
42	Cl7(170) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
43	Cl8(195) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128
44	Cl9(206) #2	0.00240	0.01042	0.02004	0.04008	0.08016	0.32064
45	Cl10(209) #2	0.00241	0.01044	0.02008	0.04016	0.08032	0.32128

Standards Loaded From LIMS

Solution ID : HX25 - ECD Curve L1
 Last Updated : 2/4/2014 9:06:27 AM
 Create Date : Jan 10 2014 12:00AM RMB
 Expire Date : 8/1/2014
 Approval Date: Feb 3 2014 10:37AM RDL
 Override Date: No Override

Solution ID : HX27 - ECD Curve L3
 Last Updated : 2/4/2014 9:06:27 AM
 Create Date : Jan 10 2014 12:00AM RMB
 Expire Date : 8/1/2014

Approval Date: Feb 3 2014 10:37AM RDL
Override Date: No Override

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Solution ID : HX28 - ECD Curve L4
Last Updated : 2/4/2014 9:06:27 AM
Create Date : Jan 10 2014 12:00AM RMB
Expire Date : 8/1/2014
Approval Date: Feb 3 2014 10:37AM RDL
Override Date: No Override

Solution ID : HX29 - ECD Curve L5
Last Updated : 2/4/2014 9:06:27 AM
Create Date : Jan 10 2014 12:00AM RMB
Expire Date : 8/1/2014
Approval Date: Feb 3 2014 10:38AM RDL
Override Date: No Override

Solution ID : HX30 - ECD Curve L6
Last Updated : 2/4/2014 9:06:27 AM
Create Date : Jan 10 2014 12:00AM RMB
Expire Date : 8/1/2014
Approval Date: Feb 3 2014 10:38AM RDL
Override Date: No Override

Solution ID : HX32 - ECD Curve L8
Last Updated : 2/4/2014 9:06:27 AM
Create Date : Jan 10 2014 12:00AM RMB
Expire Date : 8/1/2014
Approval Date: Not Approved
Override Date: No Override

Signal #1 : I:\X\DATA\SX0038\X1084.D\ECD1A.CH Vial: 2
 Signal #2 : I:\X\DATA\SX0038\X1084.D\ECD2B.CH
 Acq On : 8-13-2014 06:04:47 PM Operator: LMG
 Sample : HX25 Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:11:20 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:10:44 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	7809192	0.10000	ng
10) I C16(161)	25.11	20730273m	0.10000	ng
24) I C15(96) #2	21.16	3718074m	0.10000	ng
33) I C16(161) #2	27.27	9165858	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.17	253587	0.00136	ng
Spiked Amount 0.0024		Recovery	= 56.67%	
11) s C16(152)	22.37	363645	0.00269	ng
Spiked Amount 0.0024		Recovery	= 111.62%	
27) s C13(34) #2	17.10	172366	0.00149	ng
Spiked Amount 0.0024		Recovery	= 62.08%	
34) s C16(152) #2	24.25	140927m	0.00508	ng
Spiked Amount 0.0024		Recovery	= 210.79%	
Target Compounds				
2) C12(8)	11.88	136875m	0.00164	ng
3) C13(18)	13.86	171981	0.00150	ng
5) C13(28)	16.00	286702m	0.00154	ng
6) C14(52)	17.64	309811	0.00066	ng
7) C14(44)	18.53	328117	0.00111	ng
8) C14(66)	20.45	375601	0.00121	ng
9) C15(101)	21.57	368703	0.00055	ng
12) C15(118)	24.29	418474m	0.00223	ng
13) C16(153)	25.29	443857m	0.00141	ng
14) C15(105)	25.37	477776m	0.00315	ng
15) C16(138)	26.39	520440m	0.00219	ng
16) C17(187)	27.00	494012m	0.00190	ng
17) C16(128)	27.27	553979	0.00225	ng
18) C17(180)	28.49	517962	0.00226	ng
19) C17(170)	29.20	557597m	0.00203	ng
20) C18(195)	30.19	528515m	0.00178	ng
21) C19(206)	31.38	539179m	0.00186	ng
22) C110(209)	31.96	445451m	0.00155	ng
25) C12(8) #2	13.71	84515	0.00080	ng
26) C13(18) #2	15.61	112490	0.00125	ng
28) C13(28) #2	18.39	166765	BelowCal	ng
29) C14(52) #2	19.75	131825m	BelowCal	ng
30) C14(44) #2	20.59	113251m	0.00042	ng
31) C14(66) #2	23.00	178660	0.00142	ng
32) C15(101) #2	23.85	235682m	0.00416	ng
35) C15(118) #2	26.86	160237	0.00088	ng
36) C16(153) #2	27.41	149697m	0.00118	ng
37) C15(105) #2	27.68	194419	0.00180	ng
38) C16(138) #2	28.21	96227m	BelowCal	ng
39) C17(187) #2	28.55	167136	0.00169	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Page 1

Signal #1 : I:\X\DATA\SX0038\X1084.D\ECD1A.CH Vial: 2
Signal #2 : I:\X\DATA\SX0038\X1084.D\ECD2B.CH
Acq On : 8-13-2014 06:04:47 PM Operator: LMG
Sample : HX25 Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 08:11:20 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:10:44 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	223554	0.00158	ng
41)	Cl7(180) #2	29.95	189150m	0.00169	ng
42)	Cl7(170) #2	30.57	203912m	0.00156	ng
43)	Cl8(195) #2	31.43	186627m	0.00144	ng
44)	Cl9(206) #2	32.51	156825m	0.00102	ng
45)	Cl10(209) #2	32.95	125000m	0.00079	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1084.D MX0038.M Tue Aug 19 11:49:01 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1086.D\ECD1A.CH Vial: 4
 Signal #2 : I:\X\DATA\SX0038\X1086.D\ECD2B.CH
 Acq On : 8-13-2014 07:36:25 PM Operator: LMG
 Sample : HX27 Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:11:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:11:18 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	8367374m	0.10000	ng
10) I Cl6(161)	25.11	22362370	0.10000	ng
24) I Cl5(96) #2	21.16	3877673m	0.10000	ng
33) I Cl6(161) #2	27.27 T	9700032	0.10000	ng
System Monitoring Compounds				
4) s Cl3(34)	15.17	895839m	0.00985	ng
Spiked Amount 0.0104		Recovery	=	94.71%
11) s Cl6(152)	22.37	1411179m	0.01138	ng
Spiked Amount 0.0104		Recovery	=	109.00%
27) s Cl3(34) #2	17.09	490829	0.01033	ng
Spiked Amount 0.0104		Recovery	=	99.33%
34) s Cl6(152) #2	24.24	611070m	0.01130	ng
Spiked Amount 0.0104		Recovery	=	108.24%
Target Compounds				
2) Cl2(8)	11.88	552734m	0.00987	ng
3) Cl3(18)	13.86	710762	0.01040	ng
5) Cl3(28)	15.99	1270772m	0.01029	ng
6) Cl4(52)	17.64	1078844m	0.01011	ng
7) Cl4(44)	18.52	1386433m	0.01052	ng
8) Cl4(66)	20.45	1619053m	0.01055	ng
9) Cl5(101)	21.57	1544783m	0.01089	ng
12) Cl5(118)	24.28	1794510m	0.01053	ng
13) Cl6(153)	25.30	1656371m	0.00924	ng
14) Cl5(105)	25.37	2137988m	0.01071	ng
15) Cl6(138)	26.38	2259574m	0.01067	ng
16) Cl7(187)	27.00	2098304	0.01062	ng
17) Cl6(128)	27.27	2515336m	0.01068	ng
18) Cl7(180)	28.49	2373769	0.01060	ng
19) Cl7(170)	29.20	2595208m	0.01052	ng
20) Cl8(195)	30.19	2432776m	0.01036	ng
21) Cl9(206)	31.38	2330109m	0.01015	ng
22) Cl10(209)	31.96	2023212m	0.01028	ng
25) Cl2(8) #2	13.71	323769	0.01079	ng
26) Cl3(18) #2	15.60	366320	0.01051	ng
28) Cl3(28) #2	18.39	674781	0.01967	ng
29) Cl4(52) #2	19.74	714862m	0.01123	ng
30) Cl4(44) #2	20.60	972423	0.01100	ng
31) Cl4(66) #2	23.00	699807	0.01030	ng
32) Cl5(101) #2	23.85	990133m	0.01105	ng
35) Cl5(118) #2	26.86	634235	0.01022	ng
36) Cl6(153) #2	27.41	649115m	0.01062	ng
37) Cl5(105) #2	27.67	841380	0.01057	ng
38) Cl6(138) #2	28.21	484957m	0.00971	ng
39) Cl7(187) #2	28.55	699932	0.01074	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1086.D\ECD1A.CH Vial: 4
Signal #2 : I:\X\DATA\SX0038\X1086.D\ECD2B.CH
Acq On : 8-13-2014 07:36:25 PM Operator: LMG
Sample : HX27 Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 08:11:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:11:18 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	961841	0.01044	ng
41)	Cl7(180) #2	29.95	855548	0.01061	ng
42)	Cl7(170) #2	30.57	932752	0.01035	ng
43)	Cl8(195) #2	31.43	872786m	0.01028	ng
44)	Cl9(206) #2	32.51	785765m	0.01005	ng
45)	Cl10(209) #2	32.95	635210m	0.01011	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1086.D MX0038.M Tue Aug 19 11:49:13 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1087.D\ECD1A.CH Vial: 5
 Signal #2 : I:\X\DATA\SX0038\X1087.D\ECD2B.CH
 Acq On : 8-13-2014 08:22:20 PM Operator: LMG
 Sample : HX28 Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:11:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:11:24 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	7870878	0.10000	ng
10) I C16(161)	25.12	21405010	0.10000	ng
24) I C15(96) #2	21.16	4441532m	0.10000	ng
33) I C16(161) #2	27.27	11012971	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.17	1618128	0.02116	ng
Spiked Amount 0.0200		Recovery	= 105.80%	
11) s C16(152)	22.36	2506820	0.02177	ng
Spiked Amount 0.0201		Recovery	= 108.42%	
27) s C13(34) #2	17.09	1019843	0.02153	ng
Spiked Amount 0.0200		Recovery	= 107.65%	
34) s C16(152) #2	24.25	1337122m	0.01896	ng
Spiked Amount 0.0201		Recovery	= 94.42%	
Target Compounds				
2) C12(8)	11.88	987890	0.02011	ng
3) C13(18)	13.86	1219553	0.02044	ng
5) C13(28)	16.00	2296994	0.02096	ng
6) C14(52)	17.64	1858791	0.02155	ng
7) C14(44)	18.53	2447768	0.02163	ng
8) C14(66)	20.45	2912700	0.02189	ng
9) C15(101)	21.57	2666136	0.02250	ng
12) C15(118)	24.29	3256556	0.02054	ng
13) C16(153)	25.29	2963248m	0.01888	ng
14) C15(105)	25.37	4144612m	0.02096	ng
15) C16(138)	26.39	4092195	0.02081	ng
16) C17(187)	27.00	3740246	0.02076	ng
17) C16(128)	27.27	4549553	0.02058	ng
18) C17(180)	28.49	4357292	0.02068	ng
19) C17(170)	29.20	4764382	0.02072	ng
20) C18(195)	30.19	4466482m	0.02070	ng
21) C19(206)	31.38	4277553m	0.02034	ng
22) C110(209)	31.96	3629895m	0.02037	ng
25) C12(8) #2	13.71	646750	0.02092	ng
26) C13(18) #2	15.60	758921	0.02146	ng
28) C13(28) #2	18.39	1402898	0.04087	ng
29) C14(52) #2	19.75	1234085m	0.01882	ng
30) C14(44) #2	20.60	1039875m	0.01022	ng
31) C14(66) #2	23.00	1501651	0.02072	ng
32) C15(101) #2	23.85	2604387m	0.02270	ng
35) C15(118) #2	26.87	1305511	0.02024	ng
36) C16(153) #2	27.41	1352522	0.02075	ng
37) C15(105) #2	27.67	1817216	0.02061	ng
38) C16(138) #2	28.21	1049016m	0.02031	ng
39) C17(187) #2	28.55	1462794	0.02060	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1087.D\ECD1A.CH Vial: 5
Signal #2 : I:\X\DATA\SX0038\X1087.D\ECD2B.CH
Acq On : 8-13-2014 08:22:20 PM Operator: LMG
Sample : HX28 Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 08:11:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:11:24 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	2043572	0.02029	ng
41)	Cl7(180) #2	29.95	1815993	0.02036	ng
42)	Cl7(170) #2	30.57	2036415	0.02047	ng
43)	Cl8(195) #2	31.43	1903200m	0.02038	ng
44)	Cl9(206) #2	32.51	1746033m	0.02054	ng
45)	Cl10(209) #2	32.95	1391980m	0.02065	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1087.D MX0038.M Tue Aug 19 11:49:24 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1088A.D\ECD1A.CH Vial: 6
 Signal #2 : I:\X\DATA\SX0038\X1088A.D\ECD2B.CH
 Acq On : 8-14-2014 08:41:21 AM Operator: LMG
 Sample : HX29 Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:11:38 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:11:31 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.26	8009957m	0.10000	ng
10) I C16(161)	25.13	19241632m	0.10000	ng
24) I C15(96) #2	21.15	4254435m	0.10000	ng
33) I C16(161) #2	27.27	10982032m	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.19	3058285m	0.04170	ng
Spiked Amount 0.0400		Recovery	= 104.25%	
11) s C16(152)	22.37	3757925m	0.03698	ng
Spiked Amount 0.0402		Recovery	= 92.08%	
27) s C13(34) #2	17.08	1718444m	0.04008	ng
Spiked Amount 0.0400		Recovery	= 100.20%	
34) s C16(152) #2	24.24	2638537m	0.03469	ng
Spiked Amount 0.0402		Recovery	= 86.38%	
Target Compounds				
2) C12(8)	11.91	2044366	0.04305	ng
3) C13(18)	13.88	2406773	0.04186	ng
5) C13(28)	16.02	4455070m	0.04126	ng
6) C14(52)	17.66	3411120m	0.04199	ng
7) C14(44)	18.55	4545654m	0.04132	ng
8) C14(66)	20.47	5238579m	0.04012	ng
9) C15(101)	21.59	4377836m	0.03815	ng
12) C15(118)	24.30	5283956m	0.03782	ng
13) C16(153)	25.33	5920895m	0.04470	ng
14) C15(105)	25.39	6843406m	0.03800	ng
15) C16(138)	26.40	6932858m	0.04001	ng
16) C17(187)	27.01	6324859m	0.04030	ng
17) C16(128)	27.28	7915228m	0.04043	ng
18) C17(180)	28.50	7480056m	0.04003	ng
19) C17(170)	29.21	8203581m	0.04041	ng
20) C18(195)	30.20	7839357m	0.04144	ng
21) C19(206)	31.39	7772036m	0.04233	ng
22) C110(209)	31.97	6571521m	0.04258	ng
25) C12(8) #2	13.69	1163983	0.04160	ng
26) C13(18) #2	15.59	1298205	0.04051	ng
28) C13(28) #2	18.38	2462477m	0.07902	ng
29) C14(52) #2	19.75	1958572m	0.03306	ng
30) C14(44) #2	20.59	1888364m	0.01993	ng
31) C14(66) #2	22.99	2744009m	0.04059	ng
32) C15(101) #2	23.84	5087342m	0.04341	ng
35) C15(118) #2	26.86	2666500m	0.04237	ng
36) C16(153) #2	27.41	2551154m	0.03977	ng
37) C15(105) #2	27.67	3602226m	0.04022	ng
38) C16(138) #2	28.21	2116943m	0.04086	ng
39) C17(187) #2	28.55	2802525m	0.03955	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1088A.D MX0038.M Tue Aug 19 11:49:25 2014

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Signal #1 : I:\X\DATA\SX0038\X1088A.D\ECD1A.CH Vial: 6
Signal #2 : I:\X\DATA\SX0038\X1088A.D\ECD2B.CH
Acq On : 8-14-2014 08:41:21 AM Operator: LMG
Sample : HX29 Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 08:11:38 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:11:31 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	4070118m	0.04020	ng
41)	Cl7(180) #2	29.95	3633050m	0.04028	ng
42)	Cl7(170) #2	30.57	4122078m	0.04082	ng
43)	Cl8(195) #2	31.43	3923063m	0.04146	ng
44)	Cl9(206) #2	32.51	3622885m	0.04215	ng
45)	Cl10(209) #2	32.95	2858658m	0.04253	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1088A.D MX0038.M Tue Aug 19 11:49:25 2014 046776CFS

Data File : I:\X\DATA\SX0038\X1089.D\ECD1A.CH Vial: 7
 Acq On : 8-14-2014 09:27:16 AM Operator: LMG
 Sample : HX30 Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile : events.e

Data File : I:\X\DATA\SX0038\X1089.D\ECD2B.CH Vial: 7
 Acq On : 8-14-2014 09:27:17 AM Operator: LMG
 Sample : HX30 Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile : events2.e

Quant Time: Aug 17 08:11:44 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)

Title : NBH

Last Update : Sun Aug 17 08:11:36 2014

Response via : Initial Calibration

DataAcq Meth : 5-128S.M

RIS/SIS Mult : NA

Volume Inj. :

Signal #1 Phase : Signal #2 Phase:

Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	8809888	0.10000	ng
10) I C16(161)	25.11	21294700	0.10000	ng
24) I C15(96) #2	21.16	5169438m	0.10000	ng
33) I C16(161) #2	27.27	12008483	0.10000	ng

System Monitoring Compounds				
4) s C13(34)	15.16	6092424m	0.07878	ng
Spiked Amount	0.0800	Recovery	=	98.47%
11) s C16(152)	22.37	9015528m	0.08254	ng
Spiked Amount	0.0803	Recovery	=	102.76%
27) s C13(34) #2	17.09	3993364	0.07781	ng
Spiked Amount	0.0800	Recovery	=	97.26%
34) s C16(152) #2	24.25	5449350m	0.06342	ng
Spiked Amount	0.0803	Recovery	=	78.96%

Target Compounds				
2) C12(8)	11.88	3929992	0.07847	ng
3) C13(18)	13.86	4774269	0.07916	ng
5) C13(28)	15.99	9210489m	0.07932	ng
6) C14(52)	17.64	6679084m	0.07848	ng
7) C14(44)	18.52	9140253m	0.07775	ng
8) C14(66)	20.45	11213503	0.07983	ng
9) C15(101)	21.57	9622959	0.07930	ng
12) C15(118)	24.28	12001034m	0.07974	ng
13) C16(153)	25.29	12582484m	0.08944	ng
14) C15(105)	25.37	16294757	0.08159	ng
15) C16(138)	26.39	15159948	0.08074	ng
16) C17(187)	27.00	13561572	0.08032	ng
17) C16(128)	27.27	17176759	0.08064	ng
18) C17(180)	28.49	16396638	0.08072	ng
19) C17(170)	29.20	17918678	0.08129	ng
20) C18(195)	30.19	16403264m	0.07988	ng
21) C19(206)	31.38	15849864m	0.07973	ng
22) C110(209)	31.96	13197626m	0.07937	ng
25) C12(8) #2	13.71	2679775	0.08041	ng
26) C13(18) #2	15.60	2968824	0.07800	ng
28) C13(28) #2	18.39	6207962	0.16409	ng
29) C14(52) #2	19.74	6300065m	0.08578	ng
30) C14(44) #2	20.59	4408159m	0.03789	ng
31) C14(66) #2	23.00	6398635	0.07755	ng
32) C15(101) #2	23.84	12673301m	0.08353	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1089.D MX0038.M Tue Aug 19 11:49:37 2014

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Page 1

Data File : I:\X\DATA\SX0038\X1089.D\ECD1A.CH Vial: 7
Acq On : 8-14-2014 09:27:16 AM Operator: LMG
Sample : HX30 Inst : INST. X
Misc : Multiplr: 1.00
IntFile : events.e

Data File : I:\X\DATA\SX0038\X1089.D\ECD2B.CH Vial: 7
Acq On : 8-14-2014 09:27:17 AM Operator: LMG
Sample : HX30 Inst : INST. X
Misc : Multiplr: 1.00
IntFile : events2.e

Quant Time: Aug 17 08:11:44 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)

Title : NBH

Last Update : Sun Aug 17 08:11:36 2014

Response via : Initial Calibration

DataAcq Meth : 5-128S.M

RIS/SIS Mult : NA

Volume Inj. :

Signal #1 Phase : Signal #2 Phase:

Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
35)	Cl5(118) #2	26.86	5610641	0.07876	ng
36)	Cl6(153) #2	27.41	5805200	0.07996	ng
37)	Cl5(105) #2	27.67	8400984	0.07998	ng
38)	Cl6(138) #2	28.21	5124407m	0.08201	ng
39)	Cl7(187) #2	28.55	6517014	0.08012	ng
40)	Cl6(128) #2	28.94	9352630	0.07965	ng
41)	Cl7(180) #2	29.95	8376363	0.07989	ng
42)	Cl7(170) #2	30.57	9460004	0.08013	ng
43)	Cl8(195) #2	31.43	8727068m	0.07929	ng
44)	Cl9(206) #2	32.51	7880951m	0.07883	ng
45)	Cl10(209) #2	32.95	6059092m	0.07876	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1089.D MX0038.M Tue Aug 19 11:49:37 2014

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Signal #1 : I:\X\DATA\SX0038\X1091.D\ECD1A.CH Vial: 9
 Signal #2 : I:\X\DATA\SX0038\X1091.D\ECD2B.CH
 Acq On : 14 Aug 2014 10:59 am Operator: LMG
 Sample : HX32 Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:11:50 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:11:42 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.23	9497800m	0.10000	ng
10) I C16(161)	25.11	25931258	0.10000	ng
24) I C15(96) #2	21.16	6449250m	0.10000	ng
33) I C16(161) #2	27.27	12780784	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.16	23177510	0.32005	ng
Spiked Amount	0.3200	Recovery	=	100.02%
11) s C16(152)	22.36	37826856m	0.31931	ng
Spiked Amount	0.3213	Recovery	=	99.39%
27) s C13(34) #2	17.09	21826757	0.30473	ng
Spiked Amount	0.3200	Recovery	=	95.23%
34) s C16(152) #2	24.25	32173242m	0.38158	ng
Spiked Amount	0.3213	Recovery	=	118.77%
Target Compounds				
2) C12(8)	11.88	13658911	0.31888	ng
3) C13(18)	13.86	16439495	0.31948	ng
5) C13(28)	15.99	e 37539655	0.32059	ng
6) C14(52)	17.63	26071801	0.31897	ng
7) C14(44)	18.52	e 38354862	0.32155	ng
8) C14(66)	20.45	47651223	0.31941	ng
9) C15(101)	21.57	40477395	0.31941	ng
12) C15(118)	24.28	51770087m	0.32014	ng
13) C16(153)	25.29	e 49483007m	0.33341	ng
14) C15(105)	25.37	74771135	0.32091	ng
15) C16(138)	26.38	67122398	0.32127	ng
16) C17(187)	27.00	59224199	0.32128	ng
17) C16(128)	27.26	76797002	0.32127	ng
18) C17(180)	28.49	72569927m	0.32096	ng
19) C17(170)	29.19	e 79663102m	0.32224	ng
20) C18(195)	30.19	74843079m	0.32115	ng
21) C19(206)	31.38	e 71132835m	0.32179	ng
22) C110(209)	31.95	e 58181666m	0.32139	ng
25) C12(8) #2	13.71	13201304	0.30411	ng
26) C13(18) #2	15.60	15103716	0.30473	ng
28) C13(28) #2	18.39	E 37555944	0.66116	ng
29) C14(52) #2	19.74	e 38497168m	0.31296	ng
30) C14(44) #2	20.59	26822714m	0.15428	ng
31) C14(66) #2	23.00	35659246	0.30538	ng
32) C15(101) #2	23.85	e 73810752m	0.31094	ng
35) C15(118) #2	26.86	33265453	0.32131	ng
36) C16(153) #2	27.41	32639713	0.32129	ng
37) C15(105) #2	27.67	52782445	0.32097	ng
38) C16(138) #2	28.21	33593822m	0.30764	ng
39) C17(187) #2	28.55	37928195	0.32129	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1091.D MX0038.M Tue Aug 19 11:49:48 2014

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Page 1

Signal #1 : I:\X\DATA\SX0038\X1091.D\ECD1A.CH Vial: 9
Signal #2 : I:\X\DATA\SX0038\X1091.D\ECD2B.CH
Acq On : 14 Aug 2014 10:59 am Operator: LMG
Sample : HX32 Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 08:11:50 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:11:42 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.		Response	Conc	Units
40)	Cl6(128) #2	28.94		57290658	0.32129	ng
41)	Cl7(180) #2	29.95	e	51097050	0.32171	ng
42)	Cl7(170) #2	30.57		58878790m	0.32124	ng
43)	Cl8(195) #2	31.43	e	54792634	0.32237	ng
44)	Cl9(206) #2	32.51	e	50226340m	0.32067	ng
45)	Cl10(209) #2	32.95		36552807m	0.32124	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1091.D MX0038.M Tue Aug 19 11:49:48 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1092.D\ECD1A.CH Vial: 10
 Signal #2 : I:\X\DATA\SX0038\X1092.D\ECD2B.CH
 Acq On : 14 Aug 2014 11:44 am Operator: LMG
 Sample : HY06 ICC Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:47:00 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:45:52 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	

Internal Standards					
1) I C15(96)	19.23	9882169	0.10000	ng	
10) I C16(161)	25.11	25374296	0.10000	ng	
24) I C15(96) #2	21.16	5095732m	0.10000	ng	
33) I C16(161) #2	27.27	11928985	0.10000	ng	
System Monitoring Compounds					
4) s C13(34)	15.16	3707379	0.04089	ng	2.2
Spiked Amount 0.0400		Recovery	=	102.23%	
11) s C16(152)	22.36	5614900	0.04162	ng	3.6
Spiked Amount 0.0402		Recovery	=	103.64%	
27) s C13(34) #2	17.09	2027444	0.03984	ng	-0.4
Spiked Amount 0.0400		Recovery	=	99.60%	
34) s C16(152) #2	24.25	2499790m	0.03753	ng	-6.5
Spiked Amount 0.0402		Recovery	=	93.45%	
Target Compounds					
2) C12(8)	11.87	2316484	0.03928	ng	-1.8
3) C13(18)	13.86	2809061	0.03943	ng	-1.4
5) C13(28)	15.99	5600491	0.04210	ng	5.2
6) C14(52)	17.63	4173021	0.04161	ng	4.0
7) C14(44)	18.52	5668010	0.04231	ng	5.8
8) C14(66)	20.45	6851178	0.04251	ng	6.3
9) C15(101)	21.57	5984801	0.04310	ng	7.7
12) C15(118)	24.28	7372176	0.04079	ng	2.0
13) C16(153)	25.29	7012414m	0.03670	ng	-8.2
14) C15(105)	25.37	9876659	0.04132	ng	3.3
15) C16(138)	26.38	9255968	0.04027	ng	0.7
16) C17(187)	27.00	8300750	0.03997	ng	-0.1
17) C16(128)	27.26	10341465	0.03977	ng	-0.6
18) C17(180)	28.49	9899591	0.03996	ng	-0.1
19) C17(170)	29.19	10860919	0.04010	ng	0.2
20) C18(195)	30.19	10079495m	0.04018	ng	0.4
21) C19(206)	31.38	9600993m	0.03921	ng	-2.0
22) C110(209)	31.95	7962271m	0.03877	ng	-3.1
25) C12(8) #2	13.70	1347004	0.03939	ng	-1.5
26) C13(18) #2	15.60	1536771	0.04042	ng	1.0
28) C13(28) #2	18.39	2994430	0.04004	ng	0.1
29) C14(52) #2	19.75	2625065m	0.03705	ng	-7.4
30) C14(44) #2	20.59	2190754m	0.03863	ng	-3.4
31) C14(66) #2	23.00	3056865	0.03827	ng	-4.3
32) C15(101) #2	23.85	5502622m	0.03665	ng	-8.4
35) C15(118) #2	26.86	2704935	0.03982	ng	-0.4
36) C16(153) #2	27.41	2813251	0.04058	ng	1.4
37) C15(105) #2	27.67	3863538	0.03977	ng	-0.6
38) C16(138) #2	28.21	2196138m	0.03813	ng	-4.7
39) C17(187) #2	28.55	3085916	0.04024	ng	0.6

(f)=RT Delta > 1/2 Window

(m)=manual int.-----

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1092.D MX0038.M Tue Aug 19 11:49:49 2014

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Page 1

Signal #1 : I:\X\DATA\SX0038\X1092.D\ECD1A.CH Vial: 10
 Signal #2 : I:\X\DATA\SX0038\X1092.D\ECD2B.CH
 Acq On : 14 Aug 2014 11:44 am Operator: LMG
 Sample : HY06 ICC Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:47:00 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:45:52 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units	
40)	Cl6(128) #2	28.94	4347257	0.03986	ng	-0.4
41)	Cl7(180) #2	29.95	3850094	0.03950	ng	-1.3
42)	Cl7(170) #2	30.57	4352497	0.03968	ng	-0.8
43)	Cl8(195) #2	31.43	4043162m	0.03963	ng	-0.9
44)	Cl9(206) #2	32.51	3690230m	0.03978	ng	-0.5
45)	Cl10(209) #2	32.95	2881396m	0.03969	ng	-0.8

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
 X1092.D MX0038.M Tue Aug 19 11:49:50 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1101.D\ECD1A.CH Vial: 19
 Signal #2 : I:\X\DATA\SX0038\X1101.D\ECD2B.CH
 Acq On : 8-14-2014 09:34:24 PM Operator: LMG
 Sample : HX29 mid Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:47:06 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:46:58 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.23	11153755	0.10000	ng
10) I C16(161)	25.11	30274927	0.10000	ng
24) I C15(96) #2	21.16	5442778m	0.10000	ng
33) I C16(161) #2	27.27	12879135	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.16	4112064	0.04013	ng
Spiked Amount 0.0400		Recovery	= 100.33%	
11) s C16(152)	22.36	6503573	0.04035	ng
Spiked Amount 0.0402		Recovery	= 100.47%	
27) s C13(34) #2	17.09	2252209	0.04155	ng
Spiked Amount 0.0400		Recovery	= 103.87%	
34) s C16(152) #2	24.24	3071803m	0.04269	ng
Spiked Amount 0.0402		Recovery	= 106.30%	
Target Compounds				
2) C12(8)	11.87	2440825	0.03649	ng
3) C13(18)	13.85	3147489	0.03912	ng
5) C13(28)	15.99	6945593	0.04644	ng
6) C14(52)	17.63	5274679	0.04712	ng
7) C14(44)	18.52	6636529	0.04400	ng
8) C14(66)	20.45	8442392	0.04660	ng
9) C15(101)	21.57	7281441	0.04669	ng
12) C15(118)	24.28	9190404	0.04268	ng
13) C16(153)	25.30	8681138m	0.03810	ng
14) C15(105)	25.36	11965845	0.04196	ng
15) C16(138)	26.38	11235129	0.04099	ng
16) C17(187)	27.00	9901027	0.03996	ng
17) C16(128)	27.26	12506523	0.04032	ng
18) C17(180)	28.49	11513646	0.03893	ng
19) C17(170)	29.19	12501254	0.03865	ng
20) C18(195)	30.18	11111199m	0.03702	ng
21) C19(206)	31.37	9922436m	0.03378	ng
22) C110(209)	31.95	8165301m	0.03308	ng
25) C12(8) #2	13.71	1562875	0.04299	ng
26) C13(18) #2	15.60	1816951	0.04507	ng
28) C13(28) #2	18.39	3405448	0.04263	ng
29) C14(52) #2	19.75	3104063m	0.04084	ng
30) C14(44) #2	20.59	2575523m	0.04303	ng
31) C14(66) #2	23.00	3414772	0.04008	ng
32) C15(101) #2	23.85	6467355m	0.04017	ng
35) C15(118) #2	26.86	3039726	0.04142	ng
36) C16(153) #2	27.41	3157069	0.04215	ng
37) C15(105) #2	27.67	4254007	0.04052	ng
38) C16(138) #2	28.21	2549430m	0.04076	ng
39) C17(187) #2	28.55	3391231	0.04094	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1101.D MX0038.M Tue Aug 19 11:49:56 2014

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Signal #1 : I:\X\DATA\SX0038\X1101.D\ECD1A.CH Vial: 19
 Signal #2 : I:\X\DATA\SX0038\X1101.D\ECD2B.CH
 Acq On : 8-14-2014 09:34:24 PM Operator: LMG
 Sample : HX29 mid Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:47:06 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:46:58 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	4770677	0.04048	ng
41)	Cl7(180) #2	29.95	4345048	0.04119	ng
42)	Cl7(170) #2	30.57	4888211m	0.04118	ng
43)	Cl8(195) #2	31.43	4599539m	0.04164	ng
44)	Cl9(206) #2	32.51	4398590m	0.04367	ng
45)	Cl10(209) #2	32.95	3427362m	0.04358	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
 X1101.D MX0038.M Tue Aug 19 11:49:56 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1110.D\ECD1A.CH Vial: 28
 Signal #2 : I:\X\DATA\SX0038\X1110.D\ECD2B.CH
 Acq On : 8-15-2014 04:30:39 AM Operator: LMG
 Sample : HX30 mid Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:47:11 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:47:04 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.23	12538957	0.10000	ng
10) I C16(161)	25.11	32386879	0.10000	ng
24) I C15(96) #2	21.16	6406918	0.10000	ng
33) I C16(161) #2	27.27	15641458	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.16	8612077	0.07818	ng
Spiked Amount 0.0800		Recovery	=	97.72%
11) s C16(152)	22.36	13522698	0.08077	ng
Spiked Amount 0.0803		Recovery	=	100.56%
27) s C13(34) #2	17.09	5161938	0.08277	ng
Spiked Amount 0.0800		Recovery	=	103.46%
34) s C16(152) #2	24.24	6549098m	0.07305	ng
Spiked Amount 0.0803		Recovery	=	90.95%
Target Compounds				
2) C12(8)	11.87	4912412	0.06815	ng
3) C13(18)	13.85	5981823	0.06892	ng
5) C13(28)	15.99	13693149	0.08312	ng
6) C14(52)	17.63	9631868	0.07964	ng
7) C14(44)	18.52	13586667	0.08258	ng
8) C14(66)	20.45	17220021	0.08616	ng
9) C15(101)	21.56	14663867	0.08602	ng
12) C15(118)	24.28	17974859	0.07972	ng
13) C16(153)	25.28	18816714m	0.07898	ng
14) C15(105)	25.36	24506990	0.08047	ng
15) C16(138)	26.38	22407790	0.07803	ng
16) C17(187)	26.99	19606858	0.07598	ng
17) C16(128)	27.26	25014991	0.07671	ng
18) C17(180)	28.48	22423706	0.07202	ng
19) C17(170)	29.19	24004251	0.07045	ng
20) C18(195)	30.18	21072334m	0.06685	ng
21) C19(206)	31.38	18200783m	0.05908	ng
22) C110(209)	31.95	14674805m	0.05693	ng
25) C12(8) #2	13.70	3420846	0.08195	ng
26) C13(18) #2	15.60	3775029	0.08161	ng
28) C13(28) #2	18.39	8101337	0.08439	ng
29) C14(52) #2	19.74	8232881m	0.08721	ng
30) C14(44) #2	20.59	5313040m	0.07762	ng
31) C14(66) #2	22.99	8015845	0.08015	ng
32) C15(101) #2	23.85	14142869m	0.07246	ng
35) C15(118) #2	26.86	7509205	0.08101	ng
36) C16(153) #2	27.41	7601275	0.08053	ng
37) C15(105) #2	27.67	11205597	0.08171	ng
38) C16(138) #2	28.21	6427229m	0.07784	ng
39) C17(187) #2	28.54	8643630	0.08166	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1110.D MX0038.M Tue Aug 19 11:50:26 2014

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Signal #1 : I:\X\DATA\SX0038\X1110.D\ECD1A.CH Vial: 28
Signal #2 : I:\X\DATA\SX0038\X1110.D\ECD2B.CH
Acq On : 8-15-2014 04:30:39 AM Operator: LMG
Sample : HX30 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 08:47:11 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:47:04 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	12659426	0.08278	ng
41)	Cl7(180) #2	29.94	11702851	0.08516	ng
42)	Cl7(170) #2	30.57	13648738	0.08737	ng
43)	Cl8(195) #2	31.43	12814507m	0.08825	ng
44)	Cl9(206) #2	32.51	12339739m	0.09262	ng
45)	Cl10(209) #2	32.95	9352620m	0.09180	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1110.D MX0038.M Tue Aug 19 11:50:26 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1119.D\ECD1A.CH Vial: 37
 Signal #2 : I:\X\DATA\SX0038\X1119.D\ECD2B.CH
 Acq On : 15 Aug 2014 11:25 am Operator: LMG
 Sample : HX29 mid Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:47:16 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:47:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	12648609	0.10000	ng
10) I C16(161)	25.11	34273145m	0.10000	ng
24) I C15(96) #2	21.16	6626608	0.10000	ng
33) I C16(161) #2	27.27	17128899	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.16	4756294	0.04100	ng
Spiked Amount	0.0400	Recovery	=	102.50%
11) s C16(152)	22.36	7499966	0.04114	ng
Spiked Amount	0.0402	Recovery	=	102.44%
27) s C13(34) #2	17.09	2743225	0.04157	ng
Spiked Amount	0.0400	Recovery	=	103.93%
34) s C16(152) #2	24.24	3533915m	0.03695	ng
Spiked Amount	0.0402	Recovery	=	92.01%
Target Compounds				
2) C12(8)	11.87	2751221	0.03626	ng
3) C13(18)	13.85	3395708	0.03708	ng
5) C13(28)	15.99	7550511	0.04444	ng
6) C14(52)	17.63	5502316	0.04300	ng
7) C14(44)	18.52	7805789	0.04574	ng
8) C14(66)	20.45	9491873	0.04618	ng
9) C15(101)	21.57	8242401	0.04660	ng
12) C15(118)	24.28	10001852	0.04098	ng
13) C16(153)	25.29	10576566m	0.04104	ng
14) C15(105)	25.37	13503179	0.04182	ng
15) C16(138)	26.38	12410852	0.03997	ng
16) C17(187)	27.00	10919653	0.03888	ng
17) C16(128)	27.26	13657607	0.03886	ng
18) C17(180)	28.49	12142528m	0.03620	ng
19) C17(170)	29.19	13136464m	0.03582	ng
20) C18(195)	30.19	11527659m	0.03382	ng
21) C19(206)	31.38	9976049m	0.02986	ng
22) C110(209)	31.95	8054488m	0.02862	ng
25) C12(8) #2	13.71	1895543	0.04282	ng
26) C13(18) #2	15.60	2089536	0.04240	ng
28) C13(28) #2	18.39	4081384	0.04197	ng
29) C14(52) #2	19.74	3452692m	0.03746	ng
30) C14(44) #2	20.59	3166746m	0.04351	ng
31) C14(66) #2	23.00	4125221	0.03976	ng
32) C15(101) #2	23.85	6890422m	0.03535	ng
35) C15(118) #2	26.86	3839782	0.03937	ng
36) C16(153) #2	27.41	3939858	0.03960	ng
37) C15(105) #2	27.67	5455766	0.03915	ng
38) C16(138) #2	28.21	3127567m	0.03785	ng
39) C17(187) #2	28.54	4333195	0.03938	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1119.D MX0038.M Tue Aug 19 11:58:19 2014

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Signal #1 : I:\X\DATA\SX0038\X1119.D\ECD1A.CH Vial: 37
Signal #2 : I:\X\DATA\SX0038\X1119.D\ECD2B.CH
Acq On : 15 Aug 2014 11:25 am Operator: LMG
Sample : HX29 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 08:47:16 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:47:09 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	6173776	0.03944	ng
41)	Cl7(180) #2	29.95	5700221	0.04066	ng
42)	Cl7(170) #2	30.57	6530886m	0.04136	ng
43)	Cl8(195) #2	31.43	6126841m	0.04170	ng
44)	Cl9(206) #2	32.50	5804368m	0.04335	ng
45)	Cl10(209) #2	32.95	4480886m	0.04287	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1119.D MX0038.M Tue Aug 19 11:58:19 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1128.D\ECD1A.CH Vial: 46
 Signal #2 : I:\X\DATA\SX0038\X1128.D\ECD2B.CH
 Acq On : 8-15-2014 08:10:42 PM Operator: LMG
 Sample : HX30 mid Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:47:21 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:47:14 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	13438193	0.10000	ng
10) I C16(161)	25.11	35056340m	0.10000	ng
24) I C15(96) #2	21.16	6405945m	0.10000	ng
33) I C16(161) #2	27.27	16166160	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.16	9523726	0.08085	ng
Spiked Amount 0.0800		Recovery	=	101.06%
11) s C16(152)	22.36	14501539	0.07998	ng
Spiked Amount 0.0803		Recovery	=	99.58%
27) s C13(34) #2	17.09	5184149	0.08314	ng
Spiked Amount 0.0800		Recovery	=	103.93%
34) s C16(152) #2	24.25	6927076m	0.07463	ng
Spiked Amount 0.0803		Recovery	=	92.92%
Target Compounds				
2) C12(8)	11.88	5477919	0.07114	ng
3) C13(18)	13.86	6650834	0.07173	ng
5) C13(28)	15.99	15322970	0.08692	ng
6) C14(52)	17.63	10544499	0.08148	ng
7) C14(44)	18.52	15243828m	0.08660	ng
8) C14(66)	20.45	18663598	0.08716	ng
9) C15(101)	21.57	15955099	0.08737	ng
12) C15(118)	24.28	19666595	0.08062	ng
13) C16(153)	25.29	22109957m	0.08617	ng
14) C15(105)	25.37	27485114	0.08341	ng
15) C16(138)	26.38	24322433	0.07825	ng
16) C17(187)	27.00	21126523	0.07562	ng
17) C16(128)	27.26	25780067	0.07293	ng
18) C17(180)	28.49	24624375	0.07310	ng
19) C17(170)	29.20	27042592	0.07341	ng
20) C18(195)	30.19	23989708m	0.07042	ng
21) C19(206)	31.38	21417648m	0.06443	ng
22) C110(209)	31.95	16982865m	0.06105	ng
25) C12(8) #2	13.71	3410306	0.08170	ng
26) C13(18) #2	15.60	3840745	0.08309	ng
28) C13(28) #2	18.39	8291981	0.08627	ng
29) C14(52) #2	19.74	7976603m	0.08475	ng
30) C14(44) #2	20.59	6020879m	0.08782	ng
31) C14(66) #2	23.00	8145104	0.08144	ng
32) C15(101) #2	23.85	14623123m	0.07479	ng
35) C15(118) #2	26.86	7716543	0.08058	ng
36) C16(153) #2	27.41	7836635	0.08035	ng
37) C15(105) #2	27.67	11392395	0.08055	ng
38) C16(138) #2	28.21	6251850m	0.07390	ng
39) C17(187) #2	28.54	8895646	0.08135	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1128.D\ECD1A.CH Vial: 46
Signal #2 : I:\X\DATA\SX0038\X1128.D\ECD2B.CH
Acq On : 8-15-2014 08:10:42 PM Operator: LMG
Sample : HX30 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 08:47:21 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:47:14 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	12923258	0.08189	ng
41)	Cl7(180) #2	29.95	11792798	0.08329	ng
42)	Cl7(170) #2	30.57	13545818m	0.08435	ng
43)	Cl8(195) #2	31.43	12560778m	0.08429	ng
44)	Cl9(206) #2	32.51	11518969m	0.08485	ng
45)	Cl10(209) #2	32.95	8656775m	0.08326	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1128.D MX0038.M Tue Aug 19 11:50:53 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1137.D\ECD1A.CH Vial: 55
 Signal #2 : I:\X\DATA\SX0038\X1137.D\ECD2B.CH
 Acq On : 8-16-2014 03:03:30 AM Operator: LMG
 Sample : HX29 mid Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:47:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:47:19 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.23	14115159m	0.10000	ng
10) I C16(161)	25.11	37629357	0.10000	ng
24) I C15(96) #2	21.16	8606875	0.10000	ng
33) I C16(161) #2	27.27	23562205	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.16	5476895	0.04241	ng
Spiked Amount 0.0400		Recovery	=	106.03%
11) s C16(152)	22.36	8188935	0.04090	ng
Spiked Amount 0.0402		Recovery	=	101.84%
27) s C13(34) #2	17.09	3363723	0.03908	ng
Spiked Amount 0.0400		Recovery	=	97.70%
34) s C16(152) #2	24.24	5140778m	0.03908	ng
Spiked Amount 0.0402		Recovery	=	97.31%
Target Compounds				
2) C12(8)	11.87	3240094	0.03841	ng
3) C13(18)	13.86	3958068	0.03885	ng
5) C13(28)	15.99	8718111	0.04605	ng
6) C14(52)	17.63	6163972	0.04318	ng
7) C14(44)	18.52	8692350m	0.04564	ng
8) C14(66)	20.45	10830829	0.04726	ng
9) C15(101)	21.57	9169195	0.04645	ng
12) C15(118)	24.28	10943356	0.04083	ng
13) C16(153)	25.29	10834361m	0.03826	ng
14) C15(105)	25.37	14469336	0.04082	ng
15) C16(138)	26.38	13324268	0.03905	ng
16) C17(187)	27.00	11812028	0.03828	ng
17) C16(128)	27.26	13638035	0.03526	ng
18) C17(180)	28.49	12999570	0.03528	ng
19) C17(170)	29.19	14054910m	0.03488	ng
20) C18(195)	30.19	12304418m	0.03285	ng
21) C19(206)	31.38	10777411m	0.02936	ng
22) C110(209)	31.95	8585375m	0.02774	ng
25) C12(8) #2	13.71	2227186	0.03851	ng
26) C13(18) #2	15.60	2509152	0.03897	ng
28) C13(28) #2	18.39	5275098	0.04176	ng
29) C14(52) #2	19.74	4696252m	0.03915	ng
30) C14(44) #2	20.59	3770228m	0.03946	ng
31) C14(66) #2	23.00	5435359	0.04035	ng
32) C15(101) #2	23.84	9505752m	0.03745	ng
35) C15(118) #2	26.86	5076352	0.03785	ng
36) C16(153) #2	27.41	5245625	0.03835	ng
37) C15(105) #2	27.67	7365020	0.03846	ng
38) C16(138) #2	28.21	4152177m	0.03662	ng
39) C17(187) #2	28.54	5857486	0.03872	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1137.D MX0038.M Tue Aug 19 11:51:01 2014

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Page 1

Signal #1 : I:\X\DATA\SX0038\X1137.D\ECD1A.CH Vial: 55
Signal #2 : I:\X\DATA\SX0038\X1137.D\ECD2B.CH
Acq On : 8-16-2014 03:03:30 AM Operator: LMG
Sample : HX29 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 08:47:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:47:19 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	8293137	0.03856	ng
41)	Cl7(180) #2	29.95	7592575	0.03944	ng
42)	Cl7(170) #2	30.57	8561143m	0.03952	ng
43)	Cl8(195) #2	31.43	7895705m	0.03920	ng
44)	Cl9(206) #2	32.50	7273588m	0.03970	ng
45)	Cl10(209) #2	32.95	5528196m	0.03859	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1137.D MX0038.M Tue Aug 19 11:51:01 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1145.D\ECD1A.CH Vial: 63
 Signal #2 : I:\X\DATA\SX0038\X1145.D\ECD2B.CH
 Acq On : 8-16-2014 09:10:31 AM Operator: LMG
 Sample : HX30 mid Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:47:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:47:24 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.23	15058472m	0.10000	ng
10) I C16(161)	25.11	39290190m	0.10000	ng
24) I C15(96) #2	21.16	9274770m	0.10000	ng
33) I C16(161) #2	27.27	24584178	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.16	10665606	0.08080	ng
Spiked Amount 0.0800		Recovery	=	101.00%
11) s C16(152)	22.36	15773594	0.07750	ng
Spiked Amount 0.0803		Recovery	=	96.49%
27) s C13(34) #2	17.09	7464596	0.08268	ng
Spiked Amount 0.0800		Recovery	=	103.35%
34) s C16(152) #2	24.24	10470481m	0.07421	ng
Spiked Amount 0.0803		Recovery	=	92.39%
Target Compounds				
2) C12(8)	11.88	6353824	0.07386	ng
3) C13(18)	13.86	7587828	0.07315	ng
5) C13(28)	15.99	17326552	0.08774	ng
6) C14(52)	17.63	11559813	0.07959	ng
7) C14(44)	18.52	17034212	0.08635	ng
8) C14(66)	20.45	21609011	0.09012	ng
9) C15(101)	21.57	17634358	0.08614	ng
12) C15(118)	24.28	22329154	0.08172	ng
13) C16(153)	25.30	20746630m	0.07141	ng
14) C15(105)	25.37	31270190	0.08468	ng
15) C16(138)	26.38	27289675	0.07834	ng
16) C17(187)	27.00	23750209	0.07586	ng
17) C16(128)	27.26	29102245	0.07347	ng
18) C17(180)	28.49	27775558m	0.07359	ng
19) C17(170)	29.19	30280452m	0.07334	ng
20) C18(195)	30.19	26895664m	0.07044	ng
21) C19(206)	31.38	24039028m	0.06452	ng
22) C110(209)	31.95	18938896m	0.06073	ng
25) C12(8) #2	13.71	4638965	0.07662	ng
26) C13(18) #2	15.60	5288802	0.07891	ng
28) C13(28) #2	18.39	12366091	0.08871	ng
29) C14(52) #2	19.74	10278289m	0.07617	ng
30) C14(44) #2	20.59	8569479m	0.08637	ng
31) C14(66) #2	23.00	12336150	0.08511	ng
32) C15(101) #2	23.85	22524021m	0.07929	ng
35) C15(118) #2	26.86	11445855	0.07878	ng
36) C16(153) #2	27.41	11555864	0.07811	ng
37) C15(105) #2	27.67	16864135	0.07868	ng
38) C16(138) #2	28.21	8368022m	0.06618	ng
39) C17(187) #2	28.55	12904835	0.07797	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1145.D MX0038.M Tue Aug 19 11:51:08 2014

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Signal #1 : I:\X\DATA\SX0038\X1145.D\ECD1A.CH Vial: 63
Signal #2 : I:\X\DATA\SX0038\X1145.D\ECD2B.CH
Acq On : 8-16-2014 09:10:31 AM Operator: LMG
Sample : HX30 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 08:47:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:47:24 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	18554923	0.07784	ng
41)	Cl7(180) #2	29.95	16423418	0.07707	ng
42)	Cl7(170) #2	30.57	18539426m	0.07693	ng
43)	Cl8(195) #2	31.43	16803676m	0.07534	ng
44)	Cl9(206) #2	32.51	14864226m	0.07350	ng
45)	Cl10(209) #2	32.95	10995479m	0.07080	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1145.D MX0038.M Tue Aug 19 11:51:08 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1149.D\ECD1A.CH Vial: 100
 Signal #2 : I:\X\DATA\SX0038\X1149.D\ECD2B.CH
 Acq On : 16 Aug 2014 12:14 pm Operator: LMG
 Sample : HX30 mid Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 08:47:38 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:47:31 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.23	12327592	0.10000	ng
10) I C16(161)	25.11	31913931	0.10000	ng
24) I C15(96) #2	21.16	6900577m	0.10000	ng
33) I C16(161) #2	27.27	18242463	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.16	8896427m	0.08243	ng
Spiked Amount 0.0800		Recovery	=	103.04%
11) s C16(152)	22.36	13071555	0.07915	ng
Spiked Amount 0.0803		Recovery	=	98.54%
27) s C13(34) #2	17.09	5467281	0.08139	ng
Spiked Amount 0.0800		Recovery	=	101.74%
34) s C16(152) #2	24.24	7798051m	0.07446	ng
Spiked Amount 0.0803		Recovery	=	92.70%
Target Compounds				
2) C12(8)	11.88	5250595	0.07461	ng
3) C13(18)	13.86	6334203	0.07472	ng
5) C13(28)	15.99	14230401	0.08803	ng
6) C14(52)	17.63	9681922	0.08156	ng
7) C14(44)	18.52	14210678	0.08806	ng
8) C14(66)	20.45	17475178	0.08900	ng
9) C15(101)	21.57	14564978	0.08693	ng
12) C15(118)	24.28	17974106	0.08095	ng
13) C16(153)	25.29	17275192m	0.07329	ng
14) C15(105)	25.37	24997335	0.08333	ng
15) C16(138)	26.38	21734448	0.07676	ng
16) C17(187)	27.00	18988332	0.07461	ng
17) C16(128)	27.26	24002513	0.07464	ng
18) C17(180)	28.49	21855998	0.07121	ng
19) C17(170)	29.20	23821884	0.07096	ng
20) C18(195)	30.19	21068297	0.06786	ng
21) C19(206)	31.38	18669389m	0.06159	ng
22) C110(209)	31.95	14720000m	0.05799	ng
25) C12(8) #2	13.71	3476489	0.07719	ng
26) C13(18) #2	15.60	3962197	0.07948	ng
28) C13(28) #2	18.39	8813348	0.08519	ng
29) C14(52) #2	19.74	7908430m	0.07855	ng
30) C14(44) #2	20.59	6578277m	0.08905	ng
31) C14(66) #2	23.00	8984754	0.08335	ng
32) C15(101) #2	23.85	15679992m	0.07447	ng
35) C15(118) #2	26.86	8532326	0.07911	ng
36) C16(153) #2	27.41	8716974	0.07930	ng
37) C15(105) #2	27.67	12687023	0.07963	ng
38) C16(138) #2	28.21	6772718m	0.07135	ng
39) C17(187) #2	28.54	9786862	0.07952	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1149.D MX0038.M Tue Aug 19 11:51:22 2014

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Signal #1 : I:\X\DATA\SX0038\X1149.D\ECD1A.CH Vial: 100
Signal #2 : I:\X\DATA\SX0038\X1149.D\ECD2B.CH
Acq On : 16 Aug 2014 12:14 pm Operator: LMG
Sample : HX30 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 08:47:38 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:47:31 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	14107189	0.07953	ng
41)	Cl7(180) #2	29.95	12547738	0.07909	ng
42)	Cl7(170) #2	30.57	14270559	0.07944	ng
43)	Cl8(195) #2	31.43	13080679m	0.07858	ng
44)	Cl9(206) #2	32.51	11752673m	0.07772	ng
45)	Cl10(209) #2	32.95	8775205m	0.07562	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1149.D MX0038.M Tue Aug 19 11:51:22 2014 046776CFS

Data File : I:\X\DATA\SX0038\X1151.D\ECD1A.CH Vial: 2
Acq On : 8-17-2014 02:13:01 PM Operator: LMG
Sample : HX29 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile : events.e

Data File : I:\X\DATA\SX0038\X1151.D\ECD2B.CH Vial: 2
Acq On : 8-17-2014 02:12:59 PM Operator: LMG
Sample : HX29 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile : events2.e

Quant Time: Aug 19 07:53:20 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)

Title : NBH

Last Update : Sun Aug 17 08:47:36 2014

Response via : Initial Calibration

DataAcq Meth : 5-128S.M

RIS/SIS Mult : NA

Volume Inj. :

Signal #1 Phase : Signal #2 Phase:

Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
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Internal Standards

1) I	Cl5(96)	19.24	10882875	0.10000 ng
10) I	Cl6(161)	25.12	27406540	0.10000 ng
24) I	Cl5(96) #2	21.16	6002857	0.10000 ng
33) I	Cl6(161) #2	27.27	16180439	0.10000 ng

System Monitoring Compounds

4) s	Cl3(34)	15.17	4053367	0.04058 ng
Spiked Amount	0.0400		Recovery	= 101.45%
11) s	Cl6(152)	22.37	5871106	0.04024 ng
Spiked Amount	0.0402		Recovery	= 100.20%
27) s	Cl3(34) #2	17.09	2391027	0.03989 ng
Spiked Amount	0.0400		Recovery	= 99.73%
34) s	Cl6(152) #2	24.24	3717589m	0.04114 ng
Spiked Amount	0.0402		Recovery	= 102.44%

Target Compounds

2)	Cl2(8)	11.88	2511933	0.03863 ng
3)	Cl3(18)	13.86	3007904	0.03826 ng
5)	Cl3(28)	16.00	6286787	0.04295 ng
6)	Cl4(52)	17.64	4491840	0.04058 ng
7)	Cl4(44)	18.53	6582409	0.04477 ng
8)	Cl4(66)	20.45	7758434	0.04377 ng
9)	Cl5(101)	21.57	6688606	0.04378 ng
12)	Cl5(118)	24.29	8115519m	0.04160 ng
13)	Cl6(153)	25.29	8242986m	0.03998 ng
14)	Cl5(105)	25.38	10596849m	0.04105 ng
15)	Cl6(138)	26.39	9852055	0.03967 ng
16)	Cl7(187)	27.00	8743094	0.03893 ng
17)	Cl6(128)	27.27	11160831	0.03973 ng
18)	Cl7(180)	28.49	9971927	0.03720 ng
19)	Cl7(170)	29.20	10814370	0.03690 ng
20)	Cl8(195)	30.19	9643190	0.03544 ng
21)	Cl9(206)	31.38	8892454m	0.03343 ng
22)	Cl10(209)	31.96	7211373m	0.03223 ng
25)	Cl2(8) #2	13.71	1564325	0.03880 ng
26)	Cl3(18) #2	15.60	1796453	0.04009 ng
28)	Cl3(28) #2	18.39	3688815	0.04187 ng
29)	Cl4(52) #2	19.75	3014379m	0.03616 ng
30)	Cl4(44) #2	20.60	2697667m	0.04061 ng
31)	Cl4(66) #2	23.00	3797185	0.04042 ng
32)	Cl5(101) #2	23.85	6769045m	0.03821 ng

(f)=RT Delta > 1/2 Window

(E) = > 2 * high standard response

(T) = Match R.T.

(*) = Not Verified to LIMS

(m)=manual int.

(e) = > 1 * high standard response

(TW) = Near Match R.T.

X1151.D MX0038.M Wed Aug 20 10:52:34 2014

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Page 1

Data File : I:\X\DATA\SX0038\X1151.D\ECD1A.CH Vial: 2
Acq On : 8-17-2014 02:13:01 PM Operator: LMG
Sample : HX29 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile : events.e

Data File : I:\X\DATA\SX0038\X1151.D\ECD2B.CH Vial: 2
Acq On : 8-17-2014 02:12:59 PM Operator: LMG
Sample : HX29 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile : events2.e

Quant Time: Aug 19 07:53:20 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)

Title : NBH

Last Update : Sun Aug 17 08:47:36 2014

Response via : Initial Calibration

DataAcq Meth : 5-128S.M

RIS/SIS Mult : NA

Volume Inj. :

Signal #1 Phase : Signal #2 Phase:

Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
35)	Cl5(118) #2	26.87	3547908	0.03851	ng
36)	Cl6(153) #2	27.41	3683796	0.03920	ng
37)	Cl5(105) #2	27.67	5167684	0.03925	ng
38)	Cl6(138) #2	28.21	2985692m	0.03821	ng
39)	Cl7(187) #2	28.55	4094268	0.03939	ng
40)	Cl6(128) #2	28.95	5646400	0.03824	ng
41)	Cl7(180) #2	29.95	5069740	0.03840	ng
42)	Cl7(170) #2	30.57	5741252m	0.03865	ng
43)	Cl8(195) #2	31.43	5323929m	0.03853	ng
44)	Cl9(206) #2	32.51	4853132m	0.03863	ng
45)	Cl10(209) #2	32.95	3758559m	0.03821	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1151.D MX0038.M Wed Aug 20 10:52:34 2014

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Signal #1 : I:\X\DATA\SX0038\X1167.D\ECD1A.CH Vial: 18
 Signal #2 : I:\X\DATA\SX0038\X1167.D\ECD2B.CH
 Acq On : 8-18-2014 06:11:52 PM Operator: LMG
 Sample : HX30 mid Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:54:40 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:54:34 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	11109971	0.10000	ng
10) I C16(161)	25.11	26259483	0.10000	ng
24) I C15(96) #2	21.16	6285688m	0.10000	ng
33) I C16(161) #2	27.27	15572149	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.16	7685223	0.07878	ng
Spiked Amount 0.0800		Recovery	= 98.47%	
11) s C16(152)	22.36	11301831	0.08339	ng
Spiked Amount 0.0803		Recovery	= 103.82%	
27) s C13(34) #2	17.09	5085850	0.08313	ng
Spiked Amount 0.0800		Recovery	= 103.91%	
34) s C16(152) #2	24.25	6633884m	0.07423	ng
Spiked Amount 0.0803		Recovery	= 92.42%	
Target Compounds				
2) C12(8)	11.88	4676272	0.07366	ng
3) C13(18)	13.86	5727339	0.07499	ng
5) C13(28)	15.99	11914359	0.08157	ng
6) C14(52)	17.63	8614514	0.08045	ng
7) C14(44)	18.52	11890348	0.08152	ng
8) C14(66)	20.45	14482835	0.08168	ng
9) C15(101)	21.57	12669738	0.08380	ng
12) C15(118)	24.28	15231830	0.08348	ng
13) C16(153)	25.30	15147885m	0.07838	ng
14) C15(105)	25.37	19422725m	0.07864	ng
15) C16(138)	26.38	18109444	0.07776	ng
16) C17(187)	27.00	16334247	0.07817	ng
17) C16(128)	27.26	19768630	0.07471	ng
18) C17(180)	28.49	18200176m	0.07210	ng
19) C17(170)	29.20	19430535m	0.07033	ng
20) C18(195)	30.19	17430280m	0.06824	ng
21) C19(206)	31.38	15706216m	0.06302	ng
22) C110(209)	31.95	12622433m	0.06055	ng
25) C12(8) #2	13.71	3305427	0.08068	ng
26) C13(18) #2	15.60	3792046	0.08362	ng
28) C13(28) #2	18.39	7922896	0.08414	ng
29) C14(52) #2	19.74	7506795m	0.08158	ng
30) C14(44) #2	20.59	5467658m	0.08139	ng
31) C14(66) #2	23.00	7740575	0.07892	ng
32) C15(101) #2	23.85	16536340m	0.08550	ng
35) C15(118) #2	26.86	7054098	0.07684	ng
36) C16(153) #2	27.41	7311424	0.07803	ng
37) C15(105) #2	27.67	11041483	0.08098	ng
38) C16(138) #2	28.21	6845921m	0.08244	ng
39) C17(187) #2	28.55	8337729	0.07937	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1167.D MX0038.M Tue Aug 19 11:51:58 2014

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Signal #1 : I:\X\DATA\SX0038\X1167.D\ECD1A.CH Vial: 18
Signal #2 : I:\X\DATA\SX0038\X1167.D\ECD2B.CH
Acq On : 8-18-2014 06:11:52 PM Operator: LMG
Sample : HX30 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:54:40 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:54:34 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	11807706	0.07816	ng
41)	Cl7(180) #2	29.95	10600681	0.07837	ng
42)	Cl7(170) #2	30.57	12268519	0.07994	ng
43)	Cl8(195) #2	31.43	11499151	0.08063	ng
44)	Cl9(206) #2	32.51	10786511	0.08279	ng
45)	Cl10(209) #2	32.95	8246112	0.08243	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1167.D MX0038.M Tue Aug 19 11:51:58 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1171.D\ECD1A.CH Vial: 4
 Signal #2 : I:\X\DATA\SX0038\X1171.D\ECD2B.CH
 Acq On : 19 Aug 2014 12:48 pm Operator: LMG
 Sample : HX29 mid Inst : INST. X
 Misc : Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 13:42:37 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 13:42:29 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	9622532	0.10000	ng
10) I C16(161)	25.11	24134421	0.10000	ng
24) I C15(96) #2	21.16	6304494	0.10000	ng
33) I C16(161) #2	27.27	16652104	0.10000	ng
System Monitoring Compounds				
4) s C13(34)	15.16	3649523	0.04138	ng
Spiked Amount 0.0400		Recovery	=	103.45%
11) s C16(152)	22.36	5369199	0.04185	ng
Spiked Amount 0.0402		Recovery	=	104.21%
27) s C13(34) #2	17.09	2464694	0.03909	ng
Spiked Amount 0.0400		Recovery	=	97.72%
34) s C16(152) #2	24.24	3624160m	0.03898	ng
Spiked Amount 0.0402		Recovery	=	97.06%
Target Compounds				
2) C12(8)	11.88	2273210	0.03960	ng
3) C13(18)	13.86	2786471	0.04022	ng
5) C13(28)	16.00	5552362	0.04290	ng
6) C14(52)	17.64	4137883	0.04245	ng
7) C14(44)	18.52	5713181	0.04390	ng
8) C14(66)	20.45	6829969	0.04357	ng
9) C15(101)	21.57	6110368	0.04534	ng
12) C15(118)	24.28	7312686	0.04260	ng
13) C16(153)	25.29	7216642m	0.03975	ng
14) C15(105)	25.37	9312180m	0.04096	ng
15) C16(138)	26.39	8786563	0.04019	ng
16) C17(187)	27.00	7995520	0.04050	ng
17) C16(128)	27.26	9781754	0.03954	ng
18) C17(180)	28.49	8926507	0.03783	ng
19) C17(170)	29.20	9656862	0.03743	ng
20) C18(195)	30.19	8604791m	0.03593	ng
21) C19(206)	31.38	7828341m	0.03342	ng
22) C110(209)	31.95	6367439m	0.03232	ng
25) C12(8) #2	13.71	1642698	0.03879	ng
26) C13(18) #2	15.60	1893970	0.04025	ng
28) C13(28) #2	18.39	3798326	0.04105	ng
29) C14(52) #2	19.74	3614313m	0.04104	ng
30) C14(44) #2	20.60	2612455m	0.03703	ng
31) C14(66) #2	23.00	3850861	0.03899	ng
32) C15(101) #2	23.85	6820459m	0.03672	ng
35) C15(118) #2	26.87	3515496	0.03709	ng
36) C16(153) #2	27.41	3715248	0.03843	ng
37) C15(105) #2	27.68	5334812	0.03937	ng
38) C16(138) #2	28.21	2987544m	0.03724	ng
39) C17(187) #2	28.55	4141081	0.03874	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1171.D MX0038.M Tue Aug 19 13:52:35 2014

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Signal #1 : I:\X\DATA\SX0038\X1171.D\ECD1A.CH Vial: 4
Signal #2 : I:\X\DATA\SX0038\X1171.D\ECD2B.CH
Acq On : 19 Aug 2014 12:48 pm Operator: LMG
Sample : HX29 mid Inst : INST. X
Misc : Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 13:42:37 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 13:42:29 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	5784630	0.03808	ng
41)	Cl7(180) #2	29.95	5199791	0.03827	ng
42)	Cl7(170) #2	30.57	5911918m	0.03867	ng
43)	Cl8(195) #2	31.43	5551998m	0.03901	ng
44)	Cl9(206) #2	32.51	5135584m	0.03966	ng
45)	Cl10(209) #2	32.95	3996631m	0.03944	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1171.D MX0038.M Tue Aug 19 13:52:35 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1095.D\ECD1A.CH Vial: 13
 Signal #2 : I:\X\DATA\SX0038\X1095.D\ECD2B.CH
 Acq On : 8-14-2014 04:59:13 PM Operator: LMG
 Sample : CC816LCSD-P(3) Inst : INST. X
 Misc : Laboratory Control Sample Duplicate 5-12 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:12:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:47:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	

Internal Standards					
1) I C15(96)	19.24	9438716m	100.00000	ng	
10) I C16(161)	25.11	25413229	100.00000	ng	
24) I C15(96) #2	21.16	3962898	100.00000	ng	
33) I C16(161) #2	27.27	10029866	100.00000	ng	
System Monitoring Compounds					
4) s C13(34)	15.16	12297244	156.15289	ng	78%
Spiked Amount	200.0000	Recovery	=	78.08%	
11) s C16(152)	22.36	20958168	167.28662	ng	83%
Spiked Amount	200.8000	Recovery	=	83.31%	
27) s C13(34) #2	17.09	6492287	165.11210	ng	83%
Spiked Amount	200.0000	Recovery	=	82.56%	
34) s C16(152) #2	24.26	10883622m	167.41661	ng	83%
Spiked Amount	200.8000	Recovery	=	83.37%	
Target Compounds					
2) C12(8)	11.88	909230m	15.03629	ng	79%
3) C13(18)	13.85	1152122m	15.69056	ng	82%
5) C13(28)	15.98	2146168m	16.00111	ng	84%
6) C14(52)	17.63	1835750	17.10293	ng	89%
7) C14(44)	18.52	2295465	16.36428	ng	86%
8) C14(66)	20.45	2870527	17.55155	ng	92%
9) C15(101)	21.57	2250010	15.12160	ng	79%
12) C15(118)	24.28	3189873	17.14053	ng	90%
13) C16(153)	25.32	2974375	15.71598	ng	82%
14) C15(105)	25.37	4299143	18.17369	ng	95%
15) C16(138)	26.38	4007218	16.87631	ng	88%
16) C17(187)	27.00	3709824	17.07488	ng	89%
17) C16(128)	27.26	4726986	17.75827	ng	93%
18) C17(180)	28.49	4231466	16.70588	ng	87%
19) C17(170)	29.20	4899984	17.71922	ng	93%
20) C18(195)	30.18	4099919m	15.68256	ng	82%
21) C19(206)	31.38	4334822	17.04725	ng	89%
22) C110(209)	31.96	3638976m	16.89130	ng	87%
25) C12(8) #2	13.71	478312	16.71131	ng	87%
26) C13(18) #2	15.60	545856m	16.70030	ng	87%
28) C13(28) #2	18.39	1083993	18.11127	ng	95%
29) C14(52) #2	19.77	772640	14.38547	ng	75%
30) C14(44) #2	20.59	976382	19.38021	ng	101%
31) C14(66) #2	23.01	1164179m	17.94431	ng	94%
32) C15(101) #2	23.86	1969654m	17.46977	ng	91%
35) C15(118) #2	26.86	823941m	13.55913	ng	71%
36) C16(153) #2	27.41	982785	16.52613	ng	86%
37) C15(105) #2	27.67	1398492	17.38226	ng	91%
38) C16(138) #2	28.22	980417m	20.96638	ng	110%
39) C17(187) #2	28.55	1134591m	17.55747	ng	92%

(f)=RT Delta > 1/2 Window

(m)=manual int.-----

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1095.D MX0038.M Tue Aug 19 13:39:17 2014

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Signal #1 : I:\X\DATA\SX0038\X1095.D\ECD1A.CH Vial: 13
Signal #2 : I:\X\DATA\SX0038\X1095.D\ECD2B.CH
Acq On : 8-14-2014 04:59:13 PM Operator: LMG
Sample : CC816LCSD-P(3) Inst : INST. X
Misc : Laboratory Control Sample Duplicate 5-12 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:12:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:47:36 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units	
40)	Cl6(128) #2	28.95	1530374	16.79175	ng	88%
41)	Cl7(180) #2	29.95	1318772m	16.25518	ng	85%
42)	Cl7(170) #2	30.57	1550640m	17.12232	ng	90%
43)	Cl8(195) #2	31.43	1444166m	16.99155	ng	89%
44)	Cl9(206) #2	32.51	1297550m	16.72146	ng	87%
45)	Cl10(209) #2	32.95	1048040m	16.98726	ng	87%

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1095.D MX0038.M Tue Aug 19 13:39:17 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1097.D\ECD1A.CH Vial: 15
 Signal #2 : I:\X\DATA\SX0038\X1097.D\ECD2B.CH
 Acq On : 8-14-2014 06:30:53 PM Operator: LMG
 Sample : M4556-P-D(6) Inst : INST. X
 Misc : S-14L-OH2-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:12:36 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:12:30 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	15789022	90.00000	ng
10) I C16(161)	25.10	19663049m	90.00000	ng
24) I C15(96) #2	21.16	8538911m	90.00000	ng
33) I C16(161) #2	27.28	8779172	90.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount	9.0001	Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount	9.0361	Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount	9.0001	Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount	9.0361	Recovery	=	0.00%
Target Compounds				
2) C12(8)	11.88	E	117033032	BelowCal ng
3) C13(18)	13.86	E	301158539	BelowCal ng
5) C13(28)	15.99	E	988097574	BelowCal ng
6) C14(52)	17.64	E	851306541	BelowCal ng
7) C14(44)	18.53	E	240239883	1196.93135 ng
8) C14(66)	20.41	e	59494027	216.14483 ng
9) C15(101)	21.57	E	137365564	589.73838 ng
12) C15(118)	24.28	e	74278794m	698.02107 ng
13) C16(153)	25.32	E	192367695m	BelowCal ng
14) C15(105)	25.37		6480991m	31.52486 ng
15) C16(138)	26.37	e	121648575	982.60752 ng
16) C17(187)	27.00		38971954	245.50176 ng
17) C16(128)	27.27		9313773	41.75491 ng
18) C17(180)	28.49		22576213	109.69241 ng
19) C17(170)	29.20		16538879	72.24681 ng
20) C18(195)	30.19		3881823m	17.46805 ng
21) C19(206)	31.38		4751568	22.13157 ng
22) C110(209)	31.96		1230323m	6.01880 ng
25) C12(8) #2	13.71	E	139908820	2314.09107 ng
26) C13(18) #2	15.61	E	399395451	3634.22782 ng
28) C13(28) #2	18.40	E	666403111	1726.60310 ng
29) C14(52) #2	19.78	E	1007895366	2057.56591 ng
30) C14(44) #2	20.59	E	219998049	1023.22360 ng
31) C14(66) #2	22.96	E	159008834	779.30598 ng
32) C15(101) #2	23.86	e	89340445	267.40908 ng
35) C15(118) #2	26.87	e	43697892	455.09212 ng
36) C16(153) #2	27.41	E	107511953	844.64966 ng
37) C15(105) #2	27.68		2832332m	35.66408 ng
38) C16(138) #2	28.26	e	48796633m	471.49460 ng
39) C17(187) #2	28.55		16502289	204.95274 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1097.D MX0038.M Tue Aug 19 11:49:52 2014

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Signal #1 : I:\X\DATA\SX0038\X1097.D\ECD1A.CH Vial: 15
Signal #2 : I:\X\DATA\SX0038\X1097.D\ECD2B.CH
Acq On : 8-14-2014 06:30:53 PM Operator: LMG
Sample : M4556-P-D(6) Inst : INST. X
Misc : S-14L-OH2-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:12:36 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:12:30 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	3928765m	43.54241	ng
41)	Cl7(180) #2	29.95	10078732m	110.49233	ng
42)	Cl7(170) #2	30.57	5357496	57.36132	ng
43)	Cl8(195) #2	31.43	1476962m	17.93364	ng
44)	Cl9(206) #2	32.51	2211506m	29.39542	ng
45)	Cl10(209) #2	32.95	430838m	6.52196	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1097.D MX0038.M Tue Aug 19 11:49:52 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1098.D\ECD1A.CH Vial: 16
 Signal #2 : I:\X\DATA\SX0038\X1098.D\ECD2B.CH
 Acq On : 8-14-2014 07:16:46 PM Operator: LMG
 Sample : M4556-P-D(7) Inst : INST. X
 Misc : S-14L-OH2-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:12:40 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:12:35 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	11002147m	100.00000	ng
10) I Cl6(161)	25.11	28483248m	100.00000	ng
24) I Cl5(96) #2	21.16	4641425	100.00000	ng
33) I Cl6(161) #2	27.27	9701922	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	1.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	1.0040	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	1.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	1.0040	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.88	13473074m	255.48818	ng
3) Cl3(18)	13.86	E 34489230m	BelowCal	ng
5) Cl3(28)	15.98	e 67631910m	525.65681	ng
6) Cl4(52)	17.64	E 105561203	BelowCal	ng
7) Cl4(44)	18.52	28699664	204.61276	ng
8) Cl4(66)	20.50	35929795m	207.81813	ng
9) Cl5(101)	21.57	17198246	115.95868	ng
12) Cl5(118)	24.28	8755052m	43.23151	ng
13) Cl6(153)	25.31	24984647m	123.30908	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	26.37	15696649	61.65114	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.71	9788646	330.44716	ng
26) Cl3(18) #2	15.61	e 27767415	769.68207	ng
28) Cl3(28) #2	18.39	e 46430649	488.69269	ng
29) Cl4(52) #2	19.77	E 78134941	681.52652	ng
30) Cl4(44) #2	20.59	14693592	258.65725	ng
31) Cl4(66) #2	22.96	11133827	149.98490	ng
32) Cl5(101) #2	23.86	6901238	49.76947	ng
35) Cl5(118) #2	26.86	3445121	61.33983	ng
36) Cl6(153) #2	27.41	7653883	124.09475	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	28.26	3704857m	73.10365	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1098.D MX0038.M Tue Aug 19 11:49:53 2014

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Signal #1 : I:\X\DATA\SX0038\X1098.D\ECD1A.CH Vial: 16
Signal #2 : I:\X\DATA\SX0038\X1098.D\ECD2B.CH
Acq On : 8-14-2014 07:16:46 PM Operator: LMG
Sample : M4556-P-D(7) Inst : INST. X
Misc : S-14L-OH2-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:12:40 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:12:35 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1098.D MX0038.M Tue Aug 19 11:49:53 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1100.D\ECD1A.CH Vial: 18
 Signal #2 : I:\X\DATA\SX0038\X1100.D\ECD2B.CH
 Acq On : 8-14-2014 08:48:30 PM Operator: LMG
 Sample : M4557-P-D(6) Inst : INST. X
 Misc : S-14L-OG5-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:12:49 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:12:43 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.23	13733371	80.00000	ng
10) I C16(161)	25.11	26973974m	80.00000	ng
24) I C15(96) #2	21.16	4862805m	80.00000	ng
33) I C16(161) #2	27.27	8161656	80.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
Target Compounds				
2) C12(8)	11.87	E	38826457	BelowCal ng
3) C13(18)	13.86	E	102843239	BelowCal ng
5) C13(28)	15.98	E	401363508	BelowCal ng
6) C14(52)	17.63	E	332690951	BelowCal ng
7) C14(44)	18.52	E	109033107	521.88775 ng
8) C14(66)	20.49	E	131790557m	493.50565 ng
9) C15(101)	21.56	e	69335601	304.13219 ng
12) C15(118)	24.28		40206600m	183.77683 ng
13) C16(153)	25.31	e	86649593m	BelowCal ng
14) C15(105)	25.36		3346630m	10.76515 ng
15) C16(138)	26.37		52402750	186.43678 ng
16) C17(187)	27.00		16588034	61.78971 ng
17) C16(128)	27.26		3585109	10.02448 ng
18) C17(180)	28.49		9866947m	29.92625 ng
19) C17(170)	29.20		7229847	19.87056 ng
20) C18(195)	30.18		1699079m	4.45171 ng
21) C19(206)	31.38		2131085m	5.90851 ng
22) C110(209)	31.95		589212m	1.25176 ng
25) C12(8) #2	13.71	E	29220936	755.73827 ng
26) C13(18) #2	15.60	E	84880067	1534.20313 ng
28) C13(28) #2	18.39	E	167997404	924.68088 ng
29) C14(52) #2	19.77	E	252006795	1124.80174 ng
30) C14(44) #2	20.59	E	58071414	552.35327 ng
31) C14(66) #2	22.96	e	38895907	352.24402 ng
32) C15(101) #2	23.85		26045717m	131.88671 ng
35) C15(118) #2	26.86		15534728	203.69957 ng
36) C16(153) #2	27.41		29593184	332.47729 ng
37) C15(105) #2	27.67		820017	9.88890 ng
38) C16(138) #2	28.26		13271615m	183.65460 ng
39) C17(187) #2	28.55		4771035	68.70184 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1100.D\ECD1A.CH Vial: 18
Signal #2 : I:\X\DATA\SX0038\X1100.D\ECD2B.CH
Acq On : 8-14-2014 08:48:30 PM Operator: LMG
Sample : M4557-P-D(6) Inst : INST. X
Misc : S-14L-OG5-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:12:49 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:12:43 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	1096546m	11.76374	ng
41)	Cl7(180) #2	29.95	3134708m	37.23059	ng
42)	Cl7(170) #2	30.57	1792961	19.46258	ng
43)	Cl8(195) #2	31.43	463226m	4.88892	ng
44)	Cl9(206) #2	32.51	762558m	9.45967	ng
45)	Cl10(209) #2	32.95	157925m	1.49493	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1100.D MX0038.M Tue Aug 19 11:49:54 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1102.D\ECD1A.CH Vial: 20
 Signal #2 : I:\X\DATA\SX0038\X1102.D\ECD2B.CH
 Acq On : 14 Aug 2014 10:20 pm Operator: LMG
 Sample : M4557-P-D(7) Inst : INST. X
 Misc : S-14L-OG5-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:12:53 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:12:48 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	9615448m	100.00000	ng
10) I Cl6(161)	25.11	25841735m	100.00000	ng
24) I Cl5(96) #2	21.16	5043579m	100.00000	ng
33) I Cl6(161) #2	27.27	11583853m	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.87	7292865	141.88195	ng
3) Cl3(18)	13.85	e 18475504	380.28038	ng
5) Cl3(28)	15.97	37271439m	314.59611	ng
6) Cl4(52)	17.63	E 60004938	968.38450	ng
7) Cl4(44)	18.52	19276429	155.99751	ng
8) Cl4(66)	20.49	24251382	159.98157	ng
9) Cl5(101)	21.56	12932409	99.36539	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	25.31	16741155m	88.67472	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.71	5788329	178.81009	ng
26) Cl3(18) #2	15.60	e 16209599	434.17515	ng
28) Cl3(28) #2	18.39	31949538	343.59881	ng
29) Cl4(52) #2	19.77	e 51108057	476.59202	ng
30) Cl4(44) #2	20.59	11986210	203.98631	ng
31) Cl4(66) #2	22.96	8732329	109.95066	ng
32) Cl5(101) #2	23.85	6037054m	40.45077	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	27.41	6742823	94.85275	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1102.D\ECD1A.CH Vial: 20
Signal #2 : I:\X\DATA\SX0038\X1102.D\ECD2B.CH
Acq On : 14 Aug 2014 10:20 pm Operator: LMG
Sample : M4557-P-D(7) Inst : INST. X
Misc : S-14L-OG5-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:12:53 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:12:48 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1102.D MX0038.M Tue Aug 19 11:49:57 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1104.D\ECD1A.CH Vial: 22
 Signal #2 : I:\X\DATA\SX0038\X1104.D\ECD2B.CH
 Acq On : 14 Aug 2014 11:53 pm Operator: LMG
 Sample : M4558-P-D(5) Inst : INST. X
 Misc : S-14L-OI5-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:02 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:12:57 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.23	12138673m	100.00000	ng
10) I C16(161)	25.10	30874563m	100.00000	ng
24) I C15(96) #2	21.16	4302194	100.00000	ng
33) I C16(161) #2	27.27	9340646m	100.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount	4.0000	Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount	4.0160	Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount	4.0000	Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount	4.0160	Recovery	=	0.00%
Target Compounds				
2) C12(8)	11.87	10573391m	166.82095	ng
3) C13(18)	13.85	e 26080838	475.99939	ng
5) C13(28)	15.97	e 53429357m	361.37782	ng
6) C14(52)	17.63	E 85955032	1383.84669	ng
7) C14(44)	18.52	27650051	177.93787	ng
8) C14(66)	20.49	33640782	176.01130	ng
9) C15(101)	21.56	18509978	113.04706	ng
12) C15(118)	24.27	9843814	44.89475	ng
13) C16(153)	25.31	23026335m	103.20200	ng
14) C15(105)	25.37	522730m	2.28640	ng
15) C16(138)	26.36	12879061	46.24775	ng
16) C17(187)	26.99	4627242	17.56245	ng
17) C16(128)	27.26	803091	2.05855	ng
18) C17(180)	28.48	2448707	7.74395	ng
19) C17(170)	29.20	1762635	4.96138	ng
20) C18(195)	30.18	507725	0.79441	ng
21) C19(206)	31.38	631333	1.24001	ng
22) C110(209)	31.95	187006	BelowCal	ng
25) C12(8) #2	13.70	6399619	232.43066	ng
26) C13(18) #2	15.60	e 16655618	516.82613	ng
28) C13(28) #2	18.39	31328394	383.40816	ng
29) C14(52) #2	19.77	e 50865024	532.54798	ng
30) C14(44) #2	20.59	11618800	227.05153	ng
31) C14(66) #2	22.96	8143325	119.77638	ng
32) C15(101) #2	23.85	6075522m	47.37942	ng
35) C15(118) #2	26.86	3560206	65.53688	ng
36) C16(153) #2	27.41	6818068	115.95845	ng
37) C15(105) #2	27.67	219885	2.09349	ng
38) C16(138) #2	28.26	2915612m	61.35334	ng
39) C17(187) #2	28.54	1306041	21.84958	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1104.D\ECD1A.CH Vial: 22
 Signal #2 : I:\X\DATA\SX0038\X1104.D\ECD2B.CH
 Acq On : 14 Aug 2014 11:53 pm Operator: LMG
 Sample : M4558-P-D(5) Inst : INST. X
 Misc : S-14L-OI5-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:02 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:12:57 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	260012m	2.13116	ng
41)	Cl7(180) #2	29.95	782645m	10.11395	ng
42)	Cl7(170) #2	30.57	426296	4.53655	ng
43)	Cl8(195) #2	31.43	140565m	0.71427	ng
44)	Cl9(206) #2	32.51	202096m	1.69457	ng
45)	Cl10(209) #2	32.95	55474m	BelowCal	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
 X1104.D MX0038.M Tue Aug 19 11:50:20 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1106.D\ECD1A.CH Vial: 24
 Signal #2 : I:\X\DATA\SX0038\X1106.D\ECD2B.CH
 Acq On : 8-15-2014 01:25:40 AM Operator: LMG
 Sample : M4559-P-D(6) Inst : INST. X
 Misc : S-14L-OH10-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:09 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:05 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	13411701	80.00000	ng
10) I Cl6(161)	25.10	23197155	80.00000	ng
24) I Cl5(96) #2	21.16	6127231m	80.00000	ng
33) I Cl6(161) #2	27.27	9281712	80.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.87	E	51665146	BelowCal ng
3) Cl3(18)	13.85	E	137915407	BelowCal ng
5) Cl3(28)	15.98	E	513814966	BelowCal ng
6) Cl4(52)	17.63	E	481099225	BelowCal ng
7) Cl4(44)	18.52	E	145748615	731.59759 ng
8) Cl4(66)	20.49	E	196356210m	756.12803 ng
9) Cl5(101)	21.56	E	116856425	524.99018 ng
12) Cl5(118)	24.28	e	72370187	455.51570 ng
13) Cl6(153)	25.31	E	142658743	BelowCal ng
14) Cl5(105)	25.36		5971351m	21.94405 ng
15) Cl6(138)	26.37	e	77110823	344.75895 ng
16) Cl7(187)	27.00		23379333	104.03615 ng
17) Cl6(128)	27.26		5790896	19.23752 ng
18) Cl7(180)	28.49		14275901	51.02862 ng
19) Cl7(170)	29.20		9949426	32.14661 ng
20) Cl8(195)	30.18		2391428m	7.74729 ng
21) Cl9(206)	31.38		3033902m	10.27326 ng
22) Cl10(209)	31.95		900194	2.95664 ng
25) Cl2(8) #2	13.70	E	50923698	1045.18387 ng
26) Cl3(18) #2	15.60	E	149307516	1994.48812 ng
28) Cl3(28) #2	18.39	E	280292605	1105.86306 ng
29) Cl4(52) #2	19.77	E	494789312	1466.99376 ng
30) Cl4(44) #2	20.59	E	107746638	713.61605 ng
31) Cl4(66) #2	22.96	E	80173462	526.74769 ng
32) Cl5(101) #2	23.86		68095727	250.21566 ng
35) Cl5(118) #2	26.86	e	41367523	375.38613 ng
36) Cl6(153) #2	27.41	E	76855939	584.68808 ng
37) Cl5(105) #2	27.67		1963336	21.11152 ng
38) Cl6(138) #2	28.26		27658485m	279.75023 ng
39) Cl7(187) #2	28.54		9810707	114.60074 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1106.D MX0038.M Tue Aug 19 11:50:21 2014

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Signal #1 : I:\X\DATA\SX0038\X1106.D\ECD1A.CH Vial: 24
Signal #2 : I:\X\DATA\SX0038\X1106.D\ECD2B.CH
Acq On : 8-15-2014 01:25:40 AM Operator: LMG
Sample : M4559-P-D(6) Inst : INST. X
Misc : S-14L-OH10-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:13:09 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:13:05 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	2261899m	21.57451	ng
41)	Cl7(180) #2	29.95	6872487m	67.50744	ng
42)	Cl7(170) #2	30.57	3421928	32.05639	ng
43)	Cl8(195) #2	31.43	810958m	7.99202	ng
44)	Cl9(206) #2	32.51	1388114m	15.54009	ng
45)	Cl10(209) #2	32.95	363903m	4.37886	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1106.D MX0038.M Tue Aug 19 11:50:21 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1107.D\ECD1A.CH Vial: 25
 Signal #2 : I:\X\DATA\SX0038\X1107.D\ECD2B.CH
 Acq On : 8-15-2014 02:11:56 AM Operator: LMG
 Sample : M4559-P-D(7) Inst : INST. X
 Misc : S-14L-OH10-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:13 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	10879856m	100.00000	ng
10) I Cl6(161)	25.10	28462181m	100.00000	ng
24) I Cl5(96) #2	21.16	5025478m	100.00000	ng
33) I Cl6(161) #2	27.27	11028230	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.87	11017898m	200.19422	ng
3) Cl3(18)	13.85	e 28468288	BelowCal	ng
5) Cl3(28)	15.98	e 63634822m	496.52259	ng
6) Cl4(52)	17.63	E 103416668	BelowCal	ng
7) Cl4(44)	18.52	30623106	221.29832	ng
8) Cl4(66)	20.49	42802662	250.85651	ng
9) Cl5(101)	21.56	26294561	180.81179	ng
12) Cl5(118)	24.27	16503436m	83.44760	ng
13) Cl6(153)	25.31	34177538m	176.46609	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	26.37	18513850	73.19115	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.70	8564455	266.61086	ng
26) Cl3(18) #2	15.60	e 24388798	636.63800	ng
28) Cl3(28) #2	18.39	e 45493954	453.26395	ng
29) Cl4(52) #2	19.77	E 87014212	694.73797	ng
30) Cl4(44) #2	20.59	17755062	282.52581	ng
31) Cl4(66) #2	22.96	13857584	170.89369	ng
32) Cl5(101) #2	23.85	11589731m	75.52024	ng
35) Cl5(118) #2	26.86	7120294m	105.43986	ng
36) Cl6(153) #2	27.41	12747146	171.69191	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	28.26	4932841m	83.65330	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1107.D\ECD1A.CH Vial: 25
Signal #2 : I:\X\DATA\SX0038\X1107.D\ECD2B.CH
Acq On : 8-15-2014 02:11:56 AM Operator: LMG
Sample : M4559-P-D(7) Inst : INST. X
Misc : S-14L-OH10-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:13:13 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:13:09 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1107.D MX0038.M Tue Aug 19 11:50:23 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1109.D\ECD1A.CH Vial: 27
 Signal #2 : I:\X\DATA\SX0038\X1109.D\ECD2B.CH
 Acq On : 8-15-2014 03:44:22 AM Operator: LMG
 Sample : M4560-P-D(6) Inst : INST. X
 Misc : S-14L-OJ08-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:21 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:17 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	11473907	80.00000	ng
10) I Cl6(161)	25.10	21703049m	80.00000	ng
24) I Cl5(96) #2	21.15	5220900m	80.00000	ng
33) I Cl6(161) #2	27.27	10639654	80.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.87	e	20716384	390.80999 ng
3) Cl3(18)	13.85	E	57181846	BelowCal ng
5) Cl3(28)	15.98	E	110903691m	731.91285 ng
6) Cl4(52)	17.63	E	196746536	BelowCal ng
7) Cl4(44)	18.52	e	61001483	342.16145 ng
8) Cl4(66)	20.49	e	82593611m	369.24233 ng
9) Cl5(101)	21.56	e	48943155	256.75478 ng
12) Cl5(118)	24.28		31693596	179.61369 ng
13) Cl6(153)	25.31	e	57882551m	BelowCal ng
14) Cl5(105)	25.36		3684925m	14.59079 ng
15) Cl6(138)	26.37		36009416	156.99575 ng
16) Cl7(187)	26.99		9288064	42.31690 ng
17) Cl6(128)	27.26		4108074	14.46549 ng
18) Cl7(180)	28.49		6662776	25.01417 ng
19) Cl7(170)	29.20		4759087	16.17635 ng
20) Cl8(195)	30.18		1013955m	3.11665 ng
21) Cl9(206)	31.38		1314037	4.35647 ng
22) Cl10(209)	31.95		451749m	1.14846 ng
25) Cl2(8) #2	13.70	e	17664790	425.07208 ng
26) Cl3(18) #2	15.60	E	53922439	993.63246 ng
28) Cl3(28) #2	18.39	E	109161522	662.35055 ng
29) Cl4(52) #2	19.77	E	183007227	882.50193 ng
30) Cl4(44) #2	20.59	e	39226014	399.94589 ng
31) Cl4(66) #2	22.96		30420576	268.54525 ng
32) Cl5(101) #2	23.86		26337722	124.92049 ng
35) Cl5(118) #2	26.86		17330807	180.77673 ng
36) Cl6(153) #2	27.41		28027615	263.07322 ng
37) Cl5(105) #2	27.67		1642851	15.42614 ng
38) Cl6(138) #2	28.26		10592838m	127.53377 ng
39) Cl7(187) #2	28.54		3976291	45.65834 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1109.D\ECD1A.CH Vial: 27
Signal #2 : I:\X\DATA\SX0038\X1109.D\ECD2B.CH
Acq On : 8-15-2014 03:44:22 AM Operator: LMG
Sample : M4560-P-D(6) Inst : INST. X
Misc : S-14L-OJ08-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:13:21 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:13:17 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	1779671m	14.76833	ng
41)	Cl7(180) #2	29.95	3327207m	30.66065	ng
42)	Cl7(170) #2	30.57	1892047	15.77538	ng
43)	Cl8(195) #2	31.43	420319m	3.11605	ng
44)	Cl9(206) #2	32.51	687142m	6.24968	ng
45)	Cl10(209) #2	32.95	218102m	1.66297	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1109.D MX0038.M Tue Aug 19 11:50:24 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1111.D\ECD1A.CH Vial: 29
 Signal #2 : I:\X\DATA\SX0038\X1111.D\ECD2B.CH
 Acq On : 8-15-2014 05:16:57 AM Operator: LMG
 Sample : M4560-P-D(7) Inst : INST. X
 Misc : S-14L-OJ08-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:21 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	10239944m	100.00000	ng
10) I Cl6(161)	25.10	25805409m	100.00000	ng
24) I Cl5(96) #2	21.16	4901223	100.00000	ng
33) I Cl6(161) #2	27.27	11847375	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.87	4765877	82.17749	ng
3) Cl3(18)	13.85	12585162	202.52397	ng
5) Cl3(28)	15.98	27320522m	210.99098	ng
6) Cl4(52)	17.63	e 42094408	520.86295	ng
7) Cl4(44)	18.52	13166832	98.62367	ng
8) Cl4(66)	20.49	17930227m	110.41976	ng
9) Cl5(101)	21.56	11192988	80.20320	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	25.31	14753729m	77.64363	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.70	3256778	102.55729	ng
26) Cl3(18) #2	15.60	8990826	253.76947	ng
28) Cl3(28) #2	18.39	16646401	205.48982	ng
29) Cl4(52) #2	19.77	29248962	320.19038	ng
30) Cl4(44) #2	20.59	6853591	127.87758	ng
31) Cl4(66) #2	22.95	5744709m	75.16627	ng
32) Cl5(101) #2	23.85	5029247m	34.90520	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	27.41	4930715	69.80086	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1111.D\ECD1A.CH Vial: 29
 Signal #2 : I:\X\DATA\SX0038\X1111.D\ECD2B.CH
 Acq On : 8-15-2014 05:16:57 AM Operator: LMG
 Sample : M4560-P-D(7) Inst : INST. X
 Misc : S-14L-OJ08-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:21 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
 X1111.D MX0038.M Tue Aug 19 11:50:27 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1113.D\ECD1A.CH Vial: 31
 Signal #2 : I:\X\DATA\SX0038\X1113.D\ECD2B.CH
 Acq On : 8-15-2014 06:49:31 AM Operator: LMG
 Sample : M4561-P-D(6) Inst : INST. X
 Misc : S-14L-OL6-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:33 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:29 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.23	13995718	90.00000	ng
10) I C16(161)	25.10	20406775	90.00000	ng
24) I C15(96) #2	21.16	5891135m	90.00000	ng
33) I C16(161) #2	27.27	9237783	90.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount	9.0001	Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount	9.0361	Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount	9.0001	Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount	9.0361	Recovery	=	0.00%
Target Compounds				
2) C12(8)	11.87	E	76999794	BelowCal ng
3) C13(18)	13.85	E	193064019	BelowCal ng
5) C13(28)	15.98	E	693228195	BelowCal ng
6) C14(52)	17.63	E	470028849	BelowCal ng
7) C14(44)	18.52	E	155800388	844.96075 ng
8) C14(66)	20.49	E	262171899	1091.69161 ng
9) C15(101)	21.56	E	144543318	699.61171 ng
12) C15(118)	24.28	E	114908508	BelowCal ng
13) C16(153)	25.31	E	181866670	BelowCal ng
14) C15(105)	25.36		14138056m	66.25705 ng
15) C16(138)	26.37	e	111679620	769.97482 ng
16) C17(187)	27.00		22242635	127.25032 ng
17) C16(128)	27.26		16518328	72.46764 ng
18) C17(180)	28.49		19838911	92.16474 ng
19) C17(170)	29.20		14090201	58.94070 ng
20) C18(195)	30.18		2782726m	11.79781 ng
21) C19(206)	31.38		3562271m	15.72270 ng
22) C110(209)	31.95		1207358m	5.63251 ng
25) C12(8) #2	13.70	E	73893923	1773.23252 ng
26) C13(18) #2	15.60	E	200135267	2882.98493 ng
28) C13(28) #2	18.39	E	373104684	1521.70407 ng
29) C14(52) #2	19.77	E	439266092	1574.48185 ng
30) C14(44) #2	20.59	E	102302896	796.31374 ng
31) C14(66) #2	22.96	E	80288175	612.00249 ng
32) C15(101) #2	23.86	e	81922957	339.65226 ng
35) C15(118) #2	26.86	e	64685116	570.02205 ng
36) C16(153) #2	27.41	E	82550893	691.15013 ng
37) C15(105) #2	27.67		5957902	67.08534 ng
38) C16(138) #2	28.26		25161398m	296.22501 ng
39) C17(187) #2	28.55		9065336	121.14465 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1113.D MX0038.M Tue Aug 19 11:50:28 2014

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Signal #1 : I:\X\DATA\SX0038\X1113.D\ECD1A.CH Vial: 31
 Signal #2 : I:\X\DATA\SX0038\X1113.D\ECD2B.CH
 Acq On : 8-15-2014 06:49:31 AM Operator: LMG
 Sample : M4561-P-D(6) Inst : INST. X
 Misc : S-14L-OL6-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:33 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:29 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	6952234m	69.87886	ng
41)	Cl7(180) #2	29.95	9743734m	102.92510	ng
42)	Cl7(170) #2	30.57	5347240	54.69457	ng
43)	Cl8(195) #2	31.43	1001823m	11.35965	ng
44)	Cl9(206) #2	32.51	1724135m	21.87854	ng
45)	Cl10(209) #2	32.95	470683m	6.82424	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
 X1113.D MX0038.M Tue Aug 19 11:50:28 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1114.D\ECD1A.CH Vial: 32
 Signal #2 : I:\X\DATA\SX0038\X1114.D\ECD2B.CH
 Acq On : 8-15-2014 07:35:49 AM Operator: LMG
 Sample : M4561-P-D(7) Inst : INST. X
 Misc : S-14L-OL6-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:37 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:33 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	11510291m	100.00000	ng
10) I Cl6(161)	25.11	31685435m	100.00000	ng
24) I Cl5(96) #2	21.16	4684562m	100.00000	ng
33) I Cl6(161) #2	27.27	11523104	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	1.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	1.0040	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	1.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	1.0040	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.87	8596552m	139.38429	ng
3) Cl3(18)	13.85	e 21105954	351.64256	ng
5) Cl3(28)	15.98	e 42845883m	301.10798	ng
6) Cl4(52)	17.63	E 53908358	618.45799	ng
7) Cl4(44)	18.52	17590570	117.90950	ng
8) Cl4(66)	20.49	26714161m	147.04322	ng
9) Cl5(101)	21.56	17648372	113.68515	ng
12) Cl5(118)	24.28	14528658	65.36819	ng
13) Cl6(153)	25.31	23768618m	103.85456	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	26.37	14672745	51.51123	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.70	5631175	187.39492	ng
26) Cl3(18) #2	15.60	14593838	421.60400	ng
28) Cl3(28) #2	18.39	26461905	313.52027	ng
29) Cl4(52) #2	19.77	32451144	359.09875	ng
30) Cl4(44) #2	20.59	7650749	147.18259	ng
31) Cl4(66) #2	22.96	6452821	88.07834	ng
32) Cl5(101) #2	23.85	6517585m	46.70924	ng
35) Cl5(118) #2	26.86	4828101m	71.53846	ng
36) Cl6(153) #2	27.41	6091092	86.94530	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	28.26	2245565m	40.18212	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1114.D\ECD1A.CH Vial: 32
Signal #2 : I:\X\DATA\SX0038\X1114.D\ECD2B.CH
Acq On : 8-15-2014 07:35:49 AM Operator: LMG
Sample : M4561-P-D(7) Inst : INST. X
Misc : S-14L-OL6-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:13:37 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:13:33 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1114.D MX0038.M Tue Aug 19 11:50:29 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1115.D\ECD1A.CH Vial: 33
 Signal #2 : I:\X\DATA\SX0038\X1115.D\ECD2B.CH
 Acq On : 8-15-2014 08:21:38 AM Operator: LMG
 Sample : M4562-P(4) Inst : INST. X
 Misc : S-14L-OL9-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:42 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:37 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	10876021	98.00000	ng
10) I C16(161)	25.12	11601850m	98.00000	ng
24) I C15(96) #2	21.17	6305244	98.00000	ng
33) I C16(161) #2	27.31	11971304	98.00000	ng
System Monitoring Compounds				
4) s C13(34)	15.17	14849463m	161.13234	ng
Spiked Amount	195.9824	Recovery	=	82.22%
11) s C16(152)	22.38	10999207	191.25047	ng
Spiked Amount	196.7663	Recovery	=	97.20%
27) s C13(34) #2	17.10	6610638	105.31890	ng
Spiked Amount	195.9824	Recovery	=	53.74%
34) s C16(152) #2	24.30	7015889	97.04243	ng
Spiked Amount	196.7663	Recovery	=	49.32%
Target Compounds				
2) C12(8)	11.88	E 117502756	BelowCal	ng
3) C13(18)	13.86	E 272343884	BelowCal	ng
5) C13(28)	15.99	E 823241403	BelowCal	ng
6) C14(52)	17.65	E 566137837	BelowCal	ng
7) C14(44)	18.53	E 176380587	1402.17003	ng
8) C14(66)	20.51	E 197167056m	1149.91805	ng
9) C15(101)	21.59	E 104031642	705.79512	ng
12) C15(118)	24.31	e 62652697	BelowCal	ng
13) C16(153)	25.35	E 99864794m	BelowCal	ng
14) C15(105)	25.40	4319676m	38.74476	ng
15) C16(138)	26.40	53982012	653.05384	ng
16) C17(187)	27.02	15327620	170.46968	ng
17) C16(128)	27.29	4850337	40.00092	ng
18) C17(180)	28.51	9638751	85.22708	ng
19) C17(170)	29.22	6593978	52.54653	ng
20) C18(195)	30.19	2830289m	23.74045	ng
21) C19(206)	31.39	4588563m	40.23267	ng
22) C110(209)	31.97	2718730m	27.95857	ng
25) C12(8) #2	13.71	E 70408762	1719.46930	ng
26) C13(18) #2	15.61	E 200617864	2990.32260	ng
28) C13(28) #2	18.40	E 432402055	1739.10900	ng
29) C14(52) #2	19.79	E 616486418	2009.68954	ng
30) C14(44) #2	20.61	E 151053783	1064.63615	ng
31) C14(66) #2	22.99	E 128520885	908.48237	ng
32) C15(101) #2	23.90	e 113718447	457.21794	ng
35) C15(118) #2	26.90	E 90439497	651.84889	ng
36) C16(153) #2	27.37	4237305	58.77506	ng
37) C15(105) #2	27.71	3727060	37.54814	ng
38) C16(138) #2	28.30	e 50178186m	428.94230	ng
39) C17(187) #2	28.59	18074763	187.81729	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1115.D\ECD1A.CH Vial: 33
Signal #2 : I:\X\DATA\SX0038\X1115.D\ECD2B.CH
Acq On : 8-15-2014 08:21:38 AM Operator: LMG
Sample : M4562-P(4) Inst : INST. X
Misc : S-14L-OL9-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:13:42 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:13:37 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.98	5148865m	45.68432	ng
41)	Cl7(180) #2	29.98	12365885m	110.11810	ng
42)	Cl7(170) #2	30.60	5738653	50.14823	ng
43)	Cl8(195) #2	31.46	1795606m	17.36746	ng
44)	Cl9(206) #2	32.54	4660914m	48.36787	ng
45)	Cl10(209) #2	32.98	2540831m	34.28665	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1115.D MX0038.M Tue Aug 19 11:50:30 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1116.D\ECD1A.CH Vial: 34
 Signal #2 : I:\X\DATA\SX0038\X1116.D\ECD2B.CH
 Acq On : 8-15-2014 09:07:33 AM Operator: LMG
 Sample : M4562-P-D(5) Inst : INST. X
 Misc : S-14L-OL9-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:45 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:41 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	9960977	100.00000	ng
10) I Cl6(161)	25.11	22460744m	100.00000	ng
24) I Cl5(96) #2	21.16	4613003	100.00000	ng
33) I Cl6(161) #2	27.27	11686053	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	4.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	4.0160	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	4.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	4.0160	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.87	2518649	42.58753	ng
3) Cl3(18)	13.85	6015499	89.18966	ng
5) Cl3(28)	15.98	11318946m	86.60895	ng
6) Cl4(52)	17.63	15744496	173.26923	ng
7) Cl4(44)	18.52	5188130	38.16179	ng
8) Cl4(66)	20.49	6662829m	40.94873	ng
9) Cl5(101)	21.56	4091274	28.25313	ng
12) Cl5(118)	24.28	2556618m	15.48218	ng
13) Cl6(153)	25.31	4604817m	27.21818	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	26.37	2447332m	11.42711	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.70	1538878	50.32464	ng
26) Cl3(18) #2	15.60	3599524	108.67068	ng
28) Cl3(28) #2	18.39	5903472	85.35069	ng
29) Cl4(52) #2	19.77	8473272	120.17262	ng
30) Cl4(44) #2	20.59	2402416	47.82200	ng
31) Cl4(66) #2	22.96	2030404	27.72010	ng
32) Cl5(101) #2	23.86	1733127m	13.41397	ng
35) Cl5(118) #2	26.86	1244845	18.15746	ng
36) Cl6(153) #2	27.41	1811437	26.68107	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	28.26	726395m	13.44784	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1116.D MX0038.M Tue Aug 19 11:50:31 2014

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Signal #1 : I:\X\DATA\SX0038\X1116.D\ECD1A.CH Vial: 34
Signal #2 : I:\X\DATA\SX0038\X1116.D\ECD2B.CH
Acq On : 8-15-2014 09:07:33 AM Operator: LMG
Sample : M4562-P-D(5) Inst : INST. X
Misc : S-14L-OL9-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:13:45 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:13:41 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1116.D MX0038.M Tue Aug 19 11:50:31 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1117.D\ECD1A.CH Vial: 35
 Signal #2 : I:\X\DATA\SX0038\X1117.D\ECD2B.CH
 Acq On : 8-15-2014 09:53:28 AM Operator: LMG
 Sample : M4562MS-P(3) Inst : INST. X
 Misc : Matrix Spike of S-14L-OL9-00-05 5-128 14 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:49 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:45 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units

Internal Standards			
1) I C15(96)	19.24	10331247	100.00000 ng
10) I C16(161)	25.13	14836265m	100.00000 ng
24) I C15(96) #2	21.17	4785535	100.00000 ng
33) I C16(161) #2	27.29	10605760	100.00000 ng
System Monitoring Compounds			
4) s C13(34)	15.16	13544139m	157.22537 ng
Spiked Amount	200.0000	Recovery	= 78.61%
11) s C16(152)	22.37	12020608	164.07136 ng
Spiked Amount	200.8000	Recovery	= 81.71%
27) s C13(34) #2	17.09	5773237	123.22077 ng
Spiked Amount	200.0000	Recovery	= 61.61%
34) s C16(152) #2	24.24	9308425m	140.37254 ng
Spiked Amount	200.8000	Recovery	= 69.91%
Target Compounds			
2) C12(8)	11.88	E 59962275	BelowCal ng
3) C13(18)	13.86	E 141815496	BelowCal ng
5) C13(28)	15.99	E 213036695m	BelowCal ng
6) C14(52)	17.64	E 334721623	BelowCal ng
7) C14(44)	18.53	E 103290215	835.31417 ng
8) C14(66)	20.50	E 119865036m	747.16785 ng
9) C15(101)	21.58	e 65090813	474.66109 ng
12) C15(118)	24.30	39623571	460.34203 ng
13) C16(153)	25.33	e 66745614m	BelowCal ng
14) C15(105)	25.37	7038596m	50.34110 ng
15) C16(138)	26.39	36245463	300.82356 ng
16) C17(187)	27.01	12139912	104.26730 ng
17) C16(128)	27.28	5791088	38.04326 ng
18) C17(180)	28.50	8196763	57.08703 ng
19) C17(170)	29.21	6595278	41.68294 ng
20) C18(195)	30.19	5994771	40.88963 ng
21) C19(206)	31.39	4868962m	33.82692 ng
22) C110(209)	31.96	3265946m	26.70832 ng
25) C12(8) #2	13.71	E 34969423	1148.78800 ng
26) C13(18) #2	15.61	E 94818658	2121.45506 ng
28) C13(28) #2	18.40	E 197047567	1293.40982 ng
29) C14(52) #2	19.78	E 281587996	1518.57470 ng
30) C14(44) #2	20.60	E 64428509	748.38259 ng
31) C14(66) #2	22.97	e 53651934	581.77032 ng
32) C15(101) #2	23.87	61309988	352.52236 ng
35) C15(118) #2	26.88	e 39818009m	416.98637 ng
36) C16(153) #2	27.43	e 61755267	578.34310 ng
37) C15(105) #2	27.69	3764428	43.34702 ng
38) C16(138) #2	28.28	20237959m	257.32869 ng
39) C17(187) #2	28.56	10168281	131.98906 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1117.D MX0038.M Tue Aug 19 11:50:33 2014

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Signal #1 : I:\X\DATA\SX0038\X1117.D\ECD1A.CH Vial: 35
Signal #2 : I:\X\DATA\SX0038\X1117.D\ECD2B.CH
Acq On : 8-15-2014 09:53:28 AM Operator: LMG
Sample : M4562MS-P(3) Inst : INST. X
Misc : Matrix Spike of S-14L-OL9-00-05 5-128 14 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:13:49 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:13:45 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.96	5088309	51.61936	ng
41)	Cl7(180) #2	29.96	8339964m	88.93851	ng
42)	Cl7(170) #2	30.59	5476695	54.78383	ng
43)	Cl8(195) #2	31.44	3280834m	36.32315	ng
44)	Cl9(206) #2	32.52	4779487m	56.45838	ng
45)	Cl10(209) #2	32.97	3318826m	50.84382	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1117.D MX0038.M Tue Aug 19 11:50:33 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1118.D\ECD1A.CH Vial: 36
 Signal #2 : I:\X\DATA\SX0038\X1118.D\ECD2B.CH
 Acq On : 15 Aug 2014 10:39 am Operator: LMG
 Sample : M4562MSD-P(3) Inst : INST. X
 Misc : Matrix Spike Duplicate of S-14L-OL9-00-0 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:54 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:49 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	10134120	100.00000	ng
10) I C16(161)	25.13	13551588m	100.00000	ng
24) I C15(96) #2	21.16	4812973	100.00000	ng
33) I C16(161) #2	27.29	10320839	100.00000	ng
System Monitoring Compounds				
4) s C13(34)	15.17	11399135	132.98140	ng
Spiked Amount	200.0000	Recovery	=	66.49%
11) s C16(152)	22.37	11464865	172.04238	ng
Spiked Amount	200.8000	Recovery	=	85.68%
27) s C13(34) #2	17.09	5486445	116.62198	ng
Spiked Amount	200.0000	Recovery	=	58.31%
34) s C16(152) #2	24.25	7573660m	120.52177	ng
Spiked Amount	200.8000	Recovery	=	60.02%
Target Compounds				
2) C12(8)	11.88	E 42455748	BelowCal	ng
3) C13(18)	13.86	E 109145044	BelowCal	ng
5) C13(28)	15.99	E 378443947	BelowCal	ng
6) C14(52)	17.64	E 285286386	BelowCal	ng
7) C14(44)	18.53	E 88452285	721.74556	ng
8) C14(66)	20.50	E 115820533m	735.89091	ng
9) C15(101)	21.58	e 67788753	503.97087	ng
12) C15(118)	24.30	44905046	622.64561	ng
13) C16(153)	25.33	e 72685587m	BelowCal	ng
14) C15(105)	25.38	6614084m	51.78934	ng
15) C16(138)	26.39	43241961	410.24012	ng
16) C17(187)	27.01	12325628	116.60638	ng
17) C16(128)	27.28	7083736	51.33170	ng
18) C17(180)	28.50	9611435	73.83539	ng
19) C17(170)	29.21	7646667	53.22282	ng
20) C18(195)	30.19	6087878m	45.61838	ng
21) C19(206)	31.39	4974005m	37.99424	ng
22) C110(209)	31.96	3400212m	30.65720	ng
25) C12(8) #2	13.71	E 31546391	1030.44022	ng
26) C13(18) #2	15.61	E 89504823	2017.39889	ng
28) C13(28) #2	18.39	E 169981151	1172.41730	ng
29) C14(52) #2	19.78	E 252570604	1416.78301	ng
30) C14(44) #2	20.60	E 56756723	684.57415	ng
31) C14(66) #2	22.97	e 47184971	521.49636	ng
32) C15(101) #2	23.87	57606874	332.98494	ng
35) C15(118) #2	26.88	e 38607306m	415.93039	ng
36) C16(153) #2	27.43	e 54837211	543.34236	ng
37) C15(105) #2	27.69	3633768	43.01992	ng
38) C16(138) #2	28.27	17890166m	240.34378	ng
39) C17(187) #2	28.56	8538821	116.41647	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1118.D MX0038.M Tue Aug 19 11:50:43 2014

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Signal #1 : I:\X\DATA\SX0038\X1118.D\ECD1A.CH Vial: 36
 Signal #2 : I:\X\DATA\SX0038\X1118.D\ECD2B.CH
 Acq On : 15 Aug 2014 10:39 am Operator: LMG
 Sample : M4562MSD-P(3) Inst : INST. X
 Misc : Matrix Spike Duplicate of S-14L-OL9-00-0 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:13:54 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:49 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.96	5004753m	52.13286	ng
41)	Cl7(180) #2	29.96	8079785m	88.59367	ng
42)	Cl7(170) #2	30.59	5264738	54.17435	ng
43)	Cl8(195) #2	31.44	2357797m	27.05963	ng
44)	Cl9(206) #2	32.52	4174953m	51.13165	ng
45)	Cl10(209) #2	32.97	2791663m	44.26282	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
 X1118.D MX0038.M Tue Aug 19 11:50:43 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1121.D\ECD1A.CH Vial: 39
 Signal #2 : I:\X\DATA\SX0038\X1121.D\ECD2B.CH
 Acq On : 15 Aug 2014 12:56 pm Operator: LMG
 Sample : M4563-P-D(6) Inst : INST. X
 Misc : S-14L-OL9-DUP-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:03 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:13:58 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	16196153	90.00000	ng
10) I C16(161)	25.09	21918808m	90.00000	ng
24) I C15(96) #2	21.16	7685082m	90.00000	ng
33) I C16(161) #2	27.27 T	10603086m	90.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount	9.0001	Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount	9.0361	Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount	9.0001	Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount	9.0361	Recovery	=	0.00%
Target Compounds				
2) C12(8)	11.88	E	136742517	BelowCal ng
3) C13(18)	13.86	E	315441469	BelowCal ng
5) C13(28)	15.99	E	1113354257	BelowCal ng
6) C14(52)	17.64	E	808437904	BelowCal ng
7) C14(44)	18.52	E	266195449	1307.75001 ng
8) C14(66)	20.50	E	410853867	1485.29204 ng
9) C15(101)	21.57	E	206331222	861.87551 ng
12) C15(118)	24.28	E	139328455	BelowCal ng
13) C16(153)	25.32	E	225602545	BelowCal ng
14) C15(105)	25.37		10715587m	46.68772 ng
15) C16(138)	26.37	e	120483029	775.79181 ng
16) C17(187)	27.00		36231875	200.18821 ng
17) C16(128)	27.27		8784693m	35.17916 ng
18) C17(180)	28.49		18686088m	80.39389 ng
19) C17(170)	29.20		13051664m	50.62023 ng
20) C18(195)	30.18		3254290m	12.92076 ng
21) C19(206)	31.38		4149849m	17.13056 ng
22) C110(209)	31.96		1129435m	4.76686 ng
25) C12(8) #2	13.71	E	141666807	2602.04362 ng
26) C13(18) #2	15.61	E	354065315	3595.39361 ng
28) C13(28) #2	18.39	E	660363145	1828.79128 ng
29) C14(52) #2	19.78	E	861108411	1996.93993 ng
30) C14(44) #2	20.59	E	218026810	1086.25038 ng
31) C14(66) #2	22.96	E	182404749	934.26947 ng
32) C15(101) #2	23.86	E	150568547	448.62949 ng
35) C15(118) #2	26.86	E	106527426	717.09817 ng
36) C16(153) #2	27.41	E	165076329	980.13687 ng
37) C15(105) #2	27.67		4255977	43.73869 ng
38) C16(138) #2	28.26	e	55719382m	455.12753 ng
39) C17(187) #2	28.55		19611030m	202.39409 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1121.D MX0038.M Tue Aug 19 11:50:44 2014

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Signal #1 : I:\X\DATA\SX0038\X1121.D\ECD1A.CH Vial: 39
Signal #2 : I:\X\DATA\SX0038\X1121.D\ECD2B.CH
Acq On : 15 Aug 2014 12:56 pm Operator: LMG
Sample : M4563-P-D(6) Inst : INST. X
Misc : S-14L-OL9-DUP-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:14:03 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:13:58 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	4416652m	40.71176	ng
41)	Cl7(180) #2	29.95	11583629m	106.00665	ng
42)	Cl7(170) #2	30.57	5654874m	50.77829	ng
43)	Cl8(195) #2	31.43	1380125m	13.77150	ng
44)	Cl9(206) #2	32.52	2085457m	23.05313	ng
45)	Cl10(209) #2	32.95	541981m	6.85055	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1121.D MX0038.M Tue Aug 19 11:50:44 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1122.D\ECD1A.CH Vial: 40
 Signal #2 : I:\X\DATA\SX0038\X1122.D\ECD2B.CH
 Acq On : 8-15-2014 03:35:30 PM Operator: LMG
 Sample : M4563-P-D(7) Inst : INST. X
 Misc : S-14L-OL9-DUP-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:07 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:02 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.26	9409782m	100.00000	ng
10) I Cl6(161)	25.13	22449813m	100.00000	ng
24) I Cl5(96) #2	21.15	5221426m	100.00000	ng
33) I Cl6(161) #2	27.27	13375818	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	1.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	1.0040	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	1.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	1.0040	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.90	12402650	282.58570	ng
3) Cl3(18)	13.88	e 27623037	BelowCal	ng
5) Cl3(28)	16.00	e 55357858m	499.83365	ng
6) Cl4(52)	17.66	E 76732102	BelowCal	ng
7) Cl4(44)	18.54	23767135	197.92599	ng
8) Cl4(66)	20.52	31442490m	212.69450	ng
9) Cl5(101)	21.59	18868686	149.55409	ng
12) Cl5(118)	24.30	13042913m	83.61940	ng
13) Cl6(153)	25.33	22315955m	141.86390	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	26.39	11921340	59.33328	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.69	10772272	323.21161	ng
26) Cl3(18) #2	15.59	e 27585593	687.88218	ng
28) Cl3(28) #2	18.38	e 51208617	481.49223	ng
29) Cl4(52) #2	19.76	e 73162963	600.37172	ng
30) Cl4(44) #2	20.58	16454940	257.70781	ng
31) Cl4(66) #2	22.96	14026404	166.77798	ng
32) Cl5(101) #2	23.85	11733828	73.69520	ng
35) Cl5(118) #2	26.86	7879826m	97.28331	ng
36) Cl6(153) #2	27.41	12273359	141.34771	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	28.26	4573177m	66.43646	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1122.D MX0038.M Tue Aug 19 11:50:46 2014

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Page 1

Signal #1 : I:\X\DATA\SX0038\X1122.D\ECD1A.CH Vial: 40
Signal #2 : I:\X\DATA\SX0038\X1122.D\ECD2B.CH
Acq On : 8-15-2014 03:35:30 PM Operator: LMG
Sample : M4563-P-D(7) Inst : INST. X
Misc : S-14L-OL9-DUP-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:14:07 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:14:02 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1122.D MX0038.M Tue Aug 19 11:50:46 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1123.D\ECD1A.CH Vial: 41
 Signal #2 : I:\X\DATA\SX0038\X1123.D\ECD2B.CH
 Acq On : 8-15-2014 04:21:20 PM Operator: LMG
 Sample : M4564-P(4) Inst : INST. X
 Misc : S-14L-OP10-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:12 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:06 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	12906700	95.00000	ng
10) I C16(161)	25.11	21928154	95.00000	ng
24) I C15(96) #2	21.16	7016710m	95.00000	ng
33) I C16(161) #2	27.27	11340752	95.00000	ng
System Monitoring Compounds				
4) s C13(34)	15.17	14996183	130.87216	ng
Spiked Amount	190.0238	Recovery	=	68.87%
11) s C16(152)	22.36	15759807m	136.79992	ng
Spiked Amount	190.7838	Recovery	=	71.70%
27) s C13(34) #2	17.09	9569723	131.75316	ng
Spiked Amount	190.0238	Recovery	=	69.34%
34) s C16(152) #2	24.27	8288783	114.10064	ng
Spiked Amount	190.7838	Recovery	=	59.81%
Target Compounds				
2) C12(8)	11.88	E 77831305	BelowCal	ng
3) C13(18)	13.86	E 187358645	BelowCal	ng
5) C13(28)	15.98	E 660244501	BelowCal	ng
6) C14(52)	17.64	E 446534715	BelowCal	ng
7) C14(44)	18.53	E 164316466	1033.98014	ng
8) C14(66)	20.50	E 196093122	932.17944	ng
9) C15(101)	21.57	E 93784557	520.07665	ng
12) C15(118)	24.28	e 52735130	382.52810	ng
13) C16(153)	25.32	E 128963393m	BelowCal	ng
14) C15(105)	25.38	3481712m	16.23172	ng
15) C16(138)	26.38	e 81475810	469.62699	ng
16) C17(187)	27.00	22200834	124.14149	ng
17) C16(128)	27.27	6519128	27.33483	ng
18) C17(180)	28.49	16968483	76.75563	ng
19) C17(170)	29.20	11591715	47.28884	ng
20) C18(195)	30.19	2766038m	11.45310	ng
21) C19(206)	31.38	3759565m	16.28297	ng
22) C110(209)	31.96	1031302	4.49391	ng
25) C12(8) #2	13.70	E 87094684	1852.28638	ng
26) C13(18) #2	15.60	E 241527795	3072.82065	ng
28) C13(28) #2	18.39	E 464157801	1649.38713	ng
29) C14(52) #2	19.77	E 568751178	1745.91405	ng
30) C14(44) #2	20.59	E 160327112	1001.77142	ng
31) C14(66) #2	22.96	E 107616690	708.64900	ng
32) C15(101) #2	23.86	68559130	266.20850	ng
35) C15(118) #2	26.86	e 37248013	360.68381	ng
36) C16(153) #2	27.41	E 87173592	661.31971	ng
37) C15(105) #2	27.67	1601286	16.72669	ng
38) C16(138) #2	28.26	e 37287251m	354.71886	ng
39) C17(187) #2	28.55	11127984	127.86463	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1123.D\ECD1A.CH Vial: 41
 Signal #2 : I:\X\DATA\SX0038\X1123.D\ECD2B.CH
 Acq On : 8-15-2014 04:21:20 PM Operator: LMG
 Sample : M4564-P(4) Inst : INST. X
 Misc : S-14L-OP10-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:12 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:06 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	3331216m	30.76920	ng
41)	Cl7(180) #2	29.95	8804790m	83.55699	ng
42)	Cl7(170) #2	30.57	4506306	40.84247	ng
43)	Cl8(195) #2	31.43	1056014m	10.17493	ng
44)	Cl9(206) #2	32.51	1808757m	19.70716	ng
45)	Cl10(209) #2	32.95	412976m	4.72140	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
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Signal #1 : I:\X\DATA\SX0038\X1124.D\ECD1A.CH Vial: 42
 Signal #2 : I:\X\DATA\SX0038\X1124.D\ECD2B.CH
 Acq On : 8-15-2014 05:07:14 PM Operator: LMG
 Sample : M4564-P-D(5) Inst : INST. X
 Misc : S-14L-OP10-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:15 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:11 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	10037105	100.00000	ng
10) I Cl6(161)	25.11	24249618m	100.00000	ng
24) I Cl5(96) #2	21.16	4666032m	100.00000	ng
33) I Cl6(161) #2	27.27	13104509	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	10.0000	Recovery	=	0.00%
11) s Cl6(152)	22.36	1242819	8.84548	ng
Spiked Amount	10.0400	Recovery	=	88.10%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	10.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	10.0400	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.88	4889164	86.37596	ng
3) Cl3(18)	13.86	11718263	190.10316	ng
5) Cl3(28)	15.98	23227803m	181.60789	ng
6) Cl4(52)	17.63	28585134	334.29094	ng
7) Cl4(44)	18.52	10103330	76.48454	ng
8) Cl4(66)	20.49	10421576m	64.65431	ng
9) Cl5(101)	21.57	5949282	42.11561	ng
12) Cl5(118)	24.28	3065291m	17.26620	ng
13) Cl6(153)	25.31	8182645m	44.94227	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	26.37	5010884	22.37236	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.70	3002372	99.23793	ng
26) Cl3(18) #2	15.60	7660838	227.76177	ng
28) Cl3(28) #2	18.39	13741543	181.71248	ng
29) Cl4(52) #2	19.77	18136687	227.52465	ng
30) Cl4(44) #2	20.59	5195597	103.39462	ng
31) Cl4(66) #2	22.96	3971597	54.64714	ng
32) Cl5(101) #2	23.86	2911247	21.68858	ng
35) Cl5(118) #2	26.86	1583202	20.81841	ng
36) Cl6(153) #2	27.41	3291909	43.16383	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	28.26	1605442m	26.03541	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1124.D\ECD1A.CH Vial: 42
Signal #2 : I:\X\DATA\SX0038\X1124.D\ECD2B.CH
Acq On : 8-15-2014 05:07:14 PM Operator: LMG
Sample : M4564-P-D(5) Inst : INST. X
Misc : S-14L-OP10-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:14:15 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:14:11 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1124.D MX0038.M Tue Aug 19 11:50:48 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1126.D\ECD1A.CH Vial: 44
 Signal #2 : I:\X\DATA\SX0038\X1126.D\ECD2B.CH
 Acq On : 8-15-2014 06:38:53 PM Operator: LMG
 Sample : M4565-P-D(6) Inst : INST. X
 Misc : S-14L-ON11-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:23 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:19 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	18604457	90.00000	ng
10) I C16(161)	25.08	31174543m	90.00000	ng
24) I C15(96) #2	21.16	10379110m	90.00000	ng
33) I C16(161) #2	27.27	9584341	90.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount	9.0001	Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount	9.0361	Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount	9.0001	Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount	9.0361	Recovery	=	0.00%
Target Compounds				
2) C12(8)	11.88	E	327908966	BelowCal ng
3) C13(18)	13.86	E	746408628	BelowCal ng
5) C13(28)	15.99	E	2730941469	BelowCal ng
6) C14(52)	17.64	E	1411677511	BelowCal ng
7) C14(44)	18.52	E	482441590	2296.67023 ng
8) C14(66)	20.50	E	677086476	2147.02556 ng
9) C15(101)	21.57	E	350936036	1270.95443 ng
12) C15(118)	24.28	E	261085969	BelowCal ng
13) C16(153)	25.32	E	427938271	BelowCal ng
14) C15(105)	25.37		11549884m	35.40746 ng
15) C16(138)	26.37	E	202318213	1137.40246 ng
16) C17(187)	27.00	e	74978556	307.32600 ng
17) C16(128)	27.27		12745918m	35.90598 ng
18) C17(180)	28.49		43157963m	133.64602 ng
19) C17(170)	29.20		29589685	81.87802 ng
20) C18(195)	30.18		8195912m	23.57092 ng
21) C19(206)	31.38		12043127m	36.05862 ng
22) C110(209)	31.96		3118689m	10.27741 ng
25) C12(8) #2	13.71	E	490790062	6617.09024 ng
26) C13(18) #2	15.61	E	1082101426	6255.93467 ng
28) C13(28) #2	18.40	E	1916621483	2848.95298 ng
29) C14(52) #2	19.78	E	1673023095	2456.21059 ng
30) C14(44) #2	20.59	E	486847093	1471.98597 ng
31) C14(66) #2	22.96	E	335369935	1167.39115 ng
32) C15(101) #2	23.86	E	290465399	592.18395 ng
35) C15(118) #2	26.86	E	211765676	1154.04253 ng
36) C16(153) #2	27.41	E	341393607	1601.48785 ng
37) C15(105) #2	27.67		2981459	34.45604 ng
38) C16(138) #2	28.26	E	116719483	758.98738 ng
39) C17(187) #2	28.55	e	42235096	383.46629 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1126.D\ECD1A.CH Vial: 44
 Signal #2 : I:\X\DATA\SX0038\X1126.D\ECD2B.CH
 Acq On : 8-15-2014 06:38:53 PM Operator: LMG
 Sample : M4565-P-D(6) Inst : INST. X
 Misc : S-14L-ON11-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:23 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:19 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	4744158m	47.82130	ng
41)	Cl7(180) #2	29.95	24642742m	209.34282	ng
42)	Cl7(170) #2	30.57	10704750m	97.05417	ng
43)	Cl8(195) #2	31.43	2840532m	31.37475	ng
44)	Cl9(206) #2	32.51	6127491m	69.47931	ng
45)	Cl10(209) #2	32.95	1142905m	17.56995	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
 X1126.D MX0038.M Tue Aug 19 11:50:50 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1127.D\ECD1A.CH Vial: 45
 Signal #2 : I:\X\DATA\SX0038\X1127.D\ECD2B.CH
 Acq On : 8-15-2014 07:24:47 PM Operator: LMG
 Sample : M4565-P-D(8) Inst : INST. X
 Misc : S-14L-ON11-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:27 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:23 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	10201529	60.00000	ng
10) I Cl6(161)	25.11	24311953m	60.00000	ng
24) I Cl5(96) #2	21.16	5468092m	60.00000	ng
33) I Cl6(161) #2	27.27	11713399	60.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount 0.6000		Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount 0.6024		Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount 0.6000		Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount 0.6024		Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.88	E	35060642	BelowCal ng
3) Cl3(18)	13.86	E	79554346	BelowCal ng
5) Cl3(28)	15.98	E	307679674	BelowCal ng
6) Cl4(52)	17.64	E	154587478	BelowCal ng
7) Cl4(44)	18.52	e	50242803	236.94921 ng
8) Cl4(66)	20.49	e	61786837m	232.65546 ng
9) Cl5(101)	21.57		37846520	167.32128 ng
12) Cl5(118)	24.28		28314566	105.00303 ng
13) Cl6(153)	25.32		48415837	205.63806 ng
14) Cl5(105)	0.00		0d	N.D. ng
15) Cl6(138)	26.37		21884140	61.56697 ng
16) Cl7(187)	27.00		8483456	25.65233 ng
17) Cl6(128)	0.00		0d	N.D. ng
18) Cl7(180)	0.00		0d	N.D. ng
19) Cl7(170)	0.00		0d	N.D. ng
20) Cl8(195)	0.00		0d	N.D. ng
21) Cl9(206)	0.00		0d	N.D. ng
22) Cl10(209)	0.00		0d	N.D. ng
25) Cl2(8) #2	13.71	E	36603405	631.42879 ng
26) Cl3(18) #2	15.60	E	93979831	1136.43693 ng
28) Cl3(28) #2	18.39	E	203232793	726.93428 ng
29) Cl4(52) #2	19.77	E	171160231	615.94705 ng
30) Cl4(44) #2	20.59	e	38843403	288.08671 ng
31) Cl4(66) #2	22.96		26123916	169.13455 ng
32) Cl5(101) #2	23.85		22916579m	79.09682 ng
35) Cl5(118) #2	26.86		16144618	118.95517 ng
36) Cl6(153) #2	27.41		27060889m	178.70806 ng
37) Cl5(105) #2	0.00		0d	N.D. ng
38) Cl6(138) #2	28.26		8178053m	72.41888 ng
39) Cl7(187) #2	28.55		3740091	29.53238 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Page 1

Signal #1 : I:\X\DATA\SX0038\X1127.D\ECD1A.CH Vial: 45
Signal #2 : I:\X\DATA\SX0038\X1127.D\ECD2B.CH
Acq On : 8-15-2014 07:24:47 PM Operator: LMG
Sample : M4565-P-D(8) Inst : INST. X
Misc : S-14L-ON11-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:14:27 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:14:23 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1127.D MX0038.M Tue Aug 19 11:50:51 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1129.D\ECD1A.CH Vial: 47
 Signal #2 : I:\X\DATA\SX0038\X1129.D\ECD2B.CH
 Acq On : 8-15-2014 08:56:28 PM Operator: LMG
 Sample : M4565-P-D(9) Inst : INST. X
 Misc : S-14L-ON11-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:27 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I C15(96)	19.23	10763329m	100.00000	ng
10) I C16(161)	25.11	30173678	100.00000	ng
24) I C15(96) #2	21.16	5227754m	100.00000	ng
33) I C16(161) #2	27.27	12739780	100.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount	0.4000	Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount	0.4016	Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount	0.4000	Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount	0.4016	Recovery	=	0.00%
Target Compounds				
2) C12(8)	11.87	e	16570880m	356.96293 ng
3) C13(18)	13.86	E	37205051	BelowCal ng
5) C13(28)	15.98	e	67135859m	534.57211 ng
6) C14(52)	17.63	E	73333549	1183.97861 ng
7) C14(44)	18.52		23722239	171.99639 ng
8) C14(66)	20.49		27142607m	159.95842 ng
9) C15(101)	0.00		0d	N.D. ng
12) C15(118)	0.00		0d	N.D. ng
13) C16(153)	0.00		0d	N.D. ng
14) C15(105)	0.00		0d	N.D. ng
15) C16(138)	0.00		0d	N.D. ng
16) C17(187)	0.00		0d	N.D. ng
17) C16(128)	0.00		0d	N.D. ng
18) C17(180)	0.00		0d	N.D. ng
19) C17(170)	0.00		0d	N.D. ng
20) C18(195)	0.00		0d	N.D. ng
21) C19(206)	0.00		0d	N.D. ng
22) C110(209)	0.00		0d	N.D. ng
25) C12(8) #2	13.71		12873918	386.20559 ng
26) C13(18) #2	15.60	E	32392872	794.32956 ng
28) C13(28) #2	18.39	e	70243220	607.00792 ng
29) C14(52) #2	19.77	e	59656067	519.23247 ng
30) C14(44) #2	20.59		13797257	222.74936 ng
31) C14(66) #2	22.96		9837321	119.10494 ng
32) C15(101) #2	0.00		0d	N.D. ng
35) C15(118) #2	0.00		0d	N.D. ng
36) C16(153) #2	0.00		0d	N.D. ng
37) C15(105) #2	0.00		0d	N.D. ng
38) C16(138) #2	0.00		0d	N.D. ng
39) C17(187) #2	0.00		0d	N.D. ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1129.D MX0038.M Tue Aug 19 11:50:54 2014

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Signal #1 : I:\X\DATA\SX0038\X1129.D\ECD1A.CH Vial: 47
Signal #2 : I:\X\DATA\SX0038\X1129.D\ECD2B.CH
Acq On : 8-15-2014 08:56:28 PM Operator: LMG
Sample : M4565-P-D(9) Inst : INST. X
Misc : S-14L-ON11-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:14:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:14:27 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1129.D MX0038.M Tue Aug 19 11:50:54 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1130.D\ECD1A.CH Vial: 48
 Signal #2 : I:\X\DATA\SX0038\X1130.D\ECD2B.CH
 Acq On : 8-15-2014 09:42:13 PM Operator: LMG
 Sample : M4566-P(4) Inst : INST. X
 Misc : S-14L-OJ13-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:35 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:31 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	28844400	98.00000	ng
10) I C16(161)	25.11	27970248m	98.00000	ng
24) I C15(96) #2	21.17	19694426m	98.00000	ng
33) I C16(161) #2	27.29	10551341	98.00000	ng
System Monitoring Compounds				
4) s C13(34)	15.17	28436627	112.96302	ng
Spiked Amount	195.9824	Recovery	=	57.64%
11) s C16(152)	22.37	17263951	119.78691	ng
Spiked Amount	196.7663	Recovery	=	60.88%
27) s C13(34) #2	17.09	15880873m	81.18576	ng
Spiked Amount	195.9824	Recovery	=	41.43%
34) s C16(152) #2	24.28	8892247	132.93066	ng
Spiked Amount	196.7663	Recovery	=	67.56%
Target Compounds				
2) C12(8)	11.88	E 333958417	BelowCal	ng
3) C13(18)	13.87	E 850402968	BelowCal	ng
5) C13(28)	16.00	E 2885860875	BelowCal	ng
6) C14(52)	17.66	E 2923466856	BelowCal	ng
7) C14(44)	18.53	E 997865075	3914.00882	ng
8) C14(66)	20.51	E 1528437857	3442.83082	ng
9) C15(101)	21.59	E 788697713	1993.53144	ng
12) C15(118)	24.30	E 512063452	BelowCal	ng
13) C16(153)	25.34	E 807358170	BelowCal	ng
14) C15(105)	25.38	50609395m	192.40270	ng
15) C16(138)	26.39	E 464435220	BelowCal	ng
16) C17(187)	27.01	E 123655715	768.84428	ng
17) C16(128)	27.28	39430882	140.69605	ng
18) C17(180)	28.50	e 75929959	304.07093	ng
19) C17(170)	29.21	54155751	189.02067	ng
20) C18(195)	30.19	10638205	37.64305	ng
21) C19(206)	31.39	13233830	48.44411	ng
22) C110(209)	31.96	3772015	15.51596	ng
25) C12(8) #2	13.71	E 427203537	3330.95028	ng
26) C13(18) #2	15.62	E 1117761604	4532.53568	ng
28) C13(28) #2	18.40	E 1876813422	2117.34318	ng
29) C14(52) #2	19.80	E 3353169895	2758.14748	ng
30) C14(44) #2	20.60	E 1107469496	1783.21759	ng
31) C14(66) #2	22.98	E 983328500	1716.52246	ng
32) C15(101) #2	23.87	E 891313237	920.02546	ng
35) C15(118) #2	26.88	E 623660403	2196.62766	ng
36) C16(153) #2	27.43	E 864632998	2785.51857	ng
37) C15(105) #2	27.69	26083553	217.32539	ng
38) C16(138) #2	28.27	E 352521286m	1468.36456	ng
39) C17(187) #2	28.56	E 114959098	760.25238	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1130.D\ECD1A.CH Vial: 48
 Signal #2 : I:\X\DATA\SX0038\X1130.D\ECD2B.CH
 Acq On : 8-15-2014 09:42:13 PM Operator: LMG
 Sample : M4566-P(4) Inst : INST. X
 Misc : S-14L-OJ13-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:35 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:31 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.96	29179293m	221.15609	ng
41)	Cl7(180) #2	29.96	79014322m	484.10031	ng
42)	Cl7(170) #2	30.58	37193695	259.99632	ng
43)	Cl8(195) #2	31.44	4086596m	44.03880	ng
44)	Cl9(206) #2	32.52	10447110m	109.93548	ng
45)	Cl10(209) #2	32.96	2270494m	34.75283	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
 X1130.D MX0038.M Tue Aug 19 11:50:55 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1131.D\ECD1A.CH Vial: 49
 Signal #2 : I:\X\DATA\SX0038\X1131.D\ECD2B.CH
 Acq On : 15 Aug 2014 10:28 pm Operator: LMG
 Sample : M4566-P-D(5) Inst : INST. X
 Misc : S-14L-OJ13-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:39 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:35 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.23	10016325m	100.00000	ng
10) I C16(161)	25.11	26258347m	100.00000	ng
24) I C15(96) #2	21.16	5522767m	100.00000	ng
33) I C16(161) #2	27.27	12633078m	100.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount	4.0000	Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount	4.0160	Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount	4.0000	Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount	4.0160	Recovery	=	0.00%
Target Compounds				
2) C12(8)	11.88	7620340	142.38733	ng
3) C13(18)	13.86	e 19232255	379.81660	ng
5) C13(28)	15.98	36446691m	293.80872	ng
6) C14(52)	17.63	E 78288806	BelowCal	ng
7) C14(44)	18.52	23980637	187.30579	ng
8) C14(66)	20.50	33586232m	213.44638	ng
9) C15(101)	21.57	21754545	162.21568	ng
12) C15(118)	24.28	15357366	84.20186	ng
13) C16(153)	25.31	25988431	141.16653	ng
14) C15(105)	0.00	0d	N.D.	ng
15) C16(138)	26.37	14242059	60.64534	ng
16) C17(187)	27.00	4138528	18.53203	ng
17) C16(128)	0.00	0d	N.D.	ng
18) C17(180)	28.49	2684483	10.09434	ng
19) C17(170)	0.00	0d	N.D.	ng
20) C18(195)	0.00	0d	N.D.	ng
21) C19(206)	0.00	0d	N.D.	ng
22) C110(209)	0.00	0d	N.D.	ng
25) C12(8) #2	13.71	5774350	162.69781	ng
26) C13(18) #2	15.60	e 16457066	404.25802	ng
28) C13(28) #2	18.39	31067558	312.47457	ng
29) C14(52) #2	19.77	e 74447348	584.32101	ng
30) C14(44) #2	20.59	16091681	241.73295	ng
31) C14(66) #2	22.96	13547012	153.16730	ng
32) C15(101) #2	23.86	12084656	71.86148	ng
35) C15(118) #2	26.86	7764706	100.98848	ng
36) C16(153) #2	27.41	11811663	143.63125	ng
37) C15(105) #2	0.00	0d	N.D.	ng
38) C16(138) #2	28.26	4436225m	67.99715	ng
39) C17(187) #2	28.55	1676148	20.70736	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1131.D\ECD1A.CH Vial: 49
Signal #2 : I:\X\DATA\SX0038\X1131.D\ECD2B.CH
Acq On : 15 Aug 2014 10:28 pm Operator: LMG
Sample : M4566-P-D(5) Inst : INST. X
Misc : S-14L-OJ13-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:14:39 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:14:35 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	29.95	1119387m	10.74141	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1131.D MX0038.M Tue Aug 19 11:50:56 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1133.D\ECD1A.CH Vial: 51
 Signal #2 : I:\X\DATA\SX0038\X1133.D\ECD2B.CH
 Acq On : 15 Aug 2014 11:59 pm Operator: LMG
 Sample : M4567-P-D(6) Inst : INST. X
 Misc : S-14L-0015-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:47 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:43 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Cl5(96)	19.24	12876386	80.00000	ng
10) I Cl6(161)	25.10	17636327m	80.00000	ng
24) I Cl5(96) #2	21.16	7345284m	80.00000	ng
33) I Cl6(161) #2	27.27	10604934	80.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.88	E	41317729	BelowCal ng
3) Cl3(18)	13.86	E	101243093	BelowCal ng
5) Cl3(28)	15.98	E	428368231	BelowCal ng
6) Cl4(52)	17.64	E	542140354	BelowCal ng
7) Cl4(44)	18.52	E	212405561	1167.35690 ng
8) Cl4(66)	20.50	E	375403259	1521.31117 ng
9) Cl5(101)	21.57	E	228018163	1061.44408 ng
12) Cl5(118)	24.29	E	154816261	BelowCal ng
13) Cl6(153)	25.32	E	221902422	BelowCal ng
14) Cl5(105)	25.37		7653459m	36.84253 ng
15) Cl6(138)	26.37	e	128234097	BelowCal ng
16) Cl7(187)	27.00		30490118	187.05716 ng
17) Cl6(128)	27.27		8694090	38.66765 ng
18) Cl7(180)	28.49		18009444	86.23753 ng
19) Cl7(170)	29.20		12669417	54.57309 ng
20) Cl8(195)	30.18		2340260m	10.18471 ng
21) Cl9(206)	31.38		3125493	14.20073 ng
22) Cl10(209)	31.96		986833m	4.68316 ng
25) Cl2(8) #2	13.71	E	40759301	697.84347 ng
26) Cl3(18) #2	15.61	E	112612319	1381.35849 ng
28) Cl3(28) #2	18.39	E	247471488	909.78126 ng
29) Cl4(52) #2	19.78	E	663184372	1566.19343 ng
30) Cl4(44) #2	20.59	E	203505447	951.50911 ng
31) Cl4(66) #2	22.96	E	205614010	936.53595 ng
32) Cl5(101) #2	23.86	E	191427773	498.46477 ng
35) Cl5(118) #2	26.86	E	119671681	685.12327 ng
36) Cl6(153) #2	27.41	E	162565826	862.98784 ng
37) Cl5(105) #2	27.67		3323031	30.83937 ng
38) Cl6(138) #2	28.26	e	60381582m	425.48757 ng
39) Cl7(187) #2	28.55		15563034	149.87465 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Page 1

Signal #1 : I:\X\DATA\SX0038\X1133.D\ECD1A.CH Vial: 51
 Signal #2 : I:\X\DATA\SX0038\X1133.D\ECD2B.CH
 Acq On : 15 Aug 2014 11:59 pm Operator: LMG
 Sample : M4567-P-D(6) Inst : INST. X
 Misc : S-14L-0015-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:47 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:43 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	4191097m	34.43715	ng
41)	Cl7(180) #2	29.95	9395183m	78.87711	ng
42)	Cl7(170) #2	30.57	4680430	37.92856	ng
43)	Cl8(195) #2	31.43	943637m	8.15365	ng
44)	Cl9(206) #2	32.51	1486456m	14.53747	ng
45)	Cl10(209) #2	32.95	424610m	4.49889	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
 X1133.D MX0038.M Tue Aug 19 11:50:58 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1134.D\ECD1A.CH Vial: 52
 Signal #2 : I:\X\DATA\SX0038\X1134.D\ECD2B.CH
 Acq On : 16 Aug 2014 12:45 am Operator: LMG
 Sample : M4567-P-D(7) Inst : INST. X
 Misc : S-14L-0015-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:14:51 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:47 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	11856960m	100.00000	ng
10) I Cl6(161)	25.11	27345288m	100.00000	ng
24) I Cl5(96) #2	21.15	4963168m	100.00000	ng
33) I Cl6(161) #2	27.27	10748039	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.87	10796277m	175.88540	ng
3) Cl3(18)	13.85	e 25499128	477.08331	ng
5) Cl3(28)	15.98	e 52142664m	361.02281	ng
6) Cl4(52)	17.63	E 139867259	BelowCal	ng
7) Cl4(44)	18.52	e 54067912	364.51491	ng
8) Cl4(66)	20.49	e 93663633m	506.91688	ng
9) Cl5(101)	21.57	e 60419351	383.71647	ng
12) Cl5(118)	24.28	42182668	238.73832	ng
13) Cl6(153)	25.31	e 60968911	414.72593	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	26.37	34577903	146.72557	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.70	6073500	190.80989	ng
26) Cl3(18) #2	15.60	e 15886876	432.52641	ng
28) Cl3(28) #2	18.39	33490370	361.19162	ng
29) Cl4(52) #2	19.77	E 102645002	783.18466	ng
30) Cl4(44) #2	20.59	e 28444566	410.16704	ng
31) Cl4(66) #2	22.96	29147937	337.99532	ng
32) Cl5(101) #2	23.86	27372051	169.26927	ng
35) Cl5(118) #2	26.86	16993168	220.80307	ng
36) Cl6(153) #2	27.41	23191818m	282.70656	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	28.26	8953003m	138.83114	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1134.D MX0038.M Tue Aug 19 11:50:59 2014

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Signal #1 : I:\X\DATA\SX0038\X1134.D\ECD1A.CH Vial: 52
Signal #2 : I:\X\DATA\SX0038\X1134.D\ECD2B.CH
Acq On : 16 Aug 2014 12:45 am Operator: LMG
Sample : M4567-P-D(7) Inst : INST. X
Misc : S-14L-0015-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:14:51 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:14:47 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1134.D MX0038.M Tue Aug 19 11:50:59 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1136.D\ECD1A.CH Vial: 54
 Signal #2 : I:\X\DATA\SX0038\X1136.D\ECD2B.CH
 Acq On : 8-16-2014 02:17:34 AM Operator: LMG
 Sample : M4568-P-D(6) Inst : INST. X
 Misc : S-14L-OL17-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:15:00 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:55 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	11093482	80.00000	ng
10) I C16(161)	25.11	20780118m	80.00000	ng
24) I C15(96) #2	21.16	6424411	80.00000	ng
33) I C16(161) #2	27.27	10695997	80.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
Target Compounds				
2) C12(8)	11.88	E	28601289	BelowCal ng
3) C13(18)	13.86	E	76971601	BelowCal ng
5) C13(28)	15.98	E	330055842	BelowCal ng
6) C14(52)	17.64	E	313619776	BelowCal ng
7) C14(44)	18.52	E	110303028	664.29030 ng
8) C14(66)	20.50	E	191680363	894.14157 ng
9) C15(101)	21.57	E	117358419	636.93629 ng
12) C15(118)	24.29	e	91761195	BelowCal ng
13) C16(153)	25.32	E	126427874	BelowCal ng
14) C15(105)	25.37		8349535m	34.12042 ng
15) C16(138)	26.38	e	75652007	385.50620 ng
16) C17(187)	27.00		16212132	79.32541 ng
17) C16(128)	27.27		8190711	30.74066 ng
18) C17(180)	28.49		12841892	51.24831 ng
19) C17(170)	29.20		9409467	33.98190 ng
20) C18(195)	30.19		1789708m	6.35220 ng
21) C19(206)	31.38		2230240m	8.29365 ng
22) C110(209)	31.96		915645m	3.48563 ng
25) C12(8) #2	13.71	E	27128836	530.83443 ng
26) C13(18) #2	15.60	E	84048336	1212.34981 ng
28) C13(28) #2	18.39	E	193920242	846.88205 ng
29) C14(52) #2	19.77	E	366258894	1191.88287 ng
30) C14(44) #2	20.59	E	94413544	634.57317 ng
31) C14(66) #2	22.96	E	86879568	540.67999 ng
32) C15(101) #2	23.86	e	87725280	297.38823 ng
35) C15(118) #2	26.87	e	62576230	450.51375 ng
36) C16(153) #2	27.41	E	77320412	534.79996 ng
37) C15(105) #2	27.67		3545395	32.52073 ng
38) C16(138) #2	28.26		26153069m	244.64062 ng
39) C17(187) #2	28.55		7659294	82.18397 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1136.D\ECD1A.CH Vial: 54
Signal #2 : I:\X\DATA\SX0038\X1136.D\ECD2B.CH
Acq On : 8-16-2014 02:17:34 AM Operator: LMG
Sample : M4568-P-D(6) Inst : INST. X
Misc : S-14L-OL17-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:15:00 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:14:55 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	3773976m	30.91873	ng
41)	Cl7(180) #2	29.95	6265080m	54.83166	ng
42)	Cl7(170) #2	30.57	3608648m	29.47590	ng
43)	Cl8(195) #2	31.43	622616m	5.03752	ng
44)	Cl9(206) #2	32.51	1113112m	10.62829	ng
45)	Cl10(209) #2	32.95	405872m	4.19702	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1136.D MX0038.M Tue Aug 19 11:51:00 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1138.D\ECD1A.CH Vial: 56
 Signal #2 : I:\X\DATA\SX0038\X1138.D\ECD2B.CH
 Acq On : 8-16-2014 03:49:26 AM Operator: LMG
 Sample : M4568-P-D(7) Inst : INST. X
 Misc : S-14L-OL17-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:15:04 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:14:59 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	10575926m	100.00000	ng
10) I Cl6(161)	25.11	26915408m	100.00000	ng
24) I Cl5(96) #2	21.16	5493470m	100.00000	ng
33) I Cl6(161) #2	27.27	13238584	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.88	7152963m	124.45526	ng
3) Cl3(18)	13.86	e 18548924	327.87732	ng
5) Cl3(28)	15.98	e 37975673m	289.63637	ng
6) Cl4(52)	17.64	E 74969681	1395.21475	ng
7) Cl4(44)	18.52	26044256	192.82534	ng
8) Cl4(66)	20.50	34858727m	209.77074	ng
9) Cl5(101)	21.57	28377857	201.03429	ng
12) Cl5(118)	24.28	21828872	118.72714	ng
13) Cl6(153)	25.31	30601268	165.51545	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	26.37	18103545	75.77455	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.71	4695029	132.57231	ng
26) Cl3(18) #2	15.60	13365120	333.27049	ng
28) Cl3(28) #2	18.39	29473547	300.74679	ng
29) Cl4(52) #2	19.77	e 60539052	506.39456	ng
30) Cl4(44) #2	20.59	15348631	233.52642	ng
31) Cl4(66) #2	22.96	15009517m	169.43666	ng
32) Cl5(101) #2	23.86	15216297	89.73377	ng
35) Cl5(118) #2	26.86	10974621	130.72965	ng
36) Cl6(153) #2	27.41	13751644	157.02154	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	28.26	4937747m	71.63652	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1138.D\ECD1A.CH Vial: 56
Signal #2 : I:\X\DATA\SX0038\X1138.D\ECD2B.CH
Acq On : 8-16-2014 03:49:26 AM Operator: LMG
Sample : M4568-P-D(7) Inst : INST. X
Misc : S-14L-OL17-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:15:04 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:14:59 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1138.D MX0038.M Tue Aug 19 11:51:02 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1140.D\ECD1A.CH Vial: 58
 Signal #2 : I:\X\DATA\SX0038\X1140.D\ECD2B.CH
 Acq On : 8-16-2014 05:21:01 AM Operator: LMG
 Sample : M4569-P-D(6) Inst : INST. X
 Misc : S-14L-OP18-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:15:12 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:15:07 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.23	10692135	80.00000	ng
10) I C16(161)	25.10	22003807m	80.00000	ng
24) I C15(96) #2	21.16	6557732m	80.00000	ng
33) I C16(161) #2	27.27	11960147	80.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
Target Compounds				
2) C12(8)	11.87	E	27502869	BelowCal ng
3) C13(18)	13.86	E	72203362	BelowCal ng
5) C13(28)	15.98	E	324309647	BelowCal ng
6) C14(52)	17.64	E	278577956	BelowCal ng
7) C14(44)	18.52	E	108054584	676.07922 ng
8) C14(66)	20.49	E	175012176	846.46211 ng
9) C15(101)	21.57	E	101473780	571.67563 ng
12) C15(118)	24.28	e	74073753	510.39384 ng
13) C16(153)	25.31	E	115580025	BelowCal ng
14) C15(105)	25.37		4643403m	18.04787 ng
15) C16(138)	26.37	e	67271233	311.89341 ng
16) C17(187)	27.00		17027317	78.64649 ng
17) C16(128)	27.26		5863471	20.57212 ng
18) C17(180)	28.49		11367098	42.62578 ng
19) C17(170)	29.20		8216954	27.89873 ng
20) C18(195)	30.18		1664224m	5.49002 ng
21) C19(206)	31.38		2217204	7.74065 ng
22) C110(209)	31.95		686592m	2.19213 ng
25) C12(8) #2	13.70	E	28059306	537.89394 ng
26) C13(18) #2	15.60	E	87157294	1228.32918 ng
28) C13(28) #2	18.39	E	222277280	913.35103 ng
29) C14(52) #2	19.77	E	373758544	1191.68802 ng
30) C14(44) #2	20.59	E	108617575	686.39364 ng
31) C14(66) #2	22.96	E	96335877	577.03576 ng
32) C15(101) #2	23.86	e	85092760	285.03551 ng
35) C15(118) #2	26.86	e	55973124	388.04791 ng
36) C16(153) #2	27.41	E	80724863	510.97303 ng
37) C15(105) #2	27.67		2145118	17.93089 ng
38) C16(138) #2	28.26		29121479m	243.93660 ng
39) C17(187) #2	28.55		8713030	83.42559 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1140.D\ECD1A.CH Vial: 58
 Signal #2 : I:\X\DATA\SX0038\X1140.D\ECD2B.CH
 Acq On : 8-16-2014 05:21:01 AM Operator: LMG
 Sample : M4569-P-D(6) Inst : INST. X
 Misc : S-14L-OP18-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:15:12 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:15:07 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.94	2965002m	21.94308	ng
41)	Cl7(180) #2	29.95	5748356m	45.82383	ng
42)	Cl7(170) #2	30.57	3109968	22.95213	ng
43)	Cl8(195) #2	31.43	594296m	4.16487	ng
44)	Cl9(206) #2	32.51	997191m	8.34756	ng
45)	Cl10(209) #2	32.95	296772m	2.29251	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
 X1140.D MX0038.M Tue Aug 19 11:51:04 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1141.D\ECD1A.CH Vial: 59
 Signal #2 : I:\X\DATA\SX0038\X1141.D\ECD2B.CH
 Acq On : 8-16-2014 06:06:57 AM Operator: LMG
 Sample : M4569-P-D(7) Inst : INST. X
 Misc : S-14L-OP18-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:15:16 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:15:11 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	10307618m	100.00000	ng
10) I Cl6(161)	25.11	26810087m	100.00000	ng
24) I Cl5(96) #2	21.15	5689951m	100.00000	ng
33) I Cl6(161) #2	27.27	13959808	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.87	6758056m	120.15262	ng
3) Cl3(18)	13.86	e 17394599	309.41020	ng
5) Cl3(28)	15.98	e 42964215m	340.45857	ng
6) Cl4(52)	17.63	E 68332425	1101.64757	ng
7) Cl4(44)	18.52	26220165	199.37770	ng
8) Cl4(66)	20.49	39609323m	244.96944	ng
9) Cl5(101)	21.57	25580706	185.73977	ng
12) Cl5(118)	24.28	19147332m	103.81332	ng
13) Cl6(153)	25.31	29465295	159.13117	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	26.37	17105976	71.74273	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.70	5038126	137.43095	ng
26) Cl3(18) #2	15.60	14506877	348.53995	ng
28) Cl3(28) #2	18.39	34640128	332.90777	ng
29) Cl4(52) #2	19.77	e 63193154	509.22939	ng
30) Cl4(44) #2	20.59	17510562	252.78127	ng
31) Cl4(66) #2	22.96	16017890	174.21742	ng
32) Cl5(101) #2	23.86	14059725m	80.59992	ng
35) Cl5(118) #2	26.86	9434558	109.72309	ng
36) Cl6(153) #2	27.41	13652215	149.22454	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	28.26	5331125m	73.10737	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1141.D MX0038.M Tue Aug 19 11:51:05 2014

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Signal #1 : I:\X\DATA\SX0038\X1141.D\ECD1A.CH Vial: 59
Signal #2 : I:\X\DATA\SX0038\X1141.D\ECD2B.CH
Acq On : 8-16-2014 06:06:57 AM Operator: LMG
Sample : M4569-P-D(7) Inst : INST. X
Misc : S-14L-OP18-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:15:16 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:15:11 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1141.D MX0038.M Tue Aug 19 11:51:05 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1143.D\ECD1A.CH Vial: 61
 Signal #2 : I:\X\DATA\SX0038\X1143.D\ECD2B.CH
 Acq On : 8-16-2014 07:38:52 AM Operator: LMG
 Sample : M4570-P-D(6) Inst : INST. X
 Misc : S-14L-ON20-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:15:23 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:15:19 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	13589035	80.00000	ng
10) I C16(161)	25.10	21144958m	80.00000	ng
24) I C15(96) #2	21.16	7409377	80.00000	ng
33) I C16(161) #2	27.28	9959426	80.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0000	Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount	8.0320	Recovery	=	0.00%
Target Compounds				
2) C12(8)	11.88	E	67556462	BelowCal ng
3) C13(18)	13.86	E	168287504	BelowCal ng
5) C13(28)	15.99	E	701096092	BelowCal ng
6) C14(52)	17.64	E	572734546	BelowCal ng
7) C14(44)	18.52	E	216014600	1118.57565 ng
8) C14(66)	20.50	E	321373331	1229.38468 ng
9) C15(101)	21.57	E	168658019	746.51904 ng
12) C15(118)	24.29	E	111008500	BelowCal ng
13) C16(153)	25.32	E	199693506	BelowCal ng
14) C15(105)	25.38		6895084m	27.72560 ng
15) C16(138)	26.38	e	127336625	820.69298 ng
16) C17(187)	27.00		30372870	152.43693 ng
17) C16(128)	27.27		11963607	44.54371 ng
18) C17(180)	28.49		22940026	91.87682 ng
19) C17(170)	29.20		16797160	60.53685 ng
20) C18(195)	30.19		3163626m	11.57962 ng
21) C19(206)	31.38		5164790m	19.89442 ng
22) C110(209)	31.96		1163494	4.58946 ng
25) C12(8) #2	13.71	E	73416816	1245.80774 ng
26) C13(18) #2	15.61	E	205850959	2204.64636 ng
28) C13(28) #2	18.39	E	454727592	1326.87462 ng
29) C14(52) #2	19.78	E	689807760	1594.46871 ng
30) C14(44) #2	20.59	E	198952086	933.21686 ng
31) C14(66) #2	22.96	E	150449645	739.49062 ng
32) C15(101) #2	23.86	e	118026147	337.55106 ng
35) C15(118) #2	26.87	E	67287799	495.06311 ng
36) C16(153) #2	27.41	E	109503618	701.51448 ng
37) C15(105) #2	27.67		2948825	29.22412 ng
38) C16(138) #2	28.26	e	42986924m	356.83990 ng
39) C17(187) #2	28.55		12172248	129.22437 ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1143.D MX0038.M Tue Aug 19 11:51:06 2014

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Signal #1 : I:\X\DATA\SX0038\X1143.D\ECD1A.CH Vial: 61
Signal #2 : I:\X\DATA\SX0038\X1143.D\ECD2B.CH
Acq On : 8-16-2014 07:38:52 AM Operator: LMG
Sample : M4570-P-D(6) Inst : INST. X
Misc : S-14L-ON20-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:15:23 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:15:19 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	28.95	4731812m	40.92308	ng
41)	Cl7(180) #2	29.95	9518987m	84.16597	ng
42)	Cl7(170) #2	30.57	5020946	42.87523	ng
43)	Cl8(195) #2	31.43	1311875	12.39433	ng
44)	Cl9(206) #2	32.51	1606394	16.78621	ng
45)	Cl10(209) #2	32.95	394487m	4.43697	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1143.D MX0038.M Tue Aug 19 11:51:06 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1144.D\ECD1A.CH Vial: 62
 Signal #2 : I:\X\DATA\SX0038\X1144.D\ECD2B.CH
 Acq On : 8-16-2014 08:24:42 AM Operator: LMG
 Sample : M4570-P-D(7) Inst : INST. X
 Misc : S-14L-ON20-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:15:28 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:15:23 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units
Internal Standards				
1) I Cl5(96)	19.24	10788230m	100.00000	ng
10) I Cl6(161)	25.11	25974773m	100.00000	ng
24) I Cl5(96) #2	21.16	5609566m	100.00000	ng
33) I Cl6(161) #2	27.27	11980368	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	2.0080	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.88	e	15408208m	317.43410 ng
3) Cl3(18)	13.86	E	37305493	BelowCal ng
5) Cl3(28)	15.98	E	154812549	1771.04976 ng
6) Cl4(52)	17.64	E	124773378	BelowCal ng
7) Cl4(44)	18.52	e	46954409	347.29214 ng
8) Cl4(66)	20.49	e	63164299m	374.73392 ng
9) Cl5(101)	21.57		35927072	250.09954 ng
12) Cl5(118)	24.28		23894975m	135.74755 ng
13) Cl6(153)	25.31		43349162	266.12684 ng
14) Cl5(105)	0.00		0d	N.D. ng
15) Cl6(138)	26.37		27144290	119.98018 ng
16) Cl7(187)	0.00		0d	N.D. ng
17) Cl6(128)	0.00		0d	N.D. ng
18) Cl7(180)	0.00		0d	N.D. ng
19) Cl7(170)	0.00		0d	N.D. ng
20) Cl8(195)	0.00		0d	N.D. ng
21) Cl9(206)	0.00		0d	N.D. ng
22) Cl10(209)	0.00		0d	N.D. ng
25) Cl2(8) #2	13.71		11439895	319.46861 ng
26) Cl3(18) #2	15.60	E	32408984	745.88595 ng
28) Cl3(28) #2	18.39	e	74521398	602.04749 ng
29) Cl4(52) #2	19.77	E	124891017	822.54274 ng
30) Cl4(44) #2	20.59	e	32440122	412.92607 ng
31) Cl4(66) #2	22.96		25682408	271.40443 ng
32) Cl5(101) #2	23.86		20727579	117.37684 ng
35) Cl5(118) #2	26.86		11846518	151.51784 ng
36) Cl6(153) #2	27.41		19331158	225.23450 ng
37) Cl5(105) #2	0.00		0d	N.D. ng
38) Cl6(138) #2	28.26		7739084m	113.37622 ng
39) Cl7(187) #2	0.00		0d	N.D. ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1144.D\ECD1A.CH Vial: 62
Signal #2 : I:\X\DATA\SX0038\X1144.D\ECD2B.CH
Acq On : 8-16-2014 08:24:42 AM Operator: LMG
Sample : M4570-P-D(7) Inst : INST. X
Misc : S-14L-ON20-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:15:28 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:15:23 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1144.D MX0038.M Tue Aug 19 11:51:07 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1147.D\ECD1A.CH Vial: 98
 Signal #2 : I:\X\DATA\SX0038\X1147.D\ECD2B.CH
 Acq On : 16 Aug 2014 10:42 am Operator: LMG
 Sample : CC814PB-P(3) Inst : INST. X
 Misc : Procedural Blank 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:15:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:15:27 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.24	11264158	100.00000	ng
10) I C16(161)	25.11	31222580	100.00000	ng
24) I C15(96) #2	21.16	6333289	100.00000	ng
33) I C16(161) #2	27.27	17047838	100.00000	ng
System Monitoring Compounds				
4) s C13(34)	15.16	15769345m	169.03233	ng
Spiked Amount	200.0000	Recovery	=	84.52%
11) s C16(152)	22.36	24951202	161.61851	ng
Spiked Amount	200.8000	Recovery	=	80.49%
27) s C13(34) #2	17.09	10863869m	172.41944	ng
Spiked Amount	200.0000	Recovery	=	86.21%
34) s C16(152) #2	24.27	13991738	132.63183	ng
Spiked Amount	200.8000	Recovery	=	66.05%
Target Compounds				
2) C12(8)	0.00	0d	N.D.	ng
3) C13(18)	0.00	0d	N.D.	ng
5) C13(28)	0.00	0d	N.D.	ng
6) C14(52)	0.00	0d	N.D.	ng
7) C14(44)	0.00	0d	N.D.	ng
8) C14(66)	0.00	0d	N.D.	ng
9) C15(101)	0.00	0d	N.D.	ng
12) C15(118)	0.00	0d	N.D.	ng
13) C16(153)	0.00	0d	N.D.	ng
14) C15(105)	0.00	0d	N.D.	ng
15) C16(138)	0.00	0d	N.D.	ng
16) C17(187)	0.00	0d	N.D.	ng
17) C16(128)	0.00	0d	N.D.	ng
18) C17(180)	0.00	0d	N.D.	ng
19) C17(170)	0.00	0d	N.D.	ng
20) C18(195)	0.00	0d	N.D.	ng
21) C19(206)	0.00	0d	N.D.	ng
22) C110(209)	0.00	0d	N.D.	ng
25) C12(8) #2	0.00	0d	N.D.	ng
26) C13(18) #2	0.00	0d	N.D.	ng
28) C13(28) #2	0.00	0d	N.D.	ng
29) C14(52) #2	0.00	0d	N.D.	ng
30) C14(44) #2	0.00	0d	N.D.	ng
31) C14(66) #2	0.00	0d	N.D.	ng
32) C15(101) #2	0.00	0d	N.D.	ng
35) C15(118) #2	0.00	0d	N.D.	ng
36) C16(153) #2	0.00	0d	N.D.	ng
37) C15(105) #2	0.00	0d	N.D.	ng
38) C16(138) #2	0.00	0d	N.D.	ng
39) C17(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(*) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1147.D MX0038.M Tue Aug 19 11:51:09 2014

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Page 1

Signal #1 : I:\X\DATA\SX0038\X1147.D\ECD1A.CH Vial: 98
 Signal #2 : I:\X\DATA\SX0038\X1147.D\ECD2B.CH
 Acq On : 16 Aug 2014 10:42 am Operator: LMG
 Sample : CC814PB-P(3) Inst : INST. X
 Misc : Procedural Blank 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:15:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:15:27 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. (TW) = Near Match R.T.
 (*) = Not Verified to LIMS
 X1147.D MX0038.M Tue Aug 19 11:51:09 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1148.D\ECD1A.CH Vial: 99
 Signal #2 : I:\X\DATA\SX0038\X1148.D\ECD2B.CH
 Acq On : 16 Aug 2014 11:28 am Operator: LMG
 Sample : CC815LCS-P(3) Inst : INST. X
 Misc : Laboratory Control Sample 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 17 09:18:11 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 09:18:00 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	

Internal Standards					
1) I C15(96)	19.23	10128737m	100.00000	ng	
10) I C16(161)	25.11	27156648	100.00000	ng	
24) I C15(96) #2	21.16	5523262	100.00000	ng	
33) I C16(161) #2	27.27	15187698	100.00000	ng	
System Monitoring Compounds					
4) s C13(34)	15.16	14280865	170.36567	ng	85%
Spiked Amount	200.0000	Recovery	=	85.18%	
11) s C16(152)	22.36	22757326	170.25187	ng	85%
Spiked Amount	200.8000	Recovery	=	84.79%	
27) s C13(34) #2	17.09	9433600m	171.72172	ng	86%
Spiked Amount	200.0000	Recovery	=	85.86%	
34) s C16(152) #2	24.26	13189638m	139.12719	ng	69%
Spiked Amount	200.8000	Recovery	=	69.29%	
Target Compounds					
2) C12(8)	11.87	1031254m	15.98119	ng	84%
3) C13(18)	13.86	1247395m	15.84717	ng	83%
5) C13(28)	15.98	2521114m	17.64812	ng	92%
6) C14(52)	17.63	2069299	18.14997	ng	95%
7) C14(44)	18.52	2595936	17.39080	ng	91%
8) C14(66)	20.45	3474547	20.04720	ng	105%
9) C15(101)	21.57	2507363	15.82026	ng	83%
12) C15(118)	24.28	3523731	17.74174	ng	93%
13) C16(153)	25.32	3194790	15.79405	ng	83%
14) C15(105)	25.37	4641931	18.35819	ng	96%
15) C16(138)	26.38	4166260	16.39831	ng	86%
16) C17(187)	27.00	3789804	16.27026	ng	85%
17) C16(128)	27.26	4931342	17.32279	ng	91%
18) C17(180)	28.49	4266032	15.73527	ng	82%
19) C17(170)	29.20	4961256	16.76389	ng	88%
20) C18(195)	30.18	3945775m	14.02928	ng	73%
21) C19(206)	31.38	4068562m	14.85177	ng	78%
22) C110(209)	31.95	3345715m	14.35326	ng	74%
25) C12(8) #2	13.71	576343m	14.12984	ng	74%
26) C13(18) #2	15.61	651397m	13.81974	ng	72%
28) C13(28) #2	18.39	1362334m	16.18913	ng	85%
29) C14(52) #2	19.77	1066721	14.25189	ng	75%
30) C14(44) #2	20.59	1334123	18.86022	ng	99%
31) C14(66) #2	23.01	1456141m	15.91933	ng	83%
32) C15(101) #2	23.86	2991602m	18.95567	ng	99%
35) C15(118) #2	26.82	1362408	14.99270	ng	78%
36) C16(153) #2	27.41	1414844	15.65197	ng	82%
37) C15(105) #2	27.67	1881804m	15.39442	ng	80%
38) C16(138) #2	28.21	1131261m	16.08439	ng	84%
39) C17(187) #2	28.54	1574202	16.01974	ng	84%

(f)=RT Delta > 1/2 Window

(m)=manual int.-----

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1148.D MX0038.M Tue Aug 19 13:38:56 2014

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Signal #1 : I:\X\DATA\SX0038\X1148.D\ECD1A.CH Vial: 99
Signal #2 : I:\X\DATA\SX0038\X1148.D\ECD2B.CH
Acq On : 16 Aug 2014 11:28 am Operator: LMG
Sample : CC815LCS-P(3) Inst : INST. X
Misc : Laboratory Control Sample 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 17 09:18:11 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 09:18:00 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units	
40)	Cl6(128) #2	28.94	2133144	15.40495	ng	81%
41)	Cl7(180) #2	29.94	1873802	15.22190	ng	80%
42)	Cl7(170) #2	30.57	2175651m	15.84273	ng	83%
43)	Cl8(195) #2	31.42	1998975m	15.48017	ng	81%
44)	Cl9(206) #2	32.51	1810587m	15.34879	ng	80%
45)	Cl10(209) #2	32.95	1431929m	15.21925	ng	78%

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1148.D MX0038.M Tue Aug 19 13:38:56 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1152.D\ECD1A.CH Vial: 3
 Signal #2 : I:\X\DATA\SX0038\X1152.D\ECD2B.CH
 Acq On : 8-17-2014 02:58:53 PM Operator: LMG
 Sample : M4556-P-D(9) Inst : INST. X
 Misc : S-14L-OH2-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:53:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:53:18 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	8144573	100.00000	ng
10) I Cl6(161)	25.11	20490788m	100.00000	ng
24) I Cl5(96) #2	21.16	4724425m	100.00000	ng
33) I Cl6(161) #2	27.27	12572509m	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount 0.1000		Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount 0.1004		Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount 0.1000		Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount 0.1004		Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	0.00	0d	N.D.	ng
3) Cl3(18)	13.86	3439528	60.39623	ng
5) Cl3(28)	15.98	5752152m	52.92375	ng
6) Cl4(52)	17.64	8999623	117.68595	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	0.00	0d	N.D.	ng
26) Cl3(18) #2	15.60	2303581m	67.12645	ng
28) Cl3(28) #2	18.39	3336436m	48.08151	ng
29) Cl4(52) #2	19.77	5749127	82.98804	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1152.D MX0038.M Tue Aug 19 11:51:25 2014

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Signal #1 : I:\X\DATA\SX0038\X1152.D\ECD1A.CH Vial: 3
Signal #2 : I:\X\DATA\SX0038\X1152.D\ECD2B.CH
Acq On : 8-17-2014 02:58:53 PM Operator: LMG
Sample : M4556-P-D(9) Inst : INST. X
Misc : S-14L-OH2-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:53:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:53:18 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1152.D MX0038.M Tue Aug 19 11:51:25 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1153.D\ECD1A.CH Vial: 4
 Signal #2 : I:\X\DATA\SX0038\X1153.D\ECD2B.CH
 Acq On : 8-17-2014 03:44:46 PM Operator: LMG
 Sample : M4557-P-D(9) Inst : INST. X
 Misc : S-14L-OG5-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:53:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:53:24 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	10147192	100.00000	ng
10) I Cl6(161)	25.11	26737948m	100.00000	ng
24) I Cl5(96) #2	21.16	4606003	100.00000	ng
33) I Cl6(161) #2	27.27	12443521	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount 0.2000		Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount 0.2008		Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount 0.2000		Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount 0.2008		Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	0.00	0d	N.D.	ng
3) Cl3(18)	13.86	2402112	32.37605	ng
5) Cl3(28)	0.00	0d	N.D.	ng
6) Cl4(52)	17.64	6688982	67.55358	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	0.00	0d	N.D.	ng
26) Cl3(18) #2	15.60	1198542	34.45109	ng
28) Cl3(28) #2	0.00	0d	N.D.	ng
29) Cl4(52) #2	19.77	3112412m	47.98427	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1153.D MX0038.M Tue Aug 19 11:51:26 2014

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Signal #1 : I:\X\DATA\SX0038\X1153.D\ECD1A.CH Vial: 4
Signal #2 : I:\X\DATA\SX0038\X1153.D\ECD2B.CH
Acq On : 8-17-2014 03:44:46 PM Operator: LMG
Sample : M4557-P-D(9) Inst : INST. X
Misc : S-14L-OG5-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:53:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:53:24 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1153.D MX0038.M Tue Aug 19 11:51:26 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1154.D\ECD1A.CH Vial: 5
 Signal #2 : I:\X\DATA\SX0038\X1154.D\ECD2B.CH
 Acq On : 8-17-2014 04:30:42 PM Operator: LMG
 Sample : M4558-P-D(7) Inst : INST. X
 Misc : S-14L-OI5-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:53:38 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:53:30 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	10048978	100.00000	ng
10) I Cl6(161)	25.12	26199802	100.00000	ng
24) I Cl5(96) #2	21.16	4659298	100.00000	ng
33) I Cl6(161) #2	27.28	12958316	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	0.4000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	0.4016	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	0.4000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	0.4016	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	0.00	0d	N.D.	ng
3) Cl3(18)	13.86	2741960	37.72959	ng
5) Cl3(28)	15.99	4366498m	31.89849	ng
6) Cl4(52)	17.64	7751259	79.99882	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	0.00	0d	N.D.	ng
26) Cl3(18) #2	15.61	1412728	40.65717	ng
28) Cl3(28) #2	18.39	2255817	32.92051	ng
29) Cl4(52) #2	19.77	3699894m	55.87216	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1154.D MX0038.M Tue Aug 19 11:51:32 2014

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Signal #1 : I:\X\DATA\SX0038\X1154.D\ECD1A.CH Vial: 5
Signal #2 : I:\X\DATA\SX0038\X1154.D\ECD2B.CH
Acq On : 8-17-2014 04:30:42 PM Operator: LMG
Sample : M4558-P-D(7) Inst : INST. X
Misc : S-14L-OI5-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:53:38 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:53:30 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1154.D MX0038.M Tue Aug 19 11:51:32 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1155.D\ECD1A.CH Vial: 6
 Signal #2 : I:\X\DATA\SX0038\X1155.D\ECD2B.CH
 Acq On : 8-17-2014 05:16:32 PM Operator: LMG
 Sample : M4559-P-D(9) Inst : INST. X
 Misc : S-14L-OH10-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:53:44 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:53:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	10077363	100.00000	ng
10) I Cl6(161)	25.11	26191495	100.00000	ng
24) I Cl5(96) #2	21.16	4776907	100.00000	ng
33) I Cl6(161) #2	27.27	13126480	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	0.2000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	0.2008	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	0.2000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	0.2008	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	0.00	0d	N.D.	ng
3) Cl3(18)	13.86	3347223	46.61902	ng
5) Cl3(28)	15.98	6605862m	48.98278	ng
6) Cl4(52)	17.64	10310225	108.34244	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	0.00	0d	N.D.	ng
26) Cl3(18) #2	15.60	1782286	50.71928	ng
28) Cl3(28) #2	18.39	2782176m	39.68474	ng
29) Cl4(52) #2	19.77	5243629m	75.50215	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1155.D MX0038.M Tue Aug 19 11:51:33 2014

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Signal #1 : I:\X\DATA\SX0038\X1155.D\ECD1A.CH Vial: 6
Signal #2 : I:\X\DATA\SX0038\X1155.D\ECD2B.CH
Acq On : 8-17-2014 05:16:32 PM Operator: LMG
Sample : M4559-P-D(9) Inst : INST. X
Misc : S-14L-OH10-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:53:44 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:53:36 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1155.D MX0038.M Tue Aug 19 11:51:33 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1156.D\ECD1A.CH Vial: 7
 Signal #2 : I:\X\DATA\SX0038\X1156.D\ECD2B.CH
 Acq On : 8-17-2014 06:02:24 PM Operator: LMG
 Sample : M4560-P-D(9) Inst : INST. X
 Misc : S-14L-OJ08-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:53:50 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:53:43 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	10865489	100.00000	ng
10) I Cl6(161)	25.11	30074359	100.00000	ng
24) I Cl5(96) #2	21.16	4660564	100.00000	ng
33) I Cl6(161) #2	27.27	12687985	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	0.2000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	0.2008	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	0.2000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	0.2008	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	0.00	0d	N.D.	ng
3) Cl3(18)	0.00	0d	N.D.	ng
5) Cl3(28)	0.00	0d	N.D.	ng
6) Cl4(52)	17.64	4817436	43.90438	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	0.00	0d	N.D.	ng
26) Cl3(18) #2	0.00	0d	N.D.	ng
28) Cl3(28) #2	0.00	0d	N.D.	ng
29) Cl4(52) #2	19.77	1961792m	30.50795	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1156.D MX0038.M Tue Aug 19 11:51:38 2014

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Signal #1 : I:\X\DATA\SX0038\X1156.D\ECD1A.CH Vial: 7
Signal #2 : I:\X\DATA\SX0038\X1156.D\ECD2B.CH
Acq On : 8-17-2014 06:02:24 PM Operator: LMG
Sample : M4560-P-D(9) Inst : INST. X
Misc : S-14L-OJ08-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:53:50 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:53:43 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1156.D MX0038.M Tue Aug 19 11:51:38 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1158.D\ECD1A.CH Vial: 9
 Signal #2 : I:\X\DATA\SX0038\X1158.D\ECD2B.CH
 Acq On : 8-18-2014 09:41:32 AM Operator: LMG
 Sample : M4563-P-D(9) Inst : INST. X
 Misc : S-14L-OL9-DUP-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:53:55 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:53:48 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.26	9496959m	100.00000	ng
10) I Cl6(161)	25.13	22982867m	100.00000	ng
24) I Cl5(96) #2	21.15	4922197	100.00000	ng
33) I Cl6(161) #2	27.27	14370039m	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount 0.1000		Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount 0.1004		Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount 0.1000		Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount 0.1004		Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	0.00	0d	N.D.	ng
3) Cl3(18)	13.88	3136971m	46.34125	ng
5) Cl3(28)	16.01	5539190m	43.38269	ng
6) Cl4(52)	17.66	5749236m	61.61983	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	0.00	0d	N.D.	ng
26) Cl3(18) #2	15.59	1907194	52.78273	ng
28) Cl3(28) #2	18.37	2906869m	40.24117	ng
29) Cl4(52) #2	19.76	4265627m	60.63788	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(*) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1158.D\ECD1A.CH Vial: 9
Signal #2 : I:\X\DATA\SX0038\X1158.D\ECD2B.CH
Acq On : 8-18-2014 09:41:32 AM Operator: LMG
Sample : M4563-P-D(9) Inst : INST. X
Misc : S-14L-OL9-DUP-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:53:55 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:53:48 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1158.D MX0038.M Tue Aug 19 11:51:40 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1162.D\ECD1A.CH Vial: 13
 Signal #2 : I:\X\DATA\SX0038\X1162.D\ECD2B.CH
 Acq On : 8-18-2014 02:22:19 PM Operator: LMG
 Sample : M4566-P-D(7) Inst : INST. X
 Misc : S-14L-OJ13-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:54:15 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:54:09 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	10240944	100.00000	ng
10) I Cl6(161)	25.11	26625161m	100.00000	ng
24) I Cl5(96) #2	21.16	4827770m	100.00000	ng
33) I Cl6(161) #2	27.27	13432996m	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount 0.4000		Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount 0.4016		Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount 0.4000		Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount 0.4016		Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	0.00	0d	N.D.	ng
3) Cl3(18)	13.86	2299741m	30.58446	ng
5) Cl3(28)	0.00	0d	N.D.	ng
6) Cl4(52)	17.64	8289954m	84.25647	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	0.00	0d	N.D.	ng
26) Cl3(18) #2	15.60	1302764m	35.84304	ng
28) Cl3(28) #2	0.00	0d	N.D.	ng
29) Cl4(52) #2	19.77	4260991m	61.68193	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1162.D MX0038.M Tue Aug 19 11:51:41 2014

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Signal #1 : I:\X\DATA\SX0038\X1162.D\ECD1A.CH Vial: 13
Signal #2 : I:\X\DATA\SX0038\X1162.D\ECD2B.CH
Acq On : 8-18-2014 02:22:19 PM Operator: LMG
Sample : M4566-P-D(7) Inst : INST. X
Misc : S-14L-OJ13-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:54:15 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:54:09 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1162.D MX0038.M Tue Aug 19 11:51:41 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1163.D\ECD1A.CH Vial: 14
 Signal #2 : I:\X\DATA\SX0038\X1163.D\ECD2B.CH
 Acq On : 8-18-2014 03:08:14 PM Operator: LMG
 Sample : M4567-P-D(9) Inst : INST. X
 Misc : S-14L-0015-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:54:20 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:54:14 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I C15(96)	19.25	5957337m	100.00000	ng
10) I C16(161)	25.12	13555241m	100.00000	ng
24) I C15(96) #2	21.18	3803068m	100.00000	ng
33) I C16(161) #2	27.28	11849599	100.00000	ng
System Monitoring Compounds				
4) s C13(34)	0.00	0d	N.D.	ng
Spiked Amount 0.2000		Recovery	=	0.00%
11) s C16(152)	0.00	0d	N.D.	ng
Spiked Amount 0.2008		Recovery	=	0.00%
27) s C13(34) #2	0.00	0d	N.D.	ng
Spiked Amount 0.2000		Recovery	=	0.00%
34) s C16(152) #2	0.00	0d	N.D.	ng
Spiked Amount 0.2008		Recovery	=	0.00%
Target Compounds				
2) C12(8)	0.00	0d	N.D.	ng
3) C13(18)	13.86	2241929	53.32973	ng
5) C13(28)	15.98	4098301m	51.50054	ng
6) C14(52)	17.64	10173822	188.53014	ng
7) C14(44)	18.52	3847583m	48.00141	ng
8) C14(66)	20.51	3137242m	31.82165	ng
9) C15(101)	21.58	2195235	25.03536	ng
12) C15(118)	0.00	0d	N.D.	ng
13) C16(153)	25.32	2577037m	25.25490	ng
14) C15(105)	0.00	0d	N.D.	ng
15) C16(138)	0.00	0d	N.D.	ng
16) C17(187)	0.00	0d	N.D.	ng
17) C16(128)	0.00	0d	N.D.	ng
18) C17(180)	0.00	0d	N.D.	ng
19) C17(170)	0.00	0d	N.D.	ng
20) C18(195)	0.00	0d	N.D.	ng
21) C19(206)	0.00	0d	N.D.	ng
22) C110(209)	0.00	0d	N.D.	ng
25) C12(8) #2	0.00	0d	N.D.	ng
26) C13(18) #2	15.60	1465696m	52.48548	ng
28) C13(28) #2	18.39	2416473	43.29500	ng
29) C14(52) #2	19.79	4554157m	81.77768	ng
30) C14(44) #2	20.61	1680469m	39.84701	ng
31) C14(66) #2	22.97	1939044m	32.34077	ng
32) C15(101) #2	23.87	1828946m	16.93246	ng
35) C15(118) #2	0.00	0d	N.D.	ng
36) C16(153) #2	27.41	1702757	24.69073	ng
37) C15(105) #2	0.00	0d	N.D.	ng
38) C16(138) #2	0.00	0d	N.D.	ng
39) C17(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

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Signal #1 : I:\X\DATA\SX0038\X1163.D\ECD1A.CH Vial: 14
Signal #2 : I:\X\DATA\SX0038\X1163.D\ECD2B.CH
Acq On : 8-18-2014 03:08:14 PM Operator: LMG
Sample : M4567-P-D(9) Inst : INST. X
Misc : S-14L-0015-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:54:20 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:54:14 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1163.D MX0038.M Tue Aug 19 11:51:42 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1164.D\ECD1A.CH Vial: 15
 Signal #2 : I:\X\DATA\SX0038\X1164.D\ECD2B.CH
 Acq On : 8-18-2014 03:54:08 PM Operator: LMG
 Sample : M4568-P-D(9) Inst : INST. X
 Misc : S-14L-OL17-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:54:25 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:54:19 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	6658616	100.00000	ng
10) I Cl6(161)	25.11	16923098	100.00000	ng
24) I Cl5(96) #2	21.16	4068816m	100.00000	ng
33) I Cl6(161) #2	27.27	11635609	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount 0.2000		Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount 0.2008		Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount 0.2000		Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount 0.2008		Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.88	441370	9.88555	ng
3) Cl3(18)	13.86	1224090m	24.62337	ng
5) Cl3(28)	15.98	2161882m	23.45430	ng
6) Cl4(52)	17.63	4561399	70.41152	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.71	335631m	10.67821	ng
26) Cl3(18) #2	15.60	877257m	27.99807	ng
28) Cl3(28) #2	18.39	1511465	25.05212	ng
29) Cl4(52) #2	19.77	2893830m	50.36426	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(*) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1164.D MX0038.M Tue Aug 19 11:51:43 2014

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Signal #1 : I:\X\DATA\SX0038\X1164.D\ECD1A.CH Vial: 15
Signal #2 : I:\X\DATA\SX0038\X1164.D\ECD2B.CH
Acq On : 8-18-2014 03:54:08 PM Operator: LMG
Sample : M4568-P-D(9) Inst : INST. X
Misc : S-14L-OL17-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:54:25 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:54:19 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1164.D MX0038.M Tue Aug 19 11:51:43 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1165.D\ECD1A.CH Vial: 16
 Signal #2 : I:\X\DATA\SX0038\X1165.D\ECD2B.CH
 Acq On : 8-18-2014 04:40:04 PM Operator: LMG
 Sample : M4569-P-D(9) Inst : INST. X
 Misc : S-14L-OP18-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:54:30 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:54:24 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	8429609	100.00000	ng
10) I Cl6(161)	25.11	20448580m	100.00000	ng
24) I Cl5(96) #2	21.16	4346678	100.00000	ng
33) I Cl6(161) #2	27.27	12017760	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount 0.2000		Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount 0.2008		Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount 0.2000		Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount 0.2008		Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	0.00	0d	N.D.	ng
3) Cl3(18)	13.86	1686775m	26.99714	ng
5) Cl3(28)	15.98	2857276m	24.55048	ng
6) Cl4(52)	17.63	5740645m	69.96573	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	0.00	0d	N.D.	ng
26) Cl3(18) #2	15.60	1054187	31.89435	ng
28) Cl3(28) #2	18.39	1795861	27.97707	ng
29) Cl4(52) #2	19.77	3103393m	50.54796	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1165.D MX0038.M Tue Aug 19 11:51:49 2014

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Signal #1 : I:\X\DATA\SX0038\X1165.D\ECD1A.CH Vial: 16
Signal #2 : I:\X\DATA\SX0038\X1165.D\ECD2B.CH
Acq On : 8-18-2014 04:40:04 PM Operator: LMG
Sample : M4569-P-D(9) Inst : INST. X
Misc : S-14L-OP18-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:54:30 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:54:24 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1165.D MX0038.M Tue Aug 19 11:51:49 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1166.D\ECD1A.CH Vial: 17
 Signal #2 : I:\X\DATA\SX0038\X1166.D\ECD2B.CH
 Acq On : 8-18-2014 05:25:58 PM Operator: LMG
 Sample : M4570-P-D(9) Inst : INST. X
 Misc : S-14L-ON20-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 07:54:35 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 07:54:29 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.23	8403037	100.00000	ng
10) I Cl6(161)	25.11	20898932m	100.00000	ng
24) I Cl5(96) #2	21.16	4213455m	100.00000	ng
33) I Cl6(161) #2	27.27	11590768	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount 0.2000		Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount 0.2008		Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount 0.2000		Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount 0.2008		Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.87	1331608m	25.82600	ng
3) Cl3(18)	13.86	3237067	54.69018	ng
5) Cl3(28)	15.98	6707554m	60.08492	ng
6) Cl4(52)	17.63	10091300	128.71412	ng
7) Cl4(44)	18.52	3647202	31.33810	ng
8) Cl4(66)	20.49	4819474m	34.83152	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.70	834735m	28.93436	ng
26) Cl3(18) #2	15.60	2000104m	65.28296	ng
28) Cl3(28) #2	18.39	3354232	54.09411	ng
29) Cl4(52) #2	19.77	5634160m	90.42592	ng
30) Cl4(44) #2	20.59	1885078	40.41021	ng
31) Cl4(66) #2	22.96	1685271m	25.04712	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1166.D MX0038.M Tue Aug 19 11:51:56 2014

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Signal #1 : I:\X\DATA\SX0038\X1166.D\ECD1A.CH Vial: 17
Signal #2 : I:\X\DATA\SX0038\X1166.D\ECD2B.CH
Acq On : 8-18-2014 05:25:58 PM Operator: LMG
Sample : M4570-P-D(9) Inst : INST. X
Misc : S-14L-ON20-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 07:54:35 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 07:54:29 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1166.D MX0038.M Tue Aug 19 11:51:57 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1168.D\ECD1A.CH Vial: 1
 Signal #2 : I:\X\DATA\SX0038\X1168.D\ECD2B.CH
 Acq On : 19 Aug 2014 10:31 am Operator: LMG
 Sample : M4564-P-D(7) Inst : INST. X
 Misc : S-14L-OP10-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 13:27:21 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Sun Aug 17 08:47:36 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.26	7180214	100.00000	ng
10) I Cl6(161)	25.13	16680516m	100.00000	ng
24) I Cl5(96) #2	21.15	4199386	100.00000	ng
33) I Cl6(161) #2	27.27	11482946m	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	1.0000	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	1.0040	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	1.0000	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	1.0040	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	0.00	0d	N.D.	ng
3) Cl3(18)	0.00	0d	N.D.	ng
5) Cl3(28)	0.00	0d	N.D.	ng
6) Cl4(52)	17.66	2286248m	30.38620	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	0.00	0d	N.D.	ng
26) Cl3(18) #2	0.00	0d	N.D.	ng
28) Cl3(28) #2	0.00	0d	N.D.	ng
29) Cl4(52) #2	19.76	1259890	21.95817	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1168.D MX0038.M Tue Aug 19 13:52:31 2014

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Page 1

Signal #1 : I:\X\DATA\SX0038\X1168.D\ECD1A.CH Vial: 1
Signal #2 : I:\X\DATA\SX0038\X1168.D\ECD2B.CH
Acq On : 19 Aug 2014 10:31 am Operator: LMG
Sample : M4564-P-D(7) Inst : INST. X
Misc : S-14L-OP10-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 13:27:21 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Sun Aug 17 08:47:36 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1168.D MX0038.M Tue Aug 19 13:52:31 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1169.D\ECD1A.CH Vial: 2
 Signal #2 : I:\X\DATA\SX0038\X1169.D\ECD2B.CH
 Acq On : 19 Aug 2014 11:17 am Operator: LMG
 Sample : M4565-P-D(11) Inst : INST. X
 Misc : S-14L-ON11-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 13:27:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 13:27:20 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	9146650	100.00000	ng
10) I Cl6(161)	25.11	24193351	100.00000	ng
24) I Cl5(96) #2	21.16	4114924	100.00000	ng
33) I Cl6(161) #2	27.27	11540540	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount	0.0400	Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount	0.0402	Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount	0.0400	Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount	0.0402	Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	11.88	1679793	30.25328	ng
3) Cl3(18)	13.86	3656865	56.92665	ng
5) Cl3(28)	15.98	6853369m	56.27053	ng
6) Cl4(52)	17.64	6481239m	73.02150	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	13.71	938437	33.66229	ng
26) Cl3(18) #2	15.60	2020406	67.61306	ng
28) Cl3(28) #2	18.39	3332076	55.00326	ng
29) Cl4(52) #2	19.77	3116079	53.43285	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(T) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1169.D MX0038.M Tue Aug 19 13:52:32 2014

046776CFS

Page 1

Signal #1 : I:\X\DATA\SX0038\X1169.D\ECD1A.CH Vial: 2
Signal #2 : I:\X\DATA\SX0038\X1169.D\ECD2B.CH
Acq On : 19 Aug 2014 11:17 am Operator: LMG
Sample : M4565-P-D(11) Inst : INST. X
Misc : S-14L-ON11-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 13:27:26 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 13:27:20 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1169.D MX0038.M Tue Aug 19 13:52:32 2014 046776CFS

Signal #1 : I:\X\DATA\SX0038\X1170.D\ECD1A.CH Vial: 3
 Signal #2 : I:\X\DATA\SX0038\X1170.D\ECD2B.CH
 Acq On : 19 Aug 2014 12:03 pm Operator: LMG
 Sample : M4561-P-D(9) Inst : INST. X
 Misc : S-14L-OL6-00-05 5-128 14-0314 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Aug 19 13:27:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
 Title : NBH
 Last Update : Tue Aug 19 13:27:25 2014
 Response via : Initial Calibration
 DataAcq Meth : 5-128S.M
 RIS/SIS Mult : NA
 Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units

Internal Standards				
1) I Cl5(96)	19.24	7970753	100.00000	ng
10) I Cl6(161)	25.11	22356793m	100.00000	ng
24) I Cl5(96) #2	21.16	4189547m	100.00000	ng
33) I Cl6(161) #2	27.27	11698615	100.00000	ng
System Monitoring Compounds				
4) s Cl3(34)	0.00	0d	N.D.	ng
Spiked Amount 0.1000		Recovery	=	0.00%
11) s Cl6(152)	0.00	0d	N.D.	ng
Spiked Amount 0.1004		Recovery	=	0.00%
27) s Cl3(34) #2	0.00	0d	N.D.	ng
Spiked Amount 0.1000		Recovery	=	0.00%
34) s Cl6(152) #2	0.00	0d	N.D.	ng
Spiked Amount 0.1004		Recovery	=	0.00%
Target Compounds				
2) Cl2(8)	0.00	0d	N.D.	ng
3) Cl3(18)	13.86	1848844	31.67235	ng
5) Cl3(28)	15.98	2938503m	26.83186	ng
6) Cl4(52)	17.64	3953314m	49.63319	ng
7) Cl4(44)	0.00	0d	N.D.	ng
8) Cl4(66)	0.00	0d	N.D.	ng
9) Cl5(101)	0.00	0d	N.D.	ng
12) Cl5(118)	0.00	0d	N.D.	ng
13) Cl6(153)	0.00	0d	N.D.	ng
14) Cl5(105)	0.00	0d	N.D.	ng
15) Cl6(138)	0.00	0d	N.D.	ng
16) Cl7(187)	0.00	0d	N.D.	ng
17) Cl6(128)	0.00	0d	N.D.	ng
18) Cl7(180)	0.00	0d	N.D.	ng
19) Cl7(170)	0.00	0d	N.D.	ng
20) Cl8(195)	0.00	0d	N.D.	ng
21) Cl9(206)	0.00	0d	N.D.	ng
22) Cl10(209)	0.00	0d	N.D.	ng
25) Cl2(8) #2	0.00	0d	N.D.	ng
26) Cl3(18) #2	15.60	1085000	34.27260	ng
28) Cl3(28) #2	18.39	1551061	24.96388	ng
29) Cl4(52) #2	19.77	2088974m	35.91118	ng
30) Cl4(44) #2	0.00	0d	N.D.	ng
31) Cl4(66) #2	0.00	0d	N.D.	ng
32) Cl5(101) #2	0.00	0d	N.D.	ng
35) Cl5(118) #2	0.00	0d	N.D.	ng
36) Cl6(153) #2	0.00	0d	N.D.	ng
37) Cl5(105) #2	0.00	0d	N.D.	ng
38) Cl6(138) #2	0.00	0d	N.D.	ng
39) Cl7(187) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window

(m)=manual int.

(E) = > 2 * high standard response

(e) = > 1 * high standard response

(*) = Match R.T.

(TW) = Near Match R.T.

(*) = Not Verified to LIMS

X1170.D MX0038.M Tue Aug 19 13:52:33 2014

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Page 1

Signal #1 : I:\X\DATA\SX0038\X1170.D\ECD1A.CH Vial: 3
Signal #2 : I:\X\DATA\SX0038\X1170.D\ECD2B.CH
Acq On : 19 Aug 2014 12:03 pm Operator: LMG
Sample : M4561-P-D(9) Inst : INST. X
Misc : S-14L-OL6-00-05 5-128 14-0314 Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Aug 19 13:27:32 2014 Quant Results File: MX0038.RES

Quant Method : I:\X\DATA\MX0038.M (Chemstation Integrator)
Title : NBH
Last Update : Tue Aug 19 13:27:25 2014
Response via : Initial Calibration
DataAcq Meth : 5-128S.M
RIS/SIS Mult : NA
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
40)	Cl6(128) #2	0.00	0d	N.D.	ng
41)	Cl7(180) #2	0.00	0d	N.D.	ng
42)	Cl7(170) #2	0.00	0d	N.D.	ng
43)	Cl8(195) #2	0.00	0d	N.D.	ng
44)	Cl9(206) #2	0.00	0d	N.D.	ng
45)	Cl10(209) #2	0.00	0d	N.D.	ng

(f)=RT Delta > 1/2 Window (m)=manual int.
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. (TW) = Near Match R.T.
(*) = Not Verified to LIMS
X1170.D MX0038.M Tue Aug 19 13:52:33 2014 046776CFS

USACE/NAE New Bedford Harbor Task Order 10
Project No 100043429
Pesticide/PCB by GC/MS SIM
SEDIMENT
Batch 15-0039
Package DP-15-0044

Submitted to:
USACE/NAE
696 Virginia Road
Concord, MA 01742 USA

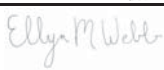
Submitted by:
Battelle Norwell Operations
141 Longwater Drive Suite 202
Norwell, MA 02061

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USACE/NAE New Bedford Harbor Task Order 10
Project No 100043429
Pesticide/PCB by GC/MS SIM
SEDIMENT
Batch 15-0039
Package DP-15-0044

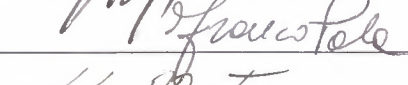
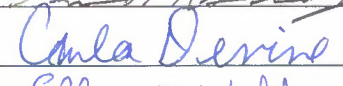
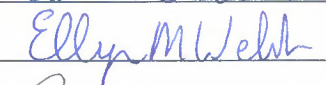
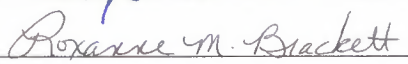
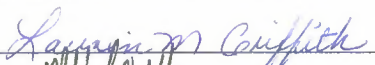
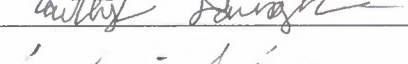
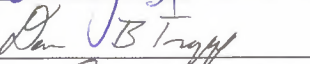
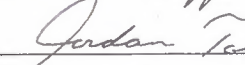
Submitted to:
USACE/NAE
696 Virginia Road
Concord, MA 01742 USA

Submitted by:
Battelle Norwell Operations
141 Longwater Drive Suite 202
Norwell, MA 02061

Analyst Approval:		Denise Schumitz 2015.03.02 15:08:25 -05'00'
QC Chemist Approval:		Ellyn M Webb 2015.03.05 13:28:57 -05'00'
Project Manager Approval:		Carole McCarthy 2015.03.06 07:40:58 -05'00'

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2015 Signature Page

Name (print)	Name (signature)	Initials
Jonathan Thorn		JRT
Robert Lizotte, Jr.		RL
Mark J. Benotti		MB
FRANCO PALA		FP
Kevin McInerney		KM
Carla Devine		CRD
Ellyn M Webb		EMW
Roxanne M. Brackett		RMB
Lauren M. Griffith		LMG
MICHAEL MORA		MM
Rich Restucci		RR
Jeannine Seyfert		JS
Christie Usher		CU
Weidong Li		W.L.
Caitlyn Farragher		CNF
Denise Schumitz		DS
Matt Schumitz		MS
Sam Guimaraes		SAG
Kayla Willis		KAW
Stephanie Hart		SAH
Emily Fraser		EF
Dawn Trapp		DT
Jordan Tower		JCT
Crimew Brown		CB
Carlee S. Pewen McLarty		CPM

USACE/NAE New Bedford Harbor Task Order 10
Project No 100043429
Pesticide/PCB by GC/MS SIM
SEDIMENT
Batch 15-0039
Package DP-15-0044

1	<i>Work Plan</i> Laboratory Work Plan, Addendums To Work Plan, Memos From Project Manager, Special Instructions, Chain-of-Custody Reports.	1
2	<i>Tables</i> Analytical Data Tables, Qualifier Definitions.	34
3	<i>Miscellaneous Documentation</i> Case Narrative, Miscellaneous Documentation Form, Quality Control Summary, Example Calculations, Internal Standard Recovery Report, Retention Time Window Report.	75
4	<i>Sample Preparation Records</i> Sample Preparation Records, Dilution Worksheets, Standard Preparation Records, Certificates Of Analysis, GPC Check Report.	86
5	<i>Analytical Calibrations</i> Analytical Sequence, Analytical Method, Tune Report, Initial Calibration, Pesticide Degradation Report, RF Summary, Calibration Verifications, Independent Calibration Verification Check.	111
6	<i>Analytical Data</i> Raw Data Quantification Reports.	227
7	<i>Chromatograms</i> Sample And Standard Chromatograms.	N/A
8	<i>Unused Data</i>	N/A



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WORK/QUALITY ASSURANCE PROJECT PLAN

1.0 GENERAL PROJECT INFORMATION

Project Title: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429
Client: USACE/NAE
 696 Virginia Road
 Concord, MA 01742
 USA
Client Contact Information: Peter Hugh
 Engineering Technical Lead
 (978) 318-8452(V)
 NA
 NA
Effective Date of QAPP: 2/5/2015
Version Number: 100043429(S)-05
Project Manager: Peven-McCarthy, Carole
Laboratory Task Manager: Peven-McCarthy, Carole
Deliverable Due Date: 3/2/2015

2.0 SCOPE OF WORK

Overview: Analysis of sediment for PCB congeners. Workpackage: -
 14LABBATSSED
Matrix: Soil/Sediment

2.1 TECHNICAL APPROACH

2.1.1 Sample Receipt, Storage, and Handling

The list of samples for this project plan are presented in Attachment 1.

Storage Directions: Store frozen.
Sub_Sampling: None
Procedures: NA
Contact: NA
Comment: NA
Archiving: Store frozen.
Disposal: Retain for 6 months from delivery of final data.

WORK/QUALITY ASSURANCE PROJECT PLAN

2.1.2 Sample Preparation

Samples identified after IA screening.

Samples Expected:	Samples Per Batch:	Batches Expected:
13	20	1

Batch quality control samples are defined in Table 1.

Target samples are presented in Attachment 1.

Table 1: Quality Control Samples

Type:	Description:	Count:	Rgt:	Reference:	Comment:
PB	Laboratory control reagent blank.	1 per batch	--	NA	
LCS	Laboratory Control Sample	1 per batch	No	NA	
LCSD	Laboratory Control Sample Duplicate	1 per batch	No	NA	
MS	Spiked field sample for determining method accuracy in the presence of matrix.	1 per batch	--	NA	Use samples identified as "4" for background for MS/MSD
MSD	Spiked field sample for determining method accuracy and precision in the presence of matrix.	1 per batch	--	NA	

2.1.3 Extraction/Preparation

2.1.3.1 Extraction

SOP No.-Rev:	5-192-14
SOP Title:	<i>Soil/Sediment Extraction for Trace Level Semi-Volatile Organic Contaminant Analysis</i>
Sample Size:	10 g
SIS and LCS/MS Compounds:	Defined in Table 2.
Deviations:	NA
Comments:	Samples must be air dried to <50% moisture prior to extraction. Homogenize, remove ~30 g from original sample jar, place on labeled foil, loosely fold over foil and leave in hood overnight. Sample weight: use attached spreadsheet to determine sample size for extraction. "1" = 1 g "2" = 2 g "3" = 5 g "4" = 10 g

WORK/QUALITY ASSURANCE PROJECT PLAN

"5" = 1 g, 1:10 dilution on raw extract. Spike SIS at 10x

Use a "4" for the MS/MSD in each batch.

Pre-dilutions: in addition to the un-diluted extract, prepare dilutions of 1:500 and 1:1000 for "1" and "2" samples. 1:100 for others.

Table 2: SIS and LCS/MS Spiking Level

Standard Type	Standard Contents		Spike Amount (ng)	Volume (uL)	Comment
PCB Surrogate NBH	IG96	SIS	~ 400 ng	200 uL	NA
PCB Surrogate NBH	IG96	SIS	~ 4000 ng	2000 uL	Add to samples identified as "5"
GCMS PCB/Pesticide LCS Solution	IE22	LCS/MS	~ 63 - 750 ng	125 uL	MS spike
GCMS PCB/Pesticide LCS Solution	IE22	LCS/MS	~ 38 - 450 ng	75 uL	LCS samples

2.1.3.2 Cleanup

- 1) SOP No.-Rev: **5-328-04**
 SOP Title: *Removal (cleanup) of Sulfur from Environmental Sample Extracts*
 Deviations: NA
 Comments: NA
- 2) SOP No.-Rev: **5-327-04**
 SOP Title: *Florisil Cleanup of Environmental Sample Extracts*
 Deviations: Elute with Hexane only
 Comments: NA

RIS spiking levels are presented in Table 3.

Extract PIV (uL): 1000

Table 3: RIS Spiking Level

Standard Type	Standard Contents		Spike Amount (ng)	Volume (uL)	Comment
PCB IS	IE11	RIS	~ 100 ng	100 uL	NA

WORK/QUALITY ASSURANCE PROJECT PLAN

2.1.4 Instrumental Analysis

The list of analytes along with data quality criteria are presented in Attachment 2.

- 1) SOP_No-Rev: **5-315-10**
- SOP_Title: *Identification and Quantification of Polychlorinated Biphenyl Congeners (PCBs), PCB Homologues, and Chlorinated Pesticides by Gas Chromatography / Mass Spectroscopy in the Selected Ion Monitoring (SIM) Mode*
- Deviations: NA
- Comments: Note: for non-detects, "U" is the qualifier and the ssRL will be reported.

2.2. DELIVERABLES

Deliverables Due:	3/2/2015
LIMS Reports:	Yes
Histograms:	No
Excel Tables:	Yes
EICs:	No
Chromatograms:	No
EDDs:	Yes
Comments:	New Bedford Harbor EDD required. Full data package (pdf) required for external validation. Detailed quant reports are not required.

3.0 QUALITY

The Method Quality Objectives are defined in Attachment 3.

4.0 ORGANIZATION AND COMMUNICATION

4.1 ORGANIZATION

The project team is defined in Table 4. Supervisors may make substitutions with Project Manager concurrence.

Table 4: Project Team and Roles

Staff Member	Role	Comment
Carole S. Peven-McCarthy	Project Manager	NA
Samuel A. Guimaraes	Sample Preparation	NA

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WORK/QUALITY ASSURANCE PROJECT PLAN

Staff Member	Role	Comment
Richard P. Restucci Jr	GC/MS Analysis	NA
Matt D. Schumitz	Sample Custody	NA
Carla R. Devine	Quality Control Officer	NA

4.2 COMMUNICATION

A kick-off meeting will be held to discuss project scope and goals.

5.0 SCHEDULE

The project schedule is presented in Table 5.

Table 5. Schedule of Laboratory Activities

Activity:	Start Date:	End Date:	TAT (days):	Comment:
Sample Receipt	11/25/2014	11/25/2014	0	NA
Sample Preparation	02/05/2015	02/10/2015	5	NA
Instrument Analysis	02/10/2015	02/19/2015	9	NA
Quality Control Review	02/19/2015	02/23/2015	4	NA
Final Data Reporting	02/23/2015	02/25/2015	2	NA

6.0 BUDGET

The labor budget for the analytical task is presented in Table 6.

Table 6. Labor Budget (Laboratory Analytical Task)

Labor Activity:	Hours/ Batch:	Batches:	Total Hours:	Comment:
Sample Receipt	1	1	1	NA
Sample Preparation	33	1	33	Pre-processing = drying
<i>Extraction</i>	27			
<i>glassware</i>	5			
<i>Sample pre-processing</i>	1			
Instrument Analysis	40	1	40	NA
Quality Control Review	4	1	4	NA
Final Data Reporting	1	1	1	NA



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WORK/QUALITY ASSURANCE PROJECT PLAN

7.0 STAFF DEVELOPMENT



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 1: Target Samples

Shipment: SHP-141125-04

Status: Approved

Description: New Bedford Harbor(POST)

Range: L0031-L0145

Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	L0031	S-14N-RN06-00-05	11/25/2014 7:52 am	SEDIMENT	F0113	(NA)		
2	L0064	S-14N-PCC15-05-10	11/18/2014 1:45 pm	SEDIMENT	F0113	(NA)		
3	L0067	S-14N-PV5-05-10	11/18/2014 2:20 pm	SEDIMENT	F0113	(NA)		
4	L0075	S-14N-RBB22-05-10	11/19/2014 11:05 am	SEDIMENT	F0113	(NA)		
5	L0104	S-14N-OI18-00-05	11/17/2014 12:15 pm	SEDIMENT	F0113	(NA)		
6	L0109	S-14N-OP10-00-05	11/17/2014 1:30 pm	SEDIMENT	F0113	(NA)		
7	L0117	S-14N-RM26-00-05	11/18/2014 11:05 am	SEDIMENT	F0113	(NA)		
8	L0118	S-14N-RM26-00-05-REP	11/18/2014 11:15 am	SEDIMENT	F0113	(NA)		
9	L0126	S-14N-LS03-00-05	11/19/2014 8:45 am	SEDIMENT	F0113	(NA)		
10	L0132	S-14N-RCC14-00-05	11/19/2014 10:49 am	SEDIMENT	F0113	(NA)		
11	L0138	S-14N-SO2-00-05	11/19/2014 1:49 pm	SEDIMENT	F0113	(NA)		
12	L0139	S-14N-SO9-00-05	11/19/2014 1:33 pm	SEDIMENT	F0113	(NA)		
13	L0145	S-14N-LBB16-00-05	11/20/2014 8:35 am	SEDIMENT	F0113	(NA)		

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name:	Master_315
SOP Reference:	5-315 - Identification and Quantification of Polychlorinated Biphenyl Congeners (PCBs), PCB Homologues, and Chlorinated Pesticides by Gas Chromatography / Mass Spectroscopy in the Selected Ion Monitoring (SIM) Mode
Description:	Pesticide/PCB by GC/MS SIM
Matrix:	S - Solid Samples, like soil or sediment, prepared and analyzed under the same class of detection limits.
Detection Limit Study:	RL-NA-MS
Instrument:	GCMS
MQO Criteria	USACE/NBH
Standard Report:	Standard Result Report

Method Specific Reporting				Holding Times (days)	Data Flags
Result Units:	ug/Kg	Unit Conversion:	(none)	Sample: 14	DL_Flag: U
Weight Basis:	DRY	Result Format:	Significant Figures	Frozen: 365	RL_Flag: J
Standard Basis:	RIS	# of Figures/Digits:	3	Extract: 40	PB_Flag: B
Oil Weight Basis:	No	Oil Weight Source:	Oil Weight		DIL_Flag: D
U-Value Substitution:	ND=MDL	Histograms:	No		HT_Flag: T
ECD_Reporting:	No				

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
1	Cl1(1)	Cl1(1)	T	Cl5(96)	Cl3(34)	No	No
2	Cl1(3)	Cl1(3)	T	Cl5(96)	Cl3(34)	No	No
3	Cl2(4)	Cl2(4)	T	Cl5(96)	Cl3(34)	No	No
4	Cl2(5)	Cl2(5)	T	Cl5(96)	Cl3(34)	No	No
5	Cl2(6)	Cl2(6)	T	Cl5(96)	Cl3(34)	No	No
6	Cl2(7)	Cl2(7)	T	Cl5(96)	Cl3(34)	No	No
7	Cl2(8)	Cl2(8)	T	Cl5(96)	Cl3(34)	No	No
8	Cl2(9)	Cl2(9)	T	Cl5(96)	Cl3(34)	No	No
9	Cl2(11)	Cl2(11)	T	Cl5(96)	Cl3(34)	No	No
10	Cl2(12)	Cl2(12)	T	Cl5(96)	Cl3(34)	No	No
11	Cl2(13)	Cl2(13)	T	Cl5(96)	Cl3(34)	No	No
12	Cl2(15)	Cl2(15)	T	Cl5(96)	Cl3(34)	No	No
13	Cl3(16)	Cl3(16)	T	Cl5(96)	Cl3(34)	No	No
14	Cl3(17)	Cl3(17)	T	Cl5(96)	Cl3(34)	No	No
15	Cl3(18)	Cl3(18)	T	Cl5(96)	Cl3(34)	No	No
16	Cl3(19)	Cl3(19)	T	Cl5(96)	Cl3(34)	No	No
17	Cl3(22)	Cl3(22)	T	Cl5(96)	Cl3(34)	No	No
18	Cl3(24)	Cl3(24)	T	Cl5(96)	Cl3(34)	No	No

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_315

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
19	CI3(25)	CI3(25)	T	CI5(96)	CI3(34)	No	No
20	CI3(26)	CI3(26)	T	CI5(96)	CI3(34)	No	No
21	CI3(27)	CI3(27)	T	CI5(96)	CI3(34)	No	No
22	CI3(28)	CI3(28)	T	CI5(96)	CI3(34)	No	No
23	CI3(29)	CI3(29)	T	CI5(96)	CI3(34)	No	No
24	CI3(30)	CI3(30)	T	CI5(96)	CI3(34)	No	No
25	CI3(31)	CI3(31)	T	CI5(96)	CI3(34)	No	No
26	CI3(32)	CI3(32)	T	CI5(96)	CI3(34)	No	No
27	CI3(33)	CI3(33)	T	CI5(96)	CI3(34)	No	No
28	CI3(37)	CI3(37)	T	CI5(96)	CI3(34)	No	No
29	CI4(40)	CI4(40)	T	CI5(96)	CI3(34)	No	No
30	CI4(41)	CI4(41)	T	CI5(96)	CI3(34)	No	No
31	CI4(42)	CI4(42)	T	CI5(96)	CI3(34)	No	No
32	CI4(43)	CI4(43)	T	CI5(96)	CI3(34)	No	No
33	CI4(44)	CI4(44)	T	CI5(96)	CI3(34)	No	No
34	CI4(45)	CI4(45)	T	CI5(96)	CI3(34)	No	No
35	CI4(46)	CI4(46)	T	CI5(96)	CI3(34)	No	No
36	CI4(47)	CI4(47)	T	CI5(96)	CI3(34)	No	No
37	CI4(48)	CI4(48)	T	CI5(96)	CI3(34)	No	No
38	CI4(49)	CI4(49)	T	CI5(96)	CI3(34)	No	No
39	CI4(50)	CI4(50)	T	CI5(96)	CI3(34)	No	No
40	CI4(51)	CI4(51)	T	CI5(96)	CI3(34)	No	No
41	CI4(52)	CI4(52)	T	CI5(96)	CI3(34)	No	No
42	CI4(53)	CI4(53)	T	CI5(96)	CI3(34)	No	No
43	CI4(54)	CI4(54)	T	CI5(96)	CI3(34)	No	No
44	CI4(56)	CI4(56)	T	CI5(96)	CI3(34)	No	No
45	CI4(60)	CI4(60)	T	CI6(161)	CI6(152)	No	No
46	CI4(63)	CI4(63)	T	CI5(96)	CI3(34)	No	No
47	CI4(64)	CI4(64)	T	CI5(96)	CI3(34)	No	No
48	CI4(66)	CI4(66)	T	CI5(96)	CI3(34)	No	No
49	CI4(67)	CI4(67)	T	CI5(96)	CI3(34)	No	No
50	CI4(70)	CI4(70)	T	CI5(96)	CI3(34)	No	No
51	CI4(71)	CI4(71)	T	CI5(96)	CI3(34)	No	No
52	CI4(74)	CI4(74)	T	CI5(96)	CI3(34)	No	No
53	CI4(75)	CI4(75)	T	CI5(96)	CI3(34)	No	No
54	CI4(77)	CI4(77)	T	CI6(161)	CI6(152)	No	No
55	CI4(80)	CI4(80)	T	CI5(96)	CI3(34)	No	No
56	CI4(81)	CI4(81)	T	CI6(161)	CI6(152)	No	No
57	CI5(82)	CI5(82)	T	CI6(161)	CI6(152)	No	No
58	CI5(83)	CI5(83)	T	CI6(161)	CI6(152)	No	No
59	CI5(84)	CI5(84)	T	CI5(96)	CI3(34)	No	No
60	CI5(85)	CI5(85)	T	CI6(161)	CI6(152)	No	No
61	CI5(87)	CI5(87)	T	CI6(161)	CI6(152)	No	No
62	CI5(91)	CI5(91)	T	CI5(96)	CI3(34)	No	No
63	CI5(92)	CI5(92)	T	CI5(96)	CI3(34)	No	No
64	CI5(95)	CI5(95)	T	CI5(96)	CI3(34)	No	No



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Attachment 2: Test Codes

Project Test Code Name: Master_315

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
65	CI5(97)	CI5(97)	T	CI6(161)	CI6(152)	No	No
66	CI5(99)	CI5(99)	T	CI6(161)	CI6(152)	No	No
67	CI5(100)	CI5(100)	T	CI5(96)	CI3(34)	No	No
68	CI5(101)	CI5(101)	T	CI5(96)	CI3(34)	No	No
69	CI5(104)	CI5(104)	T	CI5(96)	CI3(34)	No	No
70	CI5(105)	CI5(105)	T	CI6(161)	CI6(152)	No	No
71	CI5(110)	CI5(110)	T	CI6(161)	CI6(152)	No	No
72	CI5(114)	CI5(114)	T	CI6(161)	CI6(152)	No	No
73	CI5(115)	CI5(115)	T	CI6(161)	CI6(152)	No	No
74	CI5(118)	CI5(118)	T	CI6(161)	CI6(152)	No	No
75	CI5(123)	CI5(123)	T	CI6(161)	CI6(152)	No	No
76	CI5(124)	CI5(124)	T	CI6(161)	CI6(152)	No	No
77	CI5(125)	CI5(125)	T	CI6(161)	CI6(152)	No	No
78	CI5(126)	CI5(126)	T	CI6(161)	CI6(152)	No	No
79	CI5(127)	CI5(127)	T	CI6(161)	CI6(152)	No	No
80	CI6(128)	CI6(128)	T	CI6(161)	CI6(152)	No	No
81	CI6(130)	CI6(130)	T	CI6(161)	CI6(152)	No	No
82	CI6(131)	CI6(131)	T	CI6(161)	CI6(152)	No	No
83	CI6(134)	CI6(134)	T	CI6(161)	CI6(152)	No	No
84	CI6(135)	CI6(135)	T	CI6(161)	CI6(152)	No	No
85	CI6(136)	CI6(136)	T	CI6(161)	CI6(152)	No	No
86	CI6(137)	CI6(137)	T	CI6(161)	CI6(152)	No	No
87	CI6(138)	CI6(138)	T	CI6(161)	CI6(152)	No	No
88	CI6(139)	CI6(139)	T	CI6(161)	CI6(152)	No	No
89	CI6(140)	CI6(140)	T	CI6(161)	CI6(152)	No	No
90	CI6(141)	CI6(141)	T	CI6(161)	CI6(152)	No	No
91	CI6(144)	CI6(144)	T	CI6(161)	CI6(152)	No	No
92	CI6(146)	CI6(146)	T	CI6(161)	CI6(152)	No	No
93	CI6(149)	CI6(149)	T	CI6(161)	CI6(152)	No	No
94	CI6(151)	CI6(151)	T	CI6(161)	CI6(152)	No	No
95	CI6(153)	CI6(153)	T	CI6(161)	CI6(152)	No	No
96	CI6(154)	CI6(154)	T	CI6(161)	CI6(152)	No	No
97	CI6(155)	CI6(155)	T	CI5(96)	CI3(34)	No	No
98	CI6(156)	CI6(156)	T	CI6(161)	CI6(152)	No	No
99	CI6(157)	CI6(157)	T	CI6(161)	CI6(152)	No	No
100	CI6(158)	CI6(158)	T	CI6(161)	CI6(152)	No	No
101	CI6(163)	CI6(163)	T	CI6(161)	CI6(152)	No	No
102	CI6(164)	CI6(164)	T	CI6(161)	CI6(152)	No	No
103	CI6(166)	CI6(166)	T	CI6(161)	CI6(152)	No	No
104	CI6(167)	CI6(167)	T	CI6(161)	CI6(152)	No	No
105	CI6(169)	CI6(169)	T	CI6(161)	CI6(152)	No	No
106	CI7(170)	CI7(170)	T	CI6(161)	CI6(152)	No	No
107	CI7(171)	CI7(171)	T	CI6(161)	CI6(152)	No	No
108	CI7(172)	CI7(172)	T	CI6(161)	CI6(152)	No	No
109	CI7(173)	CI7(173)	T	CI6(161)	CI6(152)	No	No
110	CI7(174)	CI7(174)	T	CI6(161)	CI6(152)	No	No



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Attachment 2: Test Codes

Project Test Code Name: Master_315

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
111	CI7(175)	CI7(175)	T	CI6(161)	CI6(152)	No	No
112	CI7(176)	CI7(176)	T	CI6(161)	CI6(152)	No	No
113	CI7(177)	CI7(177)	T	CI6(161)	CI6(152)	No	No
114	CI7(178)	CI7(178)	T	CI6(161)	CI6(152)	No	No
115	CI7(179)	CI7(179)	T	CI6(161)	CI6(152)	No	No
116	CI7(180)	CI7(180)	T	CI6(161)	CI6(152)	No	No
117	CI7(183)	CI7(183)	T	CI6(161)	CI6(152)	No	No
118	CI7(184)	CI7(184)	T	CI6(161)	CI6(152)	No	No
119	CI7(185)	CI7(185)	T	CI6(161)	CI6(152)	No	No
120	CI7(187)	CI7(187)	T	CI6(161)	CI6(152)	No	No
121	CI7(188)	CI7(188)	T	CI6(161)	CI6(152)	No	No
122	CI7(189)	CI7(189)	T	CI6(161)	CI6(152)	No	No
123	CI7(190)	CI7(190)	T	CI6(161)	CI6(152)	No	No
124	CI7(191)	CI7(191)	T	CI6(161)	CI6(152)	No	No
125	CI7(193)	CI7(193)	T	CI6(161)	CI6(152)	No	No
126	CI8(194)	CI8(194)	T	CI6(161)	CI6(152)	No	No
127	CI8(195)	CI8(195)	T	CI6(161)	CI6(152)	No	No
128	CI8(197)	CI8(197)	T	CI6(161)	CI6(152)	No	No
129	CI8(198)	CI8(198)	T	CI6(161)	CI6(152)	No	No
130	CI8(199)	CI8(199)	T	CI6(161)	CI6(152)	No	No
131	CI8(200)	CI8(200)	T	CI6(161)	CI6(152)	No	No
132	CI8(201)	CI8(201)	T	CI6(161)	CI6(152)	No	No
133	CI8(202)	CI8(202)	T	CI6(161)	CI6(152)	No	No
134	CI8(203)	CI8(203)	T	CI6(161)	CI6(152)	No	No
135	CI8(205)	CI8(205)	T	CI6(161)	CI6(152)	No	No
136	CI9(206)	CI9(206)	T	CI6(161)	CI6(152)	No	No
137	CI9(207)	CI9(207)	T	CI6(161)	CI6(152)	No	No
138	CI9(208)	CI9(208)	T	CI6(161)	CI6(152)	No	No
139	CI10(209)	CI10(209)	T	CI6(161)	CI6(152)	No	No
140	LOC 1	LOC 1	T	CI5(96)	CI3(34)	No	No
141	LOC 2	LOC 2	T	CI5(96)	CI3(34)	No	No
142	LOC 3	LOC 3	T	CI5(96)	CI3(34)	No	No
143	LOC 4	LOC 4	T	CI5(96)	CI3(34)	No	No
144	LOC 5	LOC 5	T	CI5(96)	CI3(34)	No	No
145	LOC 6	LOC 6	T	CI6(161)	CI6(152)	No	No
146	LOC 7	LOC 7	T	CI6(161)	CI6(152)	No	No
147	LOC 8	LOC 8	T	CI6(161)	CI6(152)	No	No
148	LOC 9	LOC 9	T	CI6(161)	CI6(152)	No	No
149	LOC 10	LOC 10	T			No	No
1	CI3(34)	CI3(34)	SIS	CI5(96)		No	No
2	CI6(152)	CI6(152)	SIS	CI6(161)		No	No
Total Analytes:		151					

Subtract Peaks:

None

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_315

Sum Peaks:

Compound:		LOC 1				
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl1(1)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl1(3)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Compound:		LOC 2				
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl2(4)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(5)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(6)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(7)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(8)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(9)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(11)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(12)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(13)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(15)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Compound:		LOC 3				
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl3(16)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(17)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(18)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(19)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(22)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(24)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(25)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(26)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(27)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(28)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(29)	1.000	No	FIXED-ZERO	Replace a non-detect with 0		
Cl3(30)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(31)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(32)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(33)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(37)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(38)	1.000	No	FIXED-ZERO	Replace a non-detect with 0		
Compound:		LOC 4				
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl4(40)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(41)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(42)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(43)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(44)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(45)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		



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Attachment 2: Test Codes

Project Test Code Name: Master_315

Compound: LOC 4						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl4(46)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(47)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(48)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(49)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(50)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(51)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(52)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(53)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(54)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(56)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(60)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(63)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(64)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(66)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(67)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(70)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(71)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(74)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(75)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(77)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(80)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(81)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl4(61)		1.000	No	FIXED-ZERO	Replace a non-detect with 0	
Compound: LOC 5						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl5(82)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(83)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(84)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(85)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(87)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(91)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(92)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(95)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(97)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(99)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(100)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(101)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(104)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(105)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(110)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(114)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(115)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(118)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(123)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	



The Business of Innovation

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_315

Compound:		LOC 5				
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl5(124)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl5(125)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl5(126)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl5(127)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Compound:		LOC 6				
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl6(128)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(130)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(131)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(134)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(135)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(136)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(137)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(138)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(139)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(140)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(141)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(144)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(146)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(149)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(151)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(153)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(154)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(155)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(156)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(157)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(158)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(163)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(164)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(166)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(167)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(169)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Compound:		LOC 7				
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl7(170)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(171)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(172)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(173)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(174)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(175)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(176)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(177)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(178)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		

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The Business of Innovation

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_315

Compound: LOC 7						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl7(179)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(180)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(183)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(184)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(185)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(187)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(188)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(189)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(190)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(191)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(193)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(186)	1.000	No	FIXED-ZERO	Replace a non-detect with 0		
Compound: LOC 8						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl8(194)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(195)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(197)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(198)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(199)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(200)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(201)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(202)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(203)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(205)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Compound: LOC 9						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl9(206)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl9(207)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl9(208)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Compound: LOC 10						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl10(209)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_315

ICAL Acceptance Criteria:

Curve Fit:	Limit Mean(%):	Mean Qual:	Limit Ind.:	Ind. Qual:	Min Points:	Points Qual:	Comments:
Linear	NA	NA	0.995	N	5	N	$y = Bx + C$
Average RF	15	N	25	N	5	N	$y = Bx$
Linear (0,0)	NA	NA	0.995	N	5	N	$y = Bx + 0$
Quadratic	NA	NA	0.995	N	6	N	$y = Ax^2 + Bx + C$
Quadratic (0,0)	NA	NA	0.995	N	6	N	$y = Ax^2 + Bx + 0$

Continuing Calibration Verification Criteria:

CCV Name: 5-315

Frequency Hrs:	Mean PD(%):	Individual PD(%):	RIS/SIS RT Window (min):	Area Limit Low(%):	Area Limit High(%):	Comment:
24 (N)	15 (N)	25 (N)	0.25 (N)	-50	100 (N)	NA

Independent Calibration Verification:

ICC Name: 5-315

Mean PD Limit(%):	Ind. PD Limit(%):	RIS/SIS Window Limit (Secs):	Area Limit High(%):	Area Limit Low(%):	Comment:
25 (N)	25 (N)	0.25 (N)	-50	100 (N)	NA

Mass Discrimination Criteria:

None

Degredation Check Criteria:

Degredation Check Name: 5-315

DDT Breakdown Limit (%):	Endrin Breakdown Limit(%):	Total Breakdown Limit(%):	Comment:
20 (N)	20 (N)	20 (N)	

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 3: Method Quality Objectives

MQO Application:		USACE/NBH	
MQO:	Acceptance Criteria:	Qual:	Corrective Action:
Procedural Blank	Samples must be greater than five times the blank concentration (>5xPB).	B	Review with Project Manager; re-analyze or justify results in project records.
PB Measurement Quality Objective	Organic results in the Procedural Blank are less than the ssRL (<ssRL)	N	
Laboratory Control Sample	Recovery values 40-120%.	N	Review with project manager; re-analyze or justify reporting the results in project records.
Matrix Spike Recovery	Organics 40-120%. Analyte concentration in MS must be greater than five times reported background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Matrix Spike/Spike Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Spike must be >5x background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Standard Reference Material Accuracy	Organics Percent Difference less than 30% from a range of certified values on average. Analyte concentration must be greater than five times the Method Detection Limit (>5xMDL).	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the MDL	n	
Analytical Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Concentration must be >10X the MDL.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Original is less than 10 times the MDL	n	
Analytical Triplicate Precision	Organics results less than 30% Relative Standard Deviation (RSD). Concentration must be >10X the MDL.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Original is less than 10 times the MDL	n	
Surrogate Compound Recovery	Recovery results between 40% and 120%.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.

WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 3: Method Quality Objectives

MQO Application:		USACE/NBH	
MQO:	Acceptance Criteria:	Qual:	Corrective Action:
Control Oil	RPD < 30% for at least 90% of analytes	N	Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
		n	
Instrument Calibration	5-315-10: R-squared greater than or equal to 0.995 Mean RSD less than or equal to 15%, Individual RSD less than or equal to 25%	N	Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
Independent Calibration Check Solution	5-315-10: Individual PD less than or equal to 25%. Mean Percent Difference less than or equal to 25%.	N	Review with Project Manager; re-analyze or justify in project records.
Continuing Calibration Verification	5-315-10: Individual PD less than or equal to 25%. Mean Percent Difference less than or equal to 15%.	N	

Sample Receipt Form

Approved: ☒ Authorized ☐

Project Number: 100043429

Client: USACE

Received by: Schumitz, Matt

Date/Time Received: Tuesday, November 25, 2014 3:30 PM

No. of Shipping Containers: 1

SHIPMENT

Method of Delivery: Hand Delivered

Tracking Number: NA

COC Forms: ☒ Shipped with samples ☐ No Forms

Cooler(s)/Box(es)

Cntr	Type	Tracking No.	Seal	Seal Condition	Container Condition	Temp C	Smps
1 of 1	No Container		None	Not Applicable	Not Applicable	-20.0	138

Samples

Sample Labels: ☒ Sample labels agree with COC forms
☐ Discrepancies (see Sample Custody Corrective Action Form)

Container Seals: ☐ Tape ☐ Custody Seals ☐ Other Seals (See sample Log)
☒ Seals intact for each shipping container
☐ Seals broken (See sample log for impacted samples)

Condition of Samples: ☒ Sample containers intact
☐ Sample containers broken/leaking (See Custody Corrective Action Form)

Temperature upon receipt (°C): -20 Temperature Blank used ☐ Yes ☒ No
(Note: If temperature upon receipt differs from required conditions, see sample log comment field)

Samples Acidified: ☐ Yes ☐ No ☒ Unknown

Initial pH 5-9?: ☐ Yes ☐ No ☒ NA
If no, individual sample adjustments on the Auxiliary Sample Receipt Form

Total Residual Chlorine Present?: ☐ Yes ☐ No ☒ NA
If yes, individual sample adjustments on the Auxiliary Sample Receipt Form

Head Space <1% in samples for water VOC analysis: ☐ Yes ☐ No ☒ NA
Individual sample deviations noted on sample log

Samples Containers:
 Samples returned in PC-grade jars: ☐ Yes ☐ No ☒ Unknown /Lot No.: UnKnown

Storage Location: Custody: Freezer - F0113 (NA) BDO IDs Assigned: L0031 - L0168

Samples logged in by: Schumitz, Matt Date/Time: 11/25/2014 3:30 PM

Approved By: Brackett, Roxanne Approved On: 12/5/2014 11:43:00 AM

Authorized By: _____ Authorized On: _____

Report Corrective Actions

Corrective Action No: 1 of 1Authorized ☐ Approved: ☐COC Client: USACECOC Project: New Bedford Harbor(POST)COC Date: 11/25/2014 4:19

	Description of Problem:	Explanation:
Client Id	Missing samples listed on the C-O-C	There was a set of duplicate ID's on the COC that were not present.
	Other	Corrections made from the samplers are attached in an email.

Documentation of project manager notification

Sample Custodian Schumitz, Matt Date: 12/5/2014 3:21:00 PMLaboratory Manager: Lizotte Jr, Robert Date: 3/2/2015 3:30:00 PMProject Manager Peven-McCarthy, Carole Date: 3/2/2015 12:19:00 PM

Documentation of client notification (should be completed by project manager within 24 hrs):

On _____ I contacted _____ at _____

Results of communication with client (Describe any corrective action directed by the client):

Corrective actions resolved by field team. See emails included with custody records.

Date this form was received back to the custodian: _____

Reference Number: _____

Schumitz, Matthew

From: Fitzpatrick, Matthew R
Sent: Friday, December 05, 2014 11:55 AM
To: Schumitz, Matthew
Cc: Dahlen, Deirdre T; Tenzar, Jessica M
Subject: Sample ids for NBH post dredge cores

Hey Matt,

Here's a list of sample ids that had confused 0 and O in our field EDD. Additionally, station PV9 should be PU9. Can you please make sure this is how they appear in LIMs and if they don't then can you correct them?

Sample Id	Station	Date	Time
S-14N-LS03-00-05	LS03	11/19/2014	8:45
S-14N-LS03-07-12	LS03	11/19/2014	8:45
S-14N-PU9-00-05	PU9	11/18/2014	14:10
S-14N-PU9-00-05	PU9	11/18/2014	14:10
S-14N-S02-00-05	S02	11/19/2014	13:49
S-14N-S02-10-15	S02	11/19/2014	13:49
S-14N-S09-00-05	S09	11/19/2014	13:33
S-14N-S09-07-12	S09	11/19/2014	13:33

Jess- we should change the font on the labels to Consolas so that we can see the differences like above.

Matt Fitzpatrick

Battelle Energy & Environment

141 Longwater Dr.

Suite 202

Norwell, MA 02061

P: 781-681-5535 | C: 781-733-6797 | F: 614-458-6884

fitzpatrickm@battelle.org | www.battelle.org

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ShpNo SHP-141125-04**Battelle***The Business of Innovation***Battelle Project No:** _____**Sample Receipt Form Details**Approved: ☒ Authorized: ☐**Project Number:** 100043429 **Client:** USACE**Received by:** Schumitz, Matt **Date/Time Received:** Tuesday, November 25, 2014 3:30 PM**No. of Shipping Containers:** 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0031	S-14N-RN06-00-05	11/25/14 7:52	12/01/14 14:08	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0032	S-14N-RN06-10-15	11/25/14 7:52	12/01/14 14:08	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0033	S-14N-RR10-00-05	11/25/14 8:38	12/01/14 14:09	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0034	S-14N-RR10-05-10	11/25/14 8:38	12/01/14 14:09	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0035	S-14N-RM11-00-05	11/25/14 9:02	12/01/14 14:09	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0036	S-14N-RM11-05-10	11/25/14 9:02	12/01/14 14:09	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0037	S-14N-RS14-00-05	11/25/14 9:55	12/01/14 14:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0038	S-14N-RS14-05-10	11/25/14 9:55	12/01/14 14:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0039	S-14N-RM14-00-05	11/25/14 9:23	12/01/14 14:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0040	S-14N-RM14-05-10	11/25/14 9:23	12/01/14 14:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0041	S-14N-OI5-08-13	11/17/14 11:28	12/01/14 14:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0042	S-14N-OH10-09-14	11/17/14 11:42	12/01/14 14:11	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0043	S-14N-OH15-07-12	11/17/14 11:56	12/01/14 14:11	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0044	S-14N-OI18-05-10	11/17/14 12:15	12/01/14 14:12	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0045	S-14N-OP18-05-10	11/17/14 12:28	12/01/14 14:12	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0046	S-14N-OJ13-09-14	11/17/14 12:43	12/01/14 14:12	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0047	S-14N-OJ13-06-11-REP	11/17/14 12:58	12/01/14 14:13	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0048	S-14N-OL9-09-14	11/17/14 13:16	12/01/14 14:13	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0049	S-14N-OP10-05-10	11/17/14 13:30	12/01/14 14:13	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0050	S-14N-OP10-05-10-REP	11/17/14 13:50	12/01/14 14:14	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0051	S-14N-RDD02-06-11	11/18/14 8:15	12/01/14 14:19	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0052	S-14N-RG01-05-10	11/18/14 8:30	12/01/14 14:19	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0053	S-14N-RF07-07-12	11/18/14 9:00	12/01/14 14:19	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0054	S-14N-RF11-08-13	11/18/14 9:15	12/01/14 14:19	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0055	S-14N-RI22-12-17	11/18/14 9:25	12/01/14 14:20	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0056	S-14N-RI22-29-34	11/18/14 10:15	12/01/14 14:20	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0057	S-14N-RG24-05-10	11/18/14 10:30	12/01/14 14:20	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0058	S-14N-RG24-29-34	11/18/14 10:30	12/01/14 14:21	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

ShpNo SHP-141125-04**Battelle***The Business of Innovation***Battelle Project No:** _____**Sample Receipt Form Details**Approved: ☒ Authorized: ☐**Project Number:** 100043429 **Client:** USACE**Received by:** Schumitz, Matt **Date/Time Received:** Tuesday, November 25, 2014 3:30 PM**No. of Shipping Containers:** 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0059	S-14N-RM26-12-17	11/18/14 11:05	12/01/14 14:21	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0060	S-14N-RM26-10-15-REP	11/18/14 11:15	12/01/14 14:21	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0061	S-14N-PP2-11-16	11/18/14 12:50	12/01/14 14:22	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0062	S-14N-PQ5-05-10	11/18/14 13:05	12/01/14 14:22	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0063	S-14N-PR10-05-10	11/18/14 13:25	12/01/14 14:23	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0064	S-14N-PCC15-05-10	11/18/14 13:45	12/01/14 14:23	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0065	S-14N-PW13-05-10	11/18/14 14:00	12/01/14 14:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0066	S-14N-PU9-00-05	11/18/14 14:10	12/01/14 14:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0067	S-14N-PV5-05-10	11/18/14 14:20	12/01/14 14:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0068	S-14N-LS03-07-12	11/19/14 8:45	12/01/14 14:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0069	S-14N-LU07-07-12	11/19/14 8:59	12/01/14 14:25	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0070	S-14N-LZ02-05-10	11/19/14 9:17	12/01/14 14:25	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0071	S-14N-LY12-08-13	11/19/14 9:33	12/01/14 14:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0072	S-14N-REE06-05-10	11/19/14 10:20	12/01/14 14:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0073	S-14N-RCC10-08-13	11/19/14 10:34	12/01/14 14:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0074	S-14N-RCC14-09-14	11/19/14 10:49	12/01/14 14:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0075	S-14N-RBB22-05-10	11/19/14 11:05	12/01/14 14:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0076	S-14N-RW14-05-10	11/19/14 11:21	12/01/14 14:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0077	S-14N-RW18-05-10	11/19/14 14:36	12/01/14 14:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0078	S-14N-SL9-07-12	11/19/14 12:47	12/01/14 14:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0079	S-14N-SM6-07-12	11/19/14 13:19	12/01/14 14:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0080	S-14N-SO2-10-15	11/19/14 13:49	12/01/14 14:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0081	S-14N-SO9-07-12	11/19/14 13:33	12/01/14 14:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0082	S-14N-SL2-00-05	11/19/14 13:01	12/01/14 14:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0083	S-14N-RZ32-10-15	11/19/14 14:02	12/01/14 14:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0084	S-14N-RW30-15-20	11/19/14 14:24	12/01/14 14:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0085	S-14N-RV06-07-12	11/19/14 15:05	12/01/14 14:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0086	S-14N-RT02-05-10	11/19/14 15:14	12/01/14 14:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

ShpNo SHP-141125-04**Battelle***The Business of Innovation***Battelle Project No:** _____**Sample Receipt Form Details**Approved: ☒ Authorized: ☐**Project Number:** 100043429 **Client:** USACE**Received by:** Schumitz, Matt **Date/Time Received:** Tuesday, November 25, 2014 3:30 PM**No. of Shipping Containers:** 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0087	S-14N-LBB16-05-10	11/20/14 8:35	12/01/14 14:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0088	S-14N-RF31-09-14	11/20/14 8:55	12/01/14 14:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0089	S-14N-RH27-09-14	11/20/14 9:05	12/01/14 14:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0090	S-14N-LBB07-05-10	11/20/14 8:00	12/01/14 14:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0091	S-14N-RGG22-05-10	11/20/14 14:15	12/01/14 14:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0092	S-14N-RQ26-12-17	11/20/14 15:20	12/01/14 14:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0093	S-14N-RP30-07-12	11/20/14 14:45	12/01/14 14:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0094	S-14N-RS22-15-20	11/21/14 9:49	12/01/14 14:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0095	S-14N-RO32-08-13	11/21/14 7:56	12/01/14 14:55	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0096	S-14N-RU26-09-14	11/21/14 9:22	12/01/14 14:55	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0097	S-14N-RU32-05-15	11/21/14 8:37	12/01/14 14:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0098	S-14N-RK08-06-11	11/21/14 13:01	12/01/14 14:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0099	S-14N-RN18-07-12	11/21/14 13:27	12/01/14 14:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0100	S-14N-LU12-07-12	11/19/14 9:57	12/01/14 14:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0101	S-14N-OI5-00-05	11/17/14 11:28	12/01/14 14:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0102	S-14N-OH10-00-05	11/17/14 11:42	12/01/14 14:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0103	S-14N-OH15-00-05	11/17/14 11:56	12/01/14 14:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0104	S-14N-OI18-00-05	11/17/14 12:15	12/01/14 14:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0105	S-14N-OP18-00-05	11/17/14 12:28	12/01/14 14:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0106	S-14N-OJ13-00-05	11/17/14 12:43	12/01/14 14:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0107	S-14N-OJ13-00-05-REP	11/17/14 12:58	12/01/14 14:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0108	S-14N-OL9-00-05	11/17/14 13:16	12/01/14 14:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0109	S-14N-OP10-00-05	11/17/14 13:30	12/01/14 14:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0110	S-14N-OP10-00-05-REP	11/17/14 13:50	12/01/14 14:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0111	S-14N-RDD02-00-05	11/18/14 8:15	12/01/14 15:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0112	S-14N-RG01-00-05	11/18/14 8:30	12/01/14 15:29	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0113	S-14N-RF07-00-05	11/18/14 9:00	12/01/14 15:29	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0114	S-14N-RF11-00-05	11/18/14 9:15	12/01/14 15:29	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Battelle*The Business of Innovation***Battelle Project No:** _____**Sample Receipt Form Details**Approved: ☒ Authorized: ☐**Project Number:** 100043429 **Client:** USACE**Received by:** Schumitz, Matt **Date/Time Received:** Tuesday, November 25, 2014 3:30 PM**No. of Shipping Containers:** 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0115	S-14N-RI22-00-05	11/18/14 10:15	12/01/14 15:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0116	S-14N-RG24-00-05	11/18/14 10:30	12/01/14 15:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0117	S-14N-RM26-00-05	11/18/14 11:05	12/01/14 15:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0118	S-14N-RM26-00-05-REP	11/18/14 11:15	12/01/14 15:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0119	S-14N-PP2-00-05	11/18/14 12:50	12/01/14 15:31	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0120	S-14N-PQ5-00-05	11/18/14 13:05	12/01/14 15:31	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0121	S-14N-PR10-00-05	11/18/14 13:25	12/01/14 15:31	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0122	S-14N-PCC15-00-05	11/18/14 13:45	12/01/14 15:32	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0123	S-14N-PW13-00-05	11/18/14 14:00	12/01/14 15:32	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0124	S-14N-PU9-00-05	11/18/14 14:10	12/01/14 15:32	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0125	S-14N-PV5-00-05	11/18/14 14:20	12/01/14 15:32	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0126	S-14N-LS03-00-05	11/19/14 8:45	12/01/14 15:33	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0127	S-14N-LU07-00-05	11/19/14 8:59	12/01/14 15:33	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0128	S-14N-LZ02-00-05	11/19/14 9:17	12/01/14 15:33	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0129	S-14N-LY12-00-05	11/19/14 9:33	12/01/14 15:33	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0130	S-14N-REE06-00-05	11/19/14 10:20	12/01/14 15:34	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0131	S-14N-RCC10-00-05	11/19/14 10:34	12/01/14 15:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0132	S-14N-RCC14-00-05	11/19/14 10:49	12/01/14 15:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0133	S-14N-RBB22-00-05	11/19/14 11:05	12/01/14 15:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0134	S-14N-RW14-00-05	11/19/14 11:21	12/01/14 15:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0135	S-14N-RW18-00-05	11/19/14 14:36	12/01/14 15:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0136	S-14N-SL9-00-05	11/19/14 12:47	12/01/14 15:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0137	S-14N-SM6-00-05	11/19/14 13:19	12/01/14 15:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0138	S-14N-SO2-00-05	11/19/14 13:49	12/01/14 15:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0139	S-14N-SO9-00-05	11/19/14 13:33	12/01/14 15:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0140	S-14N-SL2-00-05	11/19/14 13:01	12/01/14 15:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0141	S-14N-RZ32-00-05	11/19/14 14:02	12/01/14 15:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0142	S-14N-RW30-00-05	11/19/14 14:24	12/01/14 15:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

ShpNo SHP-141125-04**Battelle***The Business of Innovation***Battelle Project No:** _____**Sample Receipt Form Details**Approved: ☒ Authorized: ☐**Project Number:** 100043429 **Client:** USACE**Received by:** Schumitz, Matt **Date / Time Received:** Tuesday, November 25, 2014 3:30 PM**No. of Shipping Containers:** 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0143	S-14N-RV06-00-05	11/19/14 15:05	12/01/14 15:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0144	S-14N-RT02-00-05	11/19/14 15:14	12/01/14 15:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0145	S-14N-LBB16-00-05	11/20/14 8:35	12/01/14 15:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0146	S-14N-RF31-00-05	11/20/14 8:55	12/01/14 15:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0147	S-14N-RH27-00-05	11/20/14 9:05	12/01/14 15:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0148	S-14N-LBB07-00-05	11/20/14 8:00	12/01/14 15:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0149	S-14N-RGG22-00-05	11/20/14 14:15	12/01/14 15:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0150	S-14N-RQ26-00-05	11/20/14 15:20	12/01/14 15:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0151	S-14N-RP30-00-05	11/20/14 14:45	12/01/14 15:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0152	S-14N-RS22-00-05	11/21/14 9:49	12/01/14 15:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0153	S-14N-RO32-00-05	11/21/14 7:56	12/01/14 15:47	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0154	S-14N-RU26-00-05	11/21/14 9:22	12/01/14 15:48	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0155	S-14N-RU32-00-05	11/21/14 8:37	12/01/14 15:48	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0156	S-14N-RK08-00-05	11/21/14 13:01	12/01/14 15:48	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0157	S-14N-RN18-00-05	11/21/14 13:27	12/01/14 15:49	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0158	S-14N-LU12-00-05	11/19/14 9:57	12/01/14 15:49	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0159	DELETE	11/25/14 7:52	12/01/14 15:49	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0160	DELETE	11/25/14 7:52	12/01/14 15:49	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0161	DELETE	11/25/14 8:38	12/01/14 15:50	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0162	DELETE	11/25/14 8:38	12/01/14 15:50	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0163	DELETE	11/25/14 9:02	12/01/14 15:50	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0164	DELETE	11/25/14 9:02	12/01/14 15:50	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0165	DELETE	11/25/14 9:55	12/01/14 15:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0166	DELETE	11/25/14 9:55	12/01/14 15:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0167	DELETE	11/25/14 9:23	12/01/14 15:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0168	DELETE	11/25/14 9:23	12/01/14 15:52	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Total Samples: 138

Battelle <i>The Business of Innovation</i>						Chain of Custody					Project Manager: Jeanine Boyle Phone: (781) 952-5327	
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord , MA 01742			Samplers Signature:			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797						
		Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)						
						PCB	4° C	TOC	4° C	Grain Size		
11/25/2014	7:52	S-14N-RN06-00-05	20031	SEDIMENT	RN06	1	X					
11/25/2014	7:52	S-14N-RN06-10-15	32	SEDIMENT	RN06	1	X					
11/25/2014	8:38	S-14N-RR10-00-05	33	SEDIMENT	RR10	1	X					
11/25/2014	8:38	S-14N-RR10-05-10	34	SEDIMENT	RR10	1	X					
11/25/2014	9:02	S-14N-RM11-00-05	35	SEDIMENT	RM11	1	X					
11/25/2014	9:02	S-14N-RM11-05-10	36	SEDIMENT	RM11	1	X					
11/25/2014	9:55	S-14N-RS14-00-05	37	SEDIMENT	RS14	1	X					
11/25/2014	9:55	S-14N-RS14-05-10	38	SEDIMENT	RS14	1	X					
11/25/2014	9:23	S-14N-RM14-00-05	39	SEDIMENT	RM14	1	X					
11/25/2014	9:23	S-14N-RM14-05-10	40	SEDIMENT	RM14	1	X					
11/17/2014	11:28	S-14N-OI5-08-13	41	SEDIMENT	OI5	1	X					
11/17/2014	11:42	S-14N-OH10-09-14	42	SEDIMENT	OH10	1	X					
11/17/2014	11:56	S-14N-OH15-07-12	43	SEDIMENT	OH15	1	X					
11/17/2014	12:15	S-14N-OI18-05-10	44	SEDIMENT	OI18	1	X					
11/17/2014	12:28	S-14N-OP18-05-10	45	SEDIMENT	OP18	1	X					
11/17/2014	12:43	S-14N-OJ13-09-14	46	SEDIMENT	OJ13	1	X					
11/17/2014	12:58	S-14N-OJ13-06-11-REP	47	SEDIMENT	OJ13	1	X					
11/17/2014	13:16	S-14N-OL9-09-14	48	SEDIMENT	OL9	1	X					
11/17/2014	13:30	S-14N-OP10-05-10	49	SEDIMENT	OP10	1	X					
11/17/2014	13:50	S-14N-OP10-05-10-REP	50	SEDIMENT	OP10	1	X					

Relinquished By (name/date/time):

Received By(name/date/time):

IBC 11-25-14 1530

MJ 11-25-14 1530

Battelle <i>The Business of Innovation</i> Chain of Custody						Project Manager: Jeanine Boyle Phone: (781) 952-5327				
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord , MA 01742			Samplers Signature:			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797				
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)				
						PCB	4° C	TOC	4° C	Grain Size
11/18/2014	8:15	S-14N-RDD02-06-11	L0051	SEDIMENT	RDD02	1	X			
11/18/2014	8:30	S-14N-RG01-05-10	" " 52	SEDIMENT	RG01	1	X			
11/18/2014	9:00	S-14N-RF07-07-12	53	SEDIMENT	RF07	1	X			
11/18/2014	9:15	S-14N-RF11-08-13	54	SEDIMENT	RF11	1	X			
11/18/2014	9:25	S-14N-RI22-12-17	55	SEDIMENT	RI22	1	X			
11/18/2014	10:15	S-14N-RI22-29-34	56	SEDIMENT	RI22	1	X			
11/18/2014	10:30	S-14N-RG24-05-10	57	SEDIMENT	RG24	1	X			
11/18/2014	10:30	S-14N-RG24-29-34	58	SEDIMENT	RG24	1	X			
11/18/2014	11:05	S-14N-RM26-12-17	59	SEDIMENT	RM26	1	X			
11/18/2014	11:15	S-14N-RM26-10-15-REP	60	SEDIMENT	RM26	1	X			
11/18/2014	12:50	S-14N-PP2-11-16	61	SEDIMENT	PP2	1	X			
11/18/2014	13:05	S-14N-PQ5-05-10	62	SEDIMENT	PQ5	1	X			
11/18/2014	13:25	S-14N-PR10-05-10	63	SEDIMENT	PR10	1	X			
11/18/2014	13:45	S-14N-PCC15-05-10	64	SEDIMENT	PCC15	1	X			
11/18/2014	14:00	S-14N-PW13-05-10	65	SEDIMENT	PW13	1	X			
11/18/2014	14:10	S-14N-PV9-00-05	66	SEDIMENT	PV9	1	X			
11/18/2014	14:20	S-14N-PV5-05-10	67	SEDIMENT	PV5	1	X			
11/19/2014	8:45	S-14N-LSO3-07-12	68	SEDIMENT	LSO3	1	X			
11/19/2014	8:59	S-14N-LU07-07-12	69	SEDIMENT	LU07	1	X			
11/19/2014	9:17	S-14N-LZ02-05-10	70	SEDIMENT	LZ02	1	X			

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Relinquished By (name/date/time):

Received By(name/date/time):

PRC 11-25-14 1530

MB 11-25-14 1530

 Chain of Custody						Project Manager: Jeanine Boyle Phone: (781) 952-5327				
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord , MA 01742			Samplers Signature:			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797				
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)				
						PCB	4° C	TOC	4° C	Grain Size
11/19/2014	9:33	S-14N-LY12-08-13	L0071	SEDIMENT	LY12	1	X			
11/19/2014	10:20	S-14N-REE06-05-10	" 72	SEDIMENT	REE06	1	X			
11/19/2014	10:34	S-14N-RCC10-08-13	73	SEDIMENT	RCC10	1	X			
11/19/2014	10:49	S-14N-RCC14-09-14	74	SEDIMENT	RCC14	1	X			
11/19/2014	11:05	S-14N-RBB22-05-10	75	SEDIMENT	RBB22	1	X			
11/19/2014	11:21	S-14N-RW14-05-10	76	SEDIMENT	RW14	1	X			
11/19/2014	14:36	S-14N-RW18-05-10	77	SEDIMENT	RW18	1	X			
11/19/2014	12:47	S-14N-SL9-07-12	78	SEDIMENT	SL9	1	X			
11/19/2014	13:19	S-14N-SM6-07-12	79	SEDIMENT	SM6	1	X			
11/19/2014	13:49	S-14N-S02-10-15	80	SEDIMENT	S02	1	X			
11/19/2014	13:33	S-14N-S09-07-12	81	SEDIMENT	S09	1	X			
11/19/2014	13:01	S-14N-SL2-00-05	82	SEDIMENT	SL2	1	X			
11/19/2014	14:02	S-14N-RZ32-10-15	83	SEDIMENT	RZ32	1	X			
11/19/2014	14:24	S-14N-RW30-15-20	84	SEDIMENT	RW30	1	X			
11/19/2014	15:05	S-14N-RV06-07-12	85	SEDIMENT	RV06	1	X			
11/19/2014	15:14	S-14N-RT02-05-10	86	SEDIMENT	RT02	1	X			
11/20/2014	8:35	S-14N-LBB16-05-10	87	SEDIMENT	LBB16	1	X			
11/20/2014	8:55	S-14N-RF31-09-14	88	SEDIMENT	RF31	1	X			
11/20/2014	9:05	S-14N-RH27-09-14	89	SEDIMENT	RH27	1	X			
11/20/2014	8:00	S-14N-LBB07-05-10	90	SEDIMENT	LBB07	1	X			

Relinquished By (name/date/time):

PBC 11-25-14 1530

Received By(name/date/time):

MB 11-25-14 1530

Battelle <i>The Business of Innovation</i> Chain of Custody						Project Manager: Jeanine Boyle Phone: (781) 952-5327				
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord , MA 01742			Samplers Signature:		Site Contact: Matt Fitzpatrick Mobile: (781)733-6797					
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)				
						PCB	4° C	TOC	4° C	Grain Size
11/20/2014	14:15	S-14N-RGG22-05-10	10091	SEDIMENT	RGG22	1	X			
11/20/2014	15:20	S-14N-RQ26-12-17	10092	SEDIMENT	RQ26	1	X			
11/20/2014	14:45	S-14N-RP30-07-12	10093	SEDIMENT	RP30	1	X			
11/21/2014	9:49	S-14N-RS22-15-20	10094	SEDIMENT	RS22	1	X			
11/21/2014	7:56	S-14N-RO32-08-13	10095	SEDIMENT	RO32	1	X			
11/21/2014	9:22	S-14N-RU26-09-14	10096	SEDIMENT	RU26	1	X			
11/21/2014	8:37	S-14N-RU32-05-15	10097	SEDIMENT	RU32	1	X			
11/21/2014	13:01	S-14N-RK08-06-11	10098	SEDIMENT	RK08	1	X			
11/21/2014	13:27	S-14N-RN18-07-12	10099	SEDIMENT	RN18	1	X			
11/19/2104	9:57	S-14N-LU12-07-12	10100	SEDIMENT	LU12	1	X			
11/17/2014	11:28	S-14N-OI5-00-05	10101	SEDIMENT	OI5	1	X			
11/17/2014	11:42	S-14N-OH10-00-05	10102	SEDIMENT	OH10	1	X			
11/17/2014	11:56	S-14N-OH15-00-05	10103	SEDIMENT	OH15	1	X			
11/17/2014	12:15	S-14N-OI18-00-05	10104	SEDIMENT	OI18	1	X			
11/17/2014	12:28	S-14N-OP18-00-05	10105	SEDIMENT	OP18	1	X			
11/17/2014	12:43	S-14N-OJ13-00-05	10106	SEDIMENT	OJ13	1	X			
11/17/2014	12:58	S-14N-OJ13-00-05-REP	10107	SEDIMENT	OJ13	1	X			
11/17/2014	13:16	S-14N-OL9-00-05	10108	SEDIMENT	OL9	1	X			
11/17/2014	13:30	S-14N-OP10-00-05	10109	SEDIMENT	OP10	1	X			
11/17/2014	13:50	S-14N-OP10-00-05-REP	10110	SEDIMENT	OP10	1	X			

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Relinquished By (name/date/time):

Received By(name/date/time):

JB 11-25-14 1530

11-25-14 1530

Chain of Custody

Project Manager: Jeanine Boyle

Phone: (781) 952-5327

Ship to:
New England District, US Army Corps of
Engineers
696 Virginia Ave
Concord , MA 01742

Samplers Signature:

Site Contact: Matt Fitzpatrick
Mobile: (781)733-6797

Analyses (Record No. of containers / Preservative)

Date	Time	Field ID	Lab ID(s)	Matrix	station	PCB	4° C	TOC	4° C	Grain Size
11/18/2014	8:15	S-14N-RDD02-00-05	L0111	SEDIMENT	RDD02	1	X			
11/18/2014	8:30	S-14N-RG01-00-05	" " 12	SEDIMENT	RG01	1	X			
11/18/2014	9:00	S-14N-RF07-00-05	13	SEDIMENT	RF07	1	X			
11/18/2014	9:15	S-14N-RF11-00-05	14	SEDIMENT	RF11	1	X			
11/18/2014	10:15	S-14N-RI22-00-05	15	SEDIMENT	RI22	1	X			
11/18/2014	10:30	S-14N-RG24-00-05	16	SEDIMENT	RG24	1	X			
11/18/2014	11:05	S-14N-RM26-00-05	17	SEDIMENT	RM26	1	X			
11/18/2014	11:15	S-14N-RM26-00-05-REP	18	SEDIMENT	RM26	1	X			
11/18/2014	12:50	S-14N-PP2-00-05	19	SEDIMENT	PP2	1	X			
11/18/2014	13:05	S-14N-PQ5-00-05	20	SEDIMENT	PQ5	1	X			
11/18/2014	13:25	S-14N-PR10-00-05	21	SEDIMENT	PR10	1	X			
11/18/2014	13:45	S-14N-PCC15-00-05	22	SEDIMENT	PCC15	1	X			
11/18/2014	14:00	S-14N-PW13-00-05	23	SEDIMENT	PW13	1	X			
11/18/2014	14:10	S-14N-PV9-00-05	24	SEDIMENT	PV9	1	X			
11/18/2014	14:20	S-14N-PV5-00-05	25	SEDIMENT	PV5	1	X			
11/19/2014	8:45	S-14N-LSO3-00-05	26	SEDIMENT	LSO3	1	X			
11/19/2014	8:59	S-14N-LU07-00-05	27	SEDIMENT	LU07	1	X			
11/19/2014	9:17	S-14N-LZ02-00-05	28	SEDIMENT	LZ02	1	X			
11/19/2014	9:33	S-14N-LY12-00-05	29	SEDIMENT	LY12	1	X			
11/19/2014	10:20	S-14N-REE06-00-05	30	SEDIMENT	REE06	1	X			

Relinquished By (name/date/time):

Received By(name/date/time):

PBL 11-25-14 1530
MM 11-25-14 1530

 Chain of Custody						Project Manager: Jeanine Boyle Phone: (781) 952-5327				
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord, MA 01742			Samplers Signature:			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797				
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)				
						PCB	4° C	TOC	4° C	Grain Size
11/19/2014	10:34	S-14N-RCC10-00-05	LO31	SEDIMENT	RCC10	1	X			
11/19/2014	10:49	S-14N-RCC14-00-05	32	SEDIMENT	RCC14	1	X			
11/19/2014	11:05	S-14N-RBB22-00-05	33	SEDIMENT	RBB22	1	X			
11/19/2014	11:21	S-14N-RW14-00-05	34	SEDIMENT	RW14	1	X			
11/19/2014	14:36	S-14N-RW18-00-05	35	SEDIMENT	RW18	1	X			
11/19/2014	12:47	S-14N-SL9-00-05	36	SEDIMENT	SL9	1	X			
11/19/2014	13:19	S-14N-SM6-00-05	37	SEDIMENT	SM6	1	X			
11/19/2014	13:49	S-14N-S02-00-05	38	SEDIMENT	S02	1	X			
11/19/2014	13:33	S-14N-S09-00-05	39	SEDIMENT	S09	1	X			
11/19/2014	13:01	S-14N-SL2-00-05	40	SEDIMENT	SL2	1	X			
11/19/2014	14:02	S-14N-RZ32-00-05	41	SEDIMENT	RZ32	1	X			
11/19/2014	14:24	S-14N-RW30-00-05	42	SEDIMENT	RW30	1	X			
11/19/2014	15:05	S-14N-RV06-00-05	43	SEDIMENT	RV06	1	X			
11/19/2014	15:14	S-14N-RT02-00-05	44	SEDIMENT	RT02	1	X			
11/20/2014	8:35	S-14N-LBB16-00-05	45	SEDIMENT	LBB16	1	X			
11/20/2014	8:55	S-14N-RF31-00-05	46	SEDIMENT	RF31	1	X			
11/20/2014	9:05	S-14N-RH27-00-05	47	SEDIMENT	RH27	1	X			
11/20/2014	8:00	S-14N-LBB07-00-05	48	SEDIMENT	LBB07	1	X			
11/20/2014	14:15	S-14N-RGG22-00-05	49	SEDIMENT	RGG22	1	X			
11/20/2014	15:20	S-14N-RQ26-00-05	50	SEDIMENT	RQ26	1	X			

Relinquished By (name/date/time):

PBC 11-25-14 1530

Received By(name/date/time):

 11-25-14 1530

Battelle <i>The Business of Innovation</i>						Chain of Custody					Project Manager: Jeanine Boyle Phone: (781) 952-5327	
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord , MA 01742			Samplers Signature:			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797						
						Analyses (Record No. of containers / Preservative)						
Date	Time	Field ID	Lab ID(s)	Matrix	station	PCB	4° C	TOC	4° C	Grain Size		
11/20/2014	14:45	S-14N-RP30-00-05	10151	SEDIMENT	RP30	1	X					
11/21/2014	9:49	S-14N-RS22-00-05	52	SEDIMENT	RS22	1	X					
11/21/2014	7:56	S-14N-RO32-00-05	53	SEDIMENT	RO32	1	X					
11/21/2014	9:22	S-14N-RU26-00-05	54	SEDIMENT	RU26	1	X					
11/21/2014	8:37	S-14N-RU32-00-05	55	SEDIMENT	RU32	1	X					
11/21/2014	13:01	S-14N-RK08-00-05	56	SEDIMENT	RK08	1	X					
11/21/2014	13:27	S-14N-RN18-00-05	57	SEDIMENT	RN18	1	X					
11/19/2104	9:57	S-14N-LU12-00-05	58	SEDIMENT	LU12	1	X					
* 11/25/2014	7:52	S-14N-RN06-00-05	59	SEDIMENT	RN06	1	X					
* 11/25/2014	7:52	S-14N-RN06-10-15	60	SEDIMENT	RN06	1	X					
* 11/25/2014	8:38	S-14N-RR10-00-05	61	SEDIMENT	RR10	1	X					
* 11/25/2014	8:38	S-14N-RR10-05-10	62	SEDIMENT	RR10	1	X					
* 11/25/2014	9:02	S-14N-RM11-00-05	63	SEDIMENT	RM11	1	X					
* 11/25/2014	9:02	S-14N-RM11-05-10	64	SEDIMENT	RM11	1	X					
* 11/25/2014	9:55	S-14N-RS14-00-05	65	SEDIMENT	RS14	1	X					
* 11/25/2014	9:55	S-14N-RS14-05-10	66	SEDIMENT	RS14	1	X					
* 11/25/2014	9:23	S-14N-RM14-00-05	67	SEDIMENT	RM14	1	X					
* 11/25/2014	9:23	S-14N-RM14-05-10	68	SEDIMENT	RM14	1	X					

* Samples were duplicates.

Relinquished By (name/date/time): PBC 11-25-14 1530

Received By(name/date/time): [Signature] 11-25-14 1530

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID Procedural Blank

Battelle ID CE811PB-P
Sample Type PB
Collection Date 02/06/2015
Extraction Date 02/06/2015
Analysis Date 02/19/2015
Analytical Instrument MS
% Moisture 5.70
% Lipid NA
Matrix SEDIMENT
Sample Size 9.40
Size Unit-Basis G_DRY
Units UG/KG_DRY

Cl1(1)	0.266 U
Cl1(3)	0.266 U
Cl2(4)	0.267 U
Cl2(5)	0.266 U
Cl2(6)	0.266 U
Cl2(7)	0.267 U
Cl2(8)	0.266 U
Cl2(9)	0.266 U
Cl2(11)	0.267 U
Cl2(12)	0.266 U
Cl2(13)	0.267 U
Cl2(15)	0.267 U
Cl3(16)	0.267 U
Cl3(17)	0.267 U
Cl3(18)	0.267 U
Cl3(19)	0.266 U
Cl3(22)	0.267 U
Cl3(24)	0.267 U
Cl3(25)	0.266 U
Cl3(26)	0.266 U
Cl3(27)	0.266 U
Cl3(28)	0.266 U
Cl3(29)	0.266 U
Cl3(30)	0.266 U
Cl3(31)	0.267 U
Cl3(32)	0.266 U
Cl3(33)	0.267 U
Cl3(37)	0.266 U
Cl4(40)	0.267 U
Cl4(41)	0.266 U
Cl4(42)	0.267 U
Cl4(43)	0.266 U
Cl4(44)	0.266 U
Cl4(45)	0.266 U
Cl4(46)	0.267 U
Cl4(47)	0.266 U
Cl4(48)	0.266 U

Analyzed By Schumitz, Denise

3/5/2015

Not Surrogate Corrected

S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID Procedural Blank

Battelle ID CE811PB-P
Sample Type PB
Collection Date 02/06/2015
Extraction Date 02/06/2015
Analysis Date 02/19/2015
Analytical Instrument MS
% Moisture 5.70
% Lipid NA
Matrix SEDIMENT
Sample Size 9.40
Size Unit-Basis G_DRY
Units UG/KG_DRY

Cl4(49)	0.266 U
Cl4(50)	0.267 U
Cl4(51)	0.267 U
Cl4(52)	0.266 U
Cl4(53)	0.267 U
Cl4(54)	0.267 U
Cl4(56)	0.267 U
Cl4(60)	0.267 U
Cl4(63)	0.266 U
Cl4(64)	0.267 U
Cl4(66)	0.266 U
Cl4(67)	0.267 U
Cl4(70)	0.267 U
Cl4(71)	0.266 U
Cl4(74)	0.266 U
Cl4(75)	0.267 U
Cl4(77)	0.266 U
Cl4(80)	0.267 U
Cl4(81)	0.266 U
Cl5(82)	0.266 U
Cl5(83)	0.266 U
Cl5(84)	0.267 U
Cl5(85)	0.266 U
Cl5(87)	0.265 U
Cl5(91)	0.267 U
Cl5(92)	0.267 U
Cl5(95)	0.266 U
Cl5(97)	0.267 U
Cl5(99)	0.266 U
Cl5(100)	0.267 U
Cl5(101)	0.266 U
Cl5(104)	0.266 U
Cl5(105)	0.266 U
Cl5(110)	0.266 U
Cl5(114)	0.266 U
Cl5(115)	0.267 U
Cl5(118)	0.266 U

Analyzed By Schumitz, Denise

3/5/2015

Not Surrogate Corrected

S15-0039MS-Master_315:FINAL

Project Client:

USACE/NAE

Project Name:

USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores

Project Number:

100043429

Client ID

Procedural Blank

Battelle ID

CE811PB-P

Sample Type

PB

Collection Date

02/06/2015

Extraction Date

02/06/2015

Analysis Date

02/19/2015

Analytical Instrument

MS

% Moisture

5.70

% Lipid

NA

Matrix

SEDIMENT

Sample Size

9.40

Size Unit-Basis

G_DRY

Units

UG/KG_DRY

CI5(123)	0.266 U
CI5(124)	0.267 U
CI5(125)	0.266 U
CI5(126)	0.267 U
CI5(127)	0.266 U
CI6(128)	0.266 U
CI6(130)	0.266 U
CI6(131)	0.267 U
CI6(134)	0.267 U
CI6(135)	0.267 U
CI6(136)	0.266 U
CI6(137)	0.267 U
CI6(138)	0.266 U
CI6(139)	0.267 U
CI6(140)	0.267 U
CI6(141)	0.267 U
CI6(144)	0.266 U
CI6(146)	0.266 U
CI6(149)	0.267 U
CI6(151)	0.266 U
CI6(153)	0.266 U
CI6(154)	0.266 U
CI6(155)	0.267 U
CI6(156)	0.266 U
CI6(157)	0.267 U
CI6(158)	0.266 U
CI6(163)	0.266 U
CI6(164)	0.266 U
CI6(166)	0.267 U
CI6(167)	0.266 U
CI6(169)	0.267 U
CI7(170)	0.267 U
CI7(171)	0.267 U
CI7(172)	0.266 U
CI7(173)	0.267 U
CI7(174)	0.266 U
CI7(175)	0.267 U



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID Procedural Blank

Battelle ID CE811PB-P
Sample Type PB
Collection Date 02/06/2015
Extraction Date 02/06/2015
Analysis Date 02/19/2015
Analytical Instrument MS
% Moisture 5.70
% Lipid NA
Matrix SEDIMENT
Sample Size 9.40
Size Unit-Basis G_DRY
Units UG/KG_DRY

CI7(176)	0.266 U
CI7(177)	0.266 U
CI7(178)	0.267 U
CI7(179)	0.267 U
CI7(180)	0.266 U
CI7(183)	0.266 U
CI7(184)	0.266 U
CI7(185)	0.266 U
CI7(187)	0.266 U
CI7(188)	0.267 U
CI7(189)	0.266 U
CI7(190)	0.267 U
CI7(191)	0.267 U
CI7(193)	0.267 U
CI8(194)	0.266 U
CI8(195)	0.266 U
CI8(197)	0.266 U
CI8(198)	0.267 U
CI8(199)	0.266 U
CI8(200)	0.266 U
CI8(201)	0.266 U
CI8(202)	0.267 U
CI8(203)	0.266 U
CI8(205)	0.266 U
CI9(206)	0.266 U
CI9(207)	0.266 U
CI9(208)	0.267 U
CI10(209)	0.266 U
LOC 1	U
LOC 2	U
LOC 3	U
LOC 4	U
LOC 5	U
LOC 6	U
LOC 7	U
LOC 8	U
LOC 9	U

Analyzed By Schumitz, Denise

3/5/2015

Not Surrogate Corrected

S15-0039MS-Master_315:FINAL

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID Procedural Blank

Battelle ID CE811PB-P
Sample Type PB
Collection Date 02/06/2015
Extraction Date 02/06/2015
Analysis Date 02/19/2015
Analytical Instrument MS
% Moisture 5.70
% Lipid NA
Matrix SEDIMENT
Sample Size 9.40
Size Unit-Basis G_DRY
Units UG/KG_DRY

LOC 10 U

Surrogate Recoveries (%)

Cl3(34) 101
Cl6(152) 96



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	Laboratory Control Sample			Laboratory Control Sample Duplicate						
Battelle ID	CE812LCS-P			CE813LCSD-P						
Sample Type	LCS			LCSD						
Collection Date	02/06/2015			02/06/2015						
Extraction Date	02/06/2015			02/06/2015						
Analysis Date	02/19/2015			02/19/2015						
Analytical Instrument	MS			MS						
% Moisture	5.70			5.70						
% Lipid	NA			NA						
Matrix	SEDIMENT			SEDIMENT						
Sample Size	9.41			9.39						
Size Unit-Basis	G_DRY			G_DRY						
Units	UG/KG_DRY	Target	% REC	Qual	UG/KG_DRY	Target	% REC	Qual	RPD	Qual
Cl1(1)	3.81	4.06	94		3.88	4.07	95	1.1		
Cl1(3)	3.77	4.06	93		3.99	4.07	98	5.2		
Cl2(4)	3.74	3.99	94		3.87	3.99	97	3.1		
Cl2(5)	0.266 U				0.266 U					
Cl2(6)	0.266 U				0.266 U					
Cl2(7)	0.267 U				0.267 U					
Cl2(8)	3.64	4.06	90		3.76	4.07	92	2.2		
Cl2(9)	0.266 U				0.266 U					
Cl2(11)	0.267 U				0.267 U					
Cl2(12)	0.266 U				0.266 U					
Cl2(13)	0.267 U				0.267 U					
Cl2(15)	3.39	3.99	85		3.58	3.99	90	5.7		
Cl3(16)	0.267 U				0.267 U					
Cl3(17)	0.267 U				0.267 U					
Cl3(18)	3.70	4.06	91		3.79	4.07	93	2.2		
Cl3(19)	4.05	4.06	100		4.19	4.07	103	3.0		
Cl3(22)	0.267 U				0.267 U					
Cl3(24)	0.267 U				0.267 U					
Cl3(25)	0.266 U				0.266 U					
Cl3(26)	0.266 U				0.266 U					
Cl3(27)	0.266 U				0.266 U					
Cl3(28)	4.08	4.06	100		4.22	4.07	104	3.9		
Cl3(29)	0.266 U				0.266 U					
Cl3(30)	0.266 U				0.266 U					
Cl3(31)	4.05	4.06	100		4.07	4.07	100	0.0		
Cl3(32)	0.266 U				0.266 U					
Cl3(33)	0.267 U				0.267 U					
Cl3(37)	4.06	4.06	100		4.09	4.07	100	0.0		
Cl4(40)	0.267 U				0.267 U					
Cl4(41)	0.266 U				0.266 U					
Cl4(42)	0.267 U				0.267 U					
Cl4(43)	0.266 U				0.266 U					
Cl4(44)	3.99	4.06	98		4.12	4.07	101	3.0		
Cl4(45)	0.266 U				0.266 U					
Cl4(46)	0.267 U				0.267 U					
Cl4(47)	0.266 U				0.266 U					
Cl4(48)	0.266 U				0.266 U					

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	Laboratory Control Sample				Laboratory Control Sample Duplicate				
Battelle ID	CE812LCS-P				CE813LCSD-P				
Sample Type	LCS				LCSD				
Collection Date	02/06/2015				02/06/2015				
Extraction Date	02/06/2015				02/06/2015				
Analysis Date	02/19/2015				02/19/2015				
Analytical Instrument	MS				MS				
% Moisture	5.70				5.70				
% Lipid	NA				NA				
Matrix	SEDIMENT				SEDIMENT				
Sample Size	9.41				9.39				
Size Unit-Basis	G_DRY				G_DRY				
Units	UG/KG_DRY	Target	% REC	Qual	UG/KG_DRY	Target	% REC	Qual	RPD Qual
Cl4(49)	4.42	3.99	111		4.38	3.99	110	0.9	
Cl4(50)	0.267 U				0.267 U				
Cl4(51)	0.267 U				0.267 U				
Cl4(52)	4.64	4.06	114		4.74	4.07	116	1.7	
Cl4(53)	0.267 U				0.267 U				
Cl4(54)	3.75	4.06	92		3.82	4.07	94	2.2	
Cl4(56)	0.267 U				0.267 U				
Cl4(60)	0.267 U				0.267 U				
Cl4(63)	0.266 U				0.266 U				
Cl4(64)	0.267 U				0.267 U				
Cl4(66)	4.23	4.06	104		4.28	4.07	105	1.0	
Cl4(67)	0.267 U				0.267 U				
Cl4(70)	4.19	4.06	103		4.35	4.07	107	3.8	
Cl4(71)	0.266 U				0.266 U				
Cl4(74)	4.25	4.06	105		4.36	4.07	107	1.9	
Cl4(75)	0.267 U				0.267 U				
Cl4(77)	4.16	4.06	102		4.16	4.07	102	0.0	
Cl4(80)	0.267 U				0.267 U				
Cl4(81)	4.26	3.99	107		4.28	3.99	107	0.0	
Cl5(82)	0.266 U				0.266 U				
Cl5(83)	4.60	4.06	113		4.47	4.07	110	2.7	
Cl5(84)	0.267 U				0.267 U				
Cl5(85)	0.266 U				0.266 U				
Cl5(87)	4.03	4.06	99		4.11	4.07	101	2.0	
Cl5(91)	0.267 U				0.267 U				
Cl5(92)	0.267 U				0.267 U				
Cl5(95)	0.266 U				0.266 U				
Cl5(97)	0.267 U				0.267 U				
Cl5(99)	3.90	4.06	96		3.95	4.07	97	1.0	
Cl5(100)	0.267 U				0.267 U				
Cl5(101)	4.15	4.06	102		4.23	4.07	104	1.9	
Cl5(104)	3.93	4.06	97		3.97	4.07	98	1.0	
Cl5(105)	4.32	4.06	106		4.32	4.07	106	0.0	
Cl5(110)	4.18	4.06	103		4.18	4.07	103	0.0	
Cl5(114)	4.02	4.06	99		4.01	4.07	99	0.0	
Cl5(115)	0.267 U				0.267 U				
Cl5(118)	4.12	4.06	101		4.18	4.07	103	2.0	

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	Laboratory Control Sample				Laboratory Control Sample Duplicate				
Battelle ID	CE812LCS-P				CE813LCSD-P				
Sample Type	LCS				LCSD				
Collection Date	02/06/2015				02/06/2015				
Extraction Date	02/06/2015				02/06/2015				
Analysis Date	02/19/2015				02/19/2015				
Analytical Instrument	MS				MS				
% Moisture	5.70				5.70				
% Lipid	NA				NA				
Matrix	SEDIMENT				SEDIMENT				
Sample Size	9.41				9.39				
Size Unit-Basis	G_DRY				G_DRY				
Units	UG/KG_DRY	Target	% REC	Qual	UG/KG_DRY	Target	% REC	Qual	RPD Qual
CI5(123)	4.02	4.06	99		4.06	4.07	100	1.0	
CI5(124)	0.267 U				0.267 U				
CI5(125)	0.266 U				0.266 U				
CI5(126)	4.45	4.06	110		4.41	4.07	108	1.8	
CI5(127)	0.266 U				0.266 U				
CI6(128)	4.24	4.06	104		4.21	4.07	103	1.0	
CI6(130)	0.266 U				0.266 U				
CI6(131)	0.267 U				0.267 U				
CI6(134)	0.267 U				0.267 U				
CI6(135)	0.267 U				0.267 U				
CI6(136)	0.266 U				0.266 U				
CI6(137)	0.267 U				0.267 U				
CI6(138)	3.92	4.06	97		3.88	4.07	95	2.1	
CI6(139)	0.267 U				0.267 U				
CI6(140)	0.267 U				0.267 U				
CI6(141)	0.267 U				0.267 U				
CI6(144)	0.266 U				0.266 U				
CI6(146)	0.266 U				0.266 U				
CI6(149)	4.12	4.06	101		4.10	4.07	101	0.0	
CI6(151)	3.98	4.06	98		4.02	4.07	99	1.0	
CI6(153)	4.20	4.06	103		4.14	4.07	102	1.0	
CI6(154)	0.266 U				0.266 U				
CI6(155)	4.40	4.06	108		4.44	4.07	109	0.9	
CI6(156)	4.16	4.06	102		4.15	4.07	102	0.0	
CI6(157)	4.21	3.99	106		4.31	3.99	108	1.9	
CI6(158)	4.05	3.99	102		4.08	3.99	102	0.0	
CI6(163)	0.266 U				0.266 U				
CI6(164)	0.266 U				0.266 U				
CI6(166)	0.267 U				0.267 U				
CI6(167)	3.96	4.06	98		4.06	4.07	100	2.0	
CI6(169)	4.24	4.06	104		4.14	4.07	102	1.9	
CI7(170)	4.36	4.06	107		4.37	4.07	107	0.0	
CI7(171)	0.267 U				0.267 U				
CI7(172)	0.266 U				0.266 U				
CI7(173)	0.267 U				0.267 U				
CI7(174)	0.266 U				0.266 U				
CI7(175)	0.267 U				0.267 U				

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	Laboratory Control Sample				Laboratory Control Sample Duplicate					
Battelle ID	CE812LCS-P				CE813LCSD-P					
Sample Type	LCS				LCSD					
Collection Date	02/06/2015				02/06/2015					
Extraction Date	02/06/2015				02/06/2015					
Analysis Date	02/19/2015				02/19/2015					
Analytical Instrument	MS				MS					
% Moisture	5.70				5.70					
% Lipid	NA				NA					
Matrix	SEDIMENT				SEDIMENT					
Sample Size	9.41				9.39					
Size Unit-Basis	G_DRY				G_DRY					
Units	UG/KG_DRY	Target	% REC	Qual	UG/KG_DRY	Target	% REC	Qual	RPD	Qual
CI7(176)	0.266 U				0.266 U					
CI7(177)	4.09	4.06	101		4.19	4.07	103		2.0	
CI7(178)	0.267 U				0.267 U					
CI7(179)	0.267 U				0.267 U					
CI7(180)	4.00	4.06	99		4.00	4.07	98		1.0	
CI7(183)	4.46	4.06	110		4.41	4.07	108		1.8	
CI7(184)	0.266 U				0.266 U					
CI7(185)	0.266 U				0.266 U					
CI7(187)	4.09	4.06	101		4.13	4.07	101		0.0	
CI7(188)	4.02	4.06	99		3.97	4.07	98		1.0	
CI7(189)	3.92	4.06	97		3.94	4.07	97		0.0	
CI7(190)	0.267 U				0.267 U					
CI7(191)	0.267 U				0.267 U					
CI7(193)	0.267 U				0.267 U					
CI8(194)	3.86	4.06	95		3.80	4.07	93		2.1	
CI8(195)	3.93	4.06	97		3.90	4.07	96		1.0	
CI8(197)	0.266 U				0.266 U					
CI8(198)	0.267 U				0.267 U					
CI8(199)	0.266 U				0.266 U					
CI8(200)	0.266 U				0.266 U					
CI8(201)	3.77	3.99	94		3.78	3.99	95		1.1	
CI8(202)	4.02	4.06	99		3.95	4.07	97		2.0	
CI8(203)	4.10	4.06	101		3.92	4.07	96		5.1	
CI8(205)	4.00	4.06	99		3.90	4.07	96		3.1	
CI9(206)	4.00	4.06	99		4.00	4.07	98		1.0	
CI9(207)	0.266 U				0.266 U					
CI9(208)	3.98	4.06	98		3.99	4.07	98		0.0	
CI10(209)	3.63	4.14	88		3.56	4.15	86		2.3	
LOC 1	7.58	8.13	93		7.87	8.15	97		4.2	
LOC 2	10.8	12.04	90		11.2	12.06	93		3.3	
LOC 3	19.9	20.32	98		20.4	20.37	100		2.0	
LOC 4	37.9	36.42	104		38.5	36.50	105		1.0	
LOC 5	45.7	44.71	102		45.9	44.81	102		0.0	
LOC 6	45.5	44.55	102		45.5	44.65	102		0.0	
LOC 7	28.9	27.26	106		29.0	27.32	106		0.0	
LOC 8	23.7	24.31	97		23.2	24.36	95		2.1	
LOC 9	7.98	8.13	98		7.99	8.15	98		0.0	

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	Laboratory Control Sample	Laboratory Control Sample Duplicate				
Battelle ID	CE812LCS-P	CE813LCSD-P				
Sample Type	LCS	LCSD				
Collection Date	02/06/2015	02/06/2015				
Extraction Date	02/06/2015	02/06/2015				
Analysis Date	02/19/2015	02/19/2015				
Analytical Instrument	MS	MS				
% Moisture	5.70	5.70				
% Lipid	NA	NA				
Matrix	SEDIMENT	SEDIMENT				
Sample Size	9.41	9.39				
Size Unit-Basis	G_DRY	G_DRY				
Units	UG/KG_DRY	UG/KG_DRY	Target	% REC	Qual	RPD Qual
LOC 10	3.63	3.56	4.14	88		2.3
Surrogate Recoveries (%)						
Cl3(34)	101	104				
Cl6(152)	97	97				



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-RN06-00-05	S-14N-PCC15-05-10	S-14N-PV5-05-10	S-14N-RBB22-05-10
Battelle ID	L0031-P	L0064-P	L0067-P	L0075-P
Sample Type	SA	SA	SA	SA
Collection Date	11/25/2014	11/18/2014	11/18/2014	11/19/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/19/2015	02/19/2015	02/19/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	18.51	0.00	1.04	1.32
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	0.87	5.05	4.95	1.93
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl1(1)	67.7	D	0.165	J	4.70	0.855	J
Cl1(3)	38.8	DJ	0.600		4.76	2.07	
Cl2(4)	1790	D	2.60		215	D	35.0
Cl2(5)	60.5	U	0.521	U	0.532	U	1.36
Cl2(6)	5550	D	11.1		542	D	101
Cl2(7)	134	D	0.407	J	7.72		2.25
Cl2(8)	4180	D	11.1		425	D	78.1
Cl2(9)	209	D	0.518	J	16.1		3.18
Cl2(11)	693	D	2.40		48.1		14.1
Cl2(12)	25.4	DJ	0.174	J	0.587		1.36
Cl2(13)	2450	D	9.81		223	D	42.6
Cl2(15)	1670	D	10.5		142	D	27.2
Cl3(16)	879	D	1.84		18.9		4.36
Cl3(17)	4250	D	14.0		408	D	88.1
Cl3(18)	8760	D	29.2		902	D	207
Cl3(19)	614	D	2.20		68.8		23.9
Cl3(22)	2350	D	7.19		63.9		12.2
Cl3(24)	76.7	D	0.523	U	1.77		1.37
Cl3(25)	8050	D	35.8		750	D	170
Cl3(26)	13800	D	52.9		1090	D	259
Cl3(27)	1200	D	5.62		168	D	55.9
Cl3(28)	13400	D	61.0		1120	D	238
Cl3(29)	60.5	U	0.521	U	0.532	U	1.36
Cl3(30)	60.5	U	0.521	U	0.532	U	1.36
Cl3(31)	14800	D	57.9		1230	D	264
Cl3(32)	2100	D	10.8		292	D	74.4
Cl3(33)	1620	D	6.18		44.0		11.3
Cl3(37)	1020	D	7.36		40.8		12.6
Cl4(40)	555	D	7.62		0.534	U	20.0
Cl4(41)	60.5	U	0.521	U	0.532	U	1.36
Cl4(42)	4000	D	14.2		220	D	38.1
Cl4(43)	60.5	U	0.521	U	14.5		6.43
Cl4(44)	5220	D	20.8		344	D	52.3
Cl4(45)	853	D	2.29		34.5		6.54
Cl4(46)	439	D	2.25		36.9		8.60
Cl4(47)	4180	D	22.2		337	D	76.4

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-RN06-00-05	S-14N-PCC15-05-10	S-14N-PV5-05-10	S-14N-RBB22-05-10
Battelle ID	L0031-P	L0064-P	L0067-P	L0075-P
Sample Type	SA	SA	SA	SA
Collection Date	11/25/2014	11/18/2014	11/18/2014	11/19/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/19/2015	02/19/2015	02/19/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	18.51	0.00	1.04	1.32
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	0.87	5.05	4.95	1.93
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl4(48)	60.5	U	0.521	U	0.532	U	1.36	U
Cl4(49)	19100	D	85.4		1380	D	316	D
Cl4(50)	54.4	DJ	0.523	U	3.11		1.36	J
Cl4(51)	590	D	4.65		65.6		24.8	
Cl4(52)	19700	D	88.8		1470	D	371	D
Cl4(53)	1200	D	9.87		192	D	58.0	
Cl4(54)	35.9	DJ	0.344	J	2.66		1.61	
Cl4(56)	999	D	4.13		21.4		5.94	
Cl4(60)	486	D	2.32		11.5		4.10	
Cl4(63)	282	D	1.36		8.68		2.37	
Cl4(64)	4160	D	13.8		204	D	31.5	
Cl4(66)	2630	D	15.4		124	D	21.9	
Cl4(67)	911	D	4.59		41.3		8.20	
Cl4(70)	2310	D	11.8		62.1		17.1	
Cl4(71)	1870	D	13.8		229	D	46.8	
Cl4(74)	2190	D	11.1		102	D	17.8	
Cl4(75)	251	D	1.29		14.6		5.48	
Cl4(77)	322	D	2.44		14.2		3.10	
Cl4(80)	107	D	0.678		3.21		1.74	
Cl4(81)	60.5	U	0.521	U	0.532	U	1.36	U
Cl5(82)	169	D	1.24		6.23		2.24	
Cl5(83)	1450	D	8.71		89.4		19.4	
Cl5(84)	1470	D	8.15		77.1		17.9	
Cl5(85)	325	D	2.91		18.8		5.50	
Cl5(87)	434	D	3.71		22.3		7.93	
Cl5(91)	3370	D	14.8		195	D	35.0	
Cl5(92)	1860	D	9.10		110	D	19.8	
Cl5(95)	6090	D	29.7		376	D	72.4	
Cl5(97)	1850	D	9.75		90.0		15.5	
Cl5(99)	4260	D	27.0		289	D	45.6	
Cl5(100)	237	D	1.43		13.1		4.10	
Cl5(101)	5240	D	28.7		267	D	45.1	
Cl5(104)	60.5	U	0.521	U	0.346	J	1.36	U
Cl5(105)	495	D	4.50		21.7		6.76	
Cl5(110)	7460	D	41.1		435	D	78.7	
Cl5(114)	121	D	0.521	U	4.53		1.36	U

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-RN06-00-05	S-14N-PCC15-05-10	S-14N-PV5-05-10	S-14N-RBB22-05-10
Battelle ID	L0031-P	L0064-P	L0067-P	L0075-P
Sample Type	SA	SA	SA	SA
Collection Date	11/25/2014	11/18/2014	11/18/2014	11/19/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/19/2015	02/19/2015	02/19/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	18.51	0.00	1.04	1.32
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	0.87	5.05	4.95	1.93
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI5(115)	60.7	U	0.523	U	0.534	U	1.37	U
CI5(118)	3730	D	27.3		227	D	42.6	
CI5(123)	433	D	2.70		22.8		4.46	
CI5(124)	160	D	0.992		8.11		2.05	
CI5(125)	60.5	U	0.521	U	0.532	U	1.36	U
CI5(126)	60.7	U	0.523	U	1.52		1.37	U
CI5(127)	60.5	U	0.521	U	0.532	U	1.36	U
CI6(128)	409	D	3.39		23.8		7.23	
CI6(130)	180	D	1.42		8.65		3.03	
CI6(131)	131	D	1.24		4.30		2.37	
CI6(134)	360	D	2.21		20.0		4.76	
CI6(135)	608	D	3.66		36.5		7.68	
CI6(136)	690	D	4.21		44.8		10.1	
CI6(137)	193	D	1.24		9.07		2.44	
CI6(138)	1130	D	10.4		55.9		16.7	
CI6(139)	105	D	0.635		6.05		1.79	
CI6(140)	60.7	U	0.523	U	0.534	U	1.37	U
CI6(141)	232	D	1.69		11.1		3.49	
CI6(144)	90.8	D	0.656		4.16		1.65	
CI6(146)	624	D	4.20		36.7		8.10	
CI6(149)	4790	D	29.3		322	D	66.7	
CI6(151)	724	D	4.14		41.2		8.87	
CI6(153)	4080	D	30.5		286	D	59.8	
CI6(154)	236	D	1.58		15.9		3.83	
CI6(155)	60.7	U	0.523	U	0.534	U	1.37	U
CI6(156)	331	D	2.33		18.4		4.76	
CI6(157)	80.8	D	0.690		4.09		1.42	
CI6(158)	418	D	2.81		24.9		5.93	
CI6(163)	1400	D	7.97		69.9		16.5	
CI6(164)	296	D	1.97		17.9		3.80	
CI6(166)	56.7	DJ	0.523	U	2.43		1.37	U
CI6(167)	246	D	1.86		16.7		3.76	
CI6(169)	60.7	U	0.523	U	0.534	U	1.37	U
CI7(170)	333	D	2.31		21.4		5.23	
CI7(171)	108	D	0.783		5.83		2.10	
CI7(172)	88.5	D	0.678		3.84		1.74	

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S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-RN06-00-05	S-14N-PCC15-05-10	S-14N-PV5-05-10	S-14N-RBB22-05-10
Battelle ID	L0031-P	L0064-P	L0067-P	L0075-P
Sample Type	SA	SA	SA	SA
Collection Date	11/25/2014	11/18/2014	11/18/2014	11/19/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/19/2015	02/19/2015	02/19/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	18.51	0.00	1.04	1.32
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	0.87	5.05	4.95	1.93
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI7(173)	60.7	U	0.523	U	0.636	1.37	U
CI7(174)	210	D	1.39		11.5	3.05	
CI7(175)	38.3	DJ	0.523	U	1.40	1.37	U
CI7(176)	45.7	DJ	0.521	U	2.07	0.872	J
CI7(177)	134	D	1.18		8.37	2.55	
CI7(178)	122	D	0.886		6.26	1.95	
CI7(179)	184	D	1.18		11.8	3.07	
CI7(180)	604	D	4.21		37.1	9.24	
CI7(183)	227	D	1.51		13.4	3.51	
CI7(184)	60.5	U	0.521	U	0.532	1.36	U
CI7(185)	48.7	DJ	0.521	U	1.84	1.36	U
CI7(187)	554	D	3.65		35.7	7.96	
CI7(188)	32.5	DJ	0.523	U	0.811	0.807	J
CI7(189)	60.5	U	0.521	U	0.532	1.36	U
CI7(190)	93.8	D	0.660		5.88	1.66	
CI7(191)	40.6	DJ	0.523	U	1.45	1.37	U
CI7(193)	45.6	DJ	0.409	J	1.87	1.37	U
CI8(194)	166	D	0.891		7.56	1.80	
CI8(195)	47.6	DJ	0.521	U	2.46	1.36	U
CI8(197)	60.5	U	0.521	U	0.390	1.36	U
CI8(198)	60.7	U	0.523	U	0.534	1.37	U
CI8(199)	135	D	0.843		7.56	1.36	U
CI8(200)	30.4	DJ	0.521	U	0.894	1.36	U
CI8(201)	41.0	DJ	0.521	U	1.17	0.856	J
CI8(202)	46.9	DJ	0.457	J	2.41	1.12	J
CI8(203)	138	D	0.942		8.65	2.34	
CI8(205)	60.5	U	0.521	U	0.532	1.36	U
CI9(206)	60.5	U	0.521	U	4.55	1.38	
CI9(207)	29.8	DJ	0.521	U	0.654	1.36	U
CI9(208)	29.9	DJ	0.523	U	1.52	0.513	J
CI10(209)	60.5	U	0.521	U	1.11	1.36	U
LOC 1	106		0.765		9.46	2.92	
LOC 2	16700		48.6		1620	303	
LOC 3	72900		292		6200	1420	
LOC 4	72400		341		4940	1150	
LOC 5	39200		222		2280	425	

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S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-RN06-00-05	S-14N-PCC15-05-10	S-14N-PV5-05-10	S-14N-RBB22-05-10
Battelle ID	L0031-P	L0064-P	L0067-P	L0075-P
Sample Type	SA	SA	SA	SA
Collection Date	11/25/2014	11/18/2014	11/18/2014	11/19/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/19/2015	02/19/2015	02/19/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	18.51	0.00	1.04	1.32
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	0.87	5.05	4.95	1.93
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

LOC 6	17400	118	1080	245
LOC 7	2910	18.8	171	43.7
LOC 8	605	3.13	31.1	6.12
LOC 9	59.7	U	6.72	1.89
LOC 10	U	U	1.11	U

Surrogate Recoveries (%)

Cl3(34)	101	D	101	86	102
Cl6(152)	94	D	92	90	96

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S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-OI18-00-05	S-14N-OP10-00-05	S-14N-RM26-00-05	S-14N-RM26-00-05-REP
Battelle ID	L0104-P	L0109-P	L0117-P	L0118-P
Sample Type	SA	SA	SA	SA
Collection Date	11/17/2014	11/17/2014	11/18/2014	11/18/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/20/2015	02/20/2015	02/20/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	6.06	2.09	7.85	8.66
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	0.94	0.95	0.94	0.88
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI1(1)	9.51		169	D	80.3	D	24.6	
CI1(3)	5.93		85.2	D	52.9	DJ	16.2	
CI2(4)	657	D	8610	D	1470	D	724	D
CI2(5)	2.80	U	55.4	U	56.0	U	2.99	U
CI2(6)	1400	D	19300	D	5170	D	2720	D
CI2(7)	12.7		262	D	173	D	53.1	
CI2(8)	1140	D	15800	D	4360	D	2190	D
CI2(9)	33.8		598	D	256	D	88.6	
CI2(11)	116		1640	D	710	D	262	
CI2(12)	1.57	J	55.4	U	26.9	DJ	6.44	
CI2(13)	363		5790	D	2660	D	1420	D
CI2(15)	201		3190	D	2200	D	1160	D
CI3(16)	85.6		943	D	1640	D	763	D
CI3(17)	1220	D	14900	D	4490	D	2330	D
CI3(18)	2930	D	33500	D	8640	D	4520	D
CI3(19)	237		3440	D	552	D	204	
CI3(22)	165		2210	D	3940	D	2110	D
CI3(24)	2.81	U	65.7	D	87.8	D	31.0	
CI3(25)	2810	D	21300	D	7670	D	4090	D
CI3(26)	5510	D	37400	D	12800	D	6030	D
CI3(27)	813	D	5000	D	808	D	334	
CI3(28)	2800	D	30600	D	16700	D	8280	D
CI3(29)	2.80	U	55.4	U	46.5	DJ	16.9	
CI3(30)	1.79	J	33.7	DJ	56.0	U	2.99	U
CI3(31)	3210	D	32700	D	18300	D	8830	D
CI3(32)	1460	D	12100	D	2230	D	1160	D
CI3(33)	100		1080	D	3020	D	1670	D
CI3(37)	80.7		793	D	1570	D	937	D
CI4(40)	341	D	1720	D	815	D	304	
CI4(41)	2.80	U	55.4	U	56.0	U	53.6	
CI4(42)	914	D	4820	D	4480	D	2390	D
CI4(43)	2.80	U	377	D	56.0	U	2.99	U
CI4(44)	1900	D	12100	D	6260	D	3310	D
CI4(45)	65.9		1100	D	1050	D	398	
CI4(46)	259		2290	D	478	D	170	
CI4(47)	1780	D	8790	D	4210	D	2330	D

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-OI18-00-05	S-14N-OP10-00-05	S-14N-RM26-00-05	S-14N-RM26-00-05-REP
Battelle ID	L0104-P	L0109-P	L0117-P	L0118-P
Sample Type	SA	SA	SA	SA
Collection Date	11/17/2014	11/17/2014	11/18/2014	11/18/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/20/2015	02/20/2015	02/20/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	6.06	2.09	7.85	8.66
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	0.94	0.95	0.94	0.88
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI4(48)	2.80	U	55.4	U	587	D	302
CI4(49)	7860	D	47200	D	17400	D	8600 D
CI4(50)	9.02		106	D	58.4	D	16.0
CI4(51)	710	D	3440	D	532	D	213
CI4(52)	10600	D	56800	D	17300	D	8090 D
CI4(53)	1530	D	8390	D	1120	D	602 D
CI4(54)	18.8		170	D	32.3	DJ	6.61
CI4(56)	42.2		377	D	1640	D	1050 D
CI4(60)	15.7		55.6	U	659	D	315
CI4(63)	31.4		235	D	427	D	179
CI4(64)	153		4220	D	4980	D	2690 D
CI4(66)	287		2320	D	4060	D	2570 D
CI4(67)	146		826	D	1000	D	384
CI4(70)	207		1600	D	3380	D	2230 D
CI4(71)	1680	D	8840	D	2030	D	1100 D
CI4(74)	152		1360	D	3180	D	1770 D
CI4(75)	75.2		606	D	254	D	85.0
CI4(77)	28.4		55.4	U	404	D	240
CI4(80)	4.90		55.6	U	99.8	D	40.0
CI4(81)	2.80	U	55.4	U	56.0	U	2.99 U
CI5(82)	26.7		55.4	U	192	D	108
CI5(83)	850	D	3800	D	1320	D	734 D
CI5(84)	677	D	2970	D	1610	D	796 D
CI5(85)	88.9		321	D	390	D	253
CI5(87)	89.3		55.2	U	543	D	293
CI5(91)	1300	D	5720	D	2900	D	1540 D
CI5(92)	759	D	2800	D	1580	D	902 D
CI5(95)	2430	D	12700	D	5300	D	2940 D
CI5(97)	624	D	1990	D	2160	D	1230 D
CI5(99)	1910	D	7750	D	4740	D	2840 D
CI5(100)	103		674	D	202	D	75.6
CI5(101)	1700	D	6270	D	5770	D	3410 D
CI5(104)	3.04		11.7	DJ	56.0	U	2.99 U
CI5(105)	84.1		372	D	649	D	354
CI5(110)	2400	D	12200	D	7310	D	4200 D
CI5(114)	18.7		55.4	U	56.0	U	56.3

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S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-OI18-00-05	S-14N-OP10-00-05	S-14N-RM26-00-05	S-14N-RM26-00-05-REP
Battelle ID	L0104-P	L0109-P	L0117-P	L0118-P
Sample Type	SA	SA	SA	SA
Collection Date	11/17/2014	11/17/2014	11/18/2014	11/18/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/20/2015	02/20/2015	02/20/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	6.06	2.09	7.85	8.66
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	0.94	0.95	0.94	0.88
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI5(115)	2.81	U	55.6	U	56.2	U	3.00	U
CI5(118)	1160	D	4360	D	4300	D	2670	D
CI5(123)	126		55.4	U	509	D	279	
CI5(124)	30.5		55.6	U	169	D	88.2	
CI5(125)	2.80	U	55.4	U	56.0	U	2.99	U
CI5(126)	2.81	U	55.6	U	56.2	U	16.6	
CI5(127)	2.80	U	55.4	U	56.0	U	2.99	U
CI6(128)	99.8		933	D	416	D	222	
CI6(130)	36.9		55.4	U	149	D	73.0	
CI6(131)	42.3		55.6	U	164	D	29.3	
CI6(134)	130		55.6	U	334	D	159	
CI6(135)	248		55.6	U	556	D	268	
CI6(136)	321		1540	D	575	D	280	
CI6(137)	41.7		55.6	U	194	D	94.3	
CI6(138)	270		1240	D	1290	D	675	D
CI6(139)	28.1		55.6	U	89.7	D	42.9	
CI6(140)	2.81	U	55.6	U	56.2	U	3.00	U
CI6(141)	48.5		55.6	U	262	D	132	
CI6(144)	16.1		55.4	U	92.9	D	38.0	
CI6(146)	240		1180	D	668	D	306	
CI6(149)	2050	D	8530	D	4260	D	2330	D
CI6(151)	267		55.4	U	674	D	320	
CI6(153)	1740	D	7260	D	4150	D	2400	D
CI6(154)	142		1000	D	200	D	90.9	
CI6(155)	2.13	J	55.6	U	56.2	U	3.00	U
CI6(156)	77.5		452	D	354	D	180	
CI6(157)	17.2		55.6	U	93.7	D	40.5	
CI6(158)	94.3		641	D	392	D	196	
CI6(163)	458		2370	D	1290	D	645	D
CI6(164)	89.2		55.4	U	301	D	152	
CI6(166)	8.88		55.6	U	50.0	DJ	17.7	
CI6(167)	83.2		55.4	U	253	D	129	
CI6(169)	2.81	U	55.6	U	56.2	U	3.00	U
CI7(170)	89.5		497	D	359	D	183	
CI7(171)	24.9		55.6	U	104	D	50.2	
CI7(172)	16.9		55.4	U	81.6	D	31.8	

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S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-OI18-00-05	S-14N-OP10-00-05	S-14N-RM26-00-05	S-14N-RM26-00-05-REP
Battelle ID	L0104-P	L0109-P	L0117-P	L0118-P
Sample Type	SA	SA	SA	SA
Collection Date	11/17/2014	11/17/2014	11/18/2014	11/18/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/20/2015	02/20/2015	02/20/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	6.06	2.09	7.85	8.66
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	0.94	0.95	0.94	0.88
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI7(173)	2.70	J	55.6	U	56.2	U	3.00	U
CI7(174)	46.1		55.4	U	214	D	103	
CI7(175)	5.78		55.6	U	36.6	DJ	9.81	
CI7(176)	8.03		55.4	U	41.9	DJ	17.0	
CI7(177)	33.2		55.4	U	142	D	74.0	
CI7(178)	36.2		55.6	U	109	D	42.6	
CI7(179)	67.4		376	D	166	D	78.8	
CI7(180)	158		796	D	578	D	298	
CI7(183)	58.6		55.4	U	207	D	100	
CI7(184)	2.80	U	55.4	U	56.0	U	2.99	U
CI7(185)	7.25		55.4	U	45.1	DJ	14.2	
CI7(187)	216		1390	D	499	D	244	
CI7(188)	5.85		55.6	U	29.3	DJ	4.50	
CI7(189)	8.18		55.4	U	56.0	U	2.99	U
CI7(190)	26.3		147	D	85.8	D	43.3	
CI7(191)	5.91		55.6	U	33.3	DJ	10.6	
CI7(193)	15.3		55.6	U	53.3	DJ	18.8	
CI8(194)	37.6		216	D	107	D	56.9	
CI8(195)	11.7		55.4	U	56.0	U	19.8	
CI8(197)	2.10	J	55.4	U	56.0	U	3.28	
CI8(198)	2.81	U	55.6	U	56.2	U	3.00	U
CI8(199)	32.1		55.4	U	124	D	54.8	
CI8(200)	3.18		484	D	24.1	DJ	7.11	
CI8(201)	4.78		55.4	U	34.8	DJ	7.74	
CI8(202)	11.8		55.6	U	40.8	DJ	14.8	
CI8(203)	42.4		293	D	128	D	63.3	
CI8(205)	4.67		55.4	U	56.0	U	2.99	U
CI9(206)	23.1		55.4	U	53.2	DJ	30.2	
CI9(207)	3.89		55.4	U	28.0	DJ	4.83	
CI9(208)	7.80		55.6	U	22.1	DJ	11.7	
CI10(209)	6.27		55.4	U	0.428	DJ	5.54	
LOC 1	15.4		254		133		40.8	
LOC 2	3920		55200		17000		8620	
LOC 3	21400		196000		82400		41300	
LOC 4	28800		168000		76400		39400	
LOC 5	14400		61900		39600		22800	

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S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-OI18-00-05	S-14N-OP10-00-05	S-14N-RM26-00-05	S-14N-RM26-00-05- REP
Battelle ID	L0104-P	L0109-P	L0117-P	L0118-P
Sample Type	SA	SA	SA	SA
Collection Date	11/17/2014	11/17/2014	11/18/2014	11/18/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/20/2015	02/20/2015	02/20/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	6.06	2.09	7.85	8.66
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	0.94	0.95	0.94	0.88
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

LOC 6	6550	25200	16800	8820
LOC 7	832	3210	2780	1320
LOC 8	150	993	459	228
LOC 9	34.8	U	103	46.7
LOC 10	6.27	U	0.428	5.54

Surrogate Recoveries (%)

Cl3(34)	69	102	D	103	D	80
Cl6(152)	95	99	D	92	D	79

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Not Surrogate Corrected

S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-LS03-00-05	S-14N-RCC14-00-05	S-14N-SO2-00-05	S-14N-SO9-00-05
Battelle ID	L0126-P	L0132-P	L0138-P	L0139-P
Sample Type	SA	SA	SA	SA
Collection Date	11/19/2014	11/19/2014	11/19/2014	11/19/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/20/2015	02/21/2015	02/20/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	7.56	6.49	7.05	7.49
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	1.01	1.00	0.92	0.89
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl1(1)	27.6	5.78	17.0	DJ	6.97
Cl1(3)	26.6	11.6	28.2	DJ	7.67
Cl2(4)	1470 D	186	390 D		222
Cl2(5)	2.61 U	2.63 U	23.1 DJ		2.96 U
Cl2(6)	3820 D	787 D	1890 D		1080 D
Cl2(7)	54.1	12.9	81.5 D		18.8
Cl2(8)	3120 D	577 D	1780 D		775 D
Cl2(9)	102	24.4	112 D		33.8
Cl2(11)	704 D	110	280 D		128
Cl2(12)	2.54 J	2.46 J	20.2 DJ		3.83
Cl2(13)	1590 D	383	1110 D		488
Cl2(15)	1000 D	290	1110 D		342
Cl3(16)	137	130	1270 D		264
Cl3(17)	3180 D	678 D	2300 D		937 D
Cl3(18)	7050 D	1470 D	4360 D		1870 D
Cl3(19)	826 D	90.9	252 D		92.8
Cl3(22)	565 D	350	2800 D		787 D
Cl3(24)	9.23	7.14	58.7 D		14.3
Cl3(25)	5570 D	1640 D	3200 D		1860 D
Cl3(26)	8450 D	2510 D	4490 D		2730 D
Cl3(27)	1550 D	233	361 D		181
Cl3(28)	8190 D	2420 D	8620 D		3320 D
Cl3(29)	2.61 U	2.63 U	50.3 DJ		5.61
Cl3(30)	3.58	2.63 U	57.2 U		2.96 U
Cl3(31)	9000 D	2610 D	8400 D		3480 D
Cl3(32)	2550 D	357	1170 D		391
Cl3(33)	250	315	2960 D		677 D
Cl3(37)	181	202	1390 D		308
Cl4(40)	208	75.7	604 D		151
Cl4(41)	2.61 U	2.63 U	57.4 D		2.96 U
Cl4(42)	1510 D	845 D	2850 D		1160 D
Cl4(43)	107	50.3	57.2 U		2.96 U
Cl4(44)	2320 D	1130 D	4300 D		1650 D
Cl4(45)	172	115	623 D		191
Cl4(46)	253	69.2	263 D		82.8
Cl4(47)	2520 D	870 D	2590 D		1120 D

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-LS03-00-05	S-14N-RCC14-00-05	S-14N-SO2-00-05	S-14N-SO9-00-05
Battelle ID	L0126-P	L0132-P	L0138-P	L0139-P
Sample Type	SA	SA	SA	SA
Collection Date	11/19/2014	11/19/2014	11/19/2014	11/19/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/20/2015	02/21/2015	02/20/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	7.56	6.49	7.05	7.49
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	1.01	1.00	0.92	0.89
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl4(48)	2.61	U	2.63	U	735	D	92.2
Cl4(49)	10800	D	3500	D	8380	D	4030
Cl4(50)	20.9		7.21		45.9	DJ	8.14
Cl4(51)	858	D	116		298	D	108
Cl4(52)	12100	D	3770	D	8030	D	4200
Cl4(53)	1890	D	262		664	D	234
Cl4(54)	26.2		4.62		26.6	DJ	4.57
Cl4(56)	103		134		1790	D	311
Cl4(60)	54.3		81.8		676	D	144
Cl4(63)	51.9		53.2		341	D	87.2
Cl4(64)	1180	D	679	D	2790	D	1140
Cl4(66)	591	D	534	D	4610	D	1220
Cl4(67)	168		133		599	D	210
Cl4(70)	252		374		4250	D	975
Cl4(71)	1690	D	306		1170	D	367
Cl4(74)	559	D	308		2610	D	738
Cl4(75)	104		40.2		142	D	54.0
Cl4(77)	72.8		57.9		423	D	109
Cl4(80)	14.3		28.4		93.4	D	28.4
Cl4(81)	2.61	U	2.63	U	57.2	U	2.96
Cl5(82)	35.7		36.3		143	D	50.1
Cl5(83)	713	D	283		908	D	377
Cl5(84)	638	D	346		1090	D	385
Cl5(85)	98.2		107		283	D	140
Cl5(87)	122		139		399	D	151
Cl5(91)	1260	D	655	D	1870	D	849
Cl5(92)	707	D	329		1270	D	454
Cl5(95)	2420	D	1350	D	3920	D	1800
Cl5(97)	566	D	349		1940	D	668
Cl5(99)	1550	D	991	D	4410	D	1710
Cl5(100)	87.0		43.3		123	D	49.2
Cl5(101)	1650	D	1100	D	5550	D	1900
Cl5(104)	3.58		0.654	J	57.2	U	2.96
Cl5(105)	105		128		546	D	181
Cl5(110)	2700	D	1660	D	5570	D	2320
Cl5(114)	23.1		21.2		108	D	31.2

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S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-LS03-00-05	S-14N-RCC14-00-05	S-14N-SO2-00-05	S-14N-SO9-00-05
Battelle ID	L0126-P	L0132-P	L0138-P	L0139-P
Sample Type	SA	SA	SA	SA
Collection Date	11/19/2014	11/19/2014	11/19/2014	11/19/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/20/2015	02/21/2015	02/20/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	7.56	6.49	7.05	7.49
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	1.01	1.00	0.92	0.89
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI5(115)	2.62	U	2.64	U	57.4	U	2.97	U
CI5(118)	1060	D	975	D	4500	D	1680	D
CI5(123)	115		97.5		490	D	166	
CI5(124)	32.3		33.4		180	D	59.8	
CI5(125)	2.61	U	2.63	U	57.2	U	2.96	U
CI5(126)	7.41		7.54		31.0	DJ	9.11	
CI5(127)	2.61	U	2.63	U	57.2	U	2.96	U
CI6(128)	129		116		345	D	137	
CI6(130)	50.7		42.8		118	D	45.8	
CI6(131)	24.8		34.5		120	D	18.5	
CI6(134)	137		78.6		247	D	98.1	
CI6(135)	240		136		388	D	166	
CI6(136)	310		147		411	D	173	
CI6(137)	49.4		44.1		160	D	58.5	
CI6(138)	280		306		950	D	413	
CI6(139)	42.0		21.5		68.0	D	27.1	
CI6(140)	2.62	U	2.64	U	57.4	U	2.97	U
CI6(141)	58.4		57.2		219	D	75.0	
CI6(144)	26.0		17.9		80.2	D	21.6	
CI6(146)	238		136		488	D	183	
CI6(149)	2220	D	1060	D	2880	D	1320	D
CI6(151)	281		158		503	D	199	
CI6(153)	1750	D	1060	D	3390	D	1430	D
CI6(154)	119		44.1		128	D	51.8	
CI6(155)	1.90	J	2.64	U	57.4	U	2.97	U
CI6(156)	100		85.4		282	D	109	
CI6(157)	22.0		19.0		72.8	D	25.4	
CI6(158)	146		94.5		318	D	115	
CI6(163)	462		289		814	D	317	
CI6(164)	99.2		64.8		246	D	93.3	
CI6(166)	15.5		8.54		43.2	DJ	11.8	
CI6(167)	92.6		61.2		205	D	83.8	
CI6(169)	2.62	U	2.64	U	57.4	U	2.97	U
CI7(170)	127		84.6		245	D	104	
CI7(171)	37.2		24.2		76.6	D	28.2	
CI7(172)	24.0		14.3		65.3	D	16.8	

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S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-LS03-00-05	S-14N-RCC14-00-05	S-14N-SO2-00-05	S-14N-SO9-00-05
Battelle ID	L0126-P	L0132-P	L0138-P	L0139-P
Sample Type	SA	SA	SA	SA
Collection Date	11/19/2014	11/19/2014	11/19/2014	11/19/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/20/2015	02/21/2015	02/20/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	7.56	6.49	7.05	7.49
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	1.01	1.00	0.92	0.89
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI7(173)	2.62	U	3.12	57.4	U	2.97	U
CI7(174)	71.8		46.4	154	D	55.7	
CI7(175)	8.46		5.14	31.0	DJ	6.05	
CI7(176)	13.3		8.14	32.1	DJ	9.56	
CI7(177)	51.5		35.5	92.9	D	41.4	
CI7(178)	43.6		20.7	80.6	D	24.6	
CI7(179)	82.3		38.4	113	D	46.0	
CI7(180)	225		140	403	D	173	
CI7(183)	88.7		47.0	146	D	55.4	
CI7(184)	2.61	U	2.63	57.2	U	2.96	U
CI7(185)	11.7		7.62	37.5	DJ	8.79	
CI7(187)	245		116	307	D	137	
CI7(188)	5.88		2.82	57.4	U	3.41	
CI7(189)	2.61	U	2.63	57.2	U	2.96	U
CI7(190)	39.2		20.3	62.0	D	22.7	
CI7(191)	8.63		4.81	30.7	DJ	6.00	
CI7(193)	18.2		7.19	36.1	DJ	9.90	
CI8(194)	48.1		26.9	64.3	D	31.4	
CI8(195)	16.5		9.68	27.6	DJ	10.8	
CI8(197)	2.56	J	1.52	57.2	U	1.92	J
CI8(198)	2.62	U	2.64	57.4	U	2.97	U
CI8(199)	49.0		25.4	92.1	D	29.9	
CI8(200)	5.46		2.84	18.4	DJ	4.18	
CI8(201)	6.68		4.28	31.9	DJ	4.80	
CI8(202)	16.7		8.27	32.6	DJ	9.13	
CI8(203)	58.7		29.3	78.0	D	35.7	
CI8(205)	2.61	U	2.63	57.2	U	2.96	U
CI9(206)	30.1		17.4	42.6	DJ	18.0	
CI9(207)	4.19		3.27	57.2	U	3.42	
CI9(208)	10.9		5.85	15.7	DJ	6.26	
CI10(209)	6.01		4.21	57.2	U	4.85	
LOC 1	54.2		17.4	45.2		14.6	
LOC 2	11900		2370	6800		3090	
LOC 3	47500		13000	41600		16900	
LOC 4	37600		13500	49000		18400	
LOC 5	13900		8650	33300		13000	

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S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-LS03-00-05	S-14N-RCC14-00-05	S-14N-SO2-00-05	S-14N-SO9-00-05
Battelle ID	L0126-P	L0132-P	L0138-P	L0139-P
Sample Type	SA	SA	SA	SA
Collection Date	11/19/2014	11/19/2014	11/19/2014	11/19/2014
Extraction Date	02/06/2015	02/06/2015	02/06/2015	02/06/2015
Analysis Date	02/20/2015	02/20/2015	02/21/2015	02/20/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	7.56	6.49	7.05	7.49
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	1.01	1.00	0.92	0.89
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

LOC 6	6900	4080	12500	5170
LOC 7	1100	626	1910	748
LOC 8	204	108	345	128
LOC 9	45.2	26.5	58.3	27.7
LOC 10	6.01	4.21	U	4.85

Surrogate Recoveries (%)

Cl3(34)	85	97	103	D	96
Cl6(152)	94	92	95	D	94

Analyzed By Schumitz, Denise

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Not Surrogate Corrected

S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID S-14N-LBB16-00-05

Battelle ID L0145-P
Sample Type SA
Collection Date 11/20/2014
Extraction Date 02/06/2015
Analysis Date 02/20/2015
Analytical Instrument MS
% Moisture 0.00
% Lipid NA
Matrix SEDIMENT
Sample Size 9.97
Size Unit-Basis G_DRY
Units UG/KG_DRY

Cl1(1)	1.19	
Cl1(3)	0.859	
Cl2(4)	6.96	
Cl2(5)	0.264	U
Cl2(6)	18.1	
Cl2(7)	0.643	
Cl2(8)	18.8	
Cl2(9)	0.798	
Cl2(11)	4.08	
Cl2(12)	0.118	J
Cl2(13)	16.9	
Cl2(15)	16.6	
Cl3(16)	2.86	
Cl3(17)	22.8	
Cl3(18)	46.2	
Cl3(19)	4.18	
Cl3(22)	10.7	
Cl3(24)	0.265	U
Cl3(25)	62.1	D
Cl3(26)	91.6	D
Cl3(27)	10.2	
Cl3(28)	105	D
Cl3(29)	0.264	U
Cl3(30)	0.264	U
Cl3(31)	101	D
Cl3(32)	18.6	
Cl3(33)	9.25	
Cl3(37)	11.0	
Cl4(40)	8.46	
Cl4(41)	0.264	U
Cl4(42)	22.8	
Cl4(43)	0.264	U
Cl4(44)	31.5	
Cl4(45)	3.52	
Cl4(46)	3.41	
Cl4(47)	36.8	

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID S-14N-LBB16-00-05

Battelle ID L0145-P
Sample Type SA
Collection Date 11/20/2014
Extraction Date 02/06/2015
Analysis Date 02/20/2015
Analytical Instrument MS
% Moisture 0.00
% Lipid NA
Matrix SEDIMENT
Sample Size 9.97
Size Unit-Basis G_DRY
Units UG/KG_DRY

Cl4(48)	0.264	U
Cl4(49)	148	D
Cl4(50)	0.417	
Cl4(51)	8.00	
Cl4(52)	160	D
Cl4(53)	17.0	
Cl4(54)	0.392	
Cl4(56)	6.11	
Cl4(60)	3.59	
Cl4(63)	1.89	
Cl4(64)	22.3	
Cl4(66)	21.8	
Cl4(67)	6.47	
Cl4(70)	15.8	
Cl4(71)	22.7	
Cl4(74)	16.4	
Cl4(75)	2.13	
Cl4(77)	3.91	
Cl4(80)	1.04	
Cl4(81)	0.264	U
Cl5(82)	1.55	
Cl5(83)	13.9	
Cl5(84)	13.7	
Cl5(85)	4.57	
Cl5(87)	5.52	
Cl5(91)	22.8	
Cl5(92)	12.5	
Cl5(95)	43.2	
Cl5(97)	13.7	
Cl5(99)	37.1	
Cl5(100)	2.33	
Cl5(101)	38.4	
Cl5(104)	0.264	U
Cl5(105)	6.33	
Cl5(110)	64.2	D
Cl5(114)	0.718	

Analyzed By Schumitz, Denise

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Not Surrogate Corrected

S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID S-14N-LBB16-00-05

Battelle ID L0145-P
Sample Type SA
Collection Date 11/20/2014
Extraction Date 02/06/2015
Analysis Date 02/20/2015
Analytical Instrument MS
% Moisture 0.00
% Lipid NA
Matrix SEDIMENT
Sample Size 9.97
Size Unit-Basis G_DRY
Units UG/KG_DRY

CI5(115)	0.265	U
CI5(118)	36.1	
CI5(123)	3.94	
CI5(124)	1.29	
CI5(125)	0.264	U
CI5(126)	0.420	
CI5(127)	0.264	U
CI6(128)	4.80	
CI6(130)	1.59	
CI6(131)	1.58	
CI6(134)	3.11	
CI6(135)	5.57	
CI6(136)	6.37	
CI6(137)	1.50	
CI6(138)	13.7	
CI6(139)	0.943	
CI6(140)	0.265	U
CI6(141)	2.15	
CI6(144)	0.734	
CI6(146)	6.06	
CI6(149)	42.0	
CI6(151)	6.24	
CI6(153)	41.6	
CI6(154)	2.54	
CI6(155)	0.265	U
CI6(156)	3.19	
CI6(157)	0.800	
CI6(158)	3.83	
CI6(163)	12.6	
CI6(164)	2.80	
CI6(166)	0.392	
CI6(167)	2.78	
CI6(169)	0.265	U
CI7(170)	3.43	
CI7(171)	0.985	
CI7(172)	0.739	

Analyzed By Schumitz, Denise

3/5/2015

Not Surrogate Corrected

S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID S-14N-LBB16-00-05

Battelle ID L0145-P
Sample Type SA
Collection Date 11/20/2014
Extraction Date 02/06/2015
Analysis Date 02/20/2015
Analytical Instrument MS
% Moisture 0.00
% Lipid NA
Matrix SEDIMENT
Sample Size 9.97
Size Unit-Basis G_DRY
Units UG/KG_DRY

CI7(173)	0.265	U
CI7(174)	1.78	
CI7(175)	0.300	
CI7(176)	0.368	
CI7(177)	1.50	
CI7(178)	1.07	
CI7(179)	1.74	
CI7(180)	6.03	
CI7(183)	1.98	
CI7(184)	0.264	U
CI7(185)	0.310	
CI7(187)	5.72	
CI7(188)	0.209	J
CI7(189)	0.354	
CI7(190)	0.918	
CI7(191)	0.301	
CI7(193)	0.343	
CI8(194)	1.11	
CI8(195)	0.264	U
CI8(197)	0.264	U
CI8(198)	0.265	U
CI8(199)	1.25	
CI8(200)	0.157	J
CI8(201)	0.303	
CI8(202)	0.446	
CI8(203)	1.35	
CI8(205)	0.264	U
CI9(206)	0.672	
CI9(207)	0.177	J
CI9(208)	0.266	
CI10(209)	0.264	U
LOC 1	2.05	
LOC 2	83.0	
LOC 3	496	
LOC 4	564	
LOC 5	322	

Analyzed By Schumitz, Denise

3/5/2015

Not Surrogate Corrected

S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID S-14N-LBB16-00-05

Battelle ID L0145-P
Sample Type SA
Collection Date 11/20/2014
Extraction Date 02/06/2015
Analysis Date 02/20/2015
Analytical Instrument MS
% Moisture 0.00
% Lipid NA
Matrix SEDIMENT
Sample Size 9.97
Size Unit-Basis G_DRY
Units UG/KG_DRY

LOC 6	167
LOC 7	28.1
LOC 8	4.62
LOC 9	1.12
LOC 10	U

Surrogate Recoveries (%)

Cl3(34)	100
Cl6(152)	96



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-LBB16-00-05	S-14N-LBB16-00-05		
Battelle ID	L0145-P	L0145MS-P		
Sample Type	SA	MS		
Collection Date	11/20/2014	11/20/2014		
Extraction Date	02/06/2015	02/06/2015		
Analysis Date	02/20/2015	02/20/2015		
Analytical Instrument	MS	MS		
% Moisture	0.00	0.25		
% Lipid	NA	NA		
Matrix	SEDIMENT	SEDIMENT		
Sample Size	9.97	5.04		
Size Unit-Basis	G_DRY	G_DRY		
Units	UG/KG_DRY	UG/KG_DRY	Target	% REC Qual

Cl1(1)	1.19	13.2	12.65	95
Cl1(3)	0.859	12.6	12.65	93
Cl2(4)	6.96	19.9	12.40	104
Cl2(5)	0.264 U	0.496 U		
Cl2(6)	18.1	0.496 U		
Cl2(7)	0.643	0.498 U		
Cl2(8)	18.8	30.0	12.65	89
Cl2(9)	0.798	0.496 U		
Cl2(11)	4.08	0.498 U		
Cl2(12)	0.118 J	0.496 U		
Cl2(13)	16.9	0.498 U		
Cl2(15)	16.6	25.4	12.40	71
Cl3(16)	2.86	0.498 U		
Cl3(17)	22.8	0.498 U		
Cl3(18)	46.2	67.1	12.65	165 n
Cl3(19)	4.18	17.9	12.65	108
Cl3(22)	10.7	0.498 U		
Cl3(24)	0.265 U	0.498 U		
Cl3(25)	62.1 D	0.496 U		
Cl3(26)	91.6 D	0.496 U		
Cl3(27)	10.2	0.496 U		
Cl3(28)	105 D	126 E	12.65	166 n
Cl3(29)	0.264 U	0.496 U		
Cl3(30)	0.264 U	0.496 U		
Cl3(31)	101 D	120 E	12.65	150 n
Cl3(32)	18.6	0.496 U		
Cl3(33)	9.25	0.498 U		
Cl3(37)	11.0	23.5	12.65	99
Cl4(40)	8.46	0.498 U		
Cl4(41)	0.264 U	0.496 U		
Cl4(42)	22.8	0.498 U		
Cl4(43)	0.264 U	0.496 U		
Cl4(44)	31.5	49.0	12.65	138 n
Cl4(45)	3.52	0.496 U		

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Not Surrogate Corrected

S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID S-14N-LBB16-00-05

Battelle ID L0145MSD-P
Sample Type MSD
Collection Date 11/20/2014
Extraction Date 02/06/2015
Analysis Date 02/20/2015
Analytical Instrument MS
% Moisture 0.26
% Lipid NA
Matrix SEDIMENT
Sample Size 4.97
Size Unit-Basis G_DRY
Units UG/KG_DRY

Target % REC Qual RPD Qual

Cl1(1)	0.714	12.83	0 N	200.0	N
Cl1(3)	0.686	12.83	0 N	200.0	N
Cl2(4)	1.38	12.58	0 n	200.0	n
Cl2(5)	0.503	U			
Cl2(6)	0.503	U			
Cl2(7)	0.505	U			
Cl2(8)	1.56	12.83	0 n	200.0	n
Cl2(9)	0.503	U			
Cl2(11)	0.505	U			
Cl2(12)	0.503	U			
Cl2(13)	0.505	U			
Cl2(15)	1.60	12.58	0 n	200.0	n
Cl3(16)	0.505	U			
Cl3(17)	0.505	U			
Cl3(18)	2.73	12.83	0 n	200.0	n
Cl3(19)	1.21	12.83	0 n	200.0	n
Cl3(22)	0.505	U			
Cl3(24)	0.505	U			
Cl3(25)	0.503	U			
Cl3(26)	0.503	U			
Cl3(27)	0.503	U			
Cl3(28)	4.16	12.83	0 n	200.0	n
Cl3(29)	0.503	U			
Cl3(30)	0.503	U			
Cl3(31)	3.70	12.83	0 n	200.0	n
Cl3(32)	0.503	U			
Cl3(33)	0.505	U			
Cl3(37)	1.45	12.83	0 n	200.0	n
Cl4(40)	0.505	U			
Cl4(41)	0.503	U			
Cl4(42)	0.505	U			
Cl4(43)	0.503	U			
Cl4(44)	2.20	12.83	0 n	200.0	n
Cl4(45)	0.503	U			

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S15-0039MS-Master_3



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-LBB16-00-05	S-14N-LBB16-00-05			
Battelle ID	L0145-P	L0145MS-P			
Sample Type	SA	MS			
Collection Date	11/20/2014	11/20/2014			
Extraction Date	02/06/2015	02/06/2015			
Analysis Date	02/20/2015	02/20/2015			
Analytical Instrument	MS	MS			
% Moisture	0.00	0.25			
% Lipid	NA	NA			
Matrix	SEDIMENT	SEDIMENT			
Sample Size	9.97	5.04			
Size Unit-Basis	G_DRY	G_DRY			
Units	UG/KG_DRY	UG/KG_DRY	Target	% REC	Qual
Cl4(46)	3.41	0.498 U			
Cl4(47)	36.8	0.496 U			
Cl4(48)	0.264 U	0.496 U			
Cl4(49)	148 D	178 E	12.40	242 n	
Cl4(50)	0.417	0.498 U			
Cl4(51)	8.00	0.498 U			
Cl4(52)	160 D	174 E	12.65	111	
Cl4(53)	17.0	0.498 U			
Cl4(54)	0.392	11.8	12.65	90	
Cl4(56)	6.11	0.498 U			
Cl4(60)	3.59	0.498 U			
Cl4(63)	1.89	0.496 U			
Cl4(64)	22.3	0.498 U			
Cl4(66)	21.8	40.4	12.65	147 n	
Cl4(67)	6.47	0.498 U			
Cl4(70)	15.8	33.2	12.65	138 n	
Cl4(71)	22.7	0.496 U			
Cl4(74)	16.4	32.6	12.65	128 n	
Cl4(75)	2.13	0.498 U			
Cl4(77)	3.91	18.2	12.65	113	
Cl4(80)	1.04	0.498 U			
Cl4(81)	0.264 U	14.2	12.40	115	
Cl5(82)	1.55	0.496 U			
Cl5(83)	13.9	29.5	12.65	123 n	
Cl5(84)	13.7	0.498 U			
Cl5(85)	4.57	0.496 U			
Cl5(87)	5.52	19.8	12.65	113	
Cl5(91)	22.8	0.498 U			
Cl5(92)	12.5	0.498 U			
Cl5(95)	43.2	0.496 U			
Cl5(97)	13.7	0.498 U			
Cl5(99)	37.1	58.4	12.65	168 n	
Cl5(100)	2.33	0.498 U			
Cl5(101)	38.4	63.3	12.65	197 n	

Analyzed By Schumitz, Denise

3/5/2015

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S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID S-14N-LBB16-00-05

Battelle ID L0145MSD-P
Sample Type MSD
Collection Date 11/20/2014
Extraction Date 02/06/2015
Analysis Date 02/20/2015
Analytical Instrument MS
% Moisture 0.26
% Lipid NA
Matrix SEDIMENT
Sample Size 4.97
Size Unit-Basis G_DRY
Units UG/KG_DRY

Target % REC Qual RPD Qual

Cl4(46)	0.505 U				
Cl4(47)	0.503 U				
Cl4(48)	0.503 U				
Cl4(49)	5.03	12.58	0 n	200.0	n
Cl4(50)	0.505 U				
Cl4(51)	0.505 U				
Cl4(52)	5.02	12.83	0 n	200.0	n
Cl4(53)	0.505 U				
Cl4(54)	0.750	12.83	3 N	187.1	N
Cl4(56)	0.505 U				
Cl4(60)	0.505 U				
Cl4(63)	0.503 U				
Cl4(64)	0.505 U				
Cl4(66)	1.46	12.83	0 n	200.0	n
Cl4(67)	0.505 U				
Cl4(70)	1.04	12.83	0 n	200.0	n
Cl4(71)	0.503 U				
Cl4(74)	0.978	12.83	0 n	200.0	n
Cl4(75)	0.505 U				
Cl4(77)	1.22	12.83	0 n	200.0	n
Cl4(80)	0.505 U				
Cl4(81)	0.870	12.58	7 N	177.0	N
Cl5(82)	0.503 U				
Cl5(83)	1.20	12.83	0 n	200.0	n
Cl5(84)	0.505 U				
Cl5(85)	0.503 U				
Cl5(87)	0.747	12.83	0 n	200.0	n
Cl5(91)	0.505 U				
Cl5(92)	0.505 U				
Cl5(95)	0.503 U				
Cl5(97)	0.505 U				
Cl5(99)	1.35	12.83	0 n	200.0	n
Cl5(100)	0.505 U				
Cl5(101)	1.44	12.83	0 n	200.0	n

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S15-0039MS-Master_3



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-LBB16-00-05	S-14N-LBB16-00-05		
Battelle ID	L0145-P	L0145MS-P		
Sample Type	SA	MS		
Collection Date	11/20/2014	11/20/2014		
Extraction Date	02/06/2015	02/06/2015		
Analysis Date	02/20/2015	02/20/2015		
Analytical Instrument	MS	MS		
% Moisture	0.00	0.25		
% Lipid	NA	NA		
Matrix	SEDIMENT	SEDIMENT		
Sample Size	9.97	5.04		
Size Unit-Basis	G_DRY	G_DRY		
Units	UG/KG_DRY	UG/KG_DRY	Target	% REC Qual

CI5(104)	0.264 U	12.3	12.65	97
CI5(105)	6.33	22.9	12.65	131 n
CI5(110)	64.2 D	80.9	12.65	132 n
CI5(114)	0.718	13.6	12.65	102
CI5(115)	0.265 U	0.498 U		
CI5(118)	36.1	61.3	12.65	199 n
CI5(123)	3.94	18.1	12.65	112
CI5(124)	1.29	0.498 U		
CI5(125)	0.264 U	0.496 U		
CI5(126)	0.420	15.1	12.65	116
CI5(127)	0.264 U	0.496 U		
CI6(128)	4.80	19.5	12.65	116
CI6(130)	1.59	0.496 U		
CI6(131)	1.58	0.498 U		
CI6(134)	3.11	0.498 U		
CI6(135)	5.57	0.498 U		
CI6(136)	6.37	0.496 U		
CI6(137)	1.50	0.498 U		
CI6(138)	13.7	30.8	12.65	135 n
CI6(139)	0.943	0.498 U		
CI6(140)	0.265 U	0.498 U		
CI6(141)	2.15	0.498 U		
CI6(144)	0.734	0.496 U		
CI6(146)	6.06	0.496 U		
CI6(149)	42.0	61.6	12.65	155 n
CI6(151)	6.24	19.7	12.65	106
CI6(153)	41.6	64.1	12.65	178 n
CI6(154)	2.54	0.496 U		
CI6(155)	0.265 U	13.4	12.65	106
CI6(156)	3.19	18.0	12.65	117
CI6(157)	0.800	14.8	12.40	113
CI6(158)	3.83	17.7	12.40	112
CI6(163)	12.6	0.496 U		
CI6(164)	2.80	0.496 U		

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3/5/2015

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S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID S-14N-LBB16-00-05

Battelle ID L0145MSD-P
Sample Type MSD
Collection Date 11/20/2014
Extraction Date 02/06/2015
Analysis Date 02/20/2015
Analytical Instrument MS
% Moisture 0.26
% Lipid NA
Matrix SEDIMENT
Sample Size 4.97
Size Unit-Basis G_DRY
Units UG/KG_DRY

Target % REC Qual RPD Qual

Cl5(104)	0.288 J	12.83	2 N	191.9	N
Cl5(105)	1.02	12.83	0 n	200.0	n
Cl5(110)	3.95	12.83	0 n	200.0	n
Cl5(114)	0.584	12.83	0 N	200.0	N
Cl5(115)	0.505 U				
Cl5(118)	1.70	12.83	0 n	200.0	n
Cl5(123)	0.645	12.83	0 n	200.0	n
Cl5(124)	0.505 U				
Cl5(125)	0.503 U				
Cl5(126)	1.17	12.83	6 N	180.3	N
Cl5(127)	0.503 U				
Cl6(128)	1.22	12.83	0 n	200.0	n
Cl6(130)	0.503 U				
Cl6(131)	0.505 U				
Cl6(134)	0.505 U				
Cl6(135)	0.505 U				
Cl6(136)	0.503 U				
Cl6(137)	0.505 U				
Cl6(138)	0.951	12.83	0 n	200.0	n
Cl6(139)	0.505 U				
Cl6(140)	0.505 U				
Cl6(141)	0.505 U				
Cl6(144)	0.503 U				
Cl6(146)	0.503 U				
Cl6(149)	1.80	12.83	0 n	200.0	n
Cl6(151)	0.698	12.83	0 n	200.0	n
Cl6(153)	1.51	12.83	0 n	200.0	n
Cl6(154)	0.503 U				
Cl6(155)	0.410 J	12.83	3 N	189.0	N
Cl6(156)	0.605	12.83	0 n	200.0	n
Cl6(157)	0.638	12.58	0 N	200.0	N
Cl6(158)	0.703	12.58	0 n	200.0	n
Cl6(163)	0.503 U				
Cl6(164)	0.503 U				

Analyzed By Schumitz, Denise

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3/5/2015

S15-0039MS-Master_3



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-LBB16-00-05	S-14N-LBB16-00-05		
Battelle ID	L0145-P	L0145MS-P		
Sample Type	SA	MS		
Collection Date	11/20/2014	11/20/2014		
Extraction Date	02/06/2015	02/06/2015		
Analysis Date	02/20/2015	02/20/2015		
Analytical Instrument	MS	MS		
% Moisture	0.00	0.25		
% Lipid	NA	NA		
Matrix	SEDIMENT	SEDIMENT		
Sample Size	9.97	5.04		
Size Unit-Basis	G_DRY	G_DRY		
Units	UG/KG_DRY	UG/KG_DRY	Target	% REC Qual

Cl6(166)	0.392	0.498 U		
Cl6(167)	2.78	16.3	12.65	107
Cl6(169)	0.265 U	14.0	12.65	111
Cl7(170)	3.43	18.7	12.65	121 n
Cl7(171)	0.985	0.498 U		
Cl7(172)	0.739	0.496 U		
Cl7(173)	0.265 U	0.498 U		
Cl7(174)	1.78	0.496 U		
Cl7(175)	0.300	0.498 U		
Cl7(176)	0.368	0.496 U		
Cl7(177)	1.50	14.6	12.65	104
Cl7(178)	1.07	0.498 U		
Cl7(179)	1.74	0.498 U		
Cl7(180)	6.03	19.6	12.65	107
Cl7(183)	1.98	16.2	12.65	112
Cl7(184)	0.264 U	0.496 U		
Cl7(185)	0.310	0.496 U		
Cl7(187)	5.72	18.9	12.65	104
Cl7(188)	0.209 J	12.4	12.65	96
Cl7(189)	0.354	13.0	12.65	100
Cl7(190)	0.918	0.498 U		
Cl7(191)	0.301	0.498 U		
Cl7(193)	0.343	0.498 U		
Cl8(194)	1.11	13.5	12.65	98
Cl8(195)	0.264 U	12.6	12.65	100
Cl8(197)	0.264 U	0.496 U		
Cl8(198)	0.265 U	0.498 U		
Cl8(199)	1.25	0.496 U		
Cl8(200)	0.157 J	0.496 U		
Cl8(201)	0.303	11.9	12.40	94
Cl8(202)	0.446	12.2	12.65	93
Cl8(203)	1.35	14.0	12.65	100
Cl8(205)	0.264 U	12.4	12.65	98
Cl9(206)	0.672	13.3	12.65	100

Analyzed By Schumitz, Denise

3/5/2015

Not Surrogate Corrected

S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID S-14N-LBB16-00-05

Battelle ID L0145MSD-P
Sample Type MSD
Collection Date 11/20/2014
Extraction Date 02/06/2015
Analysis Date 02/20/2015
Analytical Instrument MS
% Moisture 0.26
% Lipid NA
Matrix SEDIMENT
Sample Size 4.97
Size Unit-Basis G_DRY
Units UG/KG_DRY

Target % REC Qual RPD Qual

Cl6(166)	0.505 U					
Cl6(167)	0.439 J	12.83	0 n	200.0	n	
Cl6(169)	1.40	12.83	11 N	163.9	N	
Cl7(170)	0.676	12.83	0 n	200.0	n	
Cl7(171)	0.505 U					
Cl7(172)	0.503 U					
Cl7(173)	0.505 U					
Cl7(174)	0.503 U					
Cl7(175)	0.505 U					
Cl7(176)	0.503 U					
Cl7(177)	0.744	12.83	0 N	200.0	N	
Cl7(178)	0.505 U					
Cl7(179)	0.505 U					
Cl7(180)	0.434 J	12.83	0 n	200.0	n	
Cl7(183)	0.523	12.83	0 N	200.0	N	
Cl7(184)	0.503 U					
Cl7(185)	0.503 U					
Cl7(187)	0.488 J	12.83	0 n	200.0	n	
Cl7(188)	0.412 J	12.83	2 N	191.8	N	
Cl7(189)	0.323 J	12.83	0 N	200.0	N	
Cl7(190)	0.505 U					
Cl7(191)	0.505 U					
Cl7(193)	0.505 U					
Cl8(194)	0.388 J	12.83	0 N	200.0	N	
Cl8(195)	0.465 J	12.83	4 N	184.6	N	
Cl8(197)	0.503 U					
Cl8(198)	0.505 U					
Cl8(199)	0.503 U					
Cl8(200)	0.503 U					
Cl8(201)	0.452 J	12.58	1 N	195.8	N	
Cl8(202)	0.375 J	12.83	0 N	200.0	N	
Cl8(203)	0.368 J	12.83	0 N	200.0	N	
Cl8(205)	0.281 J	12.83	2 N	192.0	N	
Cl9(206)	0.281 J	12.83	0 N	200.0	N	

Analyzed By Schumitz, Denise

Not Surrogate Corrected

3/5/2015

S15-0039MS-Master_3



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID	S-14N-LBB16-00-05	S-14N-LBB16-00-05		
Battelle ID	L0145-P	L0145MS-P		
Sample Type	SA	MS		
Collection Date	11/20/2014	11/20/2014		
Extraction Date	02/06/2015	02/06/2015		
Analysis Date	02/20/2015	02/20/2015		
Analytical Instrument	MS	MS		
% Moisture	0.00	0.25		
% Lipid	NA	NA		
Matrix	SEDIMENT	SEDIMENT		
Sample Size	9.97	5.04		
Size Unit-Basis	G_DRY	G_DRY		
Units	UG/KG_DRY	UG/KG_DRY	Target	% REC Qual

Cl9(207)	0.177 J	0.496 U		
Cl9(208)	0.266	12.4	12.65	96
Cl10(209)	0.264 U	10.8	12.90	84
LOC 1	2.05	25.8	25.30	94
LOC 2	83.0	75.3	37.45	0 n
LOC 3	496	354	63.24	0 n
LOC 4	564	551	113.34	0 n
LOC 5	322	395	139.14	52
LOC 6	167	290	138.64	89
LOC 7	28.1	113	84.82	100
LOC 8	4.62	76.6	75.64	95
LOC 9	1.12	25.7	25.30	97
LOC 10	U	10.8	12.90	84

Surrogate Recoveries (%)

Cl3(34)	100	103
Cl6(152)	96	95

Analyzed By Schumitz, Denise

3/5/2015

Not Surrogate Corrected

S15-0039MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
Project Number: 100043429

Client ID S-14N-LBB16-00-05

Battelle ID L0145MSD-P
Sample Type MSD
Collection Date 11/20/2014
Extraction Date 02/06/2015
Analysis Date 02/20/2015
Analytical Instrument MS
% Moisture 0.26
% Lipid NA
Matrix SEDIMENT
Sample Size 4.97
Size Unit-Basis G_DRY
Units UG/KG_DRY

Target % REC Qual RPD Qual

CI9(207)	0.503 U				
CI9(208)	0.293 J	12.83	0 N	200.0	N
CI10(209)	0.0654 J	13.08	1 N	195.3	N
LOC 1	1.40	25.65	0 N	200.0	N
LOC 2	4.54	37.98	0 n	0.0	
LOC 3	13.2	64.13	0 n	0.0	
LOC 4	18.6	114.94	0 n	0.0	
LOC 5	14.1	141.10	0 n	200.0	n
LOC 6	10.4	140.59	0 n	200.0	n
LOC 7	3.60	86.02	0 n	200.0	n
LOC 8	2.33	76.71	0 N	200.0	N
LOC 9	0.574	25.65	0 N	200.0	N
LOC 10	0.0654	13.08	1 N	195.3	N

Surrogate Recoveries (%)

CI3(34)	3 N
CI6(152)	3 N

Glossary of Data Qualifiers

Flag: Application:

B	Analyte concentration found in the sample at a concentration <5x the level found in the procedural blank.
D	Dilution Run. Initial run outside linear range of instrument.
E	Estimate, result is greater than the highest concentration level in the calibration.
H	Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract.
J	Analyte detected below the sample-specific Reporting Limit (RL).
m	Confirmation column manually over-ridden by analyst, dual column quantitative analysis only.
ME	Significant Matrix Interference - Estimated value.
MI	Significant Matrix Interference - value could not be determined or estimated.
n	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets the contingency criteria.
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not applicable
p	Dual column value exceeds RPD criteria, dual column quantitative analysis only.
T	Holding Time (HT) exceeded.
U	Analyte not detected at 3:1 signal:noise ratio.

QA/QC Summary Batch 15-0039

Project:	USACE/NAE – New Bedford Harbor - Upper Harbor Post Dredging Cores
Parameters:	PCBs
Laboratory:	Battelle, Norwell, MA
Matrix:	Sediment
Data Set:	DP-15-0044
Analytical SOP:	5-315
Method Reference:	EPA Method 8270D modified; EPA Method 1668A

Sample Custody

Collection Date	Receipt Date	Temp (°C)
11/17-25/2014	11/25/2014	-20

Corrective Actions	Two corrective actions associated with shipment. The COC forms were not delivered with the samples. Both were resolved by the field collection team.
Sample Storage	The sediment samples were stored frozen until extraction.
Related samples	NA

METHOD SUMMARIES

Sample Preparation	Prior to sediment extraction, an aliquot of > 30 g wet sediment was placed on clean, labeled aluminum foil, loosely covered, and placed in a laboratory laminar flow hood to dry the sample to <50% moisture. Aliquots of these dried samples were weighed into sample extraction vessels for sample extraction. The immunoassay data was consulted to assist in determining the mass of sediment extracted for each sample. Between one and ten grams of sediment was weighed out for extraction. The sediment was spiked with surrogates, extracted three times with methylene chloride, and the extracts combined, dried over anhydrous sodium sulfate, and concentrated. The concentrated extract was processed through Florisil to isolate the PCBs, followed by activated copper treatment to remove sulfur. The cleaned extract was concentrated and fortified with internal standard (IS) compounds prior to analysis by GC/MS.
Prep Comments	• Samples were poured through a funnel with glass wool and sodium sulfate due to heavy particulate matter to prevent interference during concentration and florisil cleanup. • L0031, L0109, L0117, L0138: Samples were inadvertently not split prior to column clean up. • L0145MSD: When putting sample through florisil column, sample was loaded onto column before 40 mL vials were placed under columns. Therefore, the sample dripped into waste. As first elution was added, this mistake was noticed, and the columns were stopped and 40 mL vials were added under the columns. Per order of project manager, the sample was continued through prep to analysis.

QA/QC Summary

Batch 15-0039

Analysis	PCBs were analyzed by gas chromatography mass spectroscopy (GC/MS). An initial calibration consisting of target analytes was analyzed prior to sample analysis to demonstrate the linear range. Calibration verification was performed at the beginning and end of each 24-hr period in which samples were analyzed. Concentrations of target compounds were calculated versus internal standards using the average response factors (RF) generated from the initial calibration.
Analysis Comments	• Cl5(84) and Cl5(92) co-elute, as do Cl5(85) and Cl5(115) however, historical data has reported these as two separate peaks. These peaks are integrated as two separate peaks in all ICAL, ICC, CCV, and field samples to comply with the reporting criteria of the historical data. • Samples L0031, L0109, L0117 and L0138 were spiked 10 times higher than the rest of the samples because they were to be split before the Florisil column was performed. This was based on the IA data that was provided for these specific samples. The sample prep technician inadvertently did not split the samples and submitted samples with the higher concentration of surrogate. The project manager was notified and requested that the 1:20 pre-dilution that was made in the lab be used as the initial quant of all analytes including the %SIS recovery. As a result the %SIS on the tables has a D qualifier and some analytes have a JD qualifier. • Sample L0145MSD was inadvertently not collected when added to the Florisil column. Per instruction of the Project Manager the column was eluted, collected into a vial and continued thru the prep lab to analysis. As a result there are two failing %SIS recoveries for sample L0145MSD and multiple failing MSD recoveries as well as failing RSD values.

Holding Times	Extraction Date(s)	Analysis Date(s)
	2/6/2015	2/19-21/2015; 2/26/2015

Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.
Blank value <SSRL	No exceedences noted.
Samples >5X PB	No comments.

Laboratory Control Spike (LCS)/ Laboratory Control Spike Duplicate (LCSD)	A LCS/LCSD pair was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. The relative percent difference (RPD) was calculated to measure data quality in terms of precision.
40-120% recovery	No exceedances noted.
<30% RPD	No comments.

QA/QC Summary

Batch 15-0039

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)	A MS/MSD pair was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. The relative percent difference (RPD) was calculated to measure data quality in terms of precision.
40-120% recovery <30% RPD Spike must be >5x bkgd conc.	Twenty-seven primary exceedances noted. As noted in the sample preparation records, part of the MSD sample was lost during processing although the actual amount lost could not be determined. The sample was continued through the full extraction and analysis process. The MSD sample had no or low concentrations of PCB in all instances. Laboratory precision is demonstrated with the LCS/LCSD pair.
Surrogate Recovery	Surrogate compounds were added prior to extraction. The surrogate recoveries are calculated to measure extraction efficiency.
40-120% recovery	Two exceedances noted. The surrogates in the MSD were under-recovered, because of sample loss during processing. Documented appropriately.
Initial Calibration (ICAL)	The GC/MS was calibrated with six-level quadratic calibration curve for all compounds using an instrument response factor (RF).
$R^2 \geq 0.995$	No exceedances noted. No comments.
Independent Calibration Check (ICC)	The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL.
$\leq 25\%$ difference individual and mean	One exceedance noted. PCB 95 is above the DQO in one ICC by 1.4%. This congener may be considered biased slightly high where it is detected.
Continuing Calibration Verification (CCV)	Continuing calibration standards were run every 24 hours to ensure that initial calibration is still valid.
$\leq 25\%$ difference individual; $\leq 15\%$ difference mean	No exceedances noted. No comments.

Report Project Data Set MQOs

Project Title: USACE/NAE New Bedford Harbor Task

Data Set Number: DP-15-0044

Project Number: 100043429

Prep Batch Number: 15-0039

Test Code (Matrix Type): Master_315(S)

QC_PARAMETER:	Exceed:	Contg.:	JUSTIFICATION:
Procedural Blank	0	0	None
PB Measurement Quality Objective	0	0	None
Laboratory Control Sample	0	0	None
Matrix Spike Recovery	27	61	Please see Misc Doc. DMS 03/02/2015
Matrix Spike/Spike Duplicate Precision	27	37	Please see Misc Doc. DMS 03/02/2015
Standard Reference Material Accuracy	NA	NA	NA
Analytical Duplicate Precision	NA	NA	NA
Analytical Triplicate Precision	NA	NA	NA
Surrogate Compound Recovery	2	0	Please see Misc Doc. DMS 03/02/2015
Control Oil	NA	NA	NA
Instrument Calibration	0	0	None
Independent Calibration Check Solution	1	0	PCB 95 is higher than the acceptable criteria by 1.4% in one ICC. PCB 95 should be considered biased slightly high where detected in the affected run. DMS 02/27/2015
Continuing Calibration Verification	0	0	None

BATTELLE - DUXBURY OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

Project Title:	USACE/NAE New Bedford Harbor Task	Data Set Number:	DP-15-0044
Project Number:	100043429	Prep Batch Number:	15-0039
Entered By:	Denise Schumitz	Entered On:	03/02/2015
Test Code (Matrix Type):	Master_315(S)		

Method MF0782 is a 6pt Q method used to quant all samples. This method uses levels ID13,ID15, ID16,ID17,ID18, and ID20.
DMS 3/2/2015

CI5(84) and CI5(92) co-elute, as do CI5(85) and CI5(115) however, historical data has reported these as two separate peaks. These peaks are integrated as two separate peaks in all ICAL, ICC, CCV, and field samples to comply with the reporting criteria of the historical data.
DMS 3/2/2015

Samples L0031, L0109, L0117 and L0138 were spiked 10 times higher than the rest of the samples because they were to be split before the Florisil column was performed. This was based on the IA data that was provided for these specific samples. The sample prep technician inadvertently did not split the samples and submitted samples with the higher concentration of surrogate. The project manager was notified and requested that the 1:20 pre-dilution that was made in the lab be used as the initial quant of all analytes including the %SIS recovery. As a result the %SIS on the tables has a D qualifier and some analytes have a JD qualifier.
DMS 3/2/2015

Sample L0145MSD was inadvertently not collected when added to the Florisil column. Per instruction of the Project Manager the column was eluted, collected into a vial and continued thru the prep lab to analysis. As a result there are two failing %SIS recoveries for sample L0145MSD and multiple failing MSD recoveries as well as failing RPD values.
DMS 3/2/2015

Task Leader Approval:		Kevin McInerney 2015.03.03 13:34:44 -05'00'
Supervisor Approval:		
PM Approval:		Carole McCarthy 2015.03.03 13:37:36 -05'00'

Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 15-0039

METHOD: MF0782.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:
SF0782.S	F9118.D	ID13	CS	CI5(96)	76486
SF0782.S	F9120.D	ID15	CS	CI5(96)	70127
SF0782.S	F9121.D	ID16	CS	CI5(96)	80342
SF0782.S	F9122.D	ID17	CS	CI5(96)	83580
SF0782.S	F9123.D	ID18	CS	CI5(96)	78058
SF0782.S	F9125.D	ID20	CS	CI5(96)	87381

L3 80342

(+) 160684

(-) 40171

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SF0782.S	F9126.D	ID21 ICC	ICC	CI5(96)	66914	
SF0782.S	F9220.D	ID17	CCV	CI5(96)	60889	
SF0782.S	F9221.D	CE811PB-P(0)	PB	CI5(96)	51535	
SF0782.S	F9222.D	CE812LCS-P(0)	LCS	CI5(96)	54065	
SF0782.S	F9223.D	CE813LCSD-P(0)	LCSD	CI5(96)	52777	
SF0782.S	F9225.D	L0064-P(2)	SA	CI5(96)	52734	
SF0782.S	F9226.D	L0067-P(2)	SA	CI5(96)	71229	
SF0782.S	F9227.D	L0075-P(2)	SA	CI5(96)	50685	
SF0782.S	F9228.D	L0104-P(2)	SA	CI5(96)	81119	
SF0782.S	F9230.D	ID18	CCV	CI5(96)	65993	
SF0782.S	F9232.D	L0118-P(2)	SA	CI5(96)	71708	
SF0782.S	F9233.D	L0126-P(2)	SA	CI5(96)	79366	
SF0782.S	F9234.D	L0132-P(2)	SA	CI5(96)	64963	
SF0782.S	F9236.D	L0139-P(2)	SA	CI5(96)	64842	
SF0782.S	F9237.D	L0145-P(2)	SA	CI5(96)	58317	
SF0782.S	F9238.D	L0145MS-P(0)	MS	CI5(96)	60618	
SF0782.S	F9239.D	L0145MSD-P(0)	MSD	CI5(96)	60784	
SF0782.S	F9240.D	ID17	CCV	CI5(96)	78704	
SF0782.S	F9241.D	L0031-P-D(4)	SA	CI5(96)	66882	
SF0782.S	F9242.D	L0031-P-D(5)	SA	CI5(96)	66003	
SF0782.S	F9245.D	L0067-P-D(4)	SA	CI5(96)	61623	
SF0782.S	F9247.D	L0075-P-D(4)	SA	CI5(96)	70177	
SF0782.S	F9250.D	ID18	CCV	CI5(96)	55031	
SF0782.S	F9252.D	L0109-P-D(4)	SA	CI5(96)	63635	
SF0782.S	F9253.D	L0109-P-D(5)	SA	CI5(96)	57587	
SF0782.S	F9254.D	L0117-P-D(4)	SA	CI5(96)	56705	
SF0782.S	F9255.D	L0117-P-D(5)	SA	CI5(96)	56416	
SF0782.S	F9256.D	L0118-P-D(4)	SA	CI5(96)	55564	
SF0782.S	F9258.D	L0126-P-D(4)	SA	CI5(96)	59940	
SF0782.S	F9259.D	L0126-P-D(5)	SA	CI5(96)	57475	
SF0782.S	F9260.D	ID17	CCV	CI5(96)	67066	
SF0782.S	F9261.D	L0132-P-D(4)	SA	CI5(96)	61139	

Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 15-0039

METHOD: MF0782.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SF0782.S	F9263.D	L0138-P-D(4)	SA	CI5(96)	58071	
SF0782.S	F9265.D	L0139-P-D(4)	SA	CI5(96)	58298	
SF0782.S	F9267.D	L0145-P-D(4)	SA	CI5(96)	56988	
SF0782.S	F9269.D	ID18	CCV	CI5(96)	68690	
SF0783.S	F9272.D	ID17	CCV	CI5(96)	54958	
SF0783.S	F9273.D	L0104-P-D(4)	SA	CI5(96)	64130	
SF0783.S	F9274.D	L0104-P-D(5)	SA	CI5(96)	61099	
SF0783.S	F9275.D	ID18	CCV	CI5(96)	58395	



The Business of Innovation

Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 15-0039

METHOD: MF0782.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:
SF0782.S	F9118.D	ID13	CS	Cl6(161)	59889
SF0782.S	F9120.D	ID15	CS	Cl6(161)	54955
SF0782.S	F9121.D	ID16	CS	Cl6(161)	63025
SF0782.S	F9122.D	ID17	CS	Cl6(161)	65010
SF0782.S	F9123.D	ID18	CS	Cl6(161)	61271
SF0782.S	F9125.D	ID20	CS	Cl6(161)	66036

L3 63025

(+) 126050

(-) 31513

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SF0782.S	F9126.D	ID21 ICC	ICC	Cl6(161)	51654	
SF0782.S	F9220.D	ID17	CCV	Cl6(161)	49167	
SF0782.S	F9221.D	CE811PB-P(0)	PB	Cl6(161)	44146	
SF0782.S	F9222.D	CE812LCS-P(0)	LCS	Cl6(161)	46529	
SF0782.S	F9223.D	CE813LCSD-P(0)	LCSD	Cl6(161)	45684	
SF0782.S	F9225.D	L0064-P(2)	SA	Cl6(161)	43060	
SF0782.S	F9226.D	L0067-P(2)	SA	Cl6(161)	43734	
SF0782.S	F9227.D	L0075-P(2)	SA	Cl6(161)	40322	
SF0782.S	F9228.D	L0104-P(2)	SA	Cl6(161)	40574	
SF0782.S	F9230.D	ID18	CCV	Cl6(161)	54316	
SF0782.S	F9232.D	L0118-P(2)	SA	Cl6(161)	46619	
SF0782.S	F9233.D	L0126-P(2)	SA	Cl6(161)	41711	
SF0782.S	F9234.D	L0132-P(2)	SA	Cl6(161)	49112	
SF0782.S	F9236.D	L0139-P(2)	SA	Cl6(161)	46907	
SF0782.S	F9237.D	L0145-P(2)	SA	Cl6(161)	45569	
SF0782.S	F9238.D	L0145MS-P(0)	MS	Cl6(161)	49892	
SF0782.S	F9239.D	L0145MSD-P(0)	MSD	Cl6(161)	53383	
SF0782.S	F9240.D	ID17	CCV	Cl6(161)	64940	
SF0782.S	F9241.D	L0031-P-D(4)	SA	Cl6(161)	54051	
SF0782.S	F9242.D	L0031-P-D(5)	SA	Cl6(161)	55562	
SF0782.S	F9245.D	L0067-P-D(4)	SA	Cl6(161)	49581	
SF0782.S	F9247.D	L0075-P-D(4)	SA	Cl6(161)	59263	
SF0782.S	F9250.D	ID18	CCV	Cl6(161)	50347	
SF0782.S	F9252.D	L0109-P-D(4)	SA	Cl6(161)	45666	
SF0782.S	F9253.D	L0109-P-D(5)	SA	Cl6(161)	47285	
SF0782.S	F9254.D	L0117-P-D(4)	SA	Cl6(161)	46238	
SF0782.S	F9255.D	L0117-P-D(5)	SA	Cl6(161)	47033	
SF0782.S	F9256.D	L0118-P-D(4)	SA	Cl6(161)	44714	
SF0782.S	F9258.D	L0126-P-D(4)	SA	Cl6(161)	48291	
SF0782.S	F9259.D	L0126-P-D(5)	SA	Cl6(161)	47198	
SF0782.S	F9260.D	ID17	CCV	Cl6(161)	52777	
SF0782.S	F9261.D	L0132-P-D(4)	SA	Cl6(161)	49849	

Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 15-0039

METHOD: MF0782.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA: FLAG:
SF0782.S	F9263.D	L0138-P-D(4)	SA	Cl6(161)	47560
SF0782.S	F9265.D	L0139-P-D(4)	SA	Cl6(161)	47761
SF0782.S	F9267.D	L0145-P-D(4)	SA	Cl6(161)	46929
SF0782.S	F9269.D	ID18	CCV	Cl6(161)	54693
SF0783.S	F9272.D	ID17	CCV	Cl6(161)	42111
SF0783.S	F9273.D	L0104-P-D(4)	SA	Cl6(161)	50908
SF0783.S	F9274.D	L0104-P-D(5)	SA	Cl6(161)	49740
SF0783.S	F9275.D	ID18	CCV	Cl6(161)	45478

Data File : G:\F\DATA\SF0782\F9117.D

Vial: 2

Acq On : 11 Feb 2015 4:07 pm

Operator: RR/BL

Sample : HZ32

Inst : Inst. F

Misc : 5-315 DFTPP

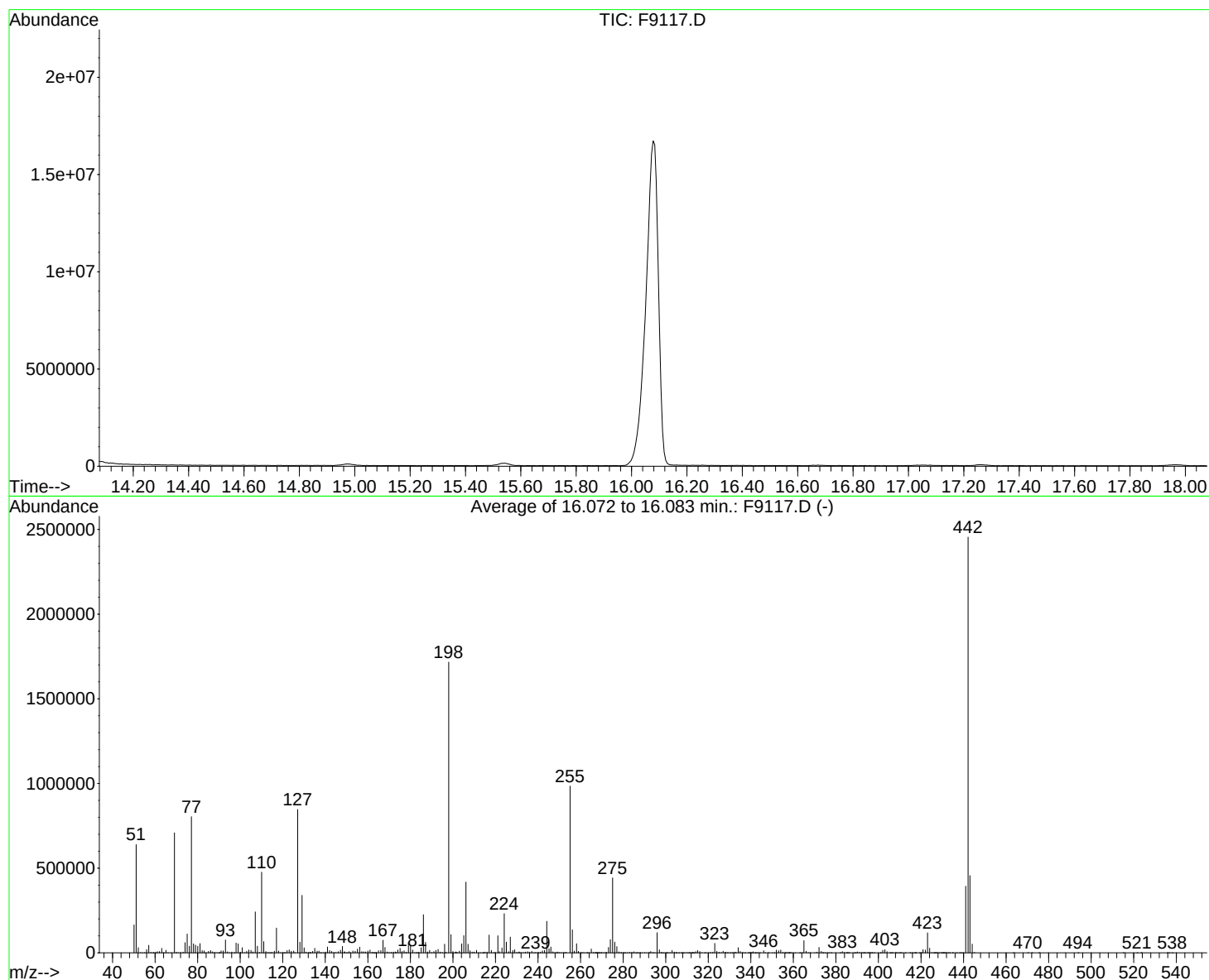
Multiplr: 1.00

MS Integration Params: rteint.p

Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Standard Mult: NA



AutoFind: Scans 1923, 1924, 1925; Background Corrected with Scan 1902

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.2	639220	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.3	2328	PASS
127	198	10	80	49.3	846535	PASS
197	198	0.00	2	0.2	4073	PASS
198	198	100	100	100.0	1716736	PASS
199	198	5	9	6.3	107709	PASS
275	198	10	60	25.8	442761	PASS
365	198	1	1000	4.2	72285	PASS
441	442	0.01	24	16.0	393282	PASS
442	198	50	1000	143.0	2454869	PASS
443	442	15	24	18.6	456384	PASS

Data File : G:\F\DATA\SF0783\F9271.D

Vial: 2

85 of 381

Acq On : 26 Feb 2015 4:35 pm

Operator: DMS

Sample : HZ32

Inst : Inst. F

Misc : 5-315 DFTPP

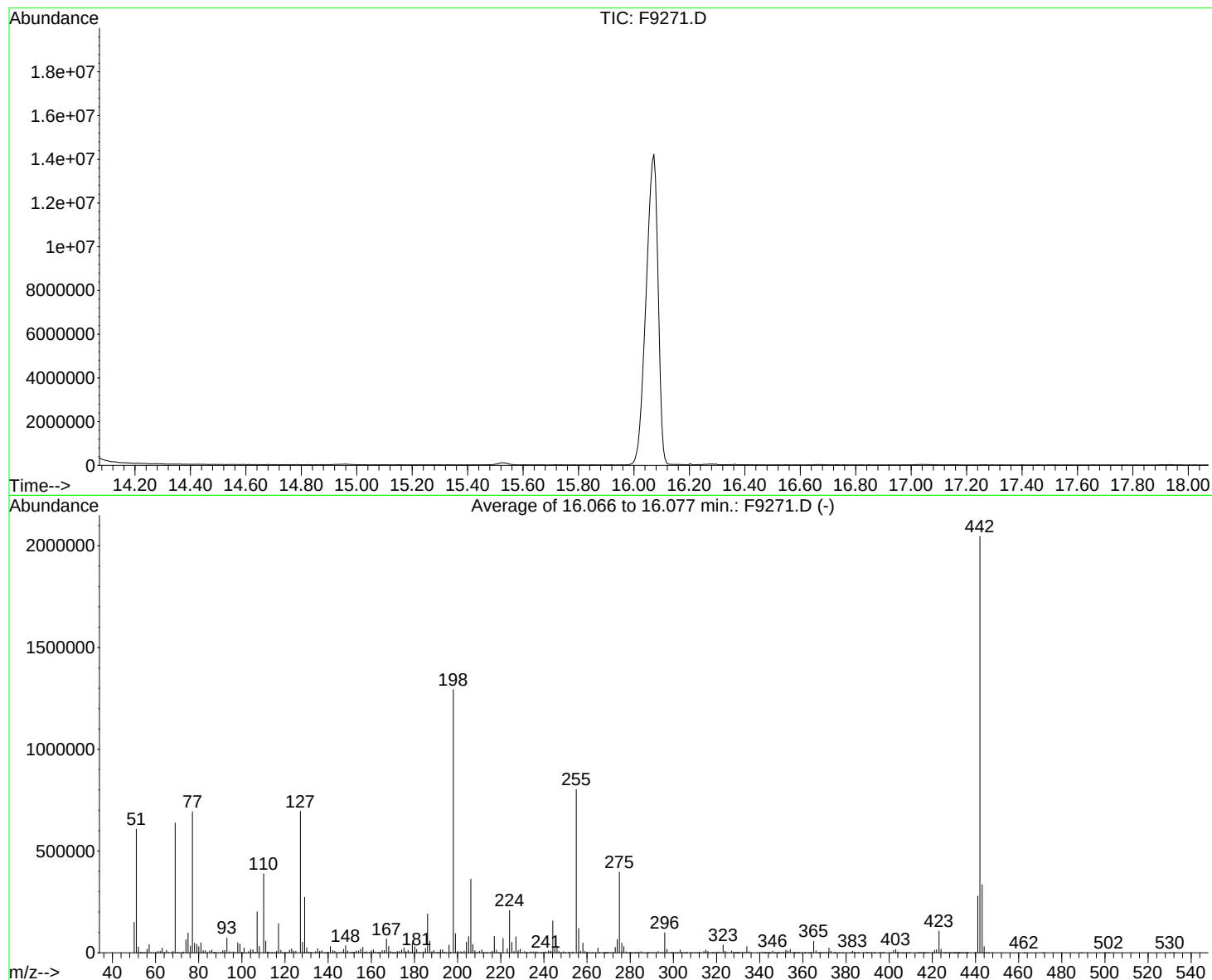
Multiplr: 1.00

MS Integration Params: rteint.p

Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Standard Mult: NA



AutoFind: Scans 1922, 1923, 1924; Background Corrected with Scan 1902

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.0	607978	PASS
68	69	0.00	2	1.1	7242	PASS
70	69	0.00	2	0.5	3441	PASS
127	198	10	80	53.8	695431	PASS
197	198	0.00	2	0.3	3436	PASS
198	198	100	100	100.0	1293482	PASS
199	198	5	9	7.3	93882	PASS
275	198	10	60	30.7	396629	PASS
365	198	1	1000	4.3	56264	PASS
441	442	0.01	24	13.6	278186	PASS
442	198	50	1000	158.2	2046293	PASS
443	442	15	24	16.4	334634	PASS

BATTELLE - DUXBURY OPERATIONS SAMPLE PREPARATION RECORDS

<u>Project Title(s)</u>	<u>Project No.(s)</u>
USACE/NAE New Bedford Harbor Task Order 10	100043429
15-0039	
USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores	
SEDIMENT	
SOP Numbers (see workplan for modifications)	
ExtractionSOP No.	5-192
CleanupSOP No.	5-327
CleanupSOP No.	5-328

This Batch Contains The Following Samples:		
CE811PB-P	L0075-P	L0132-P
CE812LCS-P	L0104-P	L0138-P
CE813LCSD-P	L0109-P	L0139-P
L0031-P	L0117-P	L0145-P
L0064-P	L0118-P	L0145MS-P
L0067-P	L0126-P	L0145MSD-P

Laboratory Preparation Records
COMPLETE AND VALIDATED

Prep Task Leader: Samuel Guimaraes

Approved By:	Date	Initials
Samuel Guimaraes	02/24/2015	SG

BATTELLE - DUXBURY OPERATIONS SAMPLE CUSTODY LOG

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
SEDIMENT**

Requested On/By:	02/05/2015 SG	Purpose:	Sample Preparation
Relinquished On/By:	02/05/2015 MDS	Last Activity:	Return
Accepted On/By:	02/05/2015 SG	Returned On/To:	02/05/2015 MDS
Stored In Facility:	Sample Preparation	Returned To Facility:	Custody: NA
Stored Until	02/05/2015	Returned Comment:	NA
Stored Comment:	NA		

No.	BDO-ID:	Ctrs	*	Condition:	Custody Comment:
1	L0031	1	--	Intact	NA
2	L0064	1	--	Intact	NA
3	L0067	1	--	Intact	NA
4	L0075	1	--	Intact	NA
5	L0104	1	--	Intact	NA
6	L0109	1	--	Intact	NA
7	L0117	1	--	Intact	NA
8	L0118	1	--	Intact	NA
9	L0126	1	--	Intact	NA
10	L0132	1	--	Intact	NA
11	L0138	1	--	Intact	NA
12	L0139	1	--	Intact	NA
13	L0145	1	--	Intact	NA
Total Samples		13	* "C" = Consumed Container		



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS SAMPLE IDENTIFICATION PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
SEDIMENT**

Sample ID	Description
CE811PB-P	Procedural Blank
CE812LCS-P	Laboratory Control Sample
CE813LCSD-P	Laboratory Control Sample Duplicate
L0031-P	S-14N-RN06-00-05
L0064-P	S-14N-PCC15-05-10
L0067-P	S-14N-PV5-05-10
L0075-P	S-14N-RBB22-05-10
L0104-P	S-14N-OI18-00-05
L0109-P	S-14N-OP10-00-05
L0117-P	S-14N-RM26-00-05
L0118-P	S-14N-RM26-00-05-REP
L0126-P	S-14N-LS03-00-05
L0132-P	S-14N-RCC14-00-05
L0138-P	S-14N-SO2-00-05
L0139-P	S-14N-SO9-00-05
L0145-P	S-14N-LBB16-00-05
L0145MS-P	Matrix Spike of S-14N-LBB16-00-05
L0145MSD-P	Matrix Spike Duplicate of S-14N-LBB16-00-05

Samples Assigned By:

Kayla Willis

Date : February 5, 2015

Comments:

BATTELLE - DUXBURY OPERATIONS ELECTRONIC DRY WEIGHT DETERMINATION

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores****SEDIMENT**

Sample ID:	Ctrs.	*	Tare Wt. (g)	Aliquot Wt. (g)	Dry Wt. (g)	Sample Wet Wt. (g)	% Dry Wt.	% Moisture	Sample Dry Wt. (g)
CE811PB-P	NA	--	NA	NA	NA	9.97	94.30	5.70	9.40
CE812LCS-P	NA	--	NA	NA	NA	9.98	94.30	5.70	9.41
CE813LCSD-P	NA	--	NA	NA	NA	9.96	94.30	5.70	9.39
L0031-P	1	--	1.09	4.98	4.26	1.07	81.49	18.51	0.87
L0064-P	1	--	1.11	5.09	5.09	5.05	100.00	0.00	5.05
L0067-P	1	--	1.11	4.94	4.90	5.00	98.96	1.04	4.95
L0075-P	1	--	1.11	4.91	4.86	1.96	98.68	1.32	1.93
L0104-P	1	--	1.11	5.07	4.83	1.00	93.94	6.06	0.94
L0109-P	1	--	1.09	4.92	4.84	0.97	97.91	2.09	0.95
L0117-P	1	--	1.11	4.93	4.63	1.02	92.15	7.85	0.94
L0118-P	1	--	1.10	4.91	4.58	0.96	91.34	8.66	0.88
L0126-P	1	--	1.10	5.07	4.77	1.09	92.44	7.56	1.01
L0132-P	1	--	1.09	4.94	4.69	1.07	93.51	6.49	1.00
L0138-P	1	--	1.11	4.94	4.67	0.99	92.95	7.05	0.92
L0139-P	1	--	1.11	4.98	4.69	0.96	92.51	7.49	0.89
L0145-P	1	--	1.11	4.99	4.99	9.97	100.00	0.00	9.97
L0145MS-P	1	--	1.11	5.04	5.03	5.05	99.75	0.25	5.04
L0145MSD-P	1	--	1.13	4.96	4.95	4.98	99.74	0.26	4.97

Validation of:	Performed:
Wet Wt.	02/24/15 SG

Sample ID:	Comments:	Reference:
CE811PB-P	Average of percent dry weights from authentic samples in Batch No. 15-0039 USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores	NA

Percent Dry Wt (%) = [(Sample Dry Wt. (g) - Tare Wt. (g))/(Aliquot Wet Wt. (g) - Tare Wt. (g))] * 100

Sample Dry Wt. (%) = [(Sample Wet Wt. (g) * (Percent Dry Wt./100)]

* "C" = Sample Container Is Consumed



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS ELECTRONIC DRY WEIGHT DETERMINATION

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
SEDIMENT**

Sample ID:	Ctrs.	*	Tare Wt. (g)	Aliquot Wt. (g)	Dry Wt. (g)	Sample Wet Wt. (g)	% Dry Wt.	% Moisture	Sample Dry Wt. (g)
CE812LCS-P	Average of percent dry weights from authentic samples in Batch No. 15-0039 USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores								NA
CE813LCSD-P	Average of percent dry weights from authentic samples in Batch No. 15-0039 USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores								NA

Percent Dry Wt (%) = [(Sample Dry Wt. (g) - Tare Wt. (g))/(Aliquot Wet Wt. (g) - Tare Wt. (g))] * 100

Sample Dry Wt. (%) = [(Sample Wet Wt. (g) * (Percent Dry Wt./100)]

* "C" = Sample Container Is Consumed



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS SURROGATE SPIKE FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores

SEDIMENT

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
CE811PB-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
CE812LCS-P	IE22	LCS/MS	1	75	02/06/15 SG	SAH	NA
CE812LCS-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
CE813LCSD-P	IE22	LCS/MS	1	75	02/06/15 SG	SAH	NA
CE813LCSD-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
L0031-P	IG96	SIS	1	2000	02/06/15 SG	SAH	NA
L0064-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
L0067-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
L0075-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
L0104-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
L0109-P	IG96	SIS	1	2000	02/06/15 SG	SAH	NA
L0117-P	IG96	SIS	1	2000	02/06/15 SG	SAH	NA
L0118-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
L0126-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
L0132-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
L0138-P	IG96	SIS	1	2000	02/06/15 SG	SAH	NA
L0139-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
L0145-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
L0145MS-P	IE22	LCS/MS	1	125	02/06/15 SG	SAH	NA
L0145MS-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA
L0145MSD-P	IE22	LCS/MS	1	125	02/06/15 SG	SAH	NA
L0145MSD-P	IG96	SIS	1	200	02/06/15 SG	SAH	NA



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS SURROGATE SPIKE FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores

SEDIMENT

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
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Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
IE22	Pipette	H0500262B
IG96	Pipette	H0500262B
IG96	Syringe	S-2500-005

BATTELLE - DUXBURY OPERATIONS SAMPLE EXTRACTION FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
SEDIMENT**

Sample ID	First Extraction	Second Extraction	Third Extraction	Turbo °C	Turbo PSI	KD °C	Comment
CE811PB-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
CE812LCS-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
CE813LCSD-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0031-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0064-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0067-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0075-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0104-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0109-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0117-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0118-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0126-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0132-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0138-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0139-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0145-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0145MS-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA
L0145MSD-P	02/06/15 SG	02/06/15 SG	02/06/15 EF	NA	NA	65	NA

Reagents:

Name	Expires	Lot No	Procedure	Comments
Sodium Sulfate	02/13/15	0000090410	Muffled at 400 °C for more than 4 hours	

Solvents:

Name	Lot No	Comments
DCM Cycletainer	0000098922	
Hexane	0000088997	Samples were solvent exchanged to hexane during concentration pre floris



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS EXTRACT CLEANUP FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
SEDIMENT**

Extract Id	Date	Init.	Comments
CE811PB-P(0)	02/11/15	SG	NA
CE812LCS-P(0)	02/11/15	SG	NA
CE813LCSD-P(0)	02/11/15	SG	NA
L0031-P(0)	02/11/15	SG	NA
L0064-P(0)	02/11/15	SG	NA
L0067-P(0)	02/11/15	SG	NA
L0075-P(0)	02/11/15	SG	NA
L0104-P(0)	02/11/15	SG	NA
L0109-P(0)	02/11/15	SG	NA
L0117-P(0)	02/11/15	SG	NA
L0118-P(0)	02/11/15	SG	NA
L0126-P(0)	02/11/15	SG	NA
L0132-P(0)	02/11/15	SG	NA
L0138-P(0)	02/11/15	SG	NA
L0139-P(0)	02/11/15	SG	NA
L0145-P(0)	02/11/15	SG	NA
L0145MS-P(0)	02/11/15	SG	NA
L0145MSD-P(0)	02/11/15	SG	NA

*The Business of Innovation***BATTELLE - DUXBURY OPERATIONS
EXTRACT CLEANUP FORM****Project Title(s)**

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
SEDIMENT**

Extract Id	Date	Init.	Comments
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Cleanup:

Copper Cleanup

Reagents:

Name	Expires	Lot No	Procedure
Copper	12/10/21	0000093799	NA
Activated Copper	02/11/15	0000093799	Activated according to Cleanup SOP (5-328)



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS COLUMN FRACTIONATION FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores

SEDIMENT

Extract Id	Date	Init.	Sample Specific Comments
CE811PB-P(0)	02/10/15	SG	NA
CE812LCS-P(0)	02/10/15	SG	NA
CE813LCSD-P(0)	02/10/15	SG	NA
L0031-P(0)	02/10/15	SG	NA
L0064-P(0)	02/10/15	SG	NA
L0067-P(0)	02/10/15	SG	NA
L0075-P(0)	02/10/15	SG	NA
L0104-P(0)	02/10/15	SG	NA
L0109-P(0)	02/10/15	SG	NA
L0117-P(0)	02/10/15	SG	NA
L0118-P(0)	02/10/15	SG	NA
L0126-P(0)	02/10/15	SG	NA
L0132-P(0)	02/10/15	SG	NA
L0138-P(0)	02/10/15	SG	NA
L0139-P(0)	02/10/15	SG	NA
L0145-P(0)	02/10/15	SG	NA
L0145MS-P(0)	02/10/15	SG	NA

BATTELLE - DUXBURY OPERATIONS COLUMN FRACTIONATION FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
SEDIMENT**

Extract Id	Date	Init.	Sample Specific Comments
L0145MSD-P(0)	02/10/15	SG	NA

Column Diameter: 13 mm **Procedure Comment:**
Elution Volume: 15 mL
Solvents

Name	Lot No
Hexane	0000088997

Reagents

Weight g	Name	Expires	Lot No	Procedure
1.00	Florisil	02/10/15	814088-1992624	Baked at 110 °C for more than 24 hours (SPE columns not baked)

Fractions



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores****SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
CE811PB-P	0	--	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
CE812LCS-P	0	--	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
CE813LCSD-P	0	--	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0031-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0031-P	2	--	2/11/2015 11:34:00 AM	L0031-P	0	1000	950	1.053	1.053	02/11/15 SG
L0031-P-D	3	C	2/11/2015 11:34:00 AM	L0031-P	0	1000	50	20.000	20.000	02/11/15 SG
L0031-P-D	4	--	2/11/2015 11:38:00 AM	L0031-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0031-P-D	5	--	2/11/2015 11:38:00 AM	L0031-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0064-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0064-P	2	--	2/11/2015 11:34:00 AM	L0064-P	0	1000	950	1.053	1.053	02/11/15 SG
L0064-P-D	3	C	2/11/2015 11:34:00 AM	L0064-P	0	1000	50	20.000	20.000	02/11/15 SG
L0064-P-D	4	--	2/11/2015 11:38:00 AM	L0064-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0064-P-D	5	--	2/11/2015 11:38:00 AM	L0064-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0067-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores****SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
L0067-P	2	--	2/11/2015 11:34:00 AM	L0067-P	0	1000	950	1.053	1.053	02/11/15 SG
L0067-P-D	3	C	2/11/2015 11:34:00 AM	L0067-P	0	1000	50	20.000	20.000	02/11/15 SG
L0067-P-D	4	--	2/11/2015 11:38:00 AM	L0067-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0067-P-D	5	--	2/11/2015 11:38:00 AM	L0067-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0075-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0075-P	2	--	2/11/2015 11:34:00 AM	L0075-P	0	1000	950	1.053	1.053	02/11/15 SG
L0075-P-D	3	C	2/11/2015 11:34:00 AM	L0075-P	0	1000	50	20.000	20.000	02/11/15 SG
L0075-P-D	4	--	2/11/2015 11:38:00 AM	L0075-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0075-P-D	5	--	2/11/2015 11:38:00 AM	L0075-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0104-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0104-P	2	--	2/11/2015 11:34:00 AM	L0104-P	0	1000	950	1.053	1.053	02/11/15 SG
L0104-P-D	3	C	2/11/2015 11:34:00 AM	L0104-P	0	1000	50	20.000	20.000	02/11/15 SG
L0104-P-D	4	--	2/11/2015 11:38:00 AM	L0104-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0104-P-D	5	--	2/11/2015 11:38:00 AM	L0104-P-D	3	1000	50	20.000	400.000	02/11/15 SG

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores****SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
L0109-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0109-P	2	--	2/11/2015 11:34:00 AM	L0109-P	0	1000	950	1.053	1.053	02/11/15 SG
L0109-P-D	3	C	2/11/2015 11:34:00 AM	L0109-P	0	1000	50	20.000	20.000	02/11/15 SG
L0109-P-D	4	--	2/11/2015 11:38:00 AM	L0109-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0109-P-D	5	--	2/11/2015 11:38:00 AM	L0109-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0117-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0117-P	2	--	2/11/2015 11:34:00 AM	L0117-P	0	1000	950	1.053	1.053	02/11/15 SG
L0117-P-D	3	C	2/11/2015 11:34:00 AM	L0117-P	0	1000	50	20.000	20.000	02/11/15 SG
L0117-P-D	4	--	2/11/2015 11:38:00 AM	L0117-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0117-P-D	5	--	2/11/2015 11:38:00 AM	L0117-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0118-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0118-P	2	--	2/11/2015 11:34:00 AM	L0118-P	0	1000	950	1.053	1.053	02/11/15 SG
L0118-P-D	3	C	2/11/2015 11:34:00 AM	L0118-P	0	1000	50	20.000	20.000	02/11/15 SG
L0118-P-D	4	--	2/11/2015 11:38:00 AM	L0118-P-D	3	1000	950	1.053	21.053	02/11/15 SG

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores****SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
L0118-P-D	5	--	2/11/2015 11:38:00 AM	L0118-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0126-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0126-P	2	--	2/11/2015 11:34:00 AM	L0126-P	0	1000	950	1.053	1.053	02/11/15 SG
L0126-P-D	3	C	2/11/2015 11:34:00 AM	L0126-P	0	1000	50	20.000	20.000	02/11/15 SG
L0126-P-D	4	--	2/11/2015 11:38:00 AM	L0126-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0126-P-D	5	--	2/11/2015 11:38:00 AM	L0126-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0132-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0132-P	2	--	2/11/2015 11:34:00 AM	L0132-P	0	1000	950	1.053	1.053	02/11/15 SG
L0132-P-D	3	C	2/11/2015 11:34:00 AM	L0132-P	0	1000	50	20.000	20.000	02/11/15 SG
L0132-P-D	4	--	2/11/2015 11:38:00 AM	L0132-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0132-P-D	5	--	2/11/2015 11:38:00 AM	L0132-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0138-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0138-P	2	--	2/11/2015 11:34:00 AM	L0138-P	0	1000	950	1.053	1.053	02/11/15 SG
L0138-P-D	3	C	2/11/2015 11:34:00 AM	L0138-P	0	1000	50	20.000	20.000	02/11/15 SG

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores****SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
L0138-P-D	4	--	2/11/2015 11:38:00 AM	L0138-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0138-P-D	5	--	2/11/2015 11:38:00 AM	L0138-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0139-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0139-P	2	--	2/11/2015 11:34:00 AM	L0139-P	0	1000	950	1.053	1.053	02/11/15 SG
L0139-P-D	3	C	2/11/2015 11:34:00 AM	L0139-P	0	1000	50	20.000	20.000	02/11/15 SG
L0139-P-D	4	--	2/11/2015 11:38:00 AM	L0139-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0139-P-D	5	--	2/11/2015 11:38:00 AM	L0139-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0145-P	0	C	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0145-P	2	--	2/11/2015 11:34:00 AM	L0145-P	0	1000	950	1.053	1.053	02/11/15 SG
L0145-P-D	3	C	2/11/2015 11:34:00 AM	L0145-P	0	1000	50	20.000	20.000	02/11/15 SG
L0145-P-D	4	--	2/11/2015 11:38:00 AM	L0145-P-D	3	1000	950	1.053	21.053	02/11/15 SG
L0145-P-D	5	--	2/11/2015 11:38:00 AM	L0145-P-D	3	1000	50	20.000	400.000	02/11/15 SG
L0145MS-P	0	--	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG
L0145MSD-P	0	--	2/6/2015 11:18:00 AM	NA		NA	NA	1.000	1.000	02/06/15 SG

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores****SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores

SEDIMENT

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	With'd By
CE811PB-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
CE812LCS-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
CE813LCSD-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0031-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0031-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0031-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0064-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0064-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0064-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0067-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0067-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0067-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0075-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0075-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0075-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0104-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0104-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0104-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0109-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores

SEDIMENT

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution*	Date Spiked/ Spiked By	With'd By
L0109-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0109-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0117-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0117-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0117-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0118-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0118-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0118-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0126-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0126-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0126-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0132-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0132-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0132-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0138-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0138-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0138-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0139-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0139-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores

SEDIMENT

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm . (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	Witn'd By
L0139-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0145-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0145-P-D(3)	905	95	IF44	100	2	1000	20.000	02/11/15 SG	DMS
L0145-P-D(5)	905	95	IF44	100	2	1000	400.000	02/11/15 SG	DMS
L0145MS-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS
L0145MSD-P(0)	900	100	IF44	100	2	1000	1.000	02/11/15 SG	DMS

Syringes/Pipettes Used:

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.

BATTELLE - DUXBURY OPERATIONS SAMPLE SPECIFIC COMMENTS

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores****SEDIMENT**

Sample ID:	Comment:	Date/Initials:
CE811PB-P	NA	NA
CE812LCS-P	NA	NA
CE813LCSD-P	NA	NA
L0031-P	Sample was inadvertantly not split before columns.	02/11/15 SG
L0064-P	NA	NA
L0067-P	NA	NA
L0075-P	NA	NA
L0104-P	NA	NA
L0109-P	Sample was inadvertantly not split before columns.	02/11/15 SG
L0117-P	Sample was inadvertantly not split before columns.	02/11/15 SG
L0118-P	NA	NA
L0126-P	NA	NA
L0132-P	NA	NA
L0138-P	Sample was inadvertantly not split before columns.	02/11/15 SG
L0139-P	NA	NA
L0145-P	NA	NA
L0145MS-P	NA	NA
L0145MSD-P	When putting sample through florisil column, sample was loaded onto column before 40 mL vials were placed under columns. Therefore, the sample dripped into waste. As first elution was added, this mistake was noticed, and the columns were stopped and 40 mL vials were added under the columns. Per order of project manager, the sample will continue through prep to analysis.	02/10/15 KAW

BATTELLE - DUXBURY OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores SEDIMENT

Purpose: GC/MSD TRANSFER				Last Activity: Prep->Inst	
Relinquished On/By: Feb 11 2015 1:58PM SG				Received On/By: Feb 11 2015 5:01PM DMS	
Relinquished From: Sample Preparation: NA				Received Location: GC Laboratory: NA	
Relinquish Comment: NA				Received Comment: NA	
No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	CE811PB-P(0)	1000	1	Intact	NA
2	CE812LCS-P(0)	1000	1	Intact	NA
3	CE813LCSD-P(0)	1000	1	Intact	NA
4	L0031-P(2)	1000	1.053	Intact	NA
5	L0031-P-D(4)	1000	21.053	Intact	NA
6	L0031-P-D(5)	1000	400	Intact	NA
7	L0064-P(2)	1000	1.053	Intact	NA
8	L0064-P-D(4)	1000	21.053	Intact	NA
9	L0064-P-D(5)	1000	400	Intact	NA
10	L0067-P(2)	1000	1.053	Intact	NA
11	L0067-P-D(4)	1000	21.053	Intact	NA
12	L0067-P-D(5)	1000	400	Intact	NA
13	L0075-P(2)	1000	1.053	Intact	NA
14	L0075-P-D(4)	1000	21.053	Intact	NA
15	L0075-P-D(5)	1000	400	Intact	NA
16	L0104-P(2)	1000	1.053	Intact	NA
17	L0104-P-D(4)	1000	21.053	Intact	NA
18	L0104-P-D(5)	1000	400	Intact	NA
19	L0109-P(2)	1000	1.053	Intact	NA
20	L0109-P-D(4)	1000	21.053	Intact	NA
21	L0109-P-D(5)	1000	400	Intact	NA
22	L0117-P(2)	1000	1.053	Intact	NA
23	L0117-P-D(4)	1000	21.053	Intact	NA
24	L0117-P-D(5)	1000	400	Intact	NA
25	L0118-P(2)	1000	1.053	Intact	NA
26	L0118-P-D(4)	1000	21.053	Intact	NA
27	L0118-P-D(5)	1000	400	Intact	NA
28	L0126-P(2)	1000	1.053	Intact	NA



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039

USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores SEDIMENT

29	L0126-P-D(4)	1000	21.053	Intact	NA
30	L0126-P-D(5)	1000	400	Intact	NA
31	L0132-P(2)	1000	1.053	Intact	NA
32	L0132-P-D(4)	1000	21.053	Intact	NA
33	L0132-P-D(5)	1000	400	Intact	NA
34	L0138-P(2)	1000	1.053	Intact	NA
35	L0138-P-D(4)	1000	21.053	Intact	NA
36	L0138-P-D(5)	1000	400	Intact	NA
37	L0139-P(2)	1000	1.053	Intact	NA
38	L0139-P-D(4)	1000	21.053	Intact	NA
39	L0139-P-D(5)	1000	400	Intact	NA
40	L0145-P(2)	1000	1.053	Intact	NA
41	L0145-P-D(4)	1000	21.053	Intact	NA
42	L0145-P-D(5)	1000	400	Intact	NA
43	L0145MS-P(0)	1000	1	Intact	NA
44	L0145MSD-P(0)	1000	1	Intact	NA

Total Extracts: 44

**BATTELLE - DUXBURY OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM****Project Title(s)**

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0039**USACE-NAE New Bedford Harbor Upper Harbor Post Dredge Cores
SEDIMENT**

Entered By:

Samuel Guimaraes

On: 02/10/2015

Due to heavy particulate matter, samples were poured through a funnel with glass wool and sodium sulfate to prevent interference during concentration and florisil clean-up.

Task Leader Approval:

Samuel Guimaraes

On: 02/10/2015**Supervisor Approval:**

Denise Schumitz

On: 02/18/2015**PM Approval:**

Carole Peven-McCarthy

On: 02/24/2015

Directory G:\F\DATA\SF0782\

Lin	BTL	File	Sample Id	Miscellaneous	Injected

1	1	F9115.D	ID20	WINDOW SETTING	2-11-2015 11:42 AM
2	1	F9116.D	ID20	WINDOW SETTING	2-11-2015 3:20 PM
3	2	F9117.D	HZ32	5-315 DFTPP	2-11-2015 4:07 PM
4	3	F9118.D	ID13	5-315 ICAL	2-11-2015 4:55 PM
5	4	F9119.D	ID14 (1)	5-315 ICAL	2-11-2015 5:43 PM
6	5	F9120.D	ID15	5-315 ICAL	2-11-2015 6:31 PM
7	6	F9121.D	ID16	5-315 ICAL	2-11-2015 7:19 PM
8	7	F9122.D	ID17	5-315 ICAL	2-11-2015 8:07 PM
9	8	F9123.D	ID18	5-315 ICAL	2-11-2015 8:55 PM
10	9	F9124.D	ID19 (1)	5-315 ICAL	2-11-2015 9:42 PM
11	10	F9125.D	ID20	5-315 ICAL	2-11-2015 10:30 PM
12	11	F9126.D	ID21 ICC	5-315 ICC	2-11-2015 11:18 PM
13	12	F9127.D	CE665PB-P(0)	5-315 15-0024	2-12-2015 12:06 AM
14	13	F9128.D	CE666LCS-P(0)	5-315 15-0024	2-12-2015 12:54 AM
15	14	F9129.D	CE667LCSD-P(0)	5-315 15-0024	2-12-2015 1:41 AM
16	15	F9130.D	L0009-P(2)	5-315 15-0024	2-12-2015 2:29 AM
17	16	F9131.D	L0013-P(2)	5-315 15-0024	2-12-2015 3:17 AM
18	17	F9132.D	L0014-P(2)	5-315 15-0024	2-12-2015 4:05 AM
19	18	F9133.D	L0019-P(2)	5-315 15-0024	2-12-2015 4:53 AM
20	19	F9134.D	L0027-P(2)	5-315 15-0024	2-12-2015 5:41 AM
21	20	F9135.D	HEXANE		2-12-2015 6:28 AM
22	21	F9136.D	ID16 mid	5-315 CCV	2-12-2015 7:16 AM
23	22	F9137.D	M9402-P(2)	5-315 15-0024	2-12-2015 8:04 AM
24	23	F9138.D	M9572-P(2)	5-315 15-0024	2-12-2015 8:52 AM
25	24	F9139.D	M9572MS-P(0)	5-315 15-0024	2-12-2015 9:40 AM
26	25	F9140.D	M9572MSD-P(0)	5-315 15-0024	2-12-2015 10:28 AM
27	26	F9141.D	M9601-P(2)	5-315 15-0024	2-12-2015 11:15 AM
28	27	F9142.D	M9603-P(2)	5-315 15-0024	2-12-2015 12:03 PM
29	28	F9143.D	M9851-P(2)	5-315 15-0024	2-12-2015 12:51 PM
30	29	F9144.D	M9855-P(2)	5-315 15-0024	2-12-2015 1:39 PM
31	30	F9145.D	HEXANE		2-12-2015 2:27 PM
32	31	F9146.D	ID16 mid	5-315 CCV	2-12-2015 3:15 PM
33	32	F9147.D	M9997-P(2)	5-315 15-0024	2-12-2015 4:03 PM
34	33	F9148.D	L0016-P(2)	5-315 15-0024	2-12-2015 4:51 PM
35	34	F9149.D	L0028-P(2)	5-315 15-0024	2-12-2015 5:39 PM
36	35	F9150.D	M9844-P(2)	5-315 15-0024	2-12-2015 6:27 PM
37	36	F9151.D	M9846-P(2)	5-315 15-0024	2-12-2015 7:15 PM
38	37	F9152.D	M9994-P(2)	5-315 15-0024	2-12-2015 8:02 PM
39	38	F9153.D	HEXANE		2-12-2015 8:50 PM
40	39	F9154.D	ID17 mid	5-315 CCV	2-12-2015 9:38 PM
41	1	F9155.D	HZ32	5-315 DFTPP	2-16-2015 4:28 PM
42	2	F9156.D	ID17 mid	5-315 CCV	2-16-2015 5:16 PM
43	3	F9157.D	M9404-P-D(4)	5-315 15-0023	2-16-2015 6:04 PM
44	4	F9158.D	M9410-P-D(4)	5-315 15-0023	2-16-2015 6:52 PM
45	5	F9159.D	M9420-P-D(4)	5-315 15-0023	2-16-2015 7:40 PM
46	6	F9160.D	M9431-P-D(4)	5-315 15-0023	2-16-2015 8:27 PM
47	7	F9161.D	M9434-P-D(4)	5-315 15-0023	2-16-2015 9:15 PM
48	8	F9162.D	M9437-P-D(4)	5-315 15-0023	2-16-2015 10:03 PM
49	9	F9163.D	M9452-P-D(4)	5-315 15-0023	2-16-2015 10:51 PM
50	10	F9164.D	M9459-P-D(4)	5-315 15-0023	2-16-2015 11:38 PM
51	11	F9165.D	ID18 mid	5-315 CCV	2-17-2015 12:26 AM
52	12	F9166.D	M9462-P-D(4)	5-315 15-0023	2-17-2015 1:14 AM
53	13	F9167.D	M9462-P-D(5)	5-315 15-0023	2-17-2015 2:02 AM
54	14	F9168.D	M9491-P-D(4)	5-315 15-0023	2-17-2015 2:49 AM
55	15	F9169.D	M9491-P-D(5)	5-315 15-0023	2-17-2015 3:37 AM
56	16	F9170.D	M9501-P-D(4)	5-315 15-0023	2-17-2015 4:25 AM
57	17	F9171.D	M9501-P-D(5)	5-315 15-0023	2-17-2015 5:13 AM
58	18	F9172.D	M9524-P-D(4)	5-315 15-0023	2-17-2015 6:01 AM
59	19	F9173.D	M9546-P-D(4)	5-315 15-0023	2-17-2015 6:48 AM
60	20	F9174.D	ID18 mid	5-315 CCV	2-17-2015 7:36 AM
61	21	F9175.D	M9548-P-D(4)	5-315 15-0023	2-17-2015 8:24 AM

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Lin	BTL	File	Sample Id	Miscellaneous	Injected
62	22	F9176.D	M9560-P-D(4)	5-315 15-0023	2-17-2015 9:12 AM
63	23	F9177.D	M9575-P-D(4)	5-315 15-0023	2-17-2015 10:00 AM
64	24	F9178.D	M9593-P-D(4)	5-315 15-0023	2-17-2015 10:48 AM
65	25	F9179.D	M9598-P-D(4)	5-315 15-0023	2-17-2015 11:36 AM
66	26	F9180.D	ID18 mid	5-315 CCV	2-17-2015 12:23 PM
67	1	F9181.D	HZ32	5-315 DFTPP	2-18-2015 11:11 AM
68	2	F9182.D	ID17 mid	5-315 CCV	2-18-2015 11:59 AM
69	3	F9183.D	L0009-P-D(4)	5-315 15-0024	2-18-2015 12:47 PM
70	4	F9184.D	L0013-P-D(4)	5-315 15-0024	2-18-2015 1:35 PM
71	5	F9185.D	L0014-P-D(4)	5-315 15-0024	2-18-2015 2:23 PM
72	6	F9186.D	L0016-P-D(4)	5-315 15-0024	2-18-2015 3:11 PM
73	7	F9187.D	L0019-P-D(4)	5-315 15-0024	2-18-2015 3:59 PM
74	8	F9188.D	L0027-P-D(4)	5-315 15-0024	2-18-2015 4:47 PM
75	9	F9189.D	L0028-P-D(4)	5-315 15-0024	2-18-2015 5:35 PM
76	10	F9190.D	L0009-P-D(5)	5-315 15-0024	2-18-2015 6:22 PM
77	11	F9191.D	L0013-P-D(5)	5-315 15-0024	2-18-2015 7:10 PM
78	12	F9192.D	ID18 mid	5-315 CCV	2-18-2015 7:58 PM
79	13	F9193.D	L0014-P-D(5)	5-315 15-0024	2-18-2015 8:46 PM
80	14	F9194.D	L0016-P-D(5)	5-315 15-0024	2-18-2015 9:34 PM
81	15	F9195.D	L0019-P-D(5)	5-315 15-0024	2-18-2015 10:22 PM
82	16	F9196.D	L0027-P-D(5)	5-315 15-0024	2-18-2015 11:10 PM
83	17	F9197.D	L0028-P-D(5)	5-315 15-0024	2-18-2015 11:58 PM
84	18	F9198.D	M9402-P-D(4)	5-315 15-0024	2-19-2015 12:46 AM
85	19	F9199.D	M9572-P-D(4)	5-315 15-0024	2-19-2015 1:34 AM
86	20	F9200.D	M9601-P-D(4)	5-315 15-0024	2-19-2015 2:21 AM
87	21	F9201.D	M9603-P-D(4)	5-315 15-0024	2-19-2015 3:09 AM
88	22	F9202.D	ID17 mid	5-315 CCV	2-19-2015 3:57 AM
89	23	F9203.D	M9844-P-D(4)	5-315 15-0024	2-19-2015 4:45 AM
90	24	F9204.D	M9846-P-D(4)	5-315 15-0024	2-19-2015 5:33 AM
91	25	F9205.D	M9851-P-D(4)	5-315 15-0024	2-19-2015 6:21 AM
92	26	F9206.D	M9855-P-D(4)	5-315 15-0024	2-19-2015 7:09 AM
93	27	F9207.D	M9402-P-D(5)	5-315 15-0024	2-19-2015 7:56 AM
94	28	F9208.D	M9572-P-D(5)	5-315 15-0024	2-19-2015 8:44 AM
95	29	F9209.D	M9601-P-D(5)	5-315 15-0024	2-19-2015 9:32 AM
96	30	F9210.D	M9603-P-D(5)	5-315 15-0024	2-19-2015 10:20 AM
97	31	F9211.D	M9844-P-D(5)	5-315 15-0024	2-19-2015 11:08 AM
98	32	F9212.D	ID18 mid	5-315 CCV	2-19-2015 11:56 AM
99	33	F9213.D	M9846-P-D(5)	5-315 15-0024	2-19-2015 12:44 PM
100	34	F9214.D	M9851-P-D(5)	5-315 15-0024	2-19-2015 1:32 PM
101	35	F9215.D	M9855-P-D(5)	5-315 15-0024	2-19-2015 2:20 PM
102	36	F9216.D	M9994-P-D(4)	5-315 15-0024	2-19-2015 3:08 PM
103	37	F9217.D	M9997-P-D(4)	5-315 15-0024	2-19-2015 3:56 PM
104	38	F9218.D	M9994-P-D(5)	5-315 15-0024	2-19-2015 4:44 PM
105	39	F9219.D	M9997-P-D(5)	5-315 15-0024	2-19-2015 5:31 PM
106	40	F9220.D	ID17 mid	5-315 CCV	2-19-2015 6:19 PM
107	41	F9221.D	CE811PB-P(0)	5-315 15-0039	2-19-2015 7:07 PM
108	42	F9222.D	CE812LCS-P(0)	5-315 15-0039	2-19-2015 7:55 PM
109	43	F9223.D	CE813LCS-D-P(0)	5-315 15-0039	2-19-2015 8:43 PM
110	44	F9224.D	L0031-P(2) (2)	5-315 15-0039	2-19-2015 9:31 PM
111	45	F9225.D	L0064-P(2)	5-315 15-0039	2-19-2015 10:19 PM
112	46	F9226.D	L0067-P(2)	5-315 15-0039	2-19-2015 11:07 PM
113	47	F9227.D	L0075-P(2)	5-315 15-0039	2-19-2015 11:54 PM
114	48	F9228.D	L0104-P(2)	5-315 15-0039	2-20-2015 12:42 AM
115	49	F9229.D	L0109-P(2) (2)	5-315 15-0039	2-20-2015 1:30 AM
116	50	F9230.D	ID18 MID	5-315 CCV	2-20-2015 2:18 AM
117	51	F9231.D	L0117-P(2) (2)	5-315 15-0039	2-20-2015 3:06 AM
118	52	F9232.D	L0118-P(2)	5-315 15-0039	2-20-2015 3:54 AM
119	53	F9233.D	L0126-P(2)	5-315 15-0039	2-20-2015 4:41 AM
120	54	F9234.D	L0132-P(2)	5-315 15-0039	2-20-2015 5:29 AM
121	55	F9235.D	L0138-P(2) (2)	5-315 15-0039	2-20-2015 6:17 AM

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Lin	BTL	File	Sample Id	Miscellaneous	Injected
122	56	F9236.D	L0139-P(2)	5-315 15-0039	2-20-2015 7:05 AM
123	57	F9237.D	L0145-P(2)	5-315 15-0039	2-20-2015 7:53 AM
124	58	F9238.D	L0145MS-P(0)	5-315 15-0039	2-20-2015 8:40 AM
125	59	F9239.D	L0145MSD-P(0)	5-315 15-0039	2-20-2015 9:28 AM
126	60	F9240.D	ID17 MID	5-315 CCV	2-20-2015 10:16 AM
127	61	F9241.D	L0031-P-D(4)	5-315 15-0039	2-20-2015 11:04 AM
128	62	F9242.D	L0031-P-D(5)	5-315 15-0039	2-20-2015 11:52 AM
129	63	F9243.D	L0064-P-D(4)	5-315 15-0039	2-20-2015 12:40 PM
130	64	F9244.D	L0064-P-D(5)	5-315 15-0039	2-20-2015 1:27 PM
131	65	F9245.D	L0067-P-D(4)	5-315 15-0039	2-20-2015 2:15 PM
132	66	F9246.D	L0067-P-D(5)	5-315 15-0039	2-20-2015 3:03 PM
133	67	F9247.D	L0075-P-D(4)	5-315 15-0039	2-20-2015 3:51 PM
134	68	F9248.D	L0075-P-D(5)	5-315 15-0039	2-20-2015 4:39 PM
135	69	F9249.D	L0104-P-D(4)	5-315 15-0039	2-20-2015 5:27 PM
136	70	F9250.D	ID18MID	5-315 CCV	2-20-2015 6:15 PM
137	71	F9251.D	L0104-P-D(5)	5-315 15-0039	2-20-2015 7:03 PM
138	72	F9252.D	L0109-P-D(4)	5-315 15-0039	2-20-2015 7:50 PM
139	73	F9253.D	L0109-P-D(5)	5-315 15-0039	2-20-2015 8:38 PM
140	74	F9254.D	L0117-P-D(4)	5-315 15-0039	2-20-2015 9:26 PM
141	75	F9255.D	L0117-P-D(5)	5-315 15-0039	2-20-2015 10:14 PM
142	76	F9256.D	L0118-P-D(4)	5-315 15-0039	2-20-2015 11:02 PM
143	77	F9257.D	L0118-P-D(5)	5-315 15-0039	2-20-2015 11:49 PM
144	78	F9258.D	L0126-P-D(4)	5-315 15-0039	2-21-2015 12:37 AM
145	79	F9259.D	L0126-P-D(5)	5-315 15-0039	2-21-2015 1:25 AM
146	80	F9260.D	ID17MID	5-315 CCV	2-21-2015 2:13 AM
147	81	F9261.D	L0132-P-D(4)	5-315 15-0039	2-21-2015 3:00 AM
148	82	F9262.D	L0132-P-D(5)	5-315 15-0039	2-21-2015 3:48 AM
149	83	F9263.D	L0138-P-D(4)	5-315 15-0039	2-21-2015 4:36 AM
150	84	F9264.D	L0138-P-D(5)	5-315 15-0039	2-21-2015 5:24 AM
151	85	F9265.D	L0139-P-D(4)	5-315 15-0039	2-21-2015 6:11 AM
152	86	F9266.D	L0139-P-D(5)	5-315 15-0039	2-21-2015 6:59 AM
153	87	F9267.D	L0145-P-D(4)	5-315 15-0039	2-21-2015 7:47 AM
154	88	F9268.D	L0145-P-D(5)	5-315 15-0039	2-21-2015 8:35 AM
155	89	F9269.D	ID18MID	5-315 CCV	2-21-2015 9:23 AM

- (1) Second and second to last levels omitted from calibration to allow for higher calibration range while retaining six levels for quadratic calibration. DMS 3/2/2015
- (2) Samples were spiked with surrogate 10x higher than the rest of the samples, only the dilutions are being run. See Misc Doc for more information. DMS 3/2/2015
- (3) Dilutions made but not needed. DMS 3/2/2015
- (4) Sample did not inject properly on the instrument and had to be reinjected in sequence SF0783. DMS 3/2/2015

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Lin	BTL	File	Sample Id	Miscellaneous	Injected
1	1	F9270.D	HEXANE	5-315 SOLVENT	2-26-2015 3:48 PM
2	2	F9271.D	HZ32	5-315 DFTPP	2-26-2015 4:35 PM
3	3	F9272.D	ID17MID	5-315 CCV	2-26-2015 5:23 PM
4	4	F9273.D	L0104-P-D(4)	5-315 15-0039	2-26-2015 6:11 PM
5	5	F9274.D	L0104-P-D(5)	5-315 15-0039	2-26-2015 6:59 PM
6	6	F9275.D	ID18MID	5-315 CCV	2-26-2015 7:47 PM

Calibration Response Factor Report

Batch: 15-0039 Project Test Code: Master 315(S) Rfs Validate 3/4/2015 EF
 Data Set: DP-15-0044 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0782.M Responses Via Initial Calibration Last Updated 2/16/2015 9:24:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: RR/BL Path: G:\F\DATA\MF0782.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9118.D	2 ID15 F9120.D	3 ID16 F9121.D	4 ID17 F9122.D	5 ID18 F9123.D	6 ID20 F9125.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
1	CI5(96)	i	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Biphenyl		1	-	3.71153	3.43548	3.31010	3.06254	3.29025	3.14887	-	-	6 Q	-0.03913	3.27491	-0.00133	0.99989	
3	CI1(1)	P1	1	Y	2.48464	2.51136	2.41071	2.33124	2.41899	2.38177	-	-	6 Q	-0.00808	2.40796	-0.00053	0.99997	
4	CI1(3)	P1	1	Y	2.28068	2.35587	2.28616	2.23627	2.34116	2.30041	-	-	6 Q	-0.01132	2.33940	-0.00825	0.99996	
5	CI2(4)	P2	1	Y	1.20533	1.14605	1.16762	1.13831	1.17295	1.15870	-	-	6 Q	-0.00411	1.17278	-0.00265	0.99998	
6	CI2(7)		1	Y	1.66736	1.63349	1.68317	1.59410	1.71905	1.64501	-	-	6 Q	-0.02537	1.73071	-0.01281	0.99990	
7	CI2(9)		1	Y	2.00141	2.00408	1.98508	1.96467	2.06428	2.07725	-	-	6 Q	0.00909	2.05159	-0.01043	0.99997	
8	CI2(6)		1	Y	1.87538	1.88978	1.84708	1.79782	1.91276	1.87006	-	-	6 Q	-0.01214	1.91244	-0.01045	0.99994	
9	CI2(5)		1	Y	1.85132	1.78818	1.76166	1.69069	1.77101	1.78243	-	-	6 Q	0.01047	1.74947	-0.00135	0.99997	
10	CI2(8)		1	Y	2.10548	2.01929	1.97000	1.91899	2.03050	1.97879	-	-	6 Q	-0.01506	2.02995	-0.00860	0.99994	
11	CI3(19)	P3	1	Y	0.78498	0.75691	0.75620	0.74880	0.78310	0.77664	-	-	6 Q	-0.00136	0.78226	-0.00388	0.99997	
12	CI3(30)		1	Y	1.18453	1.20938	1.18748	1.15762	1.23259	1.21896	-	-	6 Q	-0.00234	1.22878	-0.00704	0.99994	
13	CI2(11)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	CI2(11)		1	Y	1.68038	1.76748	1.73610	1.68479	1.77858	1.76472	-	-	6 Q	-0.00137	1.77165	-0.00769	0.99996	
15	CI3(18)		1	Y	0.84748	0.84977	0.85053	0.83553	0.89906	0.88593	-	-	6 Q	-0.00336	0.89928	-0.00787	0.99992	
16	CI3(17)		1	Y	0.90739	0.83940	0.86223	0.85245	0.89632	0.87978	-	-	6 Q	-0.00552	0.89948	-0.00605	0.99996	
17	CI2(12)		1	Y	1.86753	1.70320	1.69052	1.61522	1.74851	1.74167	-	-	6 Q	0.00468	1.72954	-0.00845	0.99991	
18	CI2(13)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	CI2(13)		1	Y	1.61579	1.57341	1.62174	1.55873	1.69243	1.64031	-	-	6 Q	-0.01692	1.69982	-0.01586	0.99990	
20	CI3(27)		1	Y	1.20806	1.20239	1.19178	1.16673	1.26161	1.22035	-	-	6 Q	-0.01361	1.26767	-0.01147	0.99990	
21	CI3(24)		1	Y	1.17512	1.16806	1.16280	1.13002	1.18522	1.16523	-	-	6 Q	-0.00555	1.18460	-0.00465	0.99996	
22	CI3(16)		1	Y	0.70841	0.69155	0.65922	0.62844	0.68899	0.67523	-	-	6 Q	-0.00217	0.68352	-0.00393	0.99987	
23	CI2(15)	P2	1	Y	1.95698	1.84014	1.82022	1.83068	1.91852	1.91079	-	-	6 Q	-0.00013	1.91490	-0.01136	0.99997	
24	CI3(32)		1	Y	1.15734	1.21394	1.20130	1.18348	1.23226	1.22632	-	-	6 Q	-0.00068	1.23019	-0.00518	0.99998	
25	CI4(54)	P4	1	Y	1.36421	1.21748	1.20674	1.15689	1.20722	1.15265	-	-	6 Q	-0.01831	1.21203	-0.00147	0.99996	
26	CI3(34)-S1	S	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	CI3(34)	S	1	Y	1.26088	1.15961	1.16801	1.14800	1.19691	1.19518	-	-	6 Q	0.00172	1.19103	-0.00405	0.99997	
28	CI3(29)		1	Y	1.22428	1.19079	1.14353	1.12510	1.20957	1.20293	-	-	6 Q	0.00141	1.20086	-0.00739	0.99992	
29	CI3(26)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	CI3(26)		1	Y	1.32103	1.29435	1.26290	1.24845	1.31500	1.30893	-	-	6 Q	0.00062	1.30897	-0.00614	0.99996	

Calibration Response Factor Report

Batch: 15-0039 Project Test Code: Master 315(S)
 Data Set: DP-15-0044 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0782.M Responses Via Initial Calibration Last Updated 2/16/2015 9:24:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: RR/BL Path: G:\FIDATA\MF0782.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9118.D	2 ID15 F9120.D	3 ID16 F9121.D	4 ID17 F9122.D	5 ID18 F9123.D	6 ID20 F9125.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
31	Cl4(50)	1	Y		0.83811	0.80687	0.80842	0.81777	0.85732	0.84914	-	-	6 Q	-0.00259	0.85956	-0.00654	0.99996	
32	Cl3(25)	1	Y		1.20545	1.21665	1.20989	1.19335	1.21829	1.24345	-	-	6 Q	0.01181	1.20591	-0.00068	1.00000	
33	Cl3(31)-S1	1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
34	Cl3(31)	1	Y		1.24492	1.30013	1.25601	1.23634	1.31370	1.31037	-	-	6 Q	0.00197	1.30646	-0.00736	0.99995	
35	Cl4(53)	1	Y		0.84332	0.82047	0.85396	0.81271	0.87512	0.84749	-	-	6 Q	-0.00909	0.87888	-0.00677	0.99991	
36	Cl3(28)	1	Y		1.22114	1.24032	1.24960	1.19643	1.28885	1.27743	-	-	6 Q	-0.00086	1.28296	-0.00842	0.99992	
37	Cl3(33)	1	Y		1.20377	1.15584	1.14922	1.09945	1.19580	1.18107	-	-	6 Q	-0.00141	1.18822	-0.00791	0.99990	
38	Cl4(51)	1	Y		0.88707	0.86667	0.84090	0.83570	0.89375	0.87819	-	-	6 Q	-0.00406	0.89339	-0.00662	0.99993	
39	Cl4(45)	1	Y		0.66888	0.71641	0.71488	0.69311	0.73798	0.72820	-	-	6 Q	-0.00244	0.73759	-0.00480	0.99994	
40	Cl3(22)	1	Y		1.14752	1.10997	1.11947	1.09811	1.17538	1.17998	-	-	6 Q	0.00463	1.16787	-0.00848	0.99994	
41	Cl4(46)	1	Y		0.64798	0.65206	0.65104	0.62388	0.67696	0.66582	-	-	6 Q	-0.00231	0.67489	-0.00498	0.99990	
42	Cl4(43)	1	Y		0.71333	0.67863	0.66404	0.64698	0.70225	0.70511	-	-	6 Q	0.00379	0.69453	-0.00472	0.99991	
43	Cl4(52)	1	Y		0.82682	0.80103	0.78430	0.75839	0.78379	0.79944	-	-	6 Q	0.00869	0.77137	0.00083	0.99998	
44	Cl4(48)	1	Y		0.95024	0.79798	0.78757	0.83193	0.90329	0.92025	-	-	6 Q	0.00851	0.89683	-0.01178	0.99990	
45	Cl4(49)	1	Y		0.81793	0.77445	0.78545	0.75652	0.78868	0.78428	-	-	6 Q	0.00006	0.78466	-0.00166	0.99997	
46	Cl5(104)	P5	1	Y	1.46850	1.10585	0.99661	0.97990	1.03689	1.01401	-	-	6 Q	-0.00231	1.02071	0.00261	0.99991	
47	Cl4(47)-S1	1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
48	Cl4(47)	1	Y		1.05797	0.97110	0.96780	0.90336	1.01481	0.99159	-	-	6 Q	-0.00385	1.00674	-0.00846	0.99980	
49	Cl4(75)	1	Y		1.15273	1.12658	1.16410	1.08787	1.17947	1.15682	-	-	6 Q	-0.00508	1.17552	-0.00718	0.99990	
50	Cl4(44)	1	Y		0.74157	0.74337	0.75490	0.70788	0.76823	0.77624	-	-	6 Q	0.00628	0.75744	-0.00382	0.99991	
51	Cl4(42)	1	Y		0.75581	0.71569	0.72102	0.70477	0.76236	0.76299	-	-	6 Q	0.00243	0.75720	-0.00615	0.99992	
52	Cl4(71)	1	Y		1.13433	1.06878	1.05984	1.04487	1.08797	1.08671	-	-	6 Q	0.00177	1.08216	-0.00330	0.99998	
53	Cl4(41)	1	Y		0.62495	0.62886	0.62259	0.61743	0.63746	0.64782	-	-	6 Q	0.00513	0.63193	-0.00164	0.99999	
54	Cl4(64)	1	Y		1.12876	1.11281	1.10267	1.07541	1.15710	1.13790	-	-	6 Q	-0.00459	1.15545	-0.00858	0.99992	
55	Cl4(40)	1	Y		0.65267	0.60459	0.60896	0.58656	0.62591	0.62480	-	-	6 Q	0.00156	0.62075	-0.00287	0.99994	
56	Cl3(37)-S1	1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
57	Cl3(37)	J1	1	Y	1.23892	1.13893	1.12046	1.10714	1.20591	1.18664	-	-	6 Q	-0.00394	1.20288	-0.01101	0.99989	
58	Cl5(100)	1	Y		0.78810	0.75503	0.77216	0.72741	0.79128	0.78648	-	-	6 Q	0.00104	0.78477	-0.00489	0.99990	
59	Cl4(67)	1	Y		1.06678	1.04321	1.04639	1.02211	1.11029	1.12597	-	-	6 Q	0.00967	1.09790	-0.00917	0.99992	
60	Cl4(63)	1	Y		0.97377	0.98364	1.04783	0.97344	1.06117	1.07271	-	-	6 Q	0.00808	1.04928	-0.00736	0.99991	

Calibration Response Factor Report

Batch: 15-0039 Project Test Code: Master 315(S)
 Data Set: DP-15-0044 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0782.M Responses Via Initial Calibration Last Updated 2/16/2015 9:24:00 AM Title: PCB-QNF NBH
 Instrument: Inst_F Operator: RR/BL Path: G:\FIDATA\MF0782.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9118.D	2 ID15 F9120.D	3 ID16 F9121.D	4 ID17 F9122.D	5 ID18 F9123.D	6 ID20 F9125.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
61	Cl5(95)		1	Y	0.64796	0.61988	0.65146	0.63849	0.68685	0.69414	-	-	6 Q	0.00413	0.68299	-0.00639	0.99994	
62	Cl4(74)		1	Y	1.10242	1.10043	1.10415	1.09099	1.16809	1.17379	-	-	6 Q	0.00470	1.16180	-0.00937	0.99994	
63	Cl4(70)		1	Y	1.15793	1.10287	1.08686	1.05387	1.14395	1.14902	-	-	6 Q	0.00632	1.13121	-0.00756	0.99991	
64	Cl5(91)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
65	Cl5(91)		1	Y	0.72091	0.74846	0.72848	0.70793	0.77685	0.77098	-	-	6 Q	0.00033	0.77222	-0.00705	0.99988	
66	Cl4(66)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
67	Cl4(66)-S2		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
68	Cl4(66)		1	Y	0.96593	1.04724	1.07366	1.01089	1.10668	1.11203	-	-	6 Q	0.00572	1.09665	-0.00888	0.99990	
69	Cl6(155)	P6	1	Y	0.89280	0.89934	0.89706	0.89597	0.96660	0.94862	-	-	6 Q	-0.00567	0.97017	-0.01039	0.99992	
70	Cl4(80)		1	Y	1.02563	1.03167	1.02157	0.99428	1.08519	1.09441	-	-	6 Q	0.00728	1.07397	-0.00915	0.99991	
71	Cl5(92)		1	Y	0.62454	0.67351	0.64751	0.67179	0.70588	0.69067	-	-	6 Q	-0.00606	0.71242	-0.00715	0.99995	
72	Cl5(84)		1	Y	0.61986	0.58318	0.59159	0.57511	0.59578	0.51136	-	-	6 Q	-0.03389	0.62157	-0.00408	0.99993	
73	Cl4(56)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
74	Cl4(56)		1	Y	1.05636	1.02475	1.04068	1.01172	1.10484	1.10253	-	-	6 Q	0.00224	1.09878	-0.01053	0.99990	
75	Cl4(60)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
76	Cl4(60)		1	Y	1.00896	0.98768	1.03585	1.00337	1.07365	1.07297	-	-	6 Q	0.00161	1.07060	-0.00862	0.99994	
77	Cl5(101)		1	Y	0.76825	0.77360	0.77170	0.76289	0.81462	0.82113	-	-	6 Q	0.00434	0.80923	-0.00605	0.99995	
78	Cl6(161)	i	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
79	Cl5(99)		1	Y	0.99785	0.96214	1.00180	0.96396	1.02830	1.08417	-	-	6 Q	0.02549	1.00397	-0.00467	0.99996	
80	Cl5(83)		1	Y	0.72401	0.70439	0.71559	0.70412	0.74995	0.79432	-	-	6 Q	0.01991	0.73190	-0.00400	0.99997	
81	Cl5(125)		1	Y	1.20890	1.10727	1.15946	1.14575	1.16944	1.25802	-	-	6 Q	0.03742	1.13835	-0.00023	1.00000	
82	Cl5(97)		1	Y	0.79496	0.84296	0.80440	0.81308	0.86949	0.90975	-	-	6 Q	0.01842	0.85255	-0.00608	0.99995	
83	Cl5(87)		1	Y	0.86841	0.80653	0.83058	0.81312	0.85982	0.92123	-	-	6 Q	0.02731	0.83510	-0.00305	0.99998	
84	Cl6(136)		1	Y	1.17083	1.00537	0.97247	0.98243	0.99909	1.06520	-	-	6 Q	0.02956	0.96988	0.00245	1.00000	
85	Cl5(115)		1	Y	1.05441	1.21106	1.14386	1.13597	1.39415	1.29338	-	-	6 Q	-0.03456	1.41652	-0.03739	0.99937	
86	Cl6(154)		1	Y	0.82686	0.85870	0.87338	0.87040	0.93519	0.96357	-	-	6 Q	0.01297	0.92494	-0.00887	0.99995	
87	Cl5(85)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
88	Cl5(85)		1	Y	0.96779	0.78337	0.96089	0.77657	0.83690	0.88689	-	-	6 Q	0.02600	0.80187	0.00596	0.99981	
89	Cl5(110)		1	Y	1.29106	1.21578	1.18129	1.18479	1.25226	1.31218	-	-	6 Q	0.02787	1.22462	-0.00516	0.99997	
90	Cl4(81)		1	Y	1.14145	1.18770	1.21785	1.20089	1.31292	1.40160	-	-	6 Q	0.03931	1.27997	-0.01286	0.99994	

Calibration Response Factor Report

Batch: 15-0039 Project Test Code: Master 315(S)
 Data Set: DP-15-0044 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0782.M Responses Via Initial Calibration Last Updated 2/16/2015 9:24:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: RR/BL Path: G:\F\DATA\MF0782.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9118.D	2 ID15 F9120.D	3 ID16 F9121.D	4 ID17 F9122.D	5 ID18 F9123.D	6 ID20 F9125.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
91	CI5(82)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92	CI5(82)		1	Y	0.77076	0.75480	0.74248	0.70593	0.78147	0.81189	-	-	6 Q	0.01632	0.76129	-0.00488	0.99989	
93	CI6(151)		1	Y	0.68393	0.72460	0.72168	0.73004	0.78809	0.82103	-	-	6 Q	0.01463	0.77676	-0.00820	0.99994	
94	CI6(135)		1	Y	0.71314	0.73965	0.71843	0.70859	0.76078	0.79247	-	-	6 Q	0.01515	0.74524	-0.00445	0.99995	
95	CI4(77)-S2		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	CI4(77)	P4	1	Y	1.25432	1.18479	1.21396	1.15298	1.27028	1.35272	-	-	6 Q	0.03928	1.22961	-0.00781	0.99991	
97	CI6(144)		1	Y	0.72401	0.72259	0.75978	0.73958	0.80613	0.83261	-	-	6 Q	0.01252	0.79516	-0.00811	0.99993	
98	CI6(149)		1	Y	0.75039	0.80870	0.80574	0.78049	0.82269	0.88640	-	-	6 Q	0.02810	0.79666	-0.00159	0.99998	
99	CI6(139)		1	Y	0.85484	0.79747	0.76663	0.78240	0.82478	0.88164	-	-	6 Q	0.02523	0.80172	-0.00344	0.99997	
100	CI5(124)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
101	CI5(124)		1	Y	1.20741	1.19765	1.21466	1.21836	1.31392	1.36297	-	-	6 Q	0.02224	1.29566	-0.01285	0.99994	
102	CI6(140)		1	Y	0.77501	0.73820	0.76995	0.75812	0.80631	0.84940	-	-	6 Q	0.01898	0.79009	-0.00518	0.99997	
103	CI5(123)		1	Y	1.15213	1.11509	1.13447	1.11837	1.21167	1.28739	-	-	6 Q	0.03425	1.18081	-0.00928	0.99995	
104	CI6(134)		1	Y	0.62533	0.59955	0.61231	0.60667	0.66615	0.69417	-	-	6 Q	0.01317	0.65415	-0.00713	0.99991	
105	CI7(188)	P7	1	Y	0.94863	0.84368	0.87085	0.85621	0.93557	0.96478	-	-	6 Q	0.01468	0.92047	-0.00873	0.99991	
106	CI5(118)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
107	CI5(118)-S2		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108	CI5(118)		1	Y	1.21558	1.15954	1.20901	1.16265	1.24136	1.31174	-	-	6 Q	0.03210	1.21064	-0.00553	0.99996	
109	CI6(131)		1	Y	0.63996	0.64776	0.67204	0.68354	0.74621	0.78400	-	-	6 Q	0.01617	0.73527	-0.01000	0.99993	
110	CI7(184)		1	Y	0.88898	0.88818	0.89710	0.85887	0.91179	0.97445	-	-	6 Q	0.02863	0.88341	-0.00166	0.99997	
111	CI6(146)		1	Y	0.75339	0.76244	0.83879	0.81757	0.88745	0.96931	-	-	6 Q	0.03469	0.86109	-0.00862	0.99996	
112	CI5(114)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
113	CI5(114)		1	Y	1.16616	1.10181	1.17652	1.14229	1.25622	1.30559	-	-	6 Q	0.02326	1.23557	-0.01361	0.99991	
114	CI6(152)	S	1	Y	0.96260	0.99303	0.99594	0.96197	1.00291	1.05046	-	-	6 Q	0.02173	0.98102	-0.00102	0.99998	
115	CI6(153)		1	Y	0.85759	0.84287	0.86664	0.84875	0.89553	0.95599	-	-	6 Q	0.02654	0.87225	-0.00359	0.99998	
116	CI7(179)		1	Y	0.82423	0.80526	0.82621	0.80650	0.86957	0.90939	-	-	6 Q	0.01843	0.85220	-0.00623	0.99995	
117	CI5(105)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
118	CI5(105)		1	Y	1.12007	1.07744	1.10909	1.11713	1.14750	1.23508	-	-	6 Q	0.03644	1.11938	-0.00315	1.00000	
119	CI6(141)		1	Y	0.73908	0.65954	0.69330	0.68902	0.75525	0.78873	-	-	6 Q	0.01541	0.74196	-0.00845	0.99992	
120	CI7(176)		1	Y	0.79614	0.79447	0.82562	0.78496	0.84555	0.89328	-	-	6 Q	0.02214	0.82377	-0.00409	0.99995	

Calibration Response Factor Report

Batch: 15-0039 Project Test Code: Master 315(S)
 Data Set: DP-15-0044 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0782.M Responses Via Initial Calibration Last Updated 2/16/2015 9:24:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: RR/BL Path: G:\FIDATA\MF0782.M

No:	Analyte:	Type:	Column:	MQO:	1	2	3	4	5	6	7	8	Curve Fit:	Levels:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
					ID13	ID15	ID16	ID17	ID18	ID20	-	-							
					F9118.D	F9120.D	F9121.D	F9122.D	F9123.D	F9125.D	-	-							
121	Cl6(127)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
122	Cl5(127)		1	Y	1.63703	1.25357	1.21412	1.19805	1.26730	1.34579	-	-	6	Q	0.03864	1.22192	0.00110	0.99996	
123	Cl6(137)		1	Y	0.71314	0.70159	0.69946	0.71783	0.77459	0.79974	-	-	6	Q	0.01130	0.76626	-0.00880	0.99994	
124	Cl6(130)		1	Y	0.58909	0.63416	0.69909	0.71339	0.73995	0.78048	-	-	6	Q	0.01511	0.73452	-0.00756	0.99999	
125	Cl6(164)		1	Y	1.07599	1.00064	0.93130	0.92074	1.01161	1.04839	-	-	6	Q	0.02022	0.98573	-0.00602	0.99989	
126	Cl6(138)		1	Y	0.73336	0.84942	0.84435	0.84156	0.89506	0.92737	-	-	6	Q	0.01423	0.88414	-0.00717	0.99997	
127	Cl6(163)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128	Cl6(163)		1	Y	0.85625	0.90146	0.93812	0.89767	0.95186	1.04885	-	-	6	Q	0.04205	0.91506	-0.00233	0.99998	
129	Cl7(178)		1	Y	0.61468	0.59846	0.59279	0.58675	0.65526	0.67391	-	-	6	Q	0.00991	0.64462	-0.00787	0.99987	
130	Cl6(158)		1	Y	0.99985	1.01592	1.04657	1.02457	1.08514	1.16112	-	-	6	Q	0.03312	1.05685	-0.00525	0.99998	
131	Cl7(175)		1	Y	0.59473	0.62456	0.64154	0.62804	0.67964	0.71023	-	-	6	Q	0.01385	0.66765	-0.00596	0.99994	
132	Cl7(187)		1	Y	0.66590	0.68256	0.69115	0.68951	0.72436	0.77534	-	-	6	Q	0.02185	0.70658	-0.00356	0.99998	
133	Cl6(166)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134	Cl6(166)		1	Y	0.93400	0.92341	1.00316	0.92890	1.01649	1.06028	-	-	6	Q	0.02116	0.99445	-0.00681	0.99991	
135	Cl7(183)		1	Y	0.67391	0.61778	0.66997	0.64878	0.70515	0.74649	-	-	6	Q	0.01851	0.68927	-0.00618	0.99994	
136	Cl5(126)	P5	1	Y	1.05773	0.99248	1.05607	1.02256	1.08023	1.16904	-	-	6	Q	0.03841	1.04692	-0.00390	0.99998	
137	Cl6(128)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138	Cl6(128)		1	Y	0.74204	0.63525	0.69821	0.69297	0.73042	0.76892	-	-	6	Q	0.01634	0.71832	-0.00525	0.99997	
139	Cl7(185)		1	Y	0.57707	0.57811	0.58271	0.59056	0.63315	0.66761	-	-	6	Q	0.01501	0.62146	-0.00583	0.99996	
140	Cl7(174)		1	Y	0.63851	0.57884	0.59072	0.57964	0.63495	0.67325	-	-	6	Q	0.01787	0.61777	-0.00515	0.99992	
141	Cl6(167)		1	Y	0.93239	0.96050	0.97465	0.96089	1.01536	1.10271	-	-	6	Q	0.03766	0.98333	-0.00420	0.99998	
142	Cl8(202)	P8	1	Y	0.71646	0.66135	0.70507	0.67799	0.72089	0.75113	-	-	6	Q	0.01391	0.70764	-0.00366	0.99996	
143	Cl7(177)		1	Y	0.57506	0.58775	0.57683	0.55468	0.59659	0.63389	-	-	6	Q	0.01759	0.57823	-0.00186	0.99995	
144	Cl8(201)		1	Y	0.71399	0.68042	0.67200	0.68298	0.74288	0.76257	-	-	6	Q	0.00972	0.73405	-0.00805	0.99992	
145	Cl7(171)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146	Cl7(171)		1	Y	0.58009	0.62159	0.61825	0.59776	0.64786	0.67245	-	-	6	Q	0.01199	0.63531	-0.00435	0.99993	
147	Cl7(173)		1	Y	0.58076	0.55134	0.52981	0.53045	0.56867	0.58860	-	-	6	Q	0.00993	0.55780	-0.00333	0.99994	
148	Cl8(197)		1	Y	0.66122	0.67473	0.68179	0.67643	0.71439	0.74343	-	-	6	Q	0.01298	0.70328	-0.00425	0.99997	
149	Cl6(156)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
150	Cl6(156)		1	Y	1.03725	0.95424	0.95065	0.92686	0.99488	1.07758	-	-	6	Q	0.03770	0.95798	-0.00303	0.99996	

Calibration Response Factor Report

Batch: 15-0039 **Project Test Code:** Master 315(S)
Data Set: DP-15-0044 **SOP_NO:** 5-315-10
Project Number: 100043429 **Project Name:** USACE/NAE New Bedford Harbor Task Order 10

File: MF0782.M **Responses Via** Initial Calibration **Last Updated** 2/16/2015 9:24:00 AM **Title:** PCB-QNF NBH
Instrument: Inst. F **Operator:** RR/BL **Path:** G:\FIDATA\MF0782.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9118.D	2 ID15 F9120.D	3 ID16 F9121.D	4 ID17 F9122.D	5 ID18 F9123.D	6 ID20 F9125.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
151	Cl7(172)	1	Y		0.55703	0.53116	0.57747	0.57449	0.62060	0.66485	-	-	6 Q	0.01873	0.60705	-0.00661	0.99996	
152	Cl6(157)	1	Y		1.01449	0.88557	0.90527	0.89837	0.97195	1.03740	-	-	6 Q	0.02961	0.94440	-0.00683	0.99994	
153	Cl7(180)	1	Y		0.67725	0.67983	0.69790	0.64998	0.70443	0.75358	-	-	6 Q	0.02314	0.68015	-0.00182	0.99994	
154	Cl7(193)-S1	1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
155	Cl7(193)	1	Y		0.88278	0.74998	0.78646	0.77620	0.82980	0.89231	-	-	6 Q	0.02766	0.80493	-0.00456	0.99996	
156	Cl8(200)	1	Y		0.66790	0.67037	0.67727	0.67709	0.70861	0.74655	-	-	6 Q	0.01642	0.69514	-0.00345	0.99998	
157	Cl7(191)	1	Y		0.91604	0.80145	0.84675	0.82488	0.89505	0.94611	-	-	6 Q	0.02340	0.87311	-0.00671	0.99994	
158	Cl7(170)-S1	1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
159	Cl7(170)	1	Y		0.67655	0.56292	0.59157	0.55942	0.59535	0.63291	-	-	6 Q	0.01771	0.57613	-0.00047	0.99996	
160	Cl8(198)	1	Y		0.50957	0.55569	0.49773	0.47058	0.50960	0.53948	-	-	6 Q	0.01549	0.48954	0.00077	0.99992	
161	Cl8(199)	1	Y		0.48757	0.37376	0.48925	0.47254	0.50725	0.53769	-	-	6 Q	0.01208	0.50109	-0.00647	0.99993	
162	Cl7(190)	1	Y		0.77301	0.81577	0.83040	0.77811	0.84100	0.89396	-	-	6 Q	0.02481	0.81516	-0.00271	0.99994	
163	Cl6(169)-S2	1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
164	Cl6(169)	P6	1	Y	0.56679	0.75741	0.82763	0.83001	0.88696	0.95514	-	-	6 Q	0.02659	0.87337	-0.01160	0.99998	
165	Cl8(203)	1	Y		0.52564	0.51569	0.55494	0.52392	0.56507	0.60580	-	-	6 Q	0.01824	0.54839	-0.00293	0.99995	
166	Cl9(208)	P9	1	Y	0.67589	0.59991	0.62242	0.60349	0.63189	0.66782	-	-	6 Q	0.01628	0.61586	-0.00099	0.99998	
167	Cl7(189)	P7	1	Y	0.87028	0.74315	0.77596	0.76573	0.79913	0.86927	-	-	6 Q	0.03050	0.77212	-0.00134	0.99999	
168	Cl9(207)	1	Y		0.72401	0.63124	0.64395	0.62633	0.69103	0.71200	-	-	6 Q	0.01132	0.67776	-0.00604	0.99989	
169	Cl8(195)-S1	1	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
170	Cl8(195)	1	Y		0.54835	0.47725	0.50078	0.48035	0.50814	0.52785	-	-	6 Q	0.00955	0.49772	-0.00141	0.99996	
171	Cl8(194)	1	Y		0.56505	0.46817	0.50498	0.46696	0.51233	0.54194	-	-	6 Q	0.01459	0.49584	-0.00205	0.99991	
172	Cl8(205)	P8	1	Y	0.65855	0.63670	0.64935	0.62021	0.64982	0.69550	-	-	6 Q	0.02069	0.62929	0.00012	0.99998	
173	Cl9(206)	P9	1	Y	0.52430	0.43527	0.47148	0.44162	0.46466	0.49178	-	-	6 Q	0.01269	0.45117	0.00008	0.99997	
174	Cl10(209)	1	Y		0.58775	0.52356	0.52367	0.49044	0.50040	0.52003	-	-	6 Q	0.01007	0.48664	0.00351	0.99999	

Calibration Response Factor Report

Batch: 15-0039 **Project Test Code:** Master 315(S)
Data Set: DP-15-0044 **SOP_NO:** 5-315-10
Project Number: 100043429 **Project Name:** USACE/NAE New Bedford Harbor Task Order 10

File: MF0782.M **Responses Via** Initial Calibration **Last Updated** 2/16/2015 9:24:00 AM **Title:** PCB-QNF NBH
Instrument: Inst. F **Operator:** RR/BL **Path:** G:\F\DATA\MF0782.M

No:	Analyte:	Type:	Column:	MQO:	1	2	3	4	5	6	7	8	Curve Fit:	Levels:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
					ID13	ID15	ID16	ID17	ID18	ID20	-	-							
					F9118.D	F9120.D	F9121.D	F9122.D	F9123.D	F9125.D	-	-							

MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.

Mean RSD: -
Count RSD: -

Calibration Curve Definitions:

Curve Fit:	Name:	Description:	Evaluate:
L	Linear	y = Bx + C	r-squared
RF	Average RF	y = Bx	RSD
L0	Linear (0,0)	y = Bx + 0	r-squared
Q	Quadratic	y = Ax^2 + Bx + C	r-squared
Q0	Quadratic (0,0)	y = Ax^2 + Bx + 0	r-squared

Calibration Curve Acceptance Criteria:

Curve Fit:	Limit Mean(%):	Mean Qual:	Limit Ind.:	Ind. Qual:	Min Points:	Points Qual:	Comments:
Linear	NA	NA	0.995	N	5	N	y = Bx + C
Average RF	15	N	25	N	5	N	y = Bx
Linear (0,0)	NA	NA	0.995	N	5	N	y = Bx + 0
Quadratic	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + C
Quadratic (0,0)	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + 0

Calibration Response Factor Report

Batch: 15-0039 **Project Test Code:** Master 315(S)
Data Set: DP-15-0044 **SOP_NO:** 5-315-10
Project Number: 100043429 **Project Name:** USACE/NAE New Bedford Harbor Task Order 10

Method: G:\F\DATA\IMF0782.M
Title: PCB-QNF NBH
Last Update: Mon Feb 16 9:24 2015
Response via: Initial Calibration
Instrument: Inst. F
Operator: RR/BL

No:	ID:	Path\File:	Update Time:	Quant Time:	Acquisition Time:
1	ID13	G:\F\DATA\SF0782\F9118.D	Feb 16 9:22 2015	Feb 13 14:29 2015	11 Feb 2015 4:55 PM
2	ID15	G:\F\DATA\SF0782\F9120.D	Feb 16 9:22 2015	Feb 13 14:30 2015	11 Feb 2015 6:31 PM
3	ID16	G:\F\DATA\SF0782\F9121.D	Feb 16 9:22 2015	Feb 13 14:31 2015	11 Feb 2015 7:19 PM
4	ID17	G:\F\DATA\SF0782\F9122.D	Feb 16 9:22 2015	Feb 13 14:32 2015	11 Feb 2015 8:07 PM
5	ID18	G:\F\DATA\SF0782\F9123.D	Feb 16 9:22 2015	Feb 13 14:33 2015	11 Feb 2015 8:55 PM
6	ID20	G:\F\DATA\SF0782\F9125.D	Feb 16 9:22 2015	Feb 13 14:34 2015	11 Feb 2015 10:30 PM

ICC Summary Report

Batch: 15-0039Data Set: DP-15-0044Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Project Name: USACE/NAE New Bedford Harbor Task Order 10Project No: 100043429Batch: 15-0039Matrix: SEDIMENTCalibration File: MF0782.MLast Updated: 2/16/2015 9:24:00 AM

				F9126.D		
		ID21		5-315 ICC		
		Acq'd:		02/11/2015 23:18		
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	% Diff
1	Cl5(96)	i	1	-		
2	Biphenyl		1	-	0.05030	0.05337 6.3
3	Cl1(1)	P1	1	Y	0.05100	0.05267 3.3
4	Cl1(3)	P1	1	Y	0.05100	0.05053 1.0
5	Cl2(4)	P2	1	Y	0.05000	0.05050 1.0
6	Cl2(7)		1	Y	0.05020	0.04880 2.7
7	Cl2(9)		1	Y	0.05000	0.05504 10.0
8	Cl2(6)		1	Y	0.05030	0.04888 2.8
9	Cl2(5)		1	Y	0.05020	0.05381 7.2
10	Cl2(8)		1	Y	0.05100	0.04616 9.4
11	Cl3(19)	P3	1	Y	0.05100	0.05344 4.7
12	Cl3(30)		1	Y	0.05010	0.05167 3.3
13	Cl2(11)-S1		1	-		
14	Cl2(11)		1	Y	0.05020	0.05219 4.1
15	Cl3(18)		1	Y	0.05100	0.05110 0.2
16	Cl3(17)		1	Y	0.05050	0.05021 0.6
17	Cl2(12)		1	Y	0.05010	0.05398 7.8
18	Cl2(13)-S1		1	-		
19	Cl2(13)		1	Y	0.05030	0.05339 6.2
20	Cl3(27)		1	Y	0.05020	0.05175 3.2
21	Cl3(24)		1	Y	0.05010	0.04561 9.0
22	Cl3(16)		1	Y	0.05000	0.05860 17.2
23	Cl2(15)	P2	1	Y	0.05000	0.04969 0.6
24	Cl3(32)		1	Y	0.05020	0.05261 4.9
25	Cl4(54)	P4	1	Y	0.05100	0.04806 5.7
26	Cl3(34)-S1	S	1	-		
27	Cl3(34)	S	1	Y	0.05020	0.05192 3.4
28	Cl3(29)		1	Y	0.05020	0.05033 0.2
29	Cl3(26)-S1		1	-		
30	Cl3(26)		1	Y	0.05010	0.04641 7.4
31	Cl4(50)		1	Y	0.05080	0.04720 7.1
32	Cl3(25)		1	Y	0.05030	0.05002 0.6
33	Cl3(31)-S1		1	-		
34	Cl3(31)		1	Y	0.05100	0.05375 5.5
35	Cl4(53)		1	Y	0.05010	0.05510 10.0
36	Cl3(28)		1	Y	0.05100	0.05270 3.3
37	Cl3(33)		1	Y	0.05010	0.04979 0.5
38	Cl4(51)		1	Y	0.05050	0.05133 1.6
39	Cl4(45)		1	Y	0.05060	0.05044 0.4
40	Cl3(22)		1	Y	0.05000	0.05281 5.6
41	Cl4(46)		1	Y	0.05030	0.05158 2.6
42	Cl4(43)		1	Y	0.05030	0.05314 5.6
43	Cl4(52)		1	Y	0.05100	0.04603 9.8

ICC Summary Report

Batch: 15-0039 **Data Set:** DP-15-0044
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project No:** 100043429
Batch: 15-0039 **Matrix:** SEDIMENT
Calibration File: MF0782.M **Last Updated:** 2/16/2015 9:24:00 AM

				F9126.D			
				ID21	5-315 ICC		
				Acq'd:	02/11/2015 23:18		
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	(ug/mL)	% Diff
44	Cl4(48)		1	Y	0.05020	0.05181	3.2
45	Cl4(49)		1	Y	0.05000	0.04752	5.0
46	Cl5(104)	P5	1	Y	0.05100	0.05225	2.5
47	Cl4(47)-S1		1	-			
48	Cl4(47)		1	Y	0.05060	0.05029	0.6
49	Cl4(75)		1	Y	0.05020	0.04542	9.6
50	Cl4(44)		1	Y	0.05100	0.04856	4.7
51	Cl4(42)		1	Y	0.05020	0.05189	3.5
52	Cl4(71)		1	Y	0.05020	0.05148	2.6
53	Cl4(41)		1	Y	0.05040	0.05354	6.3
54	Cl4(64)		1	Y	0.05030	0.05249	4.5
55	Cl4(40)		1	Y	0.05030	0.04602	8.5
56	Cl3(37)-S1		1	-			
57	Cl3(37)	J1	1	Y	0.05100	0.04942	3.1
58	Cl5(100)		1	Y	0.05010	0.04946	1.2
59	Cl4(67)		1	Y	0.05020	0.04974	1.0
60	Cl4(63)		1	Y	0.05010	0.05013	0.0
61	Cl5(95)		1	Y	0.05000	0.06321	26.4 N
62	Cl4(74)		1	Y	0.05100	0.05443	6.7
63	Cl4(70)		1	Y	0.05100	0.05070	0.6
64	Cl5(91)-S1		1	-			
65	Cl5(91)		1	Y	0.05010	0.04909	2.0
66	Cl4(66)-S1		1	-			
67	Cl4(66)-S2		1	-			
68	Cl4(66)		1	Y	0.05100	0.05279	3.5
69	Cl6(155)	P6	1	Y	0.05100	0.05034	1.4
70	Cl4(80)		1	Y	0.05010	0.05018	0.2
71	Cl5(92)		1	Y	0.05020	0.05561	10.9
72	Cl5(84)		1	Y	0.05000	0.04820	3.6
73	Cl4(56)-S1		1	-			
74	Cl4(56)		1	Y	0.05030	0.04997	0.5
75	Cl4(60)-S1		1	-			
76	Cl4(60)		1	Y	0.05020	0.05040	0.4
77	Cl5(101)		1	Y	0.05100	0.05299	3.9
78	Cl6(161)	i	1	-			
79	Cl5(99)		1	Y	0.05100	0.05437	6.7
80	Cl5(83)		1	Y	0.05100	0.05636	10.6
81	Cl5(125)		1	Y	0.05010	0.05546	10.8
82	Cl5(97)		1	Y	0.05020	0.05007	0.1
83	Cl5(87)		1	Y	0.05100	0.05189	1.8
84	Cl6(136)		1	Y	0.05010	0.05316	6.2
85	Cl5(115)		1	Y	0.05020	0.05612	11.8
86	Cl6(154)		1	Y	0.05010	0.05024	0.3

ICC Summary Report

Batch: 15-0039 Data Set: DP-15-0044
 Project Test Code: Master 315(S) SOP_NO: 5-315-10
 Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project No: 100043429
 Batch: 15-0039 Matrix: SEDIMENT
 Calibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

				F9126.D		
		ID21		5-315 ICC		
		Acq'd:		02/11/2015 23:18		
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	% Diff
87	Cl5(85)-S1		1	-		
88	Cl5(85)		1	Y	0.05010	0.04893 2.4
89	Cl5(110)		1	Y	0.05100	0.05193 1.8
90	Cl4(81)		1	Y	0.05000	0.05814 16.2
91	Cl5(82)-S1		1	-		
92	Cl5(82)		1	Y	0.05000	0.05055 1.2
93	Cl6(151)		1	Y	0.05100	0.05509 8.0
94	Cl6(135)		1	Y	0.05000	0.04732 5.4
95	Cl4(77)-S2		1	-		
96	Cl4(77)	P4	1	Y	0.05100	0.05099 0.0
97	Cl6(144)		1	Y	0.05020	0.04640 7.6
98	Cl6(149)		1	Y	0.05100	0.04888 4.1
99	Cl6(139)		1	Y	0.05030	0.04825 4.0
100	Cl5(124)-S1		1	-		
101	Cl5(124)		1	Y	0.05020	0.04849 3.3
102	Cl6(140)		1	Y	0.05050	0.04834 4.4
103	Cl5(123)		1	Y	0.05100	0.04919 3.5
104	Cl6(134)		1	Y	0.05030	0.05228 4.1
105	Cl7(188)	P7	1	Y	0.03600	0.03657 1.7
106	Cl5(118)-S1		1	-		
107	Cl5(118)-S2		1	-		
108	Cl5(118)		1	Y	0.05100	0.05217 2.4
109	Cl6(131)		1	Y	0.05010	0.04925 1.5
110	Cl7(184)		1	Y	0.05010	0.05186 3.6
111	Cl6(146)		1	Y	0.05010	0.05176 3.5
112	Cl5(114)-S1		1	-		
113	Cl5(114)		1	Y	0.05100	0.05221 2.4
114	Cl6(152)	S	1	Y	0.05010	0.05360 7.0
115	Cl6(153)		1	Y	0.05100	0.05560 9.0
116	Cl7(179)		1	Y	0.05030	0.05040 0.2
117	Cl5(105)-S1		1	-		
118	Cl5(105)		1	Y	0.05100	0.05479 7.5
119	Cl6(141)		1	Y	0.05010	0.05094 1.6
120	Cl7(176)		1	Y	0.05070	0.05392 6.3
121	Cl6(127)-S1		1	-		
122	Cl5(127)		1	Y	0.05000	0.04942 1.2
123	Cl6(137)		1	Y	0.05010	0.05052 0.8
124	Cl6(130)		1	Y	0.05020	0.05137 2.4
125	Cl6(164)		1	Y	0.05030	0.04098 18.5
126	Cl6(138)		1	Y	0.05100	0.05564 9.0
127	Cl6(163)-S1		1	-		
128	Cl6(163)		1	Y	0.05020	0.05131 2.2
129	Cl7(178)		1	Y	0.05060	0.04935 2.4

ICC Summary Report

Batch: 15-0039 Data Set: DP-15-0044
 Project Test Code: Master 315(S) SOP_NO: 5-315-10
 Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project No: 100043429
 Batch: 15-0039 Matrix: SEDIMENT
 Calibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

				F9126.D		
				ID21	5-315 ICC	
				Acq'd:	02/11/2015 23:18	
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	% Diff
130	Cl6(158)		1	Y	0.05000	0.05103
131	Cl7(175)		1	Y	0.05000	0.04938
132	Cl7(187)		1	Y	0.05100	0.05262
133	Cl6(166)-S1		1	-		
134	Cl6(166)		1	Y	0.05040	0.04944
135	Cl7(183)		1	Y	0.05100	0.05296
136	Cl5(126)	P5	1	Y	0.05100	0.05473
137	Cl6(128)-S1		1	-		
138	Cl6(128)		1	Y	0.05100	0.05054
139	Cl7(185)		1	Y	0.05000	0.05339
140	Cl7(174)		1	Y	0.05020	0.05054
141	Cl6(167)		1	Y	0.05100	0.05063
142	Cl8(202)	P8	1	Y	0.05100	0.04881
143	Cl7(177)		1	Y	0.05100	0.05149
144	Cl8(201)		1	Y	0.05000	0.04952
145	Cl7(171)-S1		1	-		
146	Cl7(171)		1	Y	0.05000	0.05177
147	Cl7(173)		1	Y	0.05030	0.04971
148	Cl8(197)		1	Y	0.05070	0.04886
149	Cl6(156)-S1		1	-		
150	Cl6(156)		1	Y	0.05100	0.05200
151	Cl7(172)		1	Y	0.05070	0.04872
152	Cl6(157)		1	Y	0.05000	0.05267
153	Cl7(180)		1	Y	0.05100	0.05304
154	Cl7(193)-S1		1	-		
155	Cl7(193)		1	Y	0.05010	0.04859
156	Cl8(200)		1	Y	0.05020	0.05030
157	Cl7(191)		1	Y	0.05010	0.04654
158	Cl7(170)-S1		1	-		
159	Cl7(170)		1	Y	0.05100	0.05229
160	Cl8(198)		1	Y	0.05050	0.05227
161	Cl8(199)		1	Y	0.05000	0.04855
162	Cl7(190)		1	Y	0.05030	0.04865
163	Cl6(169)-S2		1	-		
164	Cl6(169)	P6	1	Y	0.05100	0.05285
165	Cl8(203)		1	Y	0.05100	0.05248
166	Cl9(208)	P9	1	Y	0.05100	0.04831
167	Cl7(189)	P7	1	Y	0.05100	0.05010
168	Cl9(207)		1	Y	0.05010	0.04745
169	Cl8(195)-S1		1	-		
170	Cl8(195)		1	Y	0.05100	0.05288
171	Cl8(194)		1	Y	0.05100	0.04749
172	Cl8(205)	P8	1	Y	0.05100	0.04997

ICC Summary Report

Batch: 15-0039 Data Set: DP-15-0044
Project Test Code: Master 315(S) SOP_NO: 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project No: 100043429
Batch: 15-0039 Matrix: SEDIMENT
Calibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

F9126.D

ID21

5-315 ICC

Acq'd:

02/11/2015 23:18

No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	(ug/mL)	% Diff
173	Cl9(206)	P9	1	Y	0.05100	0.04510	11.6
174	Cl10(209)		1	Y	0.05200	0.04441	14.6

MQO: Only compounds flagged with "Y" will be counted towards
MQO exceedences.

Mean PD: 4.40
Follow ICAL: PASS

ICC Acceptance Criteria:

Mean PD(%):	<u>25</u>	Qual:	<u>N</u>
Individual PD(%):	<u>25</u>	Qual:	<u>N</u>

CCV Summary Report

Batch: 15-0039 Data Set: DP-15-0044
 Project Test Code: Master 315(S) SOP_NO: 5-315-10
 Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Matrix: SEDIMENT

Calibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

No:	Analyte:	Type:	Col:	MQO:	CAL	F9220.D		F9240.D		F9260.D	
						ID17 mid		ID17 MID		ID17MID	
						02/19/2015 18:19		02/20/2015 10:16		02/21/2015 02:13	
						MID	% Diff	MID	% Diff	MID	% Diff
1	Cl5(96)	i	1	-							
2	Biphenyl		1	-	0.04000	0.03667	-8.3	0.03457	-13.6	0.03652	-8.7
3	Cl1(1)	P1	1	Y	0.04004	0.03903	-2.5	0.03681	-8.1	0.03803	-5.0
4	Cl1(3)	P1	1	Y	0.04000	0.03719	-7.0	0.03683	-7.9	0.03692	-7.7
5	Cl2(4)	P2	1	Y	0.04012	0.03881	-3.3	0.03736	-6.9	0.03813	-5.0
6	Cl2(7)		1	Y	0.04016	0.03967	-1.2	0.03748	-6.7	0.03558	-11.4
7	Cl2(9)		1	Y	0.04000	0.03776	-5.6	0.03825	-4.4	0.03578	-10.6
8	Cl2(6)		1	Y	0.04008	0.03873	-3.4	0.03726	-7.0	0.03786	-5.5
9	Cl2(5)		1	Y	0.04000	0.03834	-4.2	0.03842	-3.9	0.03888	-2.8
10	Cl2(8)		1	Y	0.04008	0.03819	-4.7	0.03776	-5.8	0.03763	-6.1
11	Cl3(19)	P3	1	Y	0.04000	0.03915	-2.1	0.03835	-4.1	0.03851	-3.7
12	Cl3(30)		1	Y	0.04008	0.03830	-4.4	0.03846	-4.0	0.03816	-4.8
13	Cl2(11)-S1		1	-							
14	Cl2(11)		1	Y	0.04012	0.03873	-3.5	0.03878	-3.3	0.03825	-4.7
15	Cl3(18)		1	Y	0.04020	0.03854	-4.1	0.03792	-5.7	0.03807	-5.3
16	Cl3(17)		1	Y	0.04016	0.03811	-5.1	0.03801	-5.4	0.03803	-5.3
17	Cl2(12)		1	Y	0.04000	0.03789	-5.3	0.03765	-5.9	0.03768	-5.8
18	Cl2(13)-S1		1	-							
19	Cl2(13)		1	Y	0.04016	0.03686	-8.2	0.03750	-6.6	0.03749	-6.6
20	Cl3(27)		1	Y	0.04000	0.03815	-4.6	0.03757	-6.1	0.03733	-6.7
21	Cl3(24)		1	Y	0.04016	0.03859	-3.9	0.03814	-5.0	0.03799	-5.4
22	Cl3(16)		1	Y	0.04016	0.03807	-5.2	0.03812	-5.1	0.03803	-5.3
23	Cl2(15)	P2	1	Y	0.04016	0.03944	-1.8	0.03667	-8.7	0.03654	-9.0
24	Cl3(32)		1	Y	0.04000	0.04015	0.4	0.03865	-3.4	0.03968	-0.8
25	Cl4(54)	P4	1	Y	0.04016	0.03731	-7.1	0.03687	-8.2	0.03732	-7.1
26	Cl3(34)-S1	S	1	-							
27	Cl3(34)	S	1	Y	0.04000	0.03840	-4.0	0.03892	-2.7	0.03865	-3.4
28	Cl3(29)		1	Y	0.04004	0.03813	-4.8	0.03891	-2.8	0.03909	-2.4
29	Cl3(26)-S1		1	-							
30	Cl3(26)		1	Y	0.04004	0.03829	-4.4	0.03860	-3.6	0.03831	-4.3
31	Cl4(50)		1	Y	0.04016	0.03832	-4.6	0.03808	-5.2	0.03803	-5.3
32	Cl3(25)		1	Y	0.04000	0.03918	-2.1	0.03942	-1.5	0.03855	-3.6
33	Cl3(31)-S1		1	-							
34	Cl3(31)		1	Y	0.04020	0.04097	1.9	0.04017	-0.1	0.03849	-4.3
35	Cl4(53)		1	Y	0.04012	0.03930	-2.0	0.03835	-4.4	0.03799	-5.3
36	Cl3(28)		1	Y	0.04000	0.03893	-2.7	0.03862	-3.4	0.03897	-2.6
37	Cl3(33)		1	Y	0.04016	0.03918	-2.4	0.03889	-3.2	0.03780	-5.9
38	Cl4(51)		1	Y	0.04016	0.03856	-4.0	0.03868	-3.7	0.03831	-4.6
39	Cl4(45)		1	Y	0.04000	0.03879	-3.0	0.03911	-2.2	0.03776	-5.6
40	Cl3(22)		1	Y	0.04016	0.03924	-2.3	0.03916	-2.5	0.03882	-3.3
41	Cl4(46)		1	Y	0.04016	0.03866	-3.7	0.03848	-4.2	0.03858	-3.9
42	Cl4(43)		1	Y	0.04000	0.04272	6.8	0.03944	-1.4	0.04112	2.8
43	Cl4(52)		1	Y	0.04004	0.03966	-0.9	0.03944	-1.5	0.04042	0.9

CCV Summary Report

Batch: 15-0039 Data Set: DP-15-0044
Project Test Code: Master 315(S) SOP_NO: 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Matrix: SEDIMENT

Calibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

No: Analyte:	Type:	Col:	MQO:	CAL	F9220.D		F9240.D		F9260.D	
					ID17 mid		ID17 MID		ID17MID	
					02/19/2015 18:19		02/20/2015 10:16		02/21/2015 02:13	
					MID	% Diff	MID	% Diff	MID	% Diff
44	Cl4(48)		1	Y	0.04000	-1.7	0.03656	-8.6	0.03796	-5.1
45	Cl4(49)		1	Y	0.04000	-2.0	0.04409	10.2	0.04012	0.3
46	Cl5(104)	P5	1	Y	0.04000	-5.4	0.03815	-4.6	0.03683	-7.9
47	Cl4(47)-S1		1	-						
48	Cl4(47)		1	Y	0.04000	-6.2	0.03764	-5.9	0.03726	-6.8
49	Cl4(75)		1	Y	0.04016	-2.0	0.03890	-3.1	0.03936	-2.0
50	Cl4(44)		1	Y	0.04000	-2.4	0.04003	0.1	0.03892	-2.7
51	Cl4(42)		1	Y	0.04016	-4.8	0.03901	-2.9	0.03821	-4.9
52	Cl4(71)		1	Y	0.04000	-2.4	0.03920	-2.0	0.03821	-4.5
53	Cl4(41)		1	Y	0.04000	-0.7	0.03893	-2.7	0.03927	-1.8
54	Cl4(64)		1	Y	0.04016	-3.8	0.03980	-0.9	0.03820	-4.9
55	Cl4(40)		1	Y	0.04020	-4.3	0.03871	-3.7	0.03926	-2.3
56	Cl3(37)-S1		1	-						
57	Cl3(37)	J1	1	Y	0.04000	-3.8	0.03860	-3.5	0.03746	-6.4
58	Cl5(100)		1	Y	0.04016	-4.1	0.03973	-1.1	0.03838	-4.4
59	Cl4(67)		1	Y	0.04016	-3.2	0.04034	0.4	0.03868	-3.7
60	Cl4(63)		1	Y	0.04000	-1.6	0.04029	0.7	0.03801	-5.0
61	Cl5(95)		1	Y	0.04000	-0.9	0.04103	2.6	0.03910	-2.2
62	Cl4(74)		1	Y	0.04000	-2.6	0.03951	-1.2	0.03834	-4.2
63	Cl4(70)		1	Y	0.04016	-1.4	0.03976	-1.0	0.03866	-3.7
64	Cl5(91)-S1		1	-						
65	Cl5(91)		1	Y	0.04020	-2.5	0.03967	-1.3	0.03842	-4.4
66	Cl4(66)-S1		1	-						
67	Cl4(66)-S2		1	-						
68	Cl4(66)		1	Y	0.04000	-2.3	0.04032	0.8	0.03796	-5.1
69	Cl6(155)	P6	1	Y	0.04016	-4.2	0.03915	-2.5	0.03850	-4.1
70	Cl4(80)		1	Y	0.04020	-2.9	0.04033	0.3	0.03907	-2.8
71	Cl5(92)		1	Y	0.04016	-0.7	0.04095	2.0	0.03780	-5.9
72	Cl5(84)		1	Y	0.04016	0.7	0.03990	-0.6	0.04004	-0.3
73	Cl4(56)-S1		1	-						
74	Cl4(56)		1	Y	0.04016	-0.8	0.03993	-0.6	0.03918	-2.4
75	Cl4(60)-S1		1	-						
76	Cl4(60)		1	Y	0.04016	-2.2	0.03991	-0.6	0.03858	-3.9
77	Cl5(101)		1	Y	0.04000	-0.7	0.04079	2.0	0.03863	-3.4
78	Cl6(161)	i	1	-						
79	Cl5(99)		1	Y	0.04008	-4.9	0.03904	-2.6	0.03781	-5.7
80	Cl5(83)		1	Y	0.04000	3.6	0.03979	-0.5	0.04181	4.5
81	Cl5(125)		1	Y	0.04000	0.2	0.04005	0.1	0.03990	-0.3
82	Cl5(97)		1	Y	0.04016	-2.8	0.03867	-3.7	0.03818	-4.9
83	Cl5(87)		1	Y	0.03988	0.3	0.03999	0.3	0.03979	-0.2
84	Cl6(136)		1	Y	0.04000	-2.8	0.03918	-2.1	0.03950	-1.3
85	Cl5(115)		1	Y	0.04016	-4.6	0.03888	-3.2	0.03727	-7.2
86	Cl6(154)		1	Y	0.04000	-6.3	0.03805	-4.9	0.03833	-4.2

CCV Summary Report

Batch: 15-0039 **Data Set:** DP-15-0044
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SEDIMENT

Calibration File: MF0782.M **Last Updated:** 2/16/2015 9:24:00 AM

No:	Analyte:	Type:	Col:	MQO:	CAL	F9220.D		F9240.D		F9260.D	
						ID17 mid		ID17 MID		ID17MID	
						02/19/2015 18:19		02/20/2015 10:16		02/21/2015 02:13	
						MID	% Diff	MID	% Diff	MID	% Diff
87	CI5(85)-S1		1	-							
88	CI5(85)		1	Y	0.04000	0.03959	-1.0	0.03921	-2.0	0.03513	-12.2
89	CI5(110)		1	Y	0.04004	0.03881	-3.1	0.03947	-1.4	0.03901	-2.6
90	CI4(81)		1	Y	0.04000	0.03880	-3.0	0.03976	-0.6	0.03889	-2.8
91	CI5(82)-S1		1	-							
92	CI5(82)		1	Y	0.04000	0.03877	-3.1	0.03906	-2.4	0.03893	-2.7
93	CI6(151)		1	Y	0.04008	0.03855	-3.8	0.03820	-4.7	0.03834	-4.3
94	CI6(135)		1	Y	0.04016	0.03848	-4.2	0.03757	-6.4	0.03814	-5.0
95	CI4(77)-S2		1	-							
96	CI4(77)	P4	1	Y	0.04000	0.03964	-0.9	0.03935	-1.6	0.03865	-3.4
97	CI6(144)		1	Y	0.04000	0.03829	-4.3	0.03803	-4.9	0.03811	-4.7
98	CI6(149)		1	Y	0.04016	0.03927	-2.2	0.03986	-0.7	0.03914	-2.5
99	CI6(139)		1	Y	0.04016	0.03949	-1.7	0.03951	-1.6	0.03877	-3.5
100	CI5(124)-S1		1	-							
101	CI5(124)		1	Y	0.04016	0.03777	-6.0	0.03887	-3.2	0.03877	-3.5
102	CI6(140)		1	Y	0.04016	0.03850	-4.1	0.03847	-4.2	0.03954	-1.5
103	CI5(123)		1	Y	0.04000	0.03809	-4.8	0.03933	-1.7	0.03824	-4.4
104	CI6(134)		1	Y	0.04016	0.03841	-4.4	0.03885	-3.3	0.03858	-3.9
105	CI7(188)	P7	1	Y	0.04016	0.03821	-4.9	0.03846	-4.2	0.03814	-5.0
106	CI5(118)-S1		1	-							
107	CI5(118)-S2		1	-							
108	CI5(118)		1	Y	0.04008	0.03823	-4.6	0.04024	0.4	0.03865	-3.6
109	CI6(131)		1	Y	0.04016	0.03971	-1.1	0.03986	-0.7	0.03942	-1.8
110	CI7(184)		1	Y	0.04000	0.03816	-4.6	0.03936	-1.6	0.03913	-2.2
111	CI6(146)		1	Y	0.04000	0.03717	-7.1	0.03832	-4.2	0.03741	-6.5
112	CI5(114)-S1		1	-							
113	CI5(114)		1	Y	0.04000	0.03880	-3.0	0.03885	-2.9	0.03749	-6.3
114	CI6(152)	S	1	Y	0.04016	0.04047	0.8	0.04148	3.3	0.04196	4.5
115	CI6(153)		1	Y	0.04000	0.03845	-3.9	0.04023	0.6	0.03869	-3.3
116	CI7(179)		1	Y	0.04016	0.03797	-5.5	0.03907	-2.7	0.03797	-5.5
117	CI5(105)-S1		1	-							
118	CI5(105)		1	Y	0.04004	0.03949	-1.4	0.04116	2.8	0.03972	-0.8
119	CI6(141)		1	Y	0.04016	0.03836	-4.5	0.03876	-3.5	0.03817	-5.0
120	CI7(176)		1	Y	0.04000	0.03833	-4.2	0.03777	-5.6	0.03782	-5.5
121	CI6(127)-S1		1	-							
122	CI5(127)		1	Y	0.04000	0.04026	0.6	0.04120	3.0	0.03995	-0.1
123	CI6(137)		1	Y	0.04016	0.03875	-3.5	0.03848	-4.2	0.03797	-5.5
124	CI6(130)		1	Y	0.04000	0.04002	0.0	0.04004	0.1	0.03943	-1.4
125	CI6(164)		1	Y	0.04000	0.04041	1.0	0.03971	-0.7	0.04107	2.7
126	CI6(138)		1	Y	0.04000	0.03866	-3.4	0.03902	-2.5	0.03661	-8.5
127	CI6(163)-S1		1	-							
128	CI6(163)		1	Y	0.04000	0.04065	1.6	0.04116	2.9	0.04222	5.5
129	CI7(178)		1	Y	0.04016	0.03759	-6.4	0.03804	-5.3	0.03915	-2.5

CCV Summary Report

Batch: 15-0039 Data Set: DP-15-0044
 Project Test Code: Master 315(S) SOP_NO: 5-315-10
 Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Matrix: SEDIMENT

Calibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

No: Analyte:	Type:	Col:	MQO:	CAL	F9220.D		F9240.D		F9260.D	
					ID17 mid		ID17 MID		ID17MID	
					02/19/2015 18:19		02/20/2015 10:16		02/21/2015 02:13	
					MID	% Diff	MID	% Diff	MID	% Diff
130 Cl6(158)		1	Y	0.04000	0.03846	-3.8	0.03884	-2.9	0.03898	-2.6
131 Cl7(175)		1	Y	0.04016	0.03955	-1.5	0.03908	-2.7	0.03769	-6.2
132 Cl7(187)		1	Y	0.04000	0.03975	-0.6	0.03987	-0.3	0.03853	-3.7
133 Cl6(166)-S1		1	-							
134 Cl6(166)		1	Y	0.04020	0.03940	-2.0	0.03927	-2.3	0.03906	-2.8
135 Cl7(183)		1	Y	0.04000	0.03874	-3.2	0.03915	-2.1	0.03861	-3.5
136 Cl5(126)	P5	1	Y	0.04016	0.04087	1.8	0.04248	5.8	0.03959	-1.4
137 Cl6(128)-S1		1	-							
138 Cl6(128)		1	Y	0.04000	0.03875	-3.1	0.04110	2.7	0.03877	-3.1
139 Cl7(185)		1	Y	0.04000	0.03973	-0.7	0.03955	-1.1	0.03834	-4.2
140 Cl7(174)		1	Y	0.04000	0.03838	-4.1	0.03981	-0.5	0.03817	-4.6
141 Cl6(167)		1	Y	0.04008	0.03996	-0.3	0.04116	2.7	0.03858	-3.7
142 Cl8(202)	P8	1	Y	0.04016	0.03862	-3.8	0.03888	-3.2	0.03831	-4.6
143 Cl7(177)		1	Y	0.04000	0.03981	-0.5	0.03967	-0.8	0.03887	-2.8
144 Cl8(201)		1	Y	0.04004	0.03729	-6.9	0.03724	-7.0	0.03645	-9.0
145 Cl7(171)-S1		1	-							
146 Cl7(171)		1	Y	0.04020	0.03765	-6.3	0.03896	-3.1	0.03743	-6.9
147 Cl7(173)		1	Y	0.04016	0.03874	-3.5	0.03807	-5.2	0.03761	-6.3
148 Cl8(197)		1	Y	0.04000	0.03832	-4.2	0.03907	-2.3	0.03626	-9.3
149 Cl6(156)-S1		1	-							
150 Cl6(156)		1	Y	0.04000	0.04024	0.6	0.04071	1.8	0.03800	-5.0
151 Cl7(172)		1	Y	0.04000	0.03896	-2.6	0.03973	-0.7	0.03746	-6.4
152 Cl6(157)		1	Y	0.04020	0.03949	-1.8	0.04096	1.9	0.03912	-2.7
153 Cl7(180)		1	Y	0.04000	0.03894	-2.6	0.04078	1.9	0.03622	-9.4
154 Cl7(193)-S1		1	-							
155 Cl7(193)		1	Y	0.04016	0.04032	0.4	0.03948	-1.7	0.03960	-1.4
156 Cl8(200)		1	Y	0.04000	0.03823	-4.4	0.03831	-4.2	0.03665	-8.4
157 Cl7(191)		1	Y	0.04016	0.03826	-4.7	0.04007	-0.2	0.03778	-5.9
158 Cl7(170)-S1		1	-							
159 Cl7(170)		1	Y	0.04020	0.03933	-2.2	0.04193	4.3	0.03805	-5.3
160 Cl8(198)		1	Y	0.04016	0.03897	-3.0	0.04188	4.3	0.03540	-11.9
161 Cl8(199)		1	Y	0.04000	0.03728	-6.8	0.03672	-8.2	0.03872	-3.2
162 Cl7(190)		1	Y	0.04016	0.03887	-3.2	0.03980	-0.9	0.03728	-7.2
163 Cl6(169)-S2		1	-							
164 Cl6(169)	P6	1	Y	0.04016	0.04104	2.2	0.03100	-22.8	0.03790	-5.6
165 Cl8(203)		1	Y	0.04000	0.03834	-4.2	0.03984	-0.4	0.03642	-8.9
166 Cl9(208)	P9	1	Y	0.04016	0.03772	-6.1	0.03899	-2.9	0.03607	-10.2
167 Cl7(189)	P7	1	Y	0.04000	0.03912	-2.2	0.04135	3.4	0.03732	-6.7
168 Cl9(207)		1	Y	0.04000	0.03814	-4.7	0.03762	-6.0	0.03408	-14.8
169 Cl8(195)-S1		1	-							
170 Cl8(195)		1	Y	0.04008	0.03855	-3.8	0.03840	-4.2	0.03749	-6.5
171 Cl8(194)		1	Y	0.04008	0.03752	-6.4	0.03967	-1.0	0.03431	-14.4
172 Cl8(205)	P8	1	Y	0.04000	0.03839	-4.0	0.03935	-1.6	0.03726	-6.8

CCV Summary Report

Batch: 15-0039 Data Set: DP-15-0044
Project Test Code: Master 315(S) SOP_NO: 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Matrix: SEDIMENTCalibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

No: Analyte:	Type:	Col:	MQO:	CAL	F9220.D		F9240.D		F9260.D	
					ID17 mid		ID17 MID		ID17MID	
					02/19/2015 18:19		02/20/2015 10:16		02/21/2015 02:13	
					MID	% Diff	MID	% Diff	MID	% Diff
173 Cl9(206)	P9	1	Y	0.04000	0.03677	-8.1	0.03801	-5.0	0.03465	-13.4
174 Cl10(209)		1	Y	0.04008	0.03720	-7.2	0.03567	-11.0	0.03260	-18.7
MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.					Mean PD:	3.3	3.3	3.3	4.9	
					Time Check:	< 24	< 24	< 24	< 24	

CCV Acceptance Criteria:

Frequency Hours:	24	Qual:	N
Mean PD(%):	15	Qual:	N
Individual PD(%):	25	Qual:	N

CCV Summary Report

Batch: 15-0039Data Set: DP-15-0044Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SEDIMENTCalibration File: MF0782.MLast Updated: 2/16/2015 9:24:00 AM

F9272.D

ID17MID

02/26/2015 17:23

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
1	Cl5(96)	i	1	-			
2	Biphenyl		1	-	0.04000	0.03771	-5.7
3	Cl1(1)	P1	1	Y	0.04004	0.03971	-0.8
4	Cl1(3)	P1	1	Y	0.04000	0.03701	-7.5
5	Cl2(4)	P2	1	Y	0.04012	0.03868	-3.6
6	Cl2(7)		1	Y	0.04016	0.03724	-7.3
7	Cl2(9)		1	Y	0.04000	0.04063	1.6
8	Cl2(6)		1	Y	0.04008	0.03857	-3.8
9	Cl2(5)		1	Y	0.04000	0.03951	-1.2
10	Cl2(8)		1	Y	0.04008	0.03874	-3.3
11	Cl3(19)	P3	1	Y	0.04000	0.03920	-2.0
12	Cl3(30)		1	Y	0.04008	0.03804	-5.1
13	Cl2(11)-S1		1	-			
14	Cl2(11)		1	Y	0.04012	0.03751	-6.5
15	Cl3(18)		1	Y	0.04020	0.03822	-4.9
16	Cl3(17)		1	Y	0.04016	0.03880	-3.4
17	Cl2(12)		1	Y	0.04000	0.03697	-7.6
18	Cl2(13)-S1		1	-			
19	Cl2(13)		1	Y	0.04016	0.03600	-10.4
20	Cl3(27)		1	Y	0.04000	0.03861	-3.5
21	Cl3(24)		1	Y	0.04016	0.03902	-2.8
22	Cl3(16)		1	Y	0.04016	0.03792	-5.6
23	Cl2(15)	P2	1	Y	0.04016	0.03584	-10.8
24	Cl3(32)		1	Y	0.04000	0.04034	0.9
25	Cl4(54)	P4	1	Y	0.04016	0.03834	-4.5
26	Cl3(34)-S1	S	1	-			
27	Cl3(34)	S	1	Y	0.04000	0.03875	-3.1
28	Cl3(29)		1	Y	0.04004	0.03838	-4.1
29	Cl3(26)-S1		1	-			
30	Cl3(26)		1	Y	0.04004	0.03772	-5.8
31	Cl4(50)		1	Y	0.04016	0.03865	-3.8
32	Cl3(25)		1	Y	0.04000	0.03859	-3.5
33	Cl3(31)-S1		1	-			
34	Cl3(31)		1	Y	0.04020	0.03774	-6.1
35	Cl4(53)		1	Y	0.04012	0.03785	-5.7
36	Cl3(28)		1	Y	0.04000	0.03824	-4.4
37	Cl3(33)		1	Y	0.04016	0.03856	-4.0
38	Cl4(51)		1	Y	0.04016	0.03863	-3.8
39	Cl4(45)		1	Y	0.04000	0.03847	-3.8
40	Cl3(22)		1	Y	0.04016	0.03827	-4.7
41	Cl4(46)		1	Y	0.04016	0.03828	-4.7
42	Cl4(43)		1	Y	0.04000	0.03971	-0.7
43	Cl4(52)		1	Y	0.04004	0.04123	3.0

CCV Summary Report

Batch: 15-0039 **Data Set:** DP-15-0044
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SEDIMENT

Calibration File: MF0782.M **Last Updated:** 2/16/2015 9:24:00 AM

F9272.D

ID17MID

02/26/2015 17:23

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
44	Cl4(48)		1	Y	0.04000	0.03690	-7.7
45	Cl4(49)		1	Y	0.04000	0.04013	0.3
46	Cl5(104)	P5	1	Y	0.04000	0.03770	-5.8
47	Cl4(47)-S1		1	-			
48	Cl4(47)		1	Y	0.04000	0.03704	-7.4
49	Cl4(75)		1	Y	0.04016	0.03969	-1.2
50	Cl4(44)		1	Y	0.04000	0.03811	-4.7
51	Cl4(42)		1	Y	0.04016	0.03717	-7.4
52	Cl4(71)		1	Y	0.04000	0.03765	-5.9
53	Cl4(41)		1	Y	0.04000	0.03975	-0.6
54	Cl4(64)		1	Y	0.04016	0.03776	-6.0
55	Cl4(40)		1	Y	0.04020	0.03680	-8.5
56	Cl3(37)-S1		1	-			
57	Cl3(37)	J1	1	Y	0.04000	0.03556	-11.1
58	Cl5(100)		1	Y	0.04016	0.03763	-6.3
59	Cl4(67)		1	Y	0.04016	0.03655	-9.0
60	Cl4(63)		1	Y	0.04000	0.03655	-8.6
61	Cl5(95)		1	Y	0.04000	0.03802	-5.0
62	Cl4(74)		1	Y	0.04000	0.03655	-8.6
63	Cl4(70)		1	Y	0.04016	0.03743	-6.8
64	Cl5(91)-S1		1	-			
65	Cl5(91)		1	Y	0.04020	0.03759	-6.5
66	Cl4(66)-S1		1	-			
67	Cl4(66)-S2		1	-			
68	Cl4(66)		1	Y	0.04000	0.03710	-7.2
69	Cl6(155)	P6	1	Y	0.04016	0.03829	-4.7
70	Cl4(80)		1	Y	0.04020	0.03782	-5.9
71	Cl5(92)		1	Y	0.04016	0.04205	4.7
72	Cl5(84)		1	Y	0.04016	0.03326	-17.2
73	Cl4(56)-S1		1	-			
74	Cl4(56)		1	Y	0.04016	0.03801	-5.4
75	Cl4(60)-S1		1	-			
76	Cl4(60)		1	Y	0.04016	0.03791	-5.6
77	Cl5(101)		1	Y	0.04000	0.03689	-7.8
78	Cl6(161)	i	1	-			
79	Cl5(99)		1	Y	0.04008	0.03812	-4.9
80	Cl5(83)		1	Y	0.04000	0.03845	-3.9
81	Cl5(125)		1	Y	0.04000	0.03931	-1.7
82	Cl5(97)		1	Y	0.04016	0.03777	-6.0
83	Cl5(87)		1	Y	0.03988	0.03832	-3.9
84	Cl6(136)		1	Y	0.04000	0.03997	-0.1
85	Cl5(115)		1	Y	0.04016	0.03923	-2.3
86	Cl6(154)		1	Y	0.04000	0.03818	-4.6

CCV Summary Report

Batch: 15-0039Data Set: DP-15-0044Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SEDIMENTCalibration File: MF0782.MLast Updated: 2/16/2015 9:24:00 AM

F9272.D

ID17MID

02/26/2015 17:23

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
87	Cl5(85)-S1		1	-			
88	Cl5(85)		1	Y	0.04000	0.03590	-10.2
89	Cl5(110)		1	Y	0.04004	0.03783	-5.5
90	Cl4(81)		1	Y	0.04000	0.03755	-6.1
91	Cl5(82)-S1		1	-			
92	Cl5(82)		1	Y	0.04000	0.03828	-4.3
93	Cl6(151)		1	Y	0.04008	0.03790	-5.4
94	Cl6(135)		1	Y	0.04016	0.03844	-4.3
95	Cl4(77)-S2		1	-			
96	Cl4(77)	P4	1	Y	0.04000	0.03751	-6.2
97	Cl6(144)		1	Y	0.04000	0.03814	-4.7
98	Cl6(149)		1	Y	0.04016	0.03809	-5.2
99	Cl6(139)		1	Y	0.04016	0.03940	-1.9
100	Cl5(124)-S1		1	-			
101	Cl5(124)		1	Y	0.04016	0.03853	-4.1
102	Cl6(140)		1	Y	0.04016	0.03814	-5.0
103	Cl5(123)		1	Y	0.04000	0.03689	-7.8
104	Cl6(134)		1	Y	0.04016	0.03745	-6.7
105	Cl7(188)	P7	1	Y	0.04016	0.03835	-4.5
106	Cl5(118)-S1		1	-			
107	Cl5(118)-S2		1	-			
108	Cl5(118)		1	Y	0.04008	0.03779	-5.7
109	Cl6(131)		1	Y	0.04016	0.04000	-0.4
110	Cl7(184)		1	Y	0.04000	0.03794	-5.1
111	Cl6(146)		1	Y	0.04000	0.03740	-6.5
112	Cl5(114)-S1		1	-			
113	Cl5(114)		1	Y	0.04000	0.03706	-7.3
114	Cl6(152)	S	1	Y	0.04016	0.03944	-1.8
115	Cl6(153)		1	Y	0.04000	0.03883	-2.9
116	Cl7(179)		1	Y	0.04016	0.03728	-7.2
117	Cl5(105)-S1		1	-			
118	Cl5(105)		1	Y	0.04004	0.03755	-6.2
119	Cl6(141)		1	Y	0.04016	0.03702	-7.8
120	Cl7(176)		1	Y	0.04000	0.03696	-7.6
121	Cl6(127)-S1		1	-			
122	Cl5(127)		1	Y	0.04000	0.03776	-5.6
123	Cl6(137)		1	Y	0.04016	0.03648	-9.2
124	Cl6(130)		1	Y	0.04000	0.03550	-11.3
125	Cl6(164)		1	Y	0.04000	0.03714	-7.2
126	Cl6(138)		1	Y	0.04000	0.03323	-16.9
127	Cl6(163)-S1		1	-			
128	Cl6(163)		1	Y	0.04000	0.04227	5.7
129	Cl7(178)		1	Y	0.04016	0.03782	-5.8

CCV Summary Report

Batch: 15-0039 **Data Set:** DP-15-0044
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SEDIMENT

Calibration File: MF0782.M **Last Updated:** 2/16/2015 9:24:00 AM

F9272.D

ID17MID

02/26/2015 17:23

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
130	Cl6(158)		1	Y	0.04000	0.03831	-4.2
131	Cl7(175)		1	Y	0.04016	0.03661	-8.8
132	Cl7(187)		1	Y	0.04000	0.03800	-5.0
133	Cl6(166)-S1		1	-			
134	Cl6(166)		1	Y	0.04020	0.03792	-5.7
135	Cl7(183)		1	Y	0.04000	0.03757	-6.1
136	Cl5(126)	P5	1	Y	0.04016	0.03679	-8.4
137	Cl6(128)-S1		1	-			
138	Cl6(128)		1	Y	0.04000	0.03833	-4.2
139	Cl7(185)		1	Y	0.04000	0.03879	-3.0
140	Cl7(174)		1	Y	0.04000	0.03675	-8.1
141	Cl6(167)		1	Y	0.04008	0.03662	-8.6
142	Cl8(202)	P8	1	Y	0.04016	0.03652	-9.1
143	Cl7(177)		1	Y	0.04000	0.03682	-8.0
144	Cl8(201)		1	Y	0.04004	0.03601	-10.1
145	Cl7(171)-S1		1	-			
146	Cl7(171)		1	Y	0.04020	0.03611	-10.2
147	Cl7(173)		1	Y	0.04016	0.03653	-9.0
148	Cl8(197)		1	Y	0.04000	0.03633	-9.2
149	Cl6(156)-S1		1	-			
150	Cl6(156)		1	Y	0.04000	0.03589	-10.3
151	Cl7(172)		1	Y	0.04000	0.03715	-7.1
152	Cl6(157)		1	Y	0.04020	0.03766	-6.3
153	Cl7(180)		1	Y	0.04000	0.03787	-5.3
154	Cl7(193)-S1		1	-			
155	Cl7(193)		1	Y	0.04016	0.03560	-11.4
156	Cl8(200)		1	Y	0.04000	0.03713	-7.2
157	Cl7(191)		1	Y	0.04016	0.03699	-7.9
158	Cl7(170)-S1		1	-			
159	Cl7(170)		1	Y	0.04020	0.03455	-14.1
160	Cl8(198)		1	Y	0.04016	0.04198	4.5
161	Cl8(199)		1	Y	0.04000	0.03152	-21.2
162	Cl7(190)		1	Y	0.04016	0.03625	-9.7
163	Cl6(169)-S2		1	-			
164	Cl6(169)	P6	1	Y	0.04016	0.03571	-11.1
165	Cl8(203)		1	Y	0.04000	0.03616	-9.6
166	Cl9(208)	P9	1	Y	0.04016	0.03432	-14.5
167	Cl7(189)	P7	1	Y	0.04000	0.03477	-13.1
168	Cl9(207)		1	Y	0.04000	0.03480	-13.0
169	Cl8(195)-S1		1	-			
170	Cl8(195)		1	Y	0.04008	0.03683	-8.1
171	Cl8(194)		1	Y	0.04008	0.03299	-17.7
172	Cl8(205)	P8	1	Y	0.04000	0.03511	-12.2

CCV Summary Report

Batch: 15-0039 Data Set: DP-15-0044
Project Test Code: Master 315(S) SOP_NO: 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Matrix: SEDIMENTCalibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

F9272.D

ID17MID

02/26/2015 17:23

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
173	Cl9(206)	P9	1	Y	0.04000	0.03203	-19.9
174	Cl10(209)		1	Y	0.04008	0.03223	-19.6

MQO: Only compounds flagged with "Y" will be counted
towards MQO exceedences.

Mean PD: 6.6
Time Check: < 24

CCV Acceptance Criteria:

Frequency Hours:	24	Qual:	N
Mean PD(%):	15	Qual:	N
Individual PD(%):	25	Qual:	N

CCV Summary Report

Batch: 15-0039 Data Set: DP-15-0044
 Project Test Code: Master 315(S) SOP_NO: 5-315-10
 Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Matrix: SEDIMENT

Calibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

No:	Analyte:	Type:	Col:	MQO:	CAL	F9230.D		F9250.D		F9269.D	
						ID18 MID		ID18MID		ID18MID	
						02/20/2015 02:18		02/20/2015 18:15		02/21/2015 09:23	
						MID	% Diff	MID	% Diff	MID	% Diff
1	Cl5(96)	i	1	-							
2	Biphenyl		1	-	0.08000	0.07255	-9.3	0.08991	12.4	0.07894	-1.3
3	Cl1(1)	P1	1	Y	0.08008	0.07504	-6.3	0.09114	13.8	0.07792	-2.7
4	Cl1(3)	P1	1	Y	0.08000	0.07427	-7.2	0.08798	10.0	0.07738	-3.3
5	Cl2(4)	P2	1	Y	0.08024	0.07578	-5.6	0.09030	12.5	0.07836	-2.3
6	Cl2(7)		1	Y	0.08032	0.07865	-2.1	0.08854	10.2	0.07416	-7.7
7	Cl2(9)		1	Y	0.08000	0.07636	-4.6	0.09211	15.1	0.07321	-8.5
8	Cl2(6)		1	Y	0.08016	0.07848	-2.1	0.09071	13.2	0.07902	-1.4
9	Cl2(5)		1	Y	0.08000	0.07677	-4.0	0.09023	12.8	0.08073	0.9
10	Cl2(8)		1	Y	0.08016	0.07933	-1.0	0.09094	13.4	0.08048	0.4
11	Cl3(19)	P3	1	Y	0.08000	0.07738	-3.3	0.08757	9.5	0.07896	-1.3
12	Cl3(30)		1	Y	0.08016	0.08021	0.1	0.08968	11.9	0.08216	2.5
13	Cl2(11)-S1		1	-							
14	Cl2(11)		1	Y	0.08024	0.07923	-1.3	0.08626	7.5	0.07908	-1.4
15	Cl3(18)		1	Y	0.08040	0.08020	-0.2	0.08710	8.3	0.07981	-0.7
16	Cl3(17)		1	Y	0.08032	0.07919	-1.4	0.08659	7.8	0.08009	-0.3
17	Cl2(12)		1	Y	0.08000	0.07957	-0.5	0.08808	10.1	0.08079	1.0
18	Cl2(13)-S1		1	-							
19	Cl2(13)		1	Y	0.08032	0.07952	-1.0	0.08497	5.8	0.07957	-0.9
20	Cl3(27)		1	Y	0.08000	0.07824	-2.2	0.08524	6.5	0.07949	-0.6
21	Cl3(24)		1	Y	0.08032	0.07926	-1.3	0.08624	7.4	0.08117	1.1
22	Cl3(16)		1	Y	0.08032	0.07891	-1.8	0.08509	5.9	0.07925	-1.3
23	Cl2(15)	P2	1	Y	0.08032	0.07787	-3.1	0.08164	1.6	0.07804	-2.8
24	Cl3(32)		1	Y	0.08000	0.07913	-1.1	0.08486	6.1	0.08042	0.5
25	Cl4(54)	P4	1	Y	0.08032	0.07719	-3.9	0.08237	2.6	0.07882	-1.9
26	Cl3(34)-S1	S	1	-							
27	Cl3(34)	S	1	Y	0.08000	0.08080	1.0	0.08302	3.8	0.08011	0.1
28	Cl3(29)		1	Y	0.08008	0.08159	1.9	0.08359	4.4	0.08233	2.8
29	Cl3(26)-S1		1	-							
30	Cl3(26)		1	Y	0.08008	0.08259	3.1	0.08383	4.7	0.08072	0.8
31	Cl4(50)		1	Y	0.08032	0.08039	0.1	0.08210	2.2	0.08084	0.6
32	Cl3(25)		1	Y	0.08000	0.08184	2.3	0.08261	3.3	0.08137	1.7
33	Cl3(31)-S1		1	-							
34	Cl3(31)		1	Y	0.08040	0.08307	3.3	0.08186	1.8	0.08117	1.0
35	Cl4(53)		1	Y	0.08024	0.07988	-0.4	0.08010	-0.2	0.08079	0.7
36	Cl3(28)		1	Y	0.08000	0.08394	4.9	0.08156	1.9	0.08229	2.9
37	Cl3(33)		1	Y	0.08032	0.08065	0.4	0.08033	0.0	0.08055	0.3
38	Cl4(51)		1	Y	0.08032	0.08042	0.1	0.07874	-2.0	0.08137	1.3
39	Cl4(45)		1	Y	0.08000	0.08063	0.8	0.07926	-0.9	0.08050	0.6
40	Cl3(22)		1	Y	0.08032	0.08337	3.8	0.07956	-0.9	0.08271	3.0
41	Cl4(46)		1	Y	0.08032	0.07978	-0.7	0.07875	-2.0	0.08025	-0.1
42	Cl4(43)		1	Y	0.08000	0.09077	13.5	0.08217	2.7	0.07761	-3.0
43	Cl4(52)		1	Y	0.08008	0.08640	7.9	0.08780	9.6	0.09253	15.5

CCV Summary Report

Batch: 15-0039

Data Set: DP-15-0044

Project Test Code: Master 315(S)

SOP_NO: 5-315-10

Project Name: USACE/NAE New Bedford Harbor Task Order 10

Project Number: 100043429

Matrix: SEDIMENT

Calibration File: MF0782.M

Last Updated: 2/16/2015 9:24:00 AM

					F9230.D		F9250.D		F9269.D		
					ID18 MID		ID18MID		ID18MID		
					02/20/2015 02:18		02/20/2015 18:15		02/21/2015 09:23		
No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff	MID	% Diff
44	CI4(48)		1	Y	0.08000	0.08091	1.1	0.08239	3.0	0.07926	-0.9
45	CI4(49)		1	Y	0.08000	0.08637	8.0	0.09187	14.8	0.08494	6.2
46	CI5(104)	P5	1	Y	0.08000	0.07995	-0.1	0.08106	1.3	0.08054	0.7
47	CI4(47)-S1		1	-							
48	CI4(47)		1	Y	0.08000	0.07943	-0.7	0.07839	-2.0	0.07872	-1.6
49	CI4(75)		1	Y	0.08032	0.08370	4.2	0.08291	3.2	0.08394	4.5
50	CI4(44)		1	Y	0.08000	0.08342	4.3	0.08349	4.4	0.08167	2.1
51	CI4(42)		1	Y	0.08032	0.08307	3.4	0.08305	3.4	0.08079	0.6
52	CI4(71)		1	Y	0.08000	0.08493	6.2	0.08371	4.6	0.08151	1.9
53	CI4(41)		1	Y	0.08000	0.08492	6.1	0.08418	5.2	0.08288	3.6
54	CI4(64)		1	Y	0.08032	0.08242	2.6	0.08252	2.7	0.08123	1.1
55	CI4(40)		1	Y	0.08040	0.08529	6.1	0.08136	1.2	0.08475	5.4
56	CI3(37)-S1		1	-							
57	CI3(37)	J1	1	Y	0.08000	0.08215	2.7	0.08125	1.6	0.08008	0.1
58	CI5(100)		1	Y	0.08032	0.08492	5.7	0.08475	5.5	0.08109	1.0
59	CI4(67)		1	Y	0.08032	0.08663	7.9	0.08644	7.6	0.08266	2.9
60	CI4(63)		1	Y	0.08000	0.08620	7.7	0.08709	8.9	0.08199	2.5
61	CI5(95)		1	Y	0.08000	0.08303	3.8	0.08700	8.7	0.07986	-0.2
62	CI4(74)		1	Y	0.08000	0.08481	6.0	0.08784	9.8	0.08203	2.5
63	CI4(70)		1	Y	0.08032	0.08515	6.0	0.08766	9.1	0.08192	2.0
64	CI5(91)-S1		1	-							
65	CI5(91)		1	Y	0.08040	0.08266	2.8	0.08673	7.9	0.08087	0.6
66	CI4(66)-S1		1	-							
67	CI4(66)-S2		1	-							
68	CI4(66)		1	Y	0.08000	0.08377	4.7	0.08837	10.5	0.08236	3.0
69	CI6(155)	P6	1	Y	0.08032	0.08126	1.2	0.08669	7.9	0.08136	1.3
70	CI4(80)		1	Y	0.08040	0.08662	7.7	0.09070	12.8	0.08228	2.3
71	CI5(92)		1	Y	0.08032	0.07935	-1.2	0.07967	-0.8	0.07794	-3.0
72	CI5(84)		1	Y	0.08032	0.08920	11.1	0.08119	1.1	0.08490	5.7
73	CI4(56)-S1		1	-							
74	CI4(56)		1	Y	0.08032	0.08590	6.9	0.08982	11.8	0.08426	4.9
75	CI4(60)-S1		1	-							
76	CI4(60)		1	Y	0.08032	0.08486	5.7	0.08984	11.9	0.08245	2.7
77	CI5(101)		1	Y	0.08000	0.08424	5.3	0.08941	11.8	0.08054	0.7
78	CI6(161)	i	1	-							
79	CI5(99)		1	Y	0.08016	0.08300	3.5	0.07821	-2.4	0.07988	-0.3
80	CI5(83)		1	Y	0.08000	0.08025	0.3	0.08240	3.0	0.08250	3.1
81	CI5(125)		1	Y	0.08000	0.08011	0.1	0.07984	-0.2	0.08108	1.3
82	CI5(97)		1	Y	0.08032	0.08229	2.5	0.07991	-0.5	0.08098	0.8
83	CI5(87)		1	Y	0.07976	0.08268	3.7	0.07944	-0.4	0.08081	1.3
84	CI6(136)		1	Y	0.08000	0.07922	-1.0	0.07764	-3.0	0.07929	-0.9
85	CI5(115)		1	Y	0.08032	0.08638	7.5	0.08191	2.0	0.07767	-3.3
86	CI6(154)		1	Y	0.08000	0.07900	-1.3	0.07805	-2.4	0.08025	0.3

CCV Summary Report

Batch: 15-0039 Data Set: DP-15-0044
Project Test Code: Master 315(S) SOP_NO: 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Matrix: SEDIMENT

Calibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

No:	Analyte:	Type:	Col:	MQO:	CAL	F9230.D		F9250.D		F9269.D	
						ID18 MID		ID18MID		ID18MID	
						02/20/2015 02:18		02/20/2015 18:15		02/21/2015 09:23	
						MID	% Diff	MID	% Diff	MID	% Diff
87	Cl5(85)-S1		1	-							
88	Cl5(85)		1	Y	0.08000	0.07457	-6.8	0.07610	-4.9	0.08608	7.6
89	Cl5(110)		1	Y	0.08008	0.08148	1.7	0.07915	-1.2	0.08004	0.0
90	Cl4(81)		1	Y	0.08000	0.08268	3.4	0.07934	-0.8	0.08259	3.2
91	Cl5(82)-S1		1	-							
92	Cl5(82)		1	Y	0.08000	0.08241	3.0	0.08026	0.3	0.08090	1.1
93	Cl6(151)		1	Y	0.08016	0.08120	1.3	0.07899	-1.5	0.08001	-0.2
94	Cl6(135)		1	Y	0.08032	0.07849	-2.3	0.07937	-1.2	0.07916	-1.4
95	Cl4(77)-S2		1	-							
96	Cl4(77)	P4	1	Y	0.08000	0.08501	6.3	0.08132	1.7	0.08398	5.0
97	Cl6(144)		1	Y	0.08000	0.08017	0.2	0.07796	-2.6	0.07949	-0.6
98	Cl6(149)		1	Y	0.08032	0.08294	3.3	0.08080	0.6	0.07995	-0.5
99	Cl6(139)		1	Y	0.08032	0.08000	-0.4	0.07942	-1.1	0.07787	-3.1
100	Cl5(124)-S1		1	-							
101	Cl5(124)		1	Y	0.08032	0.08185	1.9	0.08095	0.8	0.08136	1.3
102	Cl6(140)		1	Y	0.08032	0.07928	-1.3	0.07927	-1.3	0.08067	0.4
103	Cl5(123)		1	Y	0.08000	0.08374	4.7	0.07986	-0.2	0.08132	1.7
104	Cl6(134)		1	Y	0.08032	0.07987	-0.6	0.07889	-1.8	0.07964	-0.8
105	Cl7(188)	P7	1	Y	0.08032	0.07981	-0.6	0.07869	-2.0	0.07825	-2.6
106	Cl5(118)-S1		1	-							
107	Cl5(118)-S2		1	-							
108	Cl5(118)		1	Y	0.08016	0.08260	3.0	0.07968	-0.6	0.08147	1.6
109	Cl6(131)		1	Y	0.08032	0.07879	-1.9	0.07819	-2.7	0.07933	-1.2
110	Cl7(184)		1	Y	0.08000	0.08170	2.1	0.07992	-0.1	0.07890	-1.4
111	Cl6(146)		1	Y	0.08000	0.08051	0.6	0.07787	-2.7	0.07822	-2.2
112	Cl5(114)-S1		1	-							
113	Cl5(114)		1	Y	0.08000	0.08101	1.3	0.08080	1.0	0.08083	1.0
114	Cl6(152)	S	1	Y	0.08032	0.08343	3.9	0.08147	1.4	0.08344	3.9
115	Cl6(153)		1	Y	0.08000	0.08092	1.2	0.08013	0.2	0.08017	0.2
116	Cl7(179)		1	Y	0.08032	0.08110	1.0	0.08022	-0.1	0.07940	-1.1
117	Cl5(105)-S1		1	-							
118	Cl5(105)		1	Y	0.08008	0.08379	4.6	0.08216	2.6	0.08008	0.0
119	Cl6(141)		1	Y	0.08032	0.07975	-0.7	0.07989	-0.5	0.07897	-1.7
120	Cl7(176)		1	Y	0.08000	0.08024	0.3	0.08009	0.1	0.08028	0.4
121	Cl6(127)-S1		1	-							
122	Cl5(127)		1	Y	0.08000	0.08193	2.4	0.08143	1.8	0.08155	1.9
123	Cl6(137)		1	Y	0.08032	0.07922	-1.4	0.07971	-0.8	0.07949	-1.0
124	Cl6(130)		1	Y	0.08000	0.07522	-6.0	0.07656	-4.3	0.07884	-1.5
125	Cl6(164)		1	Y	0.08000	0.07893	-1.3	0.07966	-0.4	0.08508	6.4
126	Cl6(138)		1	Y	0.08000	0.07583	-5.2	0.07411	-7.4	0.07607	-4.9
127	Cl6(163)-S1		1	-							
128	Cl6(163)		1	Y	0.08000	0.08176	2.2	0.08122	1.5	0.08549	6.9
129	Cl7(178)		1	Y	0.08032	0.07605	-5.3	0.08057	0.3	0.08122	1.1

CCV Summary Report

Batch: 15-0039 Data Set: DP-15-0044
 Project Test Code: Master 315(S) SOP_NO: 5-315-10
 Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Matrix: SEDIMENT

Calibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

No: Analyte:	Type:	Col:	MQO:	CAL	F9230.D		F9250.D		F9269.D	
					ID18 MID		ID18MID		ID18MID	
					02/20/2015 02:18		02/20/2015 18:15		02/21/2015 09:23	
					MID	% Diff	MID	% Diff	MID	% Diff
130 Cl6(158)		1	Y	0.08000	0.07688	-3.9	0.07966	-0.4	0.08009	0.1
131 Cl7(175)		1	Y	0.08032	0.07652	-4.7	0.07784	-3.1	0.07682	-4.4
132 Cl7(187)		1	Y	0.08000	0.07742	-3.2	0.08128	1.6	0.07978	-0.3
133 Cl6(166)-S1		1	-							
134 Cl6(166)		1	Y	0.08040	0.07838	-2.5	0.08477	5.4	0.08121	1.0
135 Cl7(183)		1	Y	0.08000	0.07663	-4.2	0.08249	3.1	0.07898	-1.3
136 Cl5(126)	P5	1	Y	0.08032	0.08206	2.2	0.08377	4.3	0.08296	3.3
137 Cl6(128)-S1		1	-							
138 Cl6(128)		1	Y	0.08000	0.07714	-3.6	0.07899	-1.3	0.07950	-0.6
139 Cl7(185)		1	Y	0.08000	0.07602	-5.0	0.08076	0.9	0.07981	-0.2
140 Cl7(174)		1	Y	0.08000	0.07670	-4.1	0.08183	2.3	0.07959	-0.5
141 Cl6(167)		1	Y	0.08016	0.08033	0.2	0.08360	4.3	0.08070	0.7
142 Cl8(202)	P8	1	Y	0.08032	0.07181	-10.6	0.08026	-0.1	0.07855	-2.2
143 Cl7(177)		1	Y	0.08000	0.07553	-5.6	0.08061	0.8	0.07976	-0.3
144 Cl8(201)		1	Y	0.08008	0.07050	-12.0	0.07643	-4.6	0.07585	-5.3
145 Cl7(171)-S1		1	-							
146 Cl7(171)		1	Y	0.08040	0.07208	-10.3	0.07887	-1.9	0.07870	-2.1
147 Cl7(173)		1	Y	0.08032	0.07331	-8.7	0.08171	1.7	0.07740	-3.6
148 Cl8(197)		1	Y	0.08000	0.07208	-9.9	0.07981	-0.2	0.07590	-5.1
149 Cl6(156)-S1		1	-							
150 Cl6(156)		1	Y	0.08000	0.07809	-2.4	0.08217	2.7	0.07954	-0.6
151 Cl7(172)		1	Y	0.08000	0.07372	-7.9	0.08007	0.1	0.07738	-3.3
152 Cl6(157)		1	Y	0.08040	0.07703	-4.2	0.08184	1.8	0.08131	1.1
153 Cl7(180)		1	Y	0.08000	0.07449	-6.9	0.08378	4.7	0.07656	-4.3
154 Cl7(193)-S1		1	-							
155 Cl7(193)		1	Y	0.08032	0.07338	-8.6	0.07884	-1.8	0.08113	1.0
156 Cl8(200)		1	Y	0.08000	0.06940	-13.2	0.08030	0.4	0.07787	-2.7
157 Cl7(191)		1	Y	0.08032	0.07504	-6.6	0.08228	2.4	0.07787	-3.1
158 Cl7(170)-S1		1	-							
159 Cl7(170)		1	Y	0.08040	0.07886	-1.9	0.08166	1.6	0.08002	-0.5
160 Cl8(198)		1	Y	0.08032	0.07321	-8.9	0.07630	-5.0	0.07747	-3.5
161 Cl8(199)		1	Y	0.08000	0.07031	-12.1	0.06915	-13.6	0.07725	-3.4
162 Cl7(190)		1	Y	0.08032	0.07442	-7.3	0.08283	3.1	0.08017	-0.2
163 Cl6(169)-S2		1	-							
164 Cl6(169)	P6	1	Y	0.08032	0.07699	-4.1	0.08031	0.0	0.07931	-1.3
165 Cl8(203)		1	Y	0.08000	0.07057	-11.8	0.07902	-1.2	0.07589	-5.1
166 Cl9(208)	P9	1	Y	0.08032	0.06940	-13.6	0.07966	-0.8	0.07407	-7.8
167 Cl7(189)	P7	1	Y	0.08000	0.07688	-3.9	0.08242	3.0	0.07415	-7.3
168 Cl9(207)		1	Y	0.08000	0.06614	-17.3	0.07697	-3.8	0.07304	-8.7
169 Cl8(195)-S1		1	-							
170 Cl8(195)		1	Y	0.08016	0.06952	-13.3	0.07799	-2.7	0.07475	-6.7
171 Cl8(194)		1	Y	0.08016	0.07418	-7.5	0.07986	-0.4	0.07332	-8.5
172 Cl8(205)	P8	1	Y	0.08000	0.07157	-10.5	0.08168	2.1	0.07761	-3.0

CCV Summary Report

Batch: 15-0039 Data Set: DP-15-0044
Project Test Code: Master 315(S) SOP_NO: 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Matrix: SEDIMENTCalibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

					F9230.D		F9250.D		F9269.D	
					ID18 MID		ID18MID		ID18MID	
					02/20/2015 02:18		02/20/2015 18:15		02/21/2015 09:23	
No: Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff	MID	% Diff
173 Cl9(206)	P9	1	Y	0.08000	0.06736	-15.8	0.07859	-1.8	0.07164	-10.5
174 Cl10(209)		1	Y	0.08016	0.06463	-19.4	0.07268	-9.3	0.06820	-14.9
MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.					Mean PD:	4.4		4.0		2.5
					Time Check:	< 24		< 24		< 24

CCV Acceptance Criteria:

Frequency Hours:	24	Qual:	N
Mean PD(%):	15	Qual:	N
Individual PD(%):	25	Qual:	N

CCV Summary Report

Batch: 15-0039Data Set: DP-15-0044Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SEDIMENTCalibration File: MF0782.MLast Updated: 2/16/2015 9:24:00 AM

F9275.D

ID18MID

02/26/2015 19:47

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
1	Cl5(96)	i	1	-			
2	Biphenyl		1	-	0.08000	0.07853	-1.8
3	Cl1(1)	P1	1	Y	0.08008	0.08068	0.7
4	Cl1(3)	P1	1	Y	0.08000	0.07602	-5.0
5	Cl2(4)	P2	1	Y	0.08024	0.08000	-0.3
6	Cl2(7)		1	Y	0.08032	0.07671	-4.5
7	Cl2(9)		1	Y	0.08000	0.08424	5.3
8	Cl2(6)		1	Y	0.08016	0.08079	0.8
9	Cl2(5)		1	Y	0.08000	0.08068	0.9
10	Cl2(8)		1	Y	0.08016	0.08109	1.2
11	Cl3(19)	P3	1	Y	0.08000	0.08102	1.3
12	Cl3(30)		1	Y	0.08016	0.08229	2.7
13	Cl2(11)-S1		1	-			
14	Cl2(11)		1	Y	0.08024	0.07821	-2.5
15	Cl3(18)		1	Y	0.08040	0.08178	1.7
16	Cl3(17)		1	Y	0.08032	0.08225	2.4
17	Cl2(12)		1	Y	0.08000	0.07989	-0.1
18	Cl2(13)-S1		1	-			
19	Cl2(13)		1	Y	0.08032	0.07817	-2.7
20	Cl3(27)		1	Y	0.08000	0.08056	0.7
21	Cl3(24)		1	Y	0.08032	0.08275	3.0
22	Cl3(16)		1	Y	0.08032	0.08167	1.7
23	Cl2(15)	P2	1	Y	0.08032	0.07500	-6.6
24	Cl3(32)		1	Y	0.08000	0.08211	2.6
25	Cl4(54)	P4	1	Y	0.08032	0.08183	1.9
26	Cl3(34)-S1	S	1	-			
27	Cl3(34)	S	1	Y	0.08000	0.08148	1.8
28	Cl3(29)		1	Y	0.08008	0.08236	2.8
29	Cl3(26)-S1		1	-			
30	Cl3(26)		1	Y	0.08008	0.08178	2.1
31	Cl4(50)		1	Y	0.08032	0.08272	3.0
32	Cl3(25)		1	Y	0.08000	0.08125	1.6
33	Cl3(31)-S1		1	-			
34	Cl3(31)		1	Y	0.08040	0.08179	1.7
35	Cl4(53)		1	Y	0.08024	0.08157	1.7
36	Cl3(28)		1	Y	0.08000	0.08136	1.7
37	Cl3(33)		1	Y	0.08032	0.08167	1.7
38	Cl4(51)		1	Y	0.08032	0.08245	2.7
39	Cl4(45)		1	Y	0.08000	0.08152	1.9
40	Cl3(22)		1	Y	0.08032	0.08200	2.1
41	Cl4(46)		1	Y	0.08032	0.08171	1.7
42	Cl4(43)		1	Y	0.08000	0.07687	-3.9
43	Cl4(52)		1	Y	0.08008	0.08619	7.6

CCV Summary Report

Batch: 15-0039Data Set: DP-15-0044Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SEDIMENTCalibration File: MF0782.MLast Updated: 2/16/2015 9:24:00 AM

F9275.D

ID18MID

02/26/2015 19:47

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
44	Cl4(48)		1	Y	0.08000	0.07899	-1.3
45	Cl4(49)		1	Y	0.08000	0.08741	9.3
46	Cl5(104)	P5	1	Y	0.08000	0.08077	1.0
47	Cl4(47)-S1		1	-			
48	Cl4(47)		1	Y	0.08000	0.07950	-0.6
49	Cl4(75)		1	Y	0.08032	0.08558	6.5
50	Cl4(44)		1	Y	0.08000	0.08124	1.6
51	Cl4(42)		1	Y	0.08032	0.08077	0.6
52	Cl4(71)		1	Y	0.08000	0.08243	3.0
53	Cl4(41)		1	Y	0.08000	0.08331	4.1
54	Cl4(64)		1	Y	0.08032	0.08018	-0.2
55	Cl4(40)		1	Y	0.08040	0.08709	8.3
56	Cl3(37)-S1		1	-			
57	Cl3(37)	J1	1	Y	0.08000	0.07870	-1.6
58	Cl5(100)		1	Y	0.08032	0.08102	0.9
59	Cl4(67)		1	Y	0.08032	0.08120	1.1
60	Cl4(63)		1	Y	0.08000	0.08070	0.9
61	Cl5(95)		1	Y	0.08000	0.08139	1.7
62	Cl4(74)		1	Y	0.08000	0.08028	0.4
63	Cl4(70)		1	Y	0.08032	0.08169	1.7
64	Cl5(91)-S1		1	-			
65	Cl5(91)		1	Y	0.08040	0.08051	0.1
66	Cl4(66)-S1		1	-			
67	Cl4(66)-S2		1	-			
68	Cl4(66)		1	Y	0.08000	0.08167	2.1
69	Cl6(155)	P6	1	Y	0.08032	0.08214	2.3
70	Cl4(80)		1	Y	0.08040	0.08127	1.1
71	Cl5(92)		1	Y	0.08032	0.07374	-8.2
72	Cl5(84)		1	Y	0.08032	0.09054	12.7
73	Cl4(56)-S1		1	-			
74	Cl4(56)		1	Y	0.08032	0.08305	3.4
75	Cl4(60)-S1		1	-			
76	Cl4(60)		1	Y	0.08032	0.08211	2.2
77	Cl5(101)		1	Y	0.08000	0.08012	0.1
78	Cl6(161)	i	1	-			
79	Cl5(99)		1	Y	0.08016	0.08185	2.1
80	Cl5(83)		1	Y	0.08000	0.08037	0.5
81	Cl5(125)		1	Y	0.08000	0.08093	1.2
82	Cl5(97)		1	Y	0.08032	0.08173	1.8
83	Cl5(87)		1	Y	0.07976	0.08025	0.6
84	Cl6(136)		1	Y	0.08000	0.08167	2.1
85	Cl5(115)		1	Y	0.08032	0.07652	-4.7
86	Cl6(154)		1	Y	0.08000	0.08153	1.9

CCV Summary Report

Batch: 15-0039Data Set: DP-15-0044Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SEDIMENTCalibration File: MF0782.MLast Updated: 2/16/2015 9:24:00 AM

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ID18MID

02/26/2015 19:47

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
87	Cl5(85)-S1		1	-			
88	Cl5(85)		1	Y	0.08000	0.09177	14.7
89	Cl5(110)		1	Y	0.08008	0.08089	1.0
90	Cl4(81)		1	Y	0.08000	0.07996	0.0
91	Cl5(82)-S1		1	-			
92	Cl5(82)		1	Y	0.08000	0.08050	0.6
93	Cl6(151)		1	Y	0.08016	0.08056	0.5
94	Cl6(135)		1	Y	0.08032	0.08218	2.3
95	Cl4(77)-S2		1	-			
96	Cl4(77)	P4	1	Y	0.08000	0.08137	1.7
97	Cl6(144)		1	Y	0.08000	0.08202	2.5
98	Cl6(149)		1	Y	0.08032	0.08015	-0.2
99	Cl6(139)		1	Y	0.08032	0.08103	0.9
100	Cl5(124)-S1		1	-			
101	Cl5(124)		1	Y	0.08032	0.08057	0.3
102	Cl6(140)		1	Y	0.08032	0.08239	2.6
103	Cl5(123)		1	Y	0.08000	0.08069	0.9
104	Cl6(134)		1	Y	0.08032	0.08084	0.6
105	Cl7(188)	P7	1	Y	0.08032	0.08079	0.6
106	Cl5(118)-S1		1	-			
107	Cl5(118)-S2		1	-			
108	Cl5(118)		1	Y	0.08016	0.08204	2.3
109	Cl6(131)		1	Y	0.08032	0.08184	1.9
110	Cl7(184)		1	Y	0.08000	0.08038	0.5
111	Cl6(146)		1	Y	0.08000	0.08033	0.4
112	Cl5(114)-S1		1	-			
113	Cl5(114)		1	Y	0.08000	0.08209	2.6
114	Cl6(152)	S	1	Y	0.08032	0.08170	1.7
115	Cl6(153)		1	Y	0.08000	0.08144	1.8
116	Cl7(179)		1	Y	0.08032	0.08107	0.9
117	Cl5(105)-S1		1	-			
118	Cl5(105)		1	Y	0.08008	0.07956	-0.6
119	Cl6(141)		1	Y	0.08032	0.08196	2.0
120	Cl7(176)		1	Y	0.08000	0.08142	1.8
121	Cl6(127)-S1		1	-			
122	Cl5(127)		1	Y	0.08000	0.08125	1.6
123	Cl6(137)		1	Y	0.08032	0.08005	-0.3
124	Cl6(130)		1	Y	0.08000	0.07415	-7.3
125	Cl6(164)		1	Y	0.08000	0.08459	5.7
126	Cl6(138)		1	Y	0.08000	0.07259	-9.3
127	Cl6(163)-S1		1	-			
128	Cl6(163)		1	Y	0.08000	0.08851	10.6
129	Cl7(178)		1	Y	0.08032	0.08005	-0.3

CCV Summary Report

Batch: 15-0039 **Data Set:** DP-15-0044
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SEDIMENT

Calibration File: MF0782.M **Last Updated:** 2/16/2015 9:24:00 AM

F9275.D

ID18MID

02/26/2015 19:47

No: Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
130 Cl6(158)		1	Y	0.08000	0.08021	0.3
131 Cl7(175)		1	Y	0.08032	0.07827	-2.6
132 Cl7(187)		1	Y	0.08000	0.08264	3.3
133 Cl6(166)-S1		1	-			
134 Cl6(166)		1	Y	0.08040	0.08211	2.1
135 Cl7(183)		1	Y	0.08000	0.07887	-1.4
136 Cl5(126)	P5	1	Y	0.08032	0.07850	-2.3
137 Cl6(128)-S1		1	-			
138 Cl6(128)		1	Y	0.08000	0.07883	-1.5
139 Cl7(185)		1	Y	0.08000	0.08024	0.3
140 Cl7(174)		1	Y	0.08000	0.08170	2.1
141 Cl6(167)		1	Y	0.08016	0.07999	-0.2
142 Cl8(202)	P8	1	Y	0.08032	0.07998	-0.4
143 Cl7(177)		1	Y	0.08000	0.07990	-0.1
144 Cl8(201)		1	Y	0.08008	0.07693	-3.9
145 Cl7(171)-S1		1	-			
146 Cl7(171)		1	Y	0.08040	0.08033	-0.1
147 Cl7(173)		1	Y	0.08032	0.07998	-0.4
148 Cl8(197)		1	Y	0.08000	0.07904	-1.2
149 Cl6(156)-S1		1	-			
150 Cl6(156)		1	Y	0.08000	0.07711	-3.6
151 Cl7(172)		1	Y	0.08000	0.07984	-0.2
152 Cl6(157)		1	Y	0.08040	0.08007	-0.4
153 Cl7(180)		1	Y	0.08000	0.07320	-8.5
154 Cl7(193)-S1		1	-			
155 Cl7(193)		1	Y	0.08032	0.07656	-4.7
156 Cl8(200)		1	Y	0.08000	0.07863	-1.7
157 Cl7(191)		1	Y	0.08032	0.07820	-2.6
158 Cl7(170)-S1		1	-			
159 Cl7(170)		1	Y	0.08040	0.08092	0.6
160 Cl8(198)		1	Y	0.08032	0.07492	-6.7
161 Cl8(199)		1	Y	0.08000	0.06817	-14.8
162 Cl7(190)		1	Y	0.08032	0.07929	-1.3
163 Cl6(169)-S2		1	-			
164 Cl6(169)	P6	1	Y	0.08032	0.07757	-3.4
165 Cl8(203)		1	Y	0.08000	0.07736	-3.3
166 Cl9(208)	P9	1	Y	0.08032	0.07341	-8.6
167 Cl7(189)	P7	1	Y	0.08000	0.07601	-5.0
168 Cl9(207)		1	Y	0.08000	0.07628	-4.7
169 Cl8(195)-S1		1	-			
170 Cl8(195)		1	Y	0.08016	0.07915	-1.3
171 Cl8(194)		1	Y	0.08016	0.07244	-9.6
172 Cl8(205)	P8	1	Y	0.08000	0.07404	-7.5

CCV Summary Report

Batch: 15-0039 Data Set: DP-15-0044
Project Test Code: Master 315(S) SOP_NO: 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 Project Number: 100043429

Matrix: SEDIMENTCalibration File: MF0782.M Last Updated: 2/16/2015 9:24:00 AM

F9275.D

ID18MID

02/26/2015 19:47

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
173	Cl9(206)	P9	1	Y	0.08000	0.07059	-11.8
174	Cl10(209)		1	Y	0.08016	0.06826	-14.8

MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.

Mean PD: 2.8
Time Check: < 24

CCV Acceptance Criteria:

Frequency Hours:	24	Qual:	N
Mean PD(%):	15	Qual:	N
Individual PD(%):	25	Qual:	N

Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 02 09:26:37 2015
 Response via : Initial Calibration
 Standard Mult: NA
 Total Cpnds : 174

148 of 381

ID13 =F9118.D ID15 =F9120.D ID16 =F9121.D ID17 =F9122.D
 ID18 =F9123.D ID20 =F9125.D

Compound		ID13	ID15	ID16	ID17	ID18	ID20

1	i C15(96)	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000
2	Biphenyl	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
3	P1 C11(1)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032
4	P1 C11(3)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
5	P2 C12(4)	0.00251	0.01003	0.02006	0.04012	0.08024	0.32096
6	C12(7)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
7	C12(9)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
8	C12(6)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
9	C12(5)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
10	C12(8)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
11	P3 C13(19)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
12	C13(30)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
13	C12(11) -S1	-----	-----	-----	-----	-----	-----
14	C12(11)	0.00251	0.01003	0.02006	0.04012	0.08024	0.32096
15	C13(18)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160
16	C13(17)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
17	C12(12)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
18	C12(13) -S1	-----	-----	-----	-----	-----	-----
19	C12(13)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
20	C13(27)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
21	C13(24)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
22	C13(16)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
23	P2 C12(15)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
24	C13(32)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
25	P4 C14(54)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
26	S C13(34) -S1	-----	-----	-----	-----	-----	-----
27	S C13(34)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
28	C13(29)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032
29	C13(26) -S1	-----	-----	-----	-----	-----	-----
30	C13(26)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032
31	C14(50)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
32	C13(25)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
33	C13(31) -S1	-----	-----	-----	-----	-----	-----
34	C13(31)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160
35	C14(53)	0.00251	0.01003	0.02006	0.04012	0.08024	0.32096
36	C13(28)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
37	C13(33)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
38	C14(51)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
39	C14(45)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
40	C13(22)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
41	C14(46)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
42	C14(43)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
43	C14(52)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032
44	C14(48)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
45	C14(49)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
46	P5 C15(104)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
47	C14(47) -S1	-----	-----	-----	-----	-----	-----
48	C14(47)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
49	C14(75)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
50	C14(44)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
51	C14(42)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
52	C14(71)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
53	C14(41)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
54	C14(64)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
55	C14(40)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160
56	C13(37) -S1	-----	-----	-----	-----	-----	-----
57	J1 C13(37)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
58	C15(100)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
59	C14(67)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
60	C14(63)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
61	C15(95)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
62	C14(74)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000

63		C14 (70)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
64		C15 (91) -S1	-----	-----	-----	-----	-----	-----	
65		C15 (91)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160	
66		C14 (66) -S1	-----	-----	-----	-----	-----	-----	
67		C14 (66) -S2	-----	-----	-----	-----	-----	-----	
68		C14 (66)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
69	P6	C16 (155)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
70		C14 (80)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160	
71		C15 (92)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
72		C15 (84)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
73		C14 (56) -S1	-----	-----	-----	-----	-----	-----	
74		C14 (56)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
75		C14 (60) -S1	-----	-----	-----	-----	-----	-----	
76		C14 (60)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
77		C15 (101)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
78	i	C16 (161)	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000	
79		C15 (99)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064	
80		C15 (83)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
81		C15 (125)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
82		C15 (97)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
83		C15 (87)	0.00249	0.00997	0.01994	0.03988	0.07976	0.31904	
84		C16 (136)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
85		C15 (115)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
86		C16 (154)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
87		C15 (85) -S1	-----	-----	-----	-----	-----	-----	
88		C15 (85)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
89		C15 (110)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032	
90		C14 (81)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
91		C15 (82) -S1	-----	-----	-----	-----	-----	-----	
92		C15 (82)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
93		C16 (151)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064	
94		C16 (135)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
95		C14 (77) -S2	-----	-----	-----	-----	-----	-----	
96	P4	C14 (77)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
97		C16 (144)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
98		C16 (149)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
99		C16 (139)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
100		C15 (124) -S1	-----	-----	-----	-----	-----	-----	
101		C15 (124)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
102		C16 (140)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
103		C15 (123)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
104		C16 (134)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
105	P7	C17 (188)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
106		C15 (118) -S1	-----	-----	-----	-----	-----	-----	
107		C15 (118) -S2	-----	-----	-----	-----	-----	-----	
108		C15 (118)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064	
109		C16 (131)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
110		C17 (184)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
111		C16 (146)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
112		C15 (114) -S1	-----	-----	-----	-----	-----	-----	
113		C15 (114)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
114	S	C16 (152)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
115		C16 (153)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
116		C17 (179)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
117		C15 (105) -S1	-----	-----	-----	-----	-----	-----	
118		C15 (105)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032	
119		C16 (141)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
120		C17 (176)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
121		C16 (127) -S1	-----	-----	-----	-----	-----	-----	
122		C15 (127)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
123		C16 (137)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
124		C16 (130)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
125		C16 (164)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
126		C16 (138)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
127		C16 (163) -S1	-----	-----	-----	-----	-----	-----	
128		C16 (163)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
129		C17 (178)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
130		C16 (158)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
131		C17 (175)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
132		C17 (187)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
133		C16 (166) -S1	-----	-----	-----	-----	-----	-----	
134		C16 (166)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160	
135		C17 (183)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
136	P5	C15 (126)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
137		C16 (128) -S1	-----	-----	-----	-----	-----	-----	

138		Cl6(128)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
139		Cl7(185)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
140		Cl7(174)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
141		Cl6(167)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
142	P8	Cl8(202)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
143		Cl7(177)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
144		Cl8(201)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032
145		Cl7(171) -S1	-----	-----	-----	-----	-----	-----
146		Cl7(171)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160
147		Cl7(173)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
148		Cl8(197)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
149		Cl6(156) -S1	-----	-----	-----	-----	-----	-----
150		Cl6(156)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
151		Cl7(172)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
152		Cl6(157)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160
153		Cl7(180)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
154		Cl7(193) -S1	-----	-----	-----	-----	-----	-----
155		Cl7(193)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
156		Cl8(200)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
157		Cl7(191)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
158		Cl7(170) -S1	-----	-----	-----	-----	-----	-----
159		Cl7(170)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160
160		Cl8(198)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
161		Cl8(199)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
162		Cl7(190)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
163		Cl6(169) -S2	-----	-----	-----	-----	-----	-----
164	P6	Cl6(169)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
165		Cl8(203)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
166	P9	Cl9(208)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
167	P7	Cl7(189)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
168		Cl9(207)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
169		Cl8(195) -S1	-----	-----	-----	-----	-----	-----
170		Cl8(195)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
171		Cl8(194)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
172	P8	Cl8(205)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
173	P9	Cl9(206)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
174		Cl10(209)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064

Standards Loaded From LIMS

Solution ID : ID13 - 315 Curve Level 1
 Last Updated : 8/21/2014 4:00:06 PM
 Create Date : Jul 25 2014 12:00AM DMS
 Expire Date : 6/30/2015
 Approval Date: Not Approved
 Override Date: No Override

Solution ID : ID15 - 315 Curve Level 3
 Last Updated : 8/21/2014 4:00:06 PM
 Create Date : Jul 25 2014 12:00AM DMS
 Expire Date : 6/30/2015
 Approval Date: Not Approved
 Override Date: No Override

Solution ID : ID16 - 315 Curve Level 4
 Last Updated : 8/21/2014 4:00:06 PM
 Create Date : Jul 25 2014 12:00AM DMS
 Expire Date : 6/30/2015
 Approval Date: Not Approved
 Override Date: No Override

Solution ID : ID17 - 315 Curve Level 5
 Last Updated : 8/21/2014 4:00:07 PM
 Create Date : Jul 25 2014 12:00AM DMS
 Expire Date : 6/30/2015
 Approval Date: Not Approved
 Override Date: No Override

Solution ID : ID18 - 315 Curve Level 6
 Last Updated : 8/21/2014 4:00:07 PM

Create Date : Jul 25 2014 12:00AM DMS
Expire Date : 6/30/2015
Approval Date: Not Approved
Override Date: No Override

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Solution ID : ID20 - 315 Curve Level 8
Last Updated : 8/21/2014 4:00:07 PM
Create Date : Jul 25 2014 12:00AM DMS
Expire Date : 6/30/2015
Approval Date: Not Approved
Override Date: No Override

Data File : G:\F\DATA\SF0782\F9118.D

Acq On : 11 Feb 2015 4:55 pm

Sample : ID13

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 3

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:29:54 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 12 09:56:03 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	76486m	0.1000	ng
78) Cl6(161)	25.73t	360	59889m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	15.29tw	255	142	0.0000	ng
27) Cl3(34)		15.28tw	256	2430m	0.0036	ng
Spiked Amount	0.0025				Recovery	= 144.00%
Corrected Values:				2411	0.0036	ng
114) Cl6(152)		22.40	360	1447	0.0018	ng
Spiked Amount	0.0025				Recovery	= 71.71%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	7097m	0.0030	ng
3) Cl1(1)		9.93	188	4751m	0.0029	ng
4) Cl1(3)		11.13	188	4361m	0.0031	ng
5) Cl2(4)		11.42	222	2314m	0.0029	ng
6) Cl2(7)		12.30	222	3201m	0.0026	ng
7) Cl2(9)		12.26	222	3827m	0.0035	ng
8) Cl2(6)		12.55	222	3586	0.0031	ng
9) Cl2(5)		12.76	222	3540m	0.0027	ng
10) Cl2(8)		12.83	222	4026m	0.0029	ng
11) Cl3(19)		13.30	256	1501	0.0026	ng
12) Cl3(30)		13.70	256	2265	0.0031	ng
13) Cl2(11)-S1	(0.135)	14.15t	221	881	No Calib	#
14) Cl2(11)		14.13	222	3345	0.0032	ng
Corrected Values:				3226	0.0031	ng
15) Cl3(18)		14.15t	256	1627m	0.0035	ng
16) Cl3(17)		14.26	256	1742m	0.0031	ng
17) Cl2(12)		14.35	222	3571m	0.0041	ng
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		14.49tw	222	3102m	0.0037	ng
Corrected Values:				3102	0.0037	ng
20) Cl3(27)		14.50tw	256	2310m	0.0034	ng
21) Cl3(24)		14.63	256	2256m	0.0030	ng
22) Cl3(16)		14.83	256	1360m	0.0033	ng
23) Cl2(15)		14.88	222	3757m	0.0034	ng
24) Cl3(32)		14.95	256	2213m	0.0028	ng
25) Cl4(54)		15.30tw	292	2619	0.0030	ng
28) Cl3(29)		15.52	256	2341	0.0036	ng
29) Cl3(26)-S1	(0.135)	15.87t	255	580	No Calib	
30) Cl3(26)		15.82	256	2604m	0.0041	ng
Corrected Values:				2526	0.0040	ng
31) Cl4(50)		15.87t	292	1609	0.0032	ng
32) Cl3(25)		15.95	256	2305m	0.0040	ng
33) Cl3(31)-S1	(0.135)	16.32t	255	647	No Calib	
34) Cl3(31)		16.29	256	2477m	0.0034	ng
Corrected Values:				2390	0.0033	ng
35) Cl4(53)		16.32t	292	1619	0.0032	ng
36) Cl3(28)		16.40	256	2335m	0.0032	ng
37) Cl3(33)		16.50	256	2311m	0.0038	ng
38) Cl4(51)		16.59	292	1703m	0.0035	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9118.D MF0782.M Mon Mar 02 14:03:53 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9118.D

Acq On : 11 Feb 2015 4:55 pm

Sample : ID13

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 3

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:29:54 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 12 09:56:03 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
39) Cl4(45)		16.91	292	1279	0.0030	ng
40) Cl3(22)		16.99	256	2203m	0.0040	ng
41) Cl4(46)		17.18	292	1244	0.0031	ng #
42) Cl4(43)		17.56	292	1364m	0.0039	ng
43) Cl4(52)		17.63	292	1581m	0.0032	ng
44) Cl4(48)		17.78	292	1817m	0.0033	ng
45) Cl4(49)		17.84	292	1564m	0.0041	ng
46) Cl5(104)		18.02tw	326	2808m	0.0043	ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.	
48) Cl4(47)		18.03tw	292	2023m	0.0034	ng
Corrected Values:				2023	0.0034	ng
49) Cl4(75)		18.10	292	2213m	0.0032	ng
50) Cl4(44)		18.46	292	1418m	0.0032	ng
51) Cl4(42)		18.68	292	1451m	0.0035	ng
52) Cl4(71)		18.90	292	2169m	0.0042	ng
53) Cl4(41)		19.00	292	1195m	0.0034	ng
54) Cl4(64)		19.29	292	2167m	0.0036	ng
55) Cl4(40)		19.35t	292	1253m	0.0036	ng
56) Cl3(37)-S1	(0.135)	19.38	255	737	No Calib	
57) Cl3(37)		19.35t	256	2468	0.0042	ng
Corrected Values:				2369	0.0040	ng
58) Cl5(100)		19.71	326	1513	0.0036	ng
59) Cl4(67)		20.01	292	2048	0.0038	ng #
60) Cl4(63)		20.40	292	1862	0.0038	ng
61) Cl5(95)		20.55	326	1239	0.0037	ng
62) Cl4(74)		20.61	292	2108m	0.0039	ng
63) Cl4(70)		20.74	292	2223m	0.0037	ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.	
65) Cl5(91)		20.92tw	326	1384	0.0038	ng
Corrected Values:				1384	0.0038	ng
66) Cl4(66)-S1	(0.174)	20.93tw	289	431	No Calib	
67) Cl4(66)-S2	(0.650)	20.99tw	288	668	No Calib	
68) Cl4(66)		20.95	292	2356	0.0043	ng
Corrected Values:				1847	0.0036	ng
69) Cl6(155)		21.00tw	360	1714	0.0038	ng
70) Cl4(80)		21.26	292	1969	0.0037	ng #
71) Cl5(92)		21.55t	326	1199m	0.0027	ng
72) Cl5(84)		21.57	326	1190m	0.0027	ng
73) Cl4(56)-S1	(0.174)	21.55t	289	739	No Calib	
74) Cl4(56)		21.59	292	2157	0.0041	ng
Corrected Values:				2028	0.0039	ng
75) Cl4(60)-S1	(0.174)	21.84	289	288	No Calib	
76) Cl4(60)		21.86t	292	1987	0.0039	ng
Corrected Values:				1937	0.0038	ng
77) Cl5(101)		21.86t	326	1469	0.0037	ng
79) Cl5(99)		22.13	326	1494	0.0030	ng
80) Cl5(83)		22.52	326	1084m	0.0020	ng
81) Cl5(125)		22.67	326	1810m	0.0029	ng
82) Cl5(97)		22.80	326	1195	0.0027	ng #
83) Cl5(87)		23.26	326	1295	0.0027	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9118.D MF0782.M Mon Mar 02 14:03:54 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9118.D

Acq On : 11 Feb 2015 4:55 pm

Sample : ID13

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 3

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:29:54 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 12 09:56:03 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	
84) Cl6(136)		23.35	360	1753	0.0023	ng	
85) Cl5(115)		23.46	326	1585	0.0032	ng	
86) Cl6(154)		23.53	360	1238	0.0033	ng	
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.		
88) Cl5(85)		23.51	326	1449m	0.0016	ng	
Corrected Values:				1449	0.0016	ng	
89) Cl5(110)		23.78	326	1933	0.0034	ng	
90) Cl4(81)		23.88	292	1709	0.0037	ng	
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.		
92) Cl5(82)		24.22tw	326	1154	0.0032	ng	
Corrected Values:				1154	0.0032	ng	
93) Cl6(151)		24.21tw	360	1024	0.0033	ng	#
94) Cl6(135)		24.32	360	1072m	0.0030	ng	
95) Cl4(77)-S2	(0.650)	24.46t	288	552	No Calib		
96) Cl4(77)		24.40	292	2237	0.0040	ng	
Corrected Values:				1878	0.0035	ng	
97) Cl6(144)		24.46t	360	1084	0.0031	ng	
98) Cl6(149)		24.68	360	1128m	0.0029	ng	
99) Cl6(139)		24.81	360	1285m	0.0036	ng	
100) Cl5(124)-S1	(0.220)	24.90tw	323	175	No Calib		
101) Cl5(124)		24.84	326	1854	0.0036	ng	
Corrected Values:				1815	0.0035	ng	
102) Cl6(140)		24.91tw	360	1165	0.0033	ng	
103) Cl5(123)		25.05	326	1725	0.0033	ng	
104) Cl6(134)		25.15	360	940	0.0038	ng	#
105) Cl7(188)		25.25t	394	1426	0.0038	ng	
106) Cl5(118)-S1	(0.220)	25.32tw	323	316	No Calib		
107) Cl5(118)-S2	(1.080)	25.25t	322	430	No Calib		
108) Cl5(118)		25.27	326	2354	0.0041	ng	
Corrected Values:				1820	0.0034	ng	
109) Cl6(131)		25.31tw	360	962	0.0030	ng	
110) Cl7(184)		25.55	394	1331	0.0029	ng	
111) Cl6(146)		25.63	360	1128	0.0034	ng	#
112) Cl5(114)-S1	(0.220)	25.73t	323e	609	No Calib		
113) Cl5(114)		25.66	326	1880m	0.0036	ng	
Corrected Values:				1746	0.0034	ng	
115) Cl6(153)		25.88	360	1284	0.0030	ng	
116) Cl7(179)		26.11	394	1239	0.0031	ng	
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.	d	
118) Cl5(105)		26.22	326	1677	0.0031	ng	
Corrected Values:				1677	0.0031	ng	
119) Cl6(141)		26.27	360	1111m	0.0041	ng	
120) Cl7(176)		26.37	394	1192m	0.0031	ng	
121) Cl6(127)-S1	(0.265)	26.51tw	323	537	No Calib		
122) Cl5(127)		26.50tw	326	2451	0.0041	ng	
123) Cl6(137)		26.49tw	360	1072m	0.0038	ng	
124) Cl6(130)		26.63	360	882m	0.0019	ng	
125) Cl6(164)		26.68	360	1611m	0.0028	ng	
126) Cl6(138)		26.82	360	1098m	0.0030	ng	
127) Cl6(163)-S1	(0.265)	26.92t	357	226	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9118.D MF0782.M Mon Mar 02 14:03:54 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9118.D

Acq On : 11 Feb 2015 4:55 pm

Sample : ID13

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 3

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:29:54 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 12 09:56:03 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	1342m	0.0022 ng
Corrected Values:				1282	0.0021 ng
129) Cl7(178)		26.92t	394	924	0.0038 ng
130) Cl6(158)		26.96	360	1497	0.0034 ng
131) Cl7(175)		27.10	394	894m	0.0030 ng
132) Cl7(187)		27.18	394	997m	0.0036 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		27.35t	360	1404	0.0037 ng
Corrected Values:				1404	0.0037 ng
135) Cl7(183)		27.35t	394	1009m	0.0038 ng
136) Cl5(126)		27.51	326	1590	0.0035 ng
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.67	360	1111	0.0039 ng
Corrected Values:				1111	0.0039 ng
139) Cl7(185)		27.70	394	864	0.0036 ng
140) Cl7(174)		27.81	394	956m	0.0042 ng
141) Cl6(167)		27.90	360	1396m	0.0038 ng
142) Cl8(202)		27.98	428	1077m	0.0034 ng
143) Cl7(177)		28.08	394	861m	0.0041 ng
144) Cl8(201)		28.20tw	428	1069	0.0042 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.21tw	394	872m	0.0033 ng
Corrected Values:				872	0.0033 ng
147) Cl7(173)		28.30	394	873m	0.0040 ng
148) Cl8(197)		28.42	428	990	0.0038 ng
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.51	360	1553m	0.0044 ng
Corrected Values:				1553	0.0044 ng
151) Cl7(172)		28.54	394	834	0.0041 ng
152) Cl6(157)		28.61	360	1525	0.0047 ng
153) Cl7(180)		28.75	394	1014m	0.0040 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.79	394	1327m	0.0042 ng
Corrected Values:				1327	0.0042 ng
156) Cl8(200)		28.83	428	1000	0.0041 ng
157) Cl7(191)		28.92	394	1377	0.0045 ng
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		29.45	394	1017	0.0039 ng
Corrected Values:				1017	0.0039 ng
160) Cl8(198)		29.49	428	766m	0.0030 ng
161) Cl8(199)		29.51	428	730m	0.0063 ng
162) Cl7(190)		29.57	394	1162	0.0043 ng
163) Cl6(169)-S2	(1.610)	29.69tw	356	541	No Calib
164) Cl6(169)		29.65	360	1723m	0.0071 ng
Corrected Values:				852	0.0040 ng
165) Cl8(203)		29.70tw	428	787m	0.0042 ng
166) Cl9(208)		30.20	464	1016m	0.0045 ng
167) Cl7(189)		30.33	394	1303m	0.0051 ng
168) Cl9(207)		30.39	464	1084	0.0053 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9118.D MF0782.M Mon Mar 02 14:03:55 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9118.D
Acq On : 11 Feb 2015 4:55 pm
Sample : ID13
Misc : 5-315 ICAL
MS Integration Params: rteint.p

Vial: 3
Operator: RR/BL
Inst : Inst. F
Multiplr: 1.00

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Quant Time: Feb 13 14:29:54 2015 Quant Results File: MF0782.RES
Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Thu Feb 12 09:56:03 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.41	428	821	0.0042 ng
Corrected Values:				821	0.0042 ng
171) Cl8(194)		30.89	428	846	0.0053 ng
172) Cl8(205)		31.05	428	986	0.0057 ng
173) Cl9(206)		31.55	464	785m	0.0057 ng
174) Cl10(209)		32.06	498	880m	0.0064 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9118.D MF0782.M Mon Mar 02 14:03:55 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0782\F9120.D

Acq On : 11 Feb 2015 6:31 pm

Sample : ID15

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 5

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:30:45 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:29:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	70127m	0.1000	ng
78) Cl6(161)	25.73tw	360	54955m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	15.30t	255	558	0.0000	ng
27) Cl3(34)		15.29tw	256	8207m	0.0108	ng
Spiked Amount	0.0100			Recovery	=	107.00%
Corrected Values:				8132	0.0107	ng
114) Cl6(152)		22.42	360	5479m	0.0087	ng
Spiked Amount	0.0100			Recovery	=	86.65%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	24092m	0.0120	ng
3) Cl1(1)		9.93	188	17629m	0.0118	ng
4) Cl1(3)		11.13	188	16521m	0.0118	ng
5) Cl2(4)		11.42	222	8061m	0.0110	ng
6) Cl2(7)		12.31	222	11501m	0.0125	ng
7) Cl2(9)		12.26	222	14054m	0.0104	ng
8) Cl2(6)		12.54	222	13279	0.0113	ng
9) Cl2(5)		12.76	222	12540m	0.0105	ng
10) Cl2(8)		12.84	222	14189m	0.0124	ng
11) Cl3(19)		13.30	256	5308	0.0100	ng
12) Cl3(30)		13.70	256	8498	0.0107	ng
13) Cl2(11)-S1	(0.135)	14.14tw	221	2959	No Calib	
14) Cl2(11)		14.13tw	222	12831m	0.0121	ng
Corrected Values:				12432	0.0118	ng
15) Cl3(18)		14.15tw	256	5989m	0.0105	ng
16) Cl3(17)		14.26	256	5910m	0.0104	ng
17) Cl2(12)		14.35	222	11944m	0.0114	ng
18) Cl2(13)-S1	(0.135)	14.50tw	221	404	No Calib	
19) Cl2(13)		14.49tw	222	11133m	0.0113	ng
Corrected Values:				11078	0.0112	ng
20) Cl3(27)		14.51tw	256	8432m	0.0104	ng
21) Cl3(24)		14.63	256	8224m	0.0108	ng
22) Cl3(16)		14.83	256	4869m	0.0108	ng
23) Cl2(15)		14.88	222	12956m	0.0108	ng
24) Cl3(32)		14.96	256	8513m	0.0104	ng
25) Cl4(54)		15.30t	292	8572m	0.0102	ng
28) Cl3(29)		15.51	256	8359m	0.0111	ng
29) Cl3(26)-S1	(0.135)	15.86	255	2067	No Calib	
30) Cl3(26)		15.83	256	9365m	0.0115	ng
Corrected Values:				9086	0.0112	ng
31) Cl4(50)		15.88	292	5681m	0.0102	ng
32) Cl3(25)		15.95	256	8532m	0.0117	ng
33) Cl3(31)-S1	(0.135)	16.32t	255	1797	No Calib	
34) Cl3(31)		16.29	256	9406m	0.0108	ng
Corrected Values:				9163	0.0106	ng
35) Cl4(53)		16.32t	292	5771m	0.0102	ng
36) Cl3(28)		16.40	256	8698m	0.0104	ng
37) Cl3(33)		16.50	256	8138m	0.0116	ng
38) Cl4(51)		16.59	292	6102m	0.0107	ng

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(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9120.D MF0782.M Mon Mar 02 14:04:07 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9120.D
 Acq On : 11 Feb 2015 6:31 pm
 Sample : ID15
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 5
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 13 14:30:45 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 13 14:29:52 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.92	292	5024m	0.0107 ng
40) Cl3(22)		17.00	256	7815m	0.0109 ng
41) Cl4(46)		17.18	292	4591m	0.0107 ng
42) Cl4(43)		17.56	292	4759m	0.0100 ng
43) Cl4(52)		17.62	292	5623m	0.0114 ng
44) Cl4(48)		17.76	292	5596m	0.0095 ng
45) Cl4(49)		17.83	292	5431m	0.0117 ng
46) Cl5(104)		18.02tw	326	7755m	0.0112 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.03tw	292	6810m	0.0099 ng
Corrected Values:				6810	0.0099 ng
49) Cl4(75)		18.10	292	7932m	0.0114 ng
50) Cl4(44)		18.46	292	5213m	0.0109 ng
51) Cl4(42)		18.67	292	5039m	0.0108 ng
52) Cl4(71)		18.89	292	7495m	0.0112 ng
53) Cl4(41)		19.00	292	4410m	0.0114 ng
54) Cl4(64)		19.28	292	7835m	0.0106 ng
55) Cl4(40)		19.37tw	292	4261m	0.0115 ng
56) Cl3(37)-S1	(0.135)	19.36tw	255	2441	No Calib
57) Cl3(37)		19.35tw	256	8317	0.0111 ng
Corrected Values:				7987	0.0107 ng
58) Cl5(100)		19.72	326	5316	0.0110 ng
59) Cl4(67)		20.01	292	7345m	0.0114 ng
60) Cl4(63)		20.40	292	6898	0.0113 ng
61) Cl5(95)		20.54	326	4347	0.0105 ng
62) Cl4(74)		20.61	292	7717m	0.0109 ng
63) Cl4(70)		20.75	292	7765m	0.0115 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.91tw	326	5275	0.0111 ng
Corrected Values:				5275	0.0111 ng
66) Cl4(66)-S1	(0.174)	20.92tw	289	1357	No Calib
67) Cl4(66)-S2	(0.650)	20.99t	288	2352	No Calib
68) Cl4(66)		20.94	292	9109m	0.0135 ng
Corrected Values:				7344	0.0112 ng
69) Cl6(155)		20.99t	360	6332m	0.0108 ng
70) Cl4(80)		21.26	292	7271	0.0112 ng
71) Cl5(92)		21.56T	326	4742m	0.0106 ng
72) Cl5(84)		21.56T	326	4106m	0.0115 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	2756	No Calib
74) Cl4(56)		21.60	292	7695m	0.0115 ng
Corrected Values:				7215	0.0109 ng
75) Cl4(60)-S1	(0.174)	21.85t	289	595	No Calib
76) Cl4(60)		21.86tw	292	7058	0.0110 ng
Corrected Values:				6954	0.0109 ng
77) Cl5(101)		21.85t	326	5425m	0.0111 ng
79) Cl5(99)		22.12	326	5298	0.0103 ng
80) Cl5(83)		22.52	326	3871m	0.0082 ng
81) Cl5(125)		22.65	326	6085m	0.0095 ng
82) Cl5(97)		22.81	326	4651m	0.0104 ng
83) Cl5(87)		23.27	326	4419	0.0099 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9120.D MF0782.M Mon Mar 02 14:04:08 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9120.D

Acq On : 11 Feb 2015 6:31 pm

Sample : ID15

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 5

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:30:45 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:29:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	5525	0.0096 ng
85) Cl5(115)		23.46	326	6682m	0.0097 ng
86) Cl6(154)		23.53tw	360	4719	0.0102 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.52tw	326	4305m	0.0082 ng
Corrected Values:				4305	0.0082 ng
89) Cl5(110)		23.77	326	6688	0.0108 ng
90) Cl4(81)		23.88	292	6527	0.0104 ng
91) Cl5(82)-S1	(0.220)	24.21tw	323	822	No Calib
92) Cl5(82)		24.22t	326	4329	0.0108 ng
Corrected Values:				4148	0.0104 ng
93) Cl6(151)		24.22t	360	3990m	0.0102 ng
94) Cl6(135)		24.32	360	4081m	0.0108 ng
95) Cl4(77)-S2	(0.650)	24.46tw	288	2337	No Calib
96) Cl4(77)		24.42	292	8030	0.0124 ng
Corrected Values:				6511	0.0103 ng
97) Cl6(144)		24.45tw	360	3971m	0.0100 ng
98) Cl6(149)		24.68	360	4462m	0.0107 ng
99) Cl6(139)		24.80	360	4400m	0.0109 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	770	No Calib
101) Cl5(124)		24.84	326	6777m	0.0104 ng
Corrected Values:				6608	0.0102 ng
102) Cl6(140)		24.90t	360	4073	0.0102 ng
103) Cl5(123)		25.04	326	6128m	0.0107 ng
104) Cl6(134)		25.15	360	3308	0.0105 ng
105) Cl7(188)		25.25t	394	4655	0.0103 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	947	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	1514	No Calib
108) Cl5(118)		25.27	326	8228	0.0131 ng
Corrected Values:				6385	0.0103 ng
109) Cl6(131)		25.31t	360	3574	0.0096 ng
110) Cl7(184)		25.55	394	4881	0.0106 ng
111) Cl6(146)		25.62	360	4190m	0.0099 ng
112) Cl5(114)-S1	(0.220)	25.72tw	323e	657	No Calib
113) Cl5(114)		25.65	326	6200m	0.0102 ng
Corrected Values:				6055	0.0100 ng
115) Cl6(153)		25.88	360	4632	0.0103 ng
116) Cl7(179)		26.11	394	4443m	0.0106 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	557	No Calib
118) Cl5(105)		26.23	326	6050	0.0108 ng
Corrected Values:				5927	0.0106 ng
119) Cl6(141)		26.27t	360	3639m	0.0109 ng
120) Cl7(176)		26.38	394	4366m	0.0105 ng
121) Cl6(127)-S1	(0.265)	26.48tw	323	682	No Calib
122) Cl5(127)		26.50tw	326	6889m	0.0107 ng
123) Cl6(137)		26.49tw	360	3871m	0.0109 ng
124) Cl6(130)		26.63	360	3485m	0.0079 ng
125) Cl6(164)		26.68	360	5499m	0.0104 ng
126) Cl6(138)		26.82	360	4668m	0.0098 ng
127) Cl6(163)-S1	(0.265)	26.92tw	357	674	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9120.D MF0782.M Mon Mar 02 14:04:08 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9120.D

Acq On : 11 Feb 2015 6:31 pm

Sample : ID15

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 5

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:30:45 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:29:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	5133m	0.0105 ng
Corrected Values:				4954	0.0101 ng
129) Cl7(178)		26.91tw	394	3302	0.0106 ng
130) Cl6(158)		26.96	360	5583m	0.0105 ng
131) Cl7(175)		27.10	394	3446m	0.0105 ng
132) Cl7(187)		27.18	394	3751m	0.0109 ng
133) Cl6(166) -S1	(0.265)	27.35t	357	284	No Calib
134) Cl6(166)		27.35t	360	5175	0.0108 ng
Corrected Values:				5100	0.0106 ng
135) Cl7(183)		27.35t	394	3395	0.0105 ng
136) Cl5(126)		27.51	326	5476	0.0107 ng
137) Cl6(128) -S1	(0.265)	27.70t	357	405	No Calib
138) Cl6(128)		27.67	360	3598	0.0105 ng
Corrected Values:				3491	0.0103 ng
139) Cl7(185)		27.70t	394	3177m	0.0111 ng
140) Cl7(174)		27.81	394	3181m	0.0113 ng
141) Cl6(167)		27.89	360	5289m	0.0115 ng
142) Cl8(202)		27.98	428	3649	0.0109 ng
143) Cl7(177)		28.08	394	3230	0.0120 ng
144) Cl8(201)		28.21t	428	3743m	0.0116 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.21t	394	3433m	0.0110 ng
Corrected Values:				3433	0.0110 ng
147) Cl7(173)		28.30	394	3042m	0.0121 ng
148) Cl8(197)		28.42	428	3708	0.0120 ng
149) Cl6(156) -S1	(0.265)	28.54tw	357	574	No Calib
150) Cl6(156)		28.51	360	5396m	0.0122 ng
Corrected Values:				5244	0.0119 ng
151) Cl7(172)		28.55tw	394	2919	0.0111 ng
152) Cl6(157)		28.60	360	4891	0.0116 ng
153) Cl7(180)		28.74	394	3736m	0.0119 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.79	394	4138m	0.0113 ng
Corrected Values:				4138	0.0113 ng
156) Cl8(200)		28.83	428	3684	0.0119 ng
157) Cl7(191)		28.91	394	4422	0.0118 ng
158) Cl7(170) -S1	(0.309)	29.51t	391	735	No Calib
159) Cl7(170)		29.45	394	3336	0.0129 ng
Corrected Values:				3109	0.0121 ng
160) Cl8(198)		29.48	428	3066m	0.0137 ng
161) Cl8(199)		29.51t	428	2054m	0.0115 ng
162) Cl7(190)		29.57	394	4501m	0.0130 ng
163) Cl6(169) -S2	(1.610)	29.69t	356	1197	No Calib
164) Cl6(169)		29.65	360	6106	0.0238 ng
Corrected Values:				4179	0.0168 ng
165) Cl8(203)		29.69t	428	2834m	0.0125 ng
166) Cl9(208)		30.20	464	3310	0.0150 ng
167) Cl7(189)		30.33	394	4084m	0.0142 ng
168) Cl9(207)		30.39tw	464	3469	0.0140 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9120.D MF0782.M Mon Mar 02 14:04:09 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9120.D
 Acq On : 11 Feb 2015 6:31 pm
 Sample : ID15
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 5
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 13 14:30:45 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 13 14:29:52 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	2628	0.0121 ng
Corrected Values:				2628	0.0121 ng
171) Cl8(194)		30.89	428	2578	0.0158 ng
172) Cl8(205)		31.05	428	3499m	0.0144 ng
173) Cl9(206)		31.54	464	2392m	0.0168 ng
174) Cl10(209)		32.06	498	2883m	0.0195 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9120.D MF0782.M Mon Mar 02 14:04:09 2015 040221CFS

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Data File : G:\F\DATA\SF0782\F9121.D

Vial: 6

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Acq On : 11 Feb 2015 7:19 pm

Operator: RR/BL

Sample : ID16

Inst : Inst. F

Misc : 5-315 ICAL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 13 14:31:34 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:30:42 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	80342m	0.1000	ng
78) Cl6(161)	25.73tw	360	63025m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	1389m	0.0000	ng
27) Cl3(34)	15.29t	256	18956m	0.0209	ng
Spiked Amount	0.0200			Recovery	= 103.50%
Corrected Values:			18768	0.0207	ng
114) Cl6(152)	22.42	360	12604m	0.0178	ng
Spiked Amount	0.0201			Recovery	= 88.65%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.75	154	53188	0.0234	ng
3) Cl1(1)	9.93	188	38775m	0.0226	ng
4) Cl1(3)	11.13	188	36735m	0.0227	ng
5) Cl2(4)	11.42	222	18818m	0.0225	ng
6) Cl2(7)	12.31	222	27154m	0.0266	ng
7) Cl2(9)	12.26	222	31897m	0.0195	ng
8) Cl2(6)	12.54	222	29739m	0.0218	ng
9) Cl2(5)	12.76	222	28307m	0.0206	ng
10) Cl2(8)	12.84	222	31718m	0.0245	ng
11) Cl3(19)	13.30	256	12151m	0.0201	ng
12) Cl3(30)	13.70	256	19119m	0.0205	ng
13) Cl2(11)-S1 (0.135)	14.15t	221	6824	No Calib	
14) Cl2(11)	14.13	222	28901m	0.0234	ng
Corrected Values:			27980	0.0226	ng
15) Cl3(18)	14.15t	256	13735m	0.0199	ng
16) Cl3(17)	14.27	256	13910m	0.0209	ng
17) Cl2(12)	14.35	222	27164m	0.0213	ng
18) Cl2(13)-S1 (0.135)	14.50t	221	830	No Calib	
19) Cl2(13)	14.49tw	222	26275m	0.0221	ng
Corrected Values:			26163	0.0220	ng
20) Cl3(27)	14.50t	256	19150m	0.0197	ng
21) Cl3(24)	14.62	256	18759m	0.0211	ng
22) Cl3(16)	14.83	256	10635m	0.0198	ng
23) Cl2(15)	14.88	222	29365m	0.0207	ng
24) Cl3(32)	14.95	256	19303m	0.0201	ng
25) Cl4(54)	15.30tw	292	19468m	0.0201	ng
28) Cl3(29)	15.51	256	18393	0.0204	ng
29) Cl3(26)-S1 (0.135)	15.86	255	4158	No Calib	
30) Cl3(26)	15.83	256	20874m	0.0209	ng
Corrected Values:			20313	0.0204	ng
31) Cl4(50)	15.88	292	13042	0.0197	ng
32) Cl3(25)	15.95	256	19441m	0.0218	ng
33) Cl3(31)-S1 (0.135)	16.32t	255	4435	No Calib	
34) Cl3(31)	16.29	256	20882m	0.0200	ng
Corrected Values:			20283	0.0195	ng
35) Cl4(53)	16.32t	292	13763m	0.0205	ng
36) Cl3(28)	16.40	256	20079m	0.0201	ng
37) Cl3(33)	16.50	256	18540m	0.0220	ng
38) Cl4(51)	16.59	292	13566m	0.0198	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9121.D MF0782.M Mon Mar 02 14:04:12 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9121.D

Acq On : 11 Feb 2015 7:19 pm

Sample : ID16

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 6

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:31:34 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:30:42 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.92	292	11487m	0.0206 ng
40) Cl3(22)		16.99	256	18060m	0.0203 ng
41) Cl4(46)		17.18	292	10503m	0.0207 ng
42) Cl4(43)		17.56	292	10670m	0.0180 ng
43) Cl4(52)		17.62	292	12615m	0.0218 ng
44) Cl4(48)		17.78	292	12655m	0.0181 ng
45) Cl4(49)		17.83	292	12621m	0.0225 ng
46) Cl5(104)		18.02t	326	16014	0.0195 ng
47) Cl4(47)-S1	(0.174)	18.02t	289	537	No Calib
48) Cl4(47)		18.02t	292	15644m	0.0190 ng
Corrected Values:				15551	0.0189 ng
49) Cl4(75)		18.10	292	18780m	0.0230 ng
50) Cl4(44)		18.47	292	12130m	0.0214 ng
51) Cl4(42)		18.68	292	11632m	0.0208 ng
52) Cl4(71)		18.90	292	17030m	0.0206 ng
53) Cl4(41)		19.00	292	10004m	0.0218 ng
54) Cl4(64)		19.29	292	17789m	0.0198 ng
55) Cl4(40)		19.37	292	9834m	0.0223 ng
56) Cl3(37)-S1	(0.135)	19.35t	255	5642	No Calib
57) Cl3(37)		19.35t	256	18766	0.0204 ng
Corrected Values:				18004	0.0196 ng
58) Cl5(100)		19.72	326	12457	0.0214 ng
59) Cl4(67)		20.01	292	16881	0.0217 ng
60) Cl4(63)		20.41	292	16837m	0.0226 ng
61) Cl5(95)		20.55	326	10468m	0.0206 ng
62) Cl4(74)		20.61	292	17742m	0.0202 ng
63) Cl4(70)		20.75	292	17534m	0.0218 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.93tw	326	11764	0.0201 ng
Corrected Values:				11764	0.0201 ng
66) Cl4(66)-S1	(0.174)	20.92tw	289	3233	No Calib
67) Cl4(66)-S2	(0.650)	20.99t	288	5593	No Calib
68) Cl4(66)		20.94tw	292	21450m	0.0262 ng
Corrected Values:				17252	0.0214 ng
69) Cl6(155)		20.99t	360	14472m	0.0200 ng
70) Cl4(80)		21.26	292	16497m	0.0209 ng
71) Cl5(92)		21.55Tw	326	10446m	0.0201 ng
72) Cl5(84)		21.56Tw	326	9544m	0.0236 ng
73) Cl4(56)-S1	(0.174)	21.57tw	289	6000	No Calib
74) Cl4(56)		21.60	292	17833m	0.0218 ng
Corrected Values:				16789	0.0206 ng
75) Cl4(60)-S1	(0.174)	21.84tw	289	1548	No Calib
76) Cl4(60)		21.86tw	292	16980m	0.0216 ng
Corrected Values:				16711	0.0212 ng
77) Cl5(101)		21.85tw	326	12400m	0.0208 ng
79) Cl5(99)		22.12	326	12653m	0.0210 ng
80) Cl5(83)		22.51	326	9020m	0.0169 ng
81) Cl5(125)		22.66	326	14615m	0.0194 ng
82) Cl5(97)		22.80	326	10180m	0.0196 ng
83) Cl5(87)		23.26	326	10438	0.0203 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9121.D MF0782.M Mon Mar 02 14:04:13 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9121.D

Acq On : 11 Feb 2015 7:19 pm

Sample : ID16

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 6

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:31:34 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:30:42 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	12258	0.0191 ng
85) Cl5(115)		23.46	326	14476m	0.0172 ng
86) Cl6(154)		23.53	360	11009m	0.0197 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.50	326	12112m	0.0219 ng
Corrected Values:				12112	0.0219 ng
89) Cl5(110)		23.77	326	14905m	0.0203 ng
90) Cl4(81)		23.88	292	15351m	0.0197 ng
91) Cl5(82)-S1	(0.220)	24.22tw	323	1841	No Calib
92) Cl5(82)		24.23t	326	9764	0.0205 ng
Corrected Values:				9359	0.0197 ng
93) Cl6(151)		24.23t	360	9115m	0.0191 ng
94) Cl6(135)		24.32	360	9092m	0.0204 ng
95) Cl4(77)-S2	(0.650)	24.44tw	288	5185	No Calib
96) Cl4(77)		24.41	292	18672m	0.0239 ng
Corrected Values:				15302	0.0198 ng
97) Cl6(144)		24.45tw	360	9577m	0.0200 ng
98) Cl6(149)		24.68	360	10197m	0.0206 ng
99) Cl6(139)		24.80	360	9702m	0.0200 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	1528	No Calib
101) Cl5(124)		24.84	326	15708m	0.0198 ng
Corrected Values:				15372	0.0194 ng
102) Cl6(140)		24.90t	360	9744	0.0202 ng
103) Cl5(123)		25.05	326	14300m	0.0209 ng
104) Cl6(134)		25.15	360	7749m	0.0200 ng
105) Cl7(188)		25.25t	394	11021	0.0199 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	2170	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	3648	No Calib
108) Cl5(118)		25.27	326	19687m	0.0262 ng
Corrected Values:				15270	0.0205 ng
109) Cl6(131)		25.31t	360	8505	0.0188 ng
110) Cl7(184)		25.54	394	11308m	0.0211 ng
111) Cl6(146)		25.62	360	10573m	0.0202 ng
112) Cl5(114)-S1	(0.220)	25.72tw	323e	749	No Calib
113) Cl5(114)		25.65	326	14995m	0.0204 ng
Corrected Values:				14830	0.0202 ng
115) Cl6(153)		25.88	360	10924m	0.0206 ng
116) Cl7(179)		26.11	394	10456m	0.0210 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	1256	No Calib
118) Cl5(105)		26.22	326	14270m	0.0217 ng
Corrected Values:				13994	0.0213 ng
119) Cl6(141)		26.27t	360	8774	0.0211 ng
120) Cl7(176)		26.37	394	10407m	0.0210 ng
121) Cl6(127)-S1	(0.265)	26.49t	323	1084	No Calib
122) Cl5(127)		26.50tw	326	15304m	0.0198 ng
123) Cl6(137)		26.49t	360	8852m	0.0203 ng
124) Cl6(130)		26.63	360	8812m	0.0172 ng
125) Cl6(164)		26.69	360	11739m	0.0193 ng
126) Cl6(138)		26.82	360	10643m	0.0182 ng
127) Cl6(163)-S1	(0.265)	26.91t	357	1606	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9121.D MF0782.M Mon Mar 02 14:04:13 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9121.D

Acq On : 11 Feb 2015 7:19 pm

Sample : ID16

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 6

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:31:34 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:30:42 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	12251m	0.0221 ng
Corrected Values:				11825	0.0213 ng
129) Cl7(178)		26.91t	394	7502	0.0195 ng
130) Cl6(158)		26.96	360	13192m	0.0206 ng
131) Cl7(175)		27.10	394	8119m	0.0207 ng
132) Cl7(187)		27.18	394	8712m	0.0208 ng
133) Cl6(166) -S1	(0.265)	27.36t	357	719	No Calib
134) Cl6(166)		27.35tw	360	12899m	0.0218 ng
Corrected Values:				12708	0.0215 ng
135) Cl7(183)		27.36t	394	8445m	0.0212 ng
136) Cl5(126)		27.51	326	13365m	0.0215 ng
137) Cl6(128) -S1	(0.265)	27.70t	357	1068	No Calib
138) Cl6(128)		27.67	360	9084m	0.0216 ng
Corrected Values:				8801	0.0210 ng
139) Cl7(185)		27.70t	394	7345m	0.0210 ng
140) Cl7(174)		27.81	394	7446m	0.0213 ng
141) Cl6(167)		27.89	360	12310m	0.0219 ng
142) Cl8(202)		27.98	428	8923m	0.0224 ng
143) Cl7(177)		28.08	394	7271m	0.0221 ng
144) Cl8(201)		28.21t	428	8479m	0.0215 ng
145) Cl7(171) -S1	(0.309)	28.21t	391	106	No Calib
146) Cl7(171)		28.21t	394	7865m	0.0210 ng
Corrected Values:				7832	0.0210 ng
147) Cl7(173)		28.29	394	6705m	0.0221 ng
148) Cl8(197)		28.42	428	8594	0.0230 ng
149) Cl6(156) -S1	(0.265)	28.54tw	357	1294	No Calib
150) Cl6(156)		28.51	360	12326m	0.0227 ng
Corrected Values:				11983	0.0221 ng
151) Cl7(172)		28.55tw	394	7279m	0.0220 ng
152) Cl6(157)		28.60	360	11468	0.0216 ng
153) Cl7(180)		28.74	394	8797m	0.0227 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.79	394	9953m	0.0223 ng
Corrected Values:				9953	0.0223 ng
156) Cl8(200)		28.83	428	8537m	0.0224 ng
157) Cl7(191)		28.92	394	10716	0.0230 ng
158) Cl7(170) -S1	(0.309)	29.51tw	391	1877	No Calib
159) Cl7(170)		29.45	394	8074	0.0265 ng
Corrected Values:				7494	0.0247 ng
160) Cl8(198)		29.49	428	6299m	0.0244 ng
161) Cl8(199)		29.52tw	428	6167m	0.0242 ng
162) Cl7(190)		29.57	394	10509m	0.0247 ng
163) Cl6(169) -S2	(1.610)	29.69t	356	2444	No Calib
164) Cl6(169)		29.65	360	14409m	0.0466 ng
Corrected Values:				10474	0.0347 ng
165) Cl8(203)		29.69t	428	6995m	0.0252 ng
166) Cl9(208)		30.20	464	7877m	0.0303 ng
167) Cl7(189)		30.33	394	9781m	0.0278 ng
168) Cl9(207)		30.39tw	464	8117m	0.0265 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9121.D MF0782.M Mon Mar 02 14:04:14 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9121.D

Acq On : 11 Feb 2015 7:19 pm

Sample : ID16

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 6

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:31:34 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:30:42 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	6325m	0.0241 ng
Corrected Values:				6325	0.0241 ng
171) Cl8(194)		30.89	428	6378m	0.0324 ng
172) Cl8(205)		31.04	428	8185m	0.0264 ng
173) Cl9(206)		31.55	464	5943m	0.0347 ng
174) Cl10(209)		32.06	498	6614m	0.0371 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9121.D MF0782.M Mon Mar 02 14:04:14 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9122.D
 Acq On : 11 Feb 2015 8:07 pm
 Sample : ID17
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 7
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 13 14:32:23 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 13 14:31:32 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	83580m	0.1000	ng
78) Cl6(161)	25.73t	360	65010m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.30t	255	2782m	0.0000	ng
27) Cl3(34)	15.28	256	38756m	0.0402	ng
Spiked Amount	0.0400			Recovery	= 99.50%
Corrected Values:			38380	0.0398	ng
114) Cl6(152)	22.41	360	25115m	0.0349	ng
Spiked Amount	0.0402			Recovery	= 86.90%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.75	154	102387m	0.0437	ng
3) Cl1(1)	9.94	188	78016m	0.0438	ng
4) Cl1(3)	11.13	188	74763m	0.0440	ng
5) Cl2(4)	11.42	222	38170m	0.0438	ng
6) Cl2(7)	12.30	222	53507m	0.0509	ng
7) Cl2(9)	12.26	222	65683m	0.0376	ng
8) Cl2(6)	12.54	222	60225m	0.0421	ng
9) Cl2(5)	12.76	222	56523m	0.0395	ng
10) Cl2(8)	12.84	222	64284m	0.0481	ng
11) Cl3(19)	13.30	256	25034m	0.0397	ng
12) Cl3(30)	13.70	256	38779m	0.0393	ng
13) Cl2(11)-S1 (0.135)	14.15t	221	13286	No Calib	
14) Cl2(11)	14.13	222	58289m	0.0447	ng
Corrected Values:			56495	0.0433	ng
15) Cl3(18)	14.15t	256	28073m	0.0379	ng
16) Cl3(17)	14.27	256	28613m	0.0409	ng
17) Cl2(12)	14.35	222	54000m	0.0396	ng
18) Cl2(13)-S1 (0.135)	14.50t	221	1752	No Calib	
19) Cl2(13)	14.49tw	222	52557m	0.0414	ng
Corrected Values:			52320	0.0412	ng
20) Cl3(27)	14.50t	256	39006m	0.0377	ng
21) Cl3(24)	14.62	256	37930m	0.0407	ng
22) Cl3(16)	14.83	256	21094m	0.0372	ng
23) Cl2(15)	14.88	222	61448m	0.0410	ng
24) Cl3(32)	14.95	256	39566m	0.0393	ng
25) Cl4(54)	15.30t	292	38832m	0.0385	ng
28) Cl3(29)	15.51	256	37652m	0.0391	ng
29) Cl3(26)-S1 (0.135)	15.87tw	255	8580	No Calib	
30) Cl3(26)	15.83	256	42938m	0.0399	ng
Corrected Values:			41780	0.0389	ng
31) Cl4(50)	15.88tw	292	27449m	0.0391	ng
32) Cl3(25)	15.95	256	39896m	0.0415	ng
33) Cl3(31)-S1 (0.135)	16.33t	255	8908	No Calib	
34) Cl3(31)	16.29	256	42743m	0.0384	ng
Corrected Values:			41540	0.0374	ng
35) Cl4(53)	16.33t	292	27252m	0.0383	ng
36) Cl3(28)	16.40	256	39999m	0.0376	ng
37) Cl3(33)	16.51	256	36904m	0.0411	ng
38) Cl4(51)	16.59	292	28051m	0.0384	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9122.D MF0782.M Mon Mar 02 14:04:17 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9122.D

Acq On : 11 Feb 2015 8:07 pm

Sample : ID17

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 7

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:32:23 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:31:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	23172m	0.0393 ng
40) Cl3(22)		17.00	256	36859m	0.0381 ng
41) Cl4(46)		17.18	292	20941m	0.0390 ng
42) Cl4(43)		17.56	292	21630m	0.0336 ng
43) Cl4(52)		17.63	292	25380m	0.0416 ng
44) Cl4(48)		17.77	292	27813m	0.0374 ng
45) Cl4(49)		17.83	292	25292m	0.0419 ng
46) Cl5(104)		18.02t	326	32760m	0.0377 ng
47) Cl4(47)-S1	(0.174)	18.01tw	289	1072	No Calib
48) Cl4(47)		18.02t	292	30388m	0.0347 ng
Corrected Values:				30201	0.0345 ng
49) Cl4(75)		18.10	292	36515m	0.0425 ng
50) Cl4(44)		18.46	292	23666m	0.0395 ng
51) Cl4(42)		18.67	292	23656m	0.0398 ng
52) Cl4(71)		18.90	292	34932m	0.0389 ng
53) Cl4(41)		19.00	292	20642m	0.0424 ng
54) Cl4(64)		19.29	292	36097m	0.0374 ng
55) Cl4(40)		19.36t	292	19708m	0.0422 ng
56) Cl3(37)-S1	(0.135)	19.36t	255	11473	No Calib
57) Cl3(37)		19.35tw	256	38563	0.0387 ng
Corrected Values:				37014	0.0372 ng
58) Cl5(100)		19.72	326	24416	0.0394 ng
59) Cl4(67)		20.01	292	34308	0.0410 ng
60) Cl4(63)		20.41	292	32544m	0.0407 ng
61) Cl5(95)		20.55	326	21346m	0.0391 ng
62) Cl4(74)		20.61	292	36474m	0.0383 ng
63) Cl4(70)		20.75	292	35374m	0.0412 ng
64) Cl5(91)-S1	(0.220)	20.98tw	323	390	No Calib
65) Cl5(91)		20.93tw	326	23872	0.0378 ng
Corrected Values:				23786	0.0377 ng
66) Cl4(66)-S1	(0.174)	20.92tw	289	6707	No Calib
67) Cl4(66)-S2	(0.650)	20.99tw	288	11901	No Calib
68) Cl4(66)		20.94tw	292	42699m	0.0486 ng
Corrected Values:				33796	0.0389 ng
69) Cl6(155)		21.00tw	360	30074m	0.0384 ng
70) Cl4(80)		21.26	292	33407m	0.0392 ng
71) Cl5(92)		21.56T	326	22549m	0.0409 ng
72) Cl5(84)		21.56T	326	19304m	0.0457 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	12626	No Calib
74) Cl4(56)		21.60	292	36156m	0.0409 ng
Corrected Values:				33959	0.0386 ng
75) Cl4(60)-S1	(0.174)	21.84tw	289	3193	No Calib
76) Cl4(60)		21.86tw	292	34235m	0.0403 ng
Corrected Values:				33679	0.0397 ng
77) Cl5(101)		21.85tw	326	25505m	0.0397 ng
79) Cl5(99)		22.12	326	25117m	0.0397 ng
80) Cl5(83)		22.51	326	18310m	0.0334 ng
81) Cl5(125)		22.66	326	29794m	0.0377 ng
82) Cl5(97)		22.80	326	21228m	0.0392 ng
83) Cl5(87)		23.26	326	21081	0.0395 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9122.D MF0782.M Mon Mar 02 14:04:18 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9122.D

Acq On : 11 Feb 2015 8:07 pm

Sample : ID17

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 7

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:32:23 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:31:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	25547	0.0391 ng
85) Cl5(115)		23.46	326	29658m	0.0328 ng
86) Cl6(154)		23.53	360	22634m	0.0380 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.49	326	20194m	0.0360 ng
Corrected Values:				20194	0.0360 ng
89) Cl5(110)		23.78	326	30840m	0.0396 ng
90) Cl4(81)		23.88	292	31228	0.0372 ng
91) Cl5(82)-S1	(0.220)	24.22t	323	3922	No Calib
92) Cl5(82)		24.22t	326	19220	0.0384 ng
Corrected Values:				18357	0.0367 ng
93) Cl6(151)		24.22t	360	19022m	0.0373 ng
94) Cl6(135)		24.32	360	18500m	0.0394 ng
95) Cl4(77)-S2	(0.650)	24.45t	288	10392	No Calib
96) Cl4(77)		24.41	292	36737	0.0441 ng
Corrected Values:				29982	0.0364 ng
97) Cl6(144)		24.45t	360	19232m	0.0380 ng
98) Cl6(149)		24.68	360	20377m	0.0391 ng
99) Cl6(139)		24.80	360	20427m	0.0395 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	3141	No Calib
101) Cl5(124)		24.84	326	32500m	0.0383 ng
Corrected Values:				31809	0.0375 ng
102) Cl6(140)		24.90t	360	19793	0.0388 ng
103) Cl5(123)		25.05	326	29082m	0.0401 ng
104) Cl6(134)		25.15	360	15839	0.0380 ng
105) Cl7(188)		25.25t	394	22354	0.0379 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	4285	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	7561	No Calib
108) Cl5(118)		25.27	326	39403	0.0496 ng
Corrected Values:				30294	0.0384 ng
109) Cl6(131)		25.31t	360	17846	0.0372 ng
110) Cl7(184)		25.55	394	22334m	0.0398 ng
111) Cl6(146)		25.62	360	21260m	0.0378 ng
112) Cl5(114)-S1	(0.220)	25.73t	323e	776	No Calib
113) Cl5(114)		25.65	326	29875m	0.0383 ng
Corrected Values:				29704	0.0381 ng
115) Cl6(153)		25.88	360	22071	0.0396 ng
116) Cl7(179)		26.11	394	21056m	0.0403 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	2588	No Calib
118) Cl5(105)		26.23	326	29648m	0.0426 ng
Corrected Values:				29079	0.0418 ng
119) Cl6(141)		26.27t	360	17989m	0.0403 ng
120) Cl7(176)		26.37	394	20412m	0.0390 ng
121) Cl6(127)-S1	(0.265)	26.49t	323	2001	No Calib
122) Cl5(127)		26.50tw	326	31154m	0.0380 ng
123) Cl6(137)		26.49t	360	18741m	0.0399 ng
124) Cl6(130)		26.63	360	18551m	0.0349 ng
125) Cl6(164)		26.68	360	23943m	0.0378 ng
126) Cl6(138)		26.81	360	21884m	0.0351 ng
127) Cl6(163)-S1	(0.265)	26.91tw	357	3031	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9122.D MF0782.M Mon Mar 02 14:04:18 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9122.D

Acq On : 11 Feb 2015 8:07 pm

Sample : ID17

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 7

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:32:23 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:31:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	24146m	0.0417 ng
Corrected Values:				23343	0.0403 ng
129) Cl7(178)		26.92tw	394	15319	0.0371 ng
130) Cl6(158)		26.96	360	26643m	0.0390 ng
131) Cl7(175)		27.10	394	16397m	0.0396 ng
132) Cl7(187)		27.18	394	17930m	0.0400 ng
133) Cl6(166) -S1	(0.265)	27.35t	357	1317	No Calib
134) Cl6(166)		27.35t	360	24625	0.0390 ng
Corrected Values:				24276	0.0384 ng
135) Cl7(183)		27.35t	394	16871m	0.0395 ng
136) Cl5(126)		27.51	326	26697m	0.0404 ng
137) Cl6(128) -S1	(0.265)	27.70t	357	2107	No Calib
138) Cl6(128)		27.67	360	18578m	0.0414 ng
Corrected Values:				18020	0.0402 ng
139) Cl7(185)		27.70t	394	15357m	0.0411 ng
140) Cl7(174)		27.81	394	15073m	0.0401 ng
141) Cl6(167)		27.89	360	25037m	0.0414 ng
142) Cl8(202)		27.98	428	17701m	0.0422 ng
143) Cl7(177)		28.08	394	14424m	0.0409 ng
144) Cl8(201)		28.21t	428	17778m	0.0418 ng
145) Cl7(171) -S1	(0.309)	28.21t	391	247	No Calib
146) Cl7(171)		28.21t	394	15698m	0.0396 ng
Corrected Values:				15622	0.0394 ng
147) Cl7(173)		28.29	394	13849m	0.0427 ng
148) Cl8(197)		28.42	428	17590m	0.0442 ng
149) Cl6(156) -S1	(0.265)	28.54tw	357	2518	No Calib
150) Cl6(156)		28.51	360	24769m	0.0423 ng
Corrected Values:				24102	0.0412 ng
151) Cl7(172)		28.55tw	394	14939m	0.0417 ng
152) Cl6(157)		28.60	360	23478m	0.0406 ng
153) Cl7(180)		28.75	394	16902m	0.0406 ng
154) Cl7(193) -S1	(0.309)	28.83t	391	176	No Calib
155) Cl7(193)		28.79	394	20319m	0.0427 ng
Corrected Values:				20265	0.0426 ng
156) Cl8(200)		28.83t	428	17607m	0.0430 ng
157) Cl7(191)		28.92	394	21536m	0.0429 ng
158) Cl7(170) -S1	(0.309)	29.48tw	391	3490	No Calib
159) Cl7(170)		29.46	394	15698	0.0487 ng
Corrected Values:				14620	0.0455 ng
160) Cl8(198)		29.49tw	428	12286m	0.0451 ng
161) Cl8(199)		29.51	428	12288m	0.0434 ng
162) Cl7(190)		29.57	394	20315m	0.0443 ng
163) Cl6(169) -S2	(1.610)	29.69t	356	5098	No Calib
164) Cl6(169)		29.65	360	29878	0.0883 ng
Corrected Values:				21670	0.0660 ng
165) Cl8(203)		29.69t	428	13624m	0.0458 ng
166) Cl9(208)		30.20	464	15756m	0.0567 ng
167) Cl7(189)		30.33	394	19912m	0.0520 ng
168) Cl9(207)		30.39t	464	16287m	0.0491 ng
169) Cl8(195) -S1	(0.400)	30.39t	425	112	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9122.D MF0782.M Mon Mar 02 14:04:19 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9122.D

Acq On : 11 Feb 2015 8:07 pm

Sample : ID17

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 7

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:32:23 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:31:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	12561m	0.0452 ng
Corrected Values:				12516	0.0450 ng
171) Cl8(194)		30.89	428	12167	0.0573 ng
172) Cl8(205)		31.04	428	16128m	0.0476 ng
173) Cl9(206)		31.55	464	11484m	0.0622 ng
174) Cl10(209)		32.06	498	12779m	0.0666 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9122.D MF0782.M Mon Mar 02 14:04:19 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9123.D

Vial: 8

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Acq On : 11 Feb 2015 8:55 pm

Operator: RR/BL

Sample : ID18

Inst : Inst. F

Misc : 5-315 ICAL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 13 14:33:12 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:32:20 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	78058m	0.1000	ng
78) Cl6(161)	25.73tw	360	61271m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	15.29tw	255	5355m	0.0000	ng
27) Cl3(34)		15.28tw	256	75466m	0.0828	ng
Spiked Amount	0.0800			Recovery	=	102.50%
Corrected Values:				74743	0.0820	ng
114) Cl6(152)		22.42	360	49356m	0.0733	ng
Spiked Amount	0.0803			Recovery	=	91.26%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	205464m	0.0950	ng
3) Cl1(1)		9.94	188	151208m	0.0913	ng
4) Cl1(3)		11.13	188	146197m	0.0916	ng
5) Cl2(4)		11.42	222	73466m	0.0904	ng
6) Cl2(7)		12.30	222	107778m	0.1095	ng
7) Cl2(9)		12.26	222	128907m	0.0782	ng
8) Cl2(6)		12.54	222	119684m	0.0894	ng
9) Cl2(5)		12.76	222	110593m	0.0823	ng
10) Cl2(8)		12.83	222	127051m	0.1016	ng
11) Cl3(19)		13.30	256	48902m	0.0830	ng
12) Cl3(30)		13.70	256	77125m	0.0829	ng
13) Cl2(11)-S1	(0.135)	14.14tw	221	27668	No Calib	
14) Cl2(11)		14.13tw	222	115134m	0.0932	ng
Corrected Values:				111399	0.0902	ng
15) Cl3(18)		14.15tw	256	56424m	0.0805	ng
16) Cl3(17)		14.27	256	56196m	0.0851	ng
17) Cl2(12)		14.35	222	109188m	0.0839	ng
18) Cl2(13)-S1	(0.135)	14.50t	221	3413	No Calib	
19) Cl2(13)		14.49tw	222	106570m	0.0885	ng
Corrected Values:				106109	0.0882	ng
20) Cl3(27)		14.50t	256	78783m	0.0809	ng
21) Cl3(24)		14.62	256	74309m	0.0847	ng
22) Cl3(16)		14.83	256	43197m	0.0811	ng
23) Cl2(15)		14.88	222	120284m	0.0849	ng
24) Cl3(32)		14.95	256	76950m	0.0816	ng
25) Cl4(54)		15.30tw	292	75688m	0.0808	ng
28) Cl3(29)		15.51	256	75609m	0.0827	ng
29) Cl3(26)-S1	(0.135)	15.87tw	255	17217	No Calib	
30) Cl3(26)		15.83	256	84523m	0.0825	ng
Corrected Values:				82199	0.0803	ng
31) Cl4(50)		15.88tw	292	53751m	0.0811	ng
32) Cl3(25)		15.95	256	76078m	0.0827	ng
33) Cl3(31)-S1	(0.135)	16.32tw	255	17698	No Calib	
34) Cl3(31)		16.29	256	84835m	0.0807	ng
Corrected Values:				82446	0.0785	ng
35) Cl4(53)		16.33tw	292	54812m	0.0818	ng
36) Cl3(28)		16.40	256	80484m	0.0799	ng
37) Cl3(33)		16.50	256	74972m	0.0878	ng
38) Cl4(51)		16.59	292	56035m	0.0810	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9123.D MF0782.M Mon Mar 02 14:04:22 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9123.D
 Acq On : 11 Feb 2015 8:55 pm
 Sample : ID18
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 8
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 13 14:33:12 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 13 14:32:20 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.92	292	46084m	0.0826 ng
40) Cl3(22)		17.00	256	73692m	0.0795 ng
41) Cl4(46)		17.18	292	42443m	0.0835 ng
42) Cl4(43)		17.56	292	43853m	0.0710 ng
43) Cl4(52)		17.62	292	48994m	0.0845 ng
44) Cl4(48)		17.77	292	56407m	0.0805 ng
45) Cl4(49)		17.84	292	49250m	0.0851 ng
46) Cl5(104)		18.02t	326	64750m	0.0791 ng
47) Cl4(47)-S1	(0.174)	18.02t	289	2110	No Calib
48) Cl4(47)		18.02t	292	63738m	0.0775 ng
Corrected Values:				63371	0.0770 ng
49) Cl4(75)		18.10	292	73948m	0.0906 ng
50) Cl4(44)		18.46	292	47973m	0.0842 ng
51) Cl4(42)		18.67	292	47797m	0.0843 ng
52) Cl4(71)		18.90	292	67940m	0.0791 ng
53) Cl4(41)		19.00	292	39807m	0.0858 ng
54) Cl4(64)		19.29	292	72546m	0.0790 ng
55) Cl4(40)		19.37tw	292	39281m	0.0884 ng
56) Cl3(37)-S1	(0.135)	19.36tw	255	23687	No Calib
57) Cl3(37)		19.35tw	256	78503m	0.0821 ng
Corrected Values:				75305	0.0789 ng
58) Cl5(100)		19.71	326	49610m	0.0839 ng
59) Cl4(67)		20.01	292	69611m	0.0862 ng
60) Cl4(63)		20.41	292	66266m	0.0856 ng
61) Cl5(95)		20.55	326	42891m	0.0820 ng
62) Cl4(74)		20.61	292	72943m	0.0796 ng
63) Cl4(70)		20.75	292	71721m	0.0869 ng
64) Cl5(91)-S1	(0.220)	20.98tw	323	803	No Calib
65) Cl5(91)		20.92t	326	48931m	0.0810 ng
Corrected Values:				48754	0.0807 ng
66) Cl4(66)-S1	(0.174)	20.92t	289	13750	No Calib
67) Cl4(66)-S2	(0.650)	20.99t	288	24236	No Calib
68) Cl4(66)		20.94	292	87254m	0.1032 ng
Corrected Values:				69108	0.0825 ng
69) Cl6(155)		20.99t	360	60602m	0.0811 ng
70) Cl4(80)		21.26	292	68105m	0.0829 ng
71) Cl5(92)		21.55Tw	326	44256m	0.0836 ng
72) Cl5(84)		21.56Tw	326	37353m	0.0928 ng
73) Cl4(56)-S1	(0.174)	21.57tw	289	24506	No Calib
74) Cl4(56)		21.60	292	73533m	0.0867 ng
Corrected Values:				69269	0.0818 ng
75) Cl4(60)-S1	(0.174)	21.85t	289	6257	No Calib
76) Cl4(60)		21.86tw	292	68403m	0.0836 ng
Corrected Values:				67314	0.0824 ng
77) Cl5(101)		21.85t	326	50870m	0.0825 ng
79) Cl5(99)		22.12	326	50505m	0.0827 ng
80) Cl5(83)		22.52	326	36760m	0.0714 ng
81) Cl5(125)		22.66	326	57322m	0.0761 ng
82) Cl5(97)		22.80	326	42790m	0.0826 ng
83) Cl5(87)		23.26	326	42019	0.0819 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9123.D MF0782.M Mon Mar 02 14:04:23 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9123.D
 Acq On : 11 Feb 2015 8:55 pm
 Sample : ID18
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 8
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 13 14:33:12 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 13 14:32:20 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units

84) Cl6(136)		23.35	360	48972	0.0792 ng
85) Cl5(115)		23.47	326	68610m	0.0784 ng
86) Cl6(154)		23.53tw	360	45840m	0.0798 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.52tw	326	41022m	0.0777 ng
Corrected Values:				41022	0.0777 ng
89) Cl5(110)		23.77	326	61443m	0.0817 ng
90) Cl4(81)		23.88	292	64355m	0.0782 ng
91) Cl5(82)-S1	(0.220)	24.22t	323	7544	No Calib
92) Cl5(82)		24.22t	326	39965m	0.0828 ng
Corrected Values:				38305	0.0795 ng
93) Cl6(151)		24.22t	360	38707m	0.0784 ng
94) Cl6(135)		24.32	360	37440m	0.0827 ng
95) Cl4(77)-S2	(0.650)	24.45t	288	21850	No Calib
96) Cl4(77)		24.41	292	76468m	0.0942 ng
Corrected Values:				62265	0.0774 ng
97) Cl6(144)		24.45t	360	39514m	0.0809 ng
98) Cl6(149)		24.68	360	40487m	0.0803 ng
99) Cl6(139)		24.80	360	40590m	0.0810 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	6161	No Calib
101) Cl5(124)		24.84	326	66017m	0.0803 ng
Corrected Values:				64662	0.0787 ng
102) Cl6(140)		24.90t	360	39681m	0.0806 ng
103) Cl5(123)		25.05	326	59392m	0.0839 ng
104) Cl6(134)		25.15	360	32783m	0.0811 ng
105) Cl7(188)		25.25t	394	46042	0.0808 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	8355	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	15464	No Calib
108) Cl5(118)		25.27	326	79508m	0.1032 ng
Corrected Values:				60969	0.0799 ng
109) Cl6(131)		25.31t	360	36723m	0.0793 ng
110) Cl7(184)		25.55	394	44693m	0.0828 ng
111) Cl6(146)		25.63	360	43500m	0.0793 ng
112) Cl5(114)-S1	(0.220)	25.72tw	323e	711	No Calib
113) Cl5(114)		25.65	326	61732m	0.0816 ng
Corrected Values:				61576	0.0814 ng
115) Cl6(153)		25.88	360	43896m	0.0817 ng
116) Cl7(179)		26.11	394	42794m	0.0850 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	5183	No Calib
118) Cl5(105)		26.23	326	57443m	0.0848 ng
Corrected Values:				56303	0.0832 ng
119) Cl6(141)		26.27t	360	37168m	0.0849 ng
120) Cl7(176)		26.37	394	41446m	0.0821 ng
121) Cl6(127)-S1	(0.265)	26.49t	323	4056	No Calib
122) Cl5(127)		26.50tw	326	62119m	0.0781 ng
123) Cl6(137)		26.49t	360	38120m	0.0833 ng
124) Cl6(130)		26.63	360	36270m	0.0722 ng
125) Cl6(164)		26.69	360	49586m	0.0821 ng
126) Cl6(138)		26.81	360	43873m	0.0730 ng
127) Cl6(163)-S1	(0.265)	26.91tw	357	6218	No Calib

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9123.D MF0782.M Mon Mar 02 14:04:23 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9123.D

Acq On : 11 Feb 2015 8:55 pm

Sample : ID18

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 8

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:33:12 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:32:20 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.87	360	48305m	0.0852 ng
Corrected Values:				46657	0.0825 ng
129) Cl7(178)		26.92tw	394	32247	0.0806 ng
130) Cl6(158)		26.96	360	53190m	0.0805 ng
131) Cl7(175)		27.10	394	33447m	0.0834 ng
132) Cl7(187)		27.18	394	35506m	0.0817 ng
133) Cl6(166) -S1	(0.265)	27.36tw	357	2800	No Calib
134) Cl6(166)		27.35t	360	50816m	0.0825 ng
Corrected Values:				50074	0.0813 ng
135) Cl7(183)		27.35t	394	34564m	0.0832 ng
136) Cl5(126)		27.51	326	53161m	0.0819 ng
137) Cl6(128) -S1	(0.265)	27.70t	357	3950	No Calib
138) Cl6(128)		27.67	360	36850m	0.0845 ng
Corrected Values:				35803	0.0822 ng
139) Cl7(185)		27.70t	394	31035m	0.0851 ng
140) Cl7(174)		27.81	394	31123m	0.0849 ng
141) Cl6(167)		27.89	360	49869m	0.0838 ng
142) Cl8(202)		27.98	428	35477m	0.0875 ng
143) Cl7(177)		28.08	394	29243m	0.0848 ng
144) Cl8(201)		28.20t	428	36450m	0.0882 ng
145) Cl7(171) -S1	(0.309)	28.21tw	391	399	No Calib
146) Cl7(171)		28.20t	394	32038m	0.0837 ng
Corrected Values:				31915	0.0834 ng
147) Cl7(173)		28.29	394	27986m	0.0885 ng
148) Cl8(197)		28.42	428	35017m	0.0904 ng
149) Cl6(156) -S1	(0.265)	28.54tw	357	4907	No Calib
150) Cl6(156)		28.51	360	50066m	0.0865 ng
Corrected Values:				48766	0.0844 ng
151) Cl7(172)		28.55tw	394	30420m	0.0861 ng
152) Cl6(157)		28.60	360	47880	0.0839 ng
153) Cl7(180)		28.74	394	34529m	0.0845 ng
154) Cl7(193) -S1	(0.309)	28.83t	391	374	No Calib
155) Cl7(193)		28.79	394	40953m	0.0881 ng
Corrected Values:				40837	0.0878 ng
156) Cl8(200)		28.83t	428	34734m	0.0875 ng
157) Cl7(191)		28.92	394	44048m	0.0891 ng
158) Cl7(170) -S1	(0.309)	29.51t	391	7166	No Calib
159) Cl7(170)		29.46	394	31542m	0.0996 ng
Corrected Values:				29328	0.0930 ng
160) Cl8(198)		29.48	428	25079m	0.0922 ng
161) Cl8(199)		29.51t	428	24864m	0.0901 ng
162) Cl7(190)		29.57	394	41388m	0.0911 ng
163) Cl6(169) -S2	(1.610)	29.69t	356	10227	No Calib
164) Cl6(169)		29.65	360	60115m	0.1714 ng
Corrected Values:				43650	0.1302 ng
165) Cl8(203)		29.69t	428	27698m	0.0945 ng
166) Cl9(208)		30.20	464	31097m	0.1116 ng
167) Cl7(189)		30.33	394	39171m	0.1007 ng
168) Cl9(207)		30.39t	464	33872m	0.1029 ng
169) Cl8(195) -S1	(0.400)	30.39t	425	190	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9123.D MF0782.M Mon Mar 02 14:04:24 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9123.D
 Acq On : 11 Feb 2015 8:55 pm
 Sample : ID18
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 8
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 13 14:33:12 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 13 14:32:20 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	25033m	0.0925 ng
Corrected Values:				24957	0.0922 ng
171) Cl8(194)		30.89	428	25163m	0.1157 ng
172) Cl8(205)		31.05	428	31852m	0.0952 ng
173) Cl9(206)		31.55	464	22776m	0.1213 ng
174) Cl10(209)		32.06	498	24577m	0.1272 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9123.D MF0782.M Mon Mar 02 14:04:24 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0782\F9125.D

Vial: 10

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Acq On : 11 Feb 2015 10:30 pm

Operator: RR/BL

Sample : ID20

Inst : Inst. F

Misc : 5-315 ICAL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 13 14:34:01 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:33:10 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	87381m	0.1000	ng
78) Cl6(161)	25.73t	360	66036m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	15.30t	255	23820m	0.0000	ng
27) Cl3(34)		15.29tw	256	337412m	0.3254	ng
Spiked Amount	0.3200			Recovery	=	100.72%
Corrected Values:				334196	0.3223	ng
114) Cl6(152)		22.42	360	222867m	0.3128	ng
Spiked Amount	0.3213			Recovery	=	97.36%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154e	880485m	0.3818	ng
3) Cl1(1)		9.94	188e	666656m	0.3684	ng
4) Cl1(3)		11.13	188e	643239m	0.3530	ng
5) Cl2(4)		11.42	222e	324966m	0.3591	ng
6) Cl2(7)		12.31	222e	461815m	0.3971	ng
7) Cl2(9)		12.26	222e	580838m	0.3209	ng
8) Cl2(6)		12.54	222e	523950m	0.3545	ng
9) Cl2(5)		12.76	222e	498402m	0.3220	ng
10) Cl2(8)		12.84	222e	554414m	0.3861	ng
11) Cl3(19)		13.30	256e	217164m	0.3279	ng
12) Cl3(30)		13.70	256e	341527m	0.3248	ng
13) Cl2(11)-S1	(0.135)	14.15t	221e	122540	No Calib	
14) Cl2(11)		14.13	222e	511472m	0.3514	ng
Corrected Values:				494929	0.3407	ng
15) Cl3(18)		14.15t	256e	248963m	0.3215	ng
16) Cl3(17)		14.27	256e	246987m	0.3266	ng
17) Cl2(12)		14.35	222e	487004m	0.3270	ng
18) Cl2(13)-S1	(0.135)	14.50t	221e	14662	No Calib	
19) Cl2(13)		14.49tw	222e	462476m	0.3378	ng
Corrected Values:				460497	0.3363	ng
20) Cl3(27)		14.50t	256e	341233m	0.3206	ng
21) Cl3(24)		14.63	256e	327125m	0.3275	ng
22) Cl3(16)		14.83	256e	189563m	0.3262	ng
23) Cl2(15)		14.88	222e	536432m	0.3312	ng
24) Cl3(32)		14.95	256e	342903m	0.3253	ng
25) Cl4(54)		15.30t	292e	323593m	0.3239	ng
28) Cl3(29)		15.51	256e	336700m	0.3201	ng
29) Cl3(26)-S1	(0.135)	15.87tw	255e	77070	No Calib	
30) Cl3(26)		15.83	256e	376771m	0.3254	ng
Corrected Values:				366367	0.3164	ng
31) Cl4(50)		15.88tw	292e	238386m	0.3206	ng
32) Cl3(25)		15.95	256e	347693m	0.3202	ng
33) Cl3(31)-S1	(0.135)	16.32tw	255e	79802	No Calib	
34) Cl3(31)		16.29	256e	379009m	0.3256	ng
Corrected Values:				368236	0.3161	ng
35) Cl4(53)		16.33tw	292e	237686m	0.3181	ng
36) Cl3(28)		16.40	256e	357194m	0.3099	ng
37) Cl3(33)		16.50	256e	331571m	0.3352	ng
38) Cl4(51)		16.59	292e	246540m	0.3188	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9125.D MF0782.M Mon Mar 02 14:04:29 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9125.D
 Acq On : 11 Feb 2015 10:30 pm
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 13 14:34:01 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 13 14:33:10 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4 (45)		16.92	292e	203620m	0.3202 ng
40) Cl3 (22)		17.00	256e	331266m	0.3063 ng
41) Cl4 (46)		17.18	292e	186922m	0.3200 ng
42) Cl4 (43)		17.56	292e	197162m	0.2832 ng
43) Cl4 (52)		17.62	292e	223761m	0.3221 ng
44) Cl4 (48)		17.77	292e	257319m	0.3280 ng
45) Cl4 (49)		17.84	292e	219300m	0.3171 ng
46) Cl5 (104)		18.02t	326e	283536m	0.3162 ng
47) Cl4 (47) -S1	(0.174)	18.02t	289e	9703	No Calib
48) Cl4 (47)		18.02t	292e	278956m	0.3150 ng
Corrected Values:				277268	0.3130 ng
49) Cl4 (75)		18.10	292e	324762m	0.3371 ng
50) Cl4 (44)		18.47	292e	217051m	0.3206 ng
51) Cl4 (42)		18.68	292e	214201m	0.3198 ng
52) Cl4 (71)		18.90	292e	303864m	0.3070 ng
53) Cl4 (41)		19.00	292e	181142m	0.3259 ng
54) Cl4 (64)		19.28	292e	319450m	0.3033 ng
55) Cl4 (40)		19.37tw	292e	175581m	0.3359 ng
56) Cl3 (37) -S1	(0.135)	19.36tw	255e	106056	No Calib
57) Cl3 (37)		19.35tw	256e	346126m	0.3106 ng
Corrected Values:				331808	0.2983 ng
58) Cl5 (100)		19.71	326e	220795m	0.3152 ng
59) Cl4 (67)		20.01	292e	316103m	0.3164 ng
60) Cl4 (63)		20.41	292e	299950m	0.3122 ng
61) Cl5 (95)		20.55	326e	194096m	0.3139 ng
62) Cl4 (74)		20.61	292e	328213m	0.3026 ng
63) Cl4 (70)		20.75	292e	322572m	0.3188 ng
64) Cl5 (91) -S1	(0.220)	20.99t	323e	3736	No Calib
65) Cl5 (91)		20.92t	326e	217480m	0.3126 ng
Corrected Values:				216658	0.3115 ng
66) Cl4 (66) -S1	(0.174)	20.92t	289e	61191	No Calib
67) Cl4 (66) -S2	(0.650)	20.99t	288e	108123	No Calib
68) Cl4 (66)		20.94	292e	391871m	0.3809 ng
Corrected Values:				310944	0.3083 ng
69) Cl6 (155)		20.99t	360e	266312m	0.3129 ng
70) Cl4 (80)		21.26	292e	307547m	0.3074 ng
71) Cl5 (92)		21.56T	326e	193896m	0.2914 ng
72) Cl5 (84)		21.56T	326e	143558m	0.2886 ng
73) Cl4 (56) -S1	(0.174)	21.57tw	289e	114285	No Calib
74) Cl4 (56)		21.60	292e	329409m	0.3269 ng
Corrected Values:				309523	0.3083 ng
75) Cl4 (60) -S1	(0.174)	21.85tw	289e	29082	No Calib
76) Cl4 (60)		21.86t	292e	306284m	0.3106 ng
Corrected Values:				301224	0.3059 ng
77) Cl5 (101)		21.86t	326e	229605m	0.3109 ng
79) Cl5 (99)		22.12	326e	229559m	0.3167 ng
80) Cl5 (83)		22.52	326e	167851m	0.3004 ng
81) Cl5 (125)		22.66	326e	265838m	0.3156 ng
82) Cl5 (97)		22.80	326e	193012m	0.3228 ng
83) Cl5 (87)		23.26	326e	194085m	0.3191 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9125.D MF0782.M Mon Mar 02 14:04:29 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9125.D
 Acq On : 11 Feb 2015 10:30 pm
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 13 14:34:01 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 13 14:33:10 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360e	225093m	0.3169 ng
85) Cl5(115)		23.47	326e	274404m	0.2846 ng
86) Cl6(154)		23.54	360e	203616m	0.3149 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.49	326e	187414m	0.3024 ng
Corrected Values:				187414	0.3024 ng
89) Cl5(110)		23.78	326e	277561m	0.3125 ng
90) Cl4(81)		23.88	292e	296180m	0.3015 ng
91) Cl5(82)-S1	(0.220)	24.22t	323e	35492	No Calib
92) Cl5(82)		24.22t	326e	179373m	0.3225 ng
Corrected Values:				171565	0.3095 ng
93) Cl6(151)		24.22t	360e	173843m	0.3086 ng
94) Cl6(135)		24.32	360e	168130m	0.3173 ng
95) Cl4(77)-S2	(0.650)	24.45tw	288e	98533	No Calib
96) Cl4(77)		24.41	292e	349896m	0.3571 ng
Corrected Values:				285850	0.2985 ng
97) Cl6(144)		24.46tw	360e	175943m	0.3133 ng
98) Cl6(149)		24.68	360e	188060m	0.3114 ng
99) Cl6(139)		24.80	360e	187050m	0.3157 ng
100) Cl5(124)-S1	(0.220)	24.90t	323e	27879	No Calib
101) Cl5(124)		24.84	326e	295301m	0.3150 ng
Corrected Values:				289168	0.3089 ng
102) Cl6(140)		24.90t	360e	180209m	0.3159 ng
103) Cl5(123)		25.05	326e	272046m	0.3121 ng
104) Cl6(134)		25.15	360e	147275m	0.3208 ng
105) Cl7(188)		25.25t	394e	204688m	0.3187 ng
106) Cl5(118)-S1	(0.220)	25.31t	323e	48107	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322e	70060	No Calib
108) Cl5(118)		25.27	326e	363994m	0.3952 ng
Corrected Values:				277745	0.3101 ng
109) Cl6(131)		25.31t	360e	166333m	0.3129 ng
110) Cl7(184)		25.55	394e	205917m	0.3229 ng
111) Cl6(146)		25.62	360e	204829m	0.3119 ng
112) Cl5(114)-S1	(0.220)	25.73t	323e	843	No Calib
113) Cl5(114)		25.65	326e	276077m	0.3102 ng
Corrected Values:				275892	0.3100 ng
115) Cl6(153)		25.88	360e	202015m	0.3174 ng
116) Cl7(179)		26.11	394e	192937m	0.3271 ng
117) Cl5(105)-S1	(0.220)	26.27t	323e	24038	No Calib
118) Cl5(105)		26.23	326e	266541m	0.3163 ng
Corrected Values:				261253	0.3110 ng
119) Cl6(141)		26.27t	360e	167338m	0.3185 ng
120) Cl7(176)		26.37	394e	188764m	0.3201 ng
121) Cl6(127)-S1	(0.265)	26.48tw	323e	18024	No Calib
122) Cl5(127)		26.50tw	326e	284385m	0.3007 ng
123) Cl6(137)		26.49tw	360e	169674m	0.3145 ng
124) Cl6(130)		26.63	360e	164928m	0.3032 ng
125) Cl6(164)		26.69	360e	221541m	0.3190 ng
126) Cl6(138)		26.81	360e	195967m	0.2899 ng
127) Cl6(163)-S1	(0.265)	26.91tw	357e	28801	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9125.D MF0782.M Mon Mar 02 14:04:30 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9125.D

Acq On : 11 Feb 2015 10:30 pm

Sample : ID20

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 10

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 13 14:34:01 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 13 14:33:10 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360e	229269m	0.3092 ng
Corrected Values:				221637	0.3009 ng
129) Cl7(178)		26.92tw	394e	142977m	0.3175 ng
130) Cl6(158)		26.96	360e	245363m	0.3186 ng
131) Cl7(175)		27.10	394e	150682m	0.3186 ng
132) Cl7(187)		27.18	394e	163842m	0.3247 ng
133) Cl6(166) -S1	(0.265)	27.35t	357e	12825	No Calib
134) Cl6(166)		27.35t	360e	228573m	0.3151 ng
Corrected Values:				225174	0.3108 ng
135) Cl7(183)		27.36tw	394e	157744m	0.3204 ng
136) Cl5(126)		27.51	326e	248024m	0.3038 ng
137) Cl6(128) -S1	(0.265)	27.70t	357e	19314	No Calib
138) Cl6(128)		27.67	360e	167602m	0.3250 ng
Corrected Values:				162484	0.3161 ng
139) Cl7(185)		27.70t	394e	141077m	0.3209 ng
140) Cl7(174)		27.81	394e	142269m	0.3303 ng
141) Cl6(167)		27.89	360e	233486m	0.3159 ng
142) Cl8(202)		27.98	428e	159360m	0.3325 ng
143) Cl7(177)		28.08	394e	133951m	0.3266 ng
144) Cl8(201)		28.21t	428e	161303m	0.3365 ng
145) Cl7(171) -S1	(0.309)	28.20tw	391e	1779	No Calib
146) Cl7(171)		28.21t	394e	143359m	0.3238 ng
Corrected Values:				142809	0.3226 ng
147) Cl7(173)		28.29	394e	124878m	0.3285 ng
148) Cl8(197)		28.42	428e	157098m	0.3388 ng
149) Cl6(156) -S1	(0.265)	28.54tw	357e	23397	No Calib
150) Cl6(156)		28.51	360e	233909m	0.3219 ng
Corrected Values:				227709	0.3147 ng
151) Cl7(172)		28.55tw	394e	140492m	0.3240 ng
152) Cl6(157)		28.60	360e	220314m	0.3162 ng
153) Cl7(180)		28.75	394e	159243m	0.3185 ng
154) Cl7(193) -S1	(0.309)	28.83t	391e	1745	No Calib
155) Cl7(193)		28.79	394e	189851m	0.3365 ng
Corrected Values:				189312	0.3356 ng
156) Cl8(200)		28.83t	428e	157757m	0.3429 ng
157) Cl7(191)		28.92	394e	200728m	0.3299 ng
158) Cl7(170) -S1	(0.309)	29.51t	391e	33969	No Calib
159) Cl7(170)		29.46	394e	144908m	0.3553 ng
Corrected Values:				134412	0.3340 ng
160) Cl8(198)		29.48	428e	114457m	0.3078 ng
161) Cl8(199)		29.51t	428e	113623m	0.4079 ng
162) Cl7(190)		29.57	394e	189662m	0.3313 ng
163) Cl6(169) -S2	(1.610)	29.69tw	356e	47398	No Calib
164) Cl6(169)		29.65	360E	278955m	0.5340 ng
Corrected Values:				202644	0.4234 ng
165) Cl8(203)		29.70tw	428e	128015m	0.3476 ng
166) Cl9(208)		30.20	464e	141685m	0.3710 ng
167) Cl7(189)		30.33	394e	183689m	0.3342 ng
168) Cl9(207)		30.39t	464e	150456m	0.3629 ng
169) Cl8(195) -S1	(0.400)	30.39t	425e	749	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9125.D MF0782.M Mon Mar 02 14:04:30 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9125.D
 Acq On : 11 Feb 2015 10:30 pm
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 13 14:34:01 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 13 14:33:10 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428e	112066m	0.3434 ng
Corrected Values:				111766	0.3426 ng
171) Cl8(194)		30.89	428e	114749m	0.3686 ng
172) Cl8(205)		31.05	428e	146969m	0.3633 ng
173) Cl9(206)		31.55	464e	103921m	0.3914 ng
174) Cl10(209)		32.06	498e	110111m	0.4154 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9125.D MF0782.M Mon Mar 02 14:04:30 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0782\F9126.D

Vial: 11

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Acq On : 11 Feb 2015 11:18 pm

Operator: RR/BL

Sample : ID21 ICC

Inst : Inst. F

Misc : 5-315 ICC

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 16 09:26:41 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Feb 16 09:23:51 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	66914m	0.1003	ng
78) Cl6(161)	25.73t	360	51654m	0.1005	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.30t	255	2680m	0.0000	ng
27) Cl3(34)	15.28	256	41380m	0.0524	ng
Spiked Amount	0.0502			Recovery	= 103.39%
Corrected Values:			41018	0.0519	ng
114) Cl6(152)	22.41	360	27293m	0.0536	ng
Spiked Amount	0.0501			Recovery	= 106.99%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%DIF
2) Biphenyl		8.75	154	115790m	0.0534	ng	6.3
3) Cl1(1)		9.94	188	84437m	0.0527	ng	3.3
4) Cl1(3)		11.13	188	78125m	0.0505	ng	-1.0
5) Cl2(4)		11.42	222	39266m	0.0505	ng	1.0
6) Cl2(7)		12.30	222	55098m	0.0488	ng	-2.7
7) Cl2(9)		12.26	222	74819m	0.0550	ng	10.0
8) Cl2(6)		12.54	222	61477m	0.0489	ng	-2.8
9) Cl2(5)		12.76	222	62922m	0.0538	ng	7.2
10) Cl2(8)		12.83	222	61725m	0.0462	ng	-9.4
11) Cl3(19)		13.30	256	27607m	0.0534	ng	4.7
12) Cl3(30)		13.69	256	41853m	0.0517	ng	3.3
13) Cl2(11)-S1 (0.135)		14.14tw	221	14908	No Calib		
14) Cl2(11)		14.13tw	222	63167m	0.0539	ng	
Corrected Values:				61154	0.0522	ng	4.1
15) Cl3(18)		14.15tw	256	30075m	0.0511	ng	0.2
16) Cl3(17)		14.26	256	29638m	0.0502	ng	-0.6
17) Cl2(12)		14.35	222	61820m	0.0540	ng	7.8
18) Cl2(13)-S1 (0.135)		14.49t	221	1933	No Calib		
19) Cl2(13)		14.49t	222	59431m	0.0536	ng	
Corrected Values:				59170	0.0534	ng	6.2
20) Cl3(27)		14.50tw	256	42761m	0.0518	ng	3.2
21) Cl3(24)		14.62	256	35660m	0.0456	ng	-9.0
22) Cl3(16)		14.83	256	26413m	0.0586	ng	17.2
23) Cl2(15)		14.88	222	62722m	0.0497	ng	-0.6
24) Cl3(32)		14.95	256	42818m	0.0526	ng	4.9
25) Cl4(54)		15.30t	292	38488m	0.0481	ng	-5.7
28) Cl3(29)		15.52	256	39854m	0.0503	ng	0.2
29) Cl3(26)-S1 (0.135)		15.87tw	255	8191	No Calib		
30) Cl3(26)		15.83	256	41239m	0.0477	ng	
Corrected Values:				40133	0.0464	ng	-7.4
31) Cl4(50)		15.88tw	292	26592m	0.0472	ng	-7.1
32) Cl3(25)		15.95	256	40395m	0.0500	ng	-0.6
33) Cl3(31)-S1 (0.135)		16.32t	255	10437	No Calib		
34) Cl3(31)		16.29	256	47811m	0.0554	ng	
Corrected Values:				46402	0.0538	ng	5.5
35) Cl4(53)		16.32t	292	31672m	0.0551	ng	10.0
36) Cl3(28)		16.40	256	44528m	0.0527	ng	3.3
37) Cl3(33)		16.50	256	38923m	0.0498	ng	-0.5
38) Cl4(51)		16.59	292	30083m	0.0513	ng	1.6

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9126.D MF0782.M Mon Mar 02 14:04:36 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9126.D
 Acq On : 11 Feb 2015 11:18 pm
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 16 09:26:41 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 16 09:23:51 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%DIF
39) Cl4(45)		16.91	292	24458m	0.0504 ng	-0.4
40) Cl3(22)		17.00	256	40668m	0.0528 ng	5.6
41) Cl4(46)		17.18	292	22851m	0.0516 ng	2.6
42) Cl4(43)		17.57	292	24381m	0.0531 ng	5.6
43) Cl4(52)		17.62	292	23867m	0.0460 ng	-9.8
44) Cl4(48)		17.77	292	30365m	0.0518 ng	3.2
45) Cl4(49)		17.83	292	24767m	0.0475 ng	-5.0
46) Cl5(104)		18.01tw	326	35718m	0.0523 ng	2.5
47) Cl4(47)-S1	(0.174)	18.02t	289	1119	No Calib	
48) Cl4(47)		18.02t	292	33342m	0.0506 ng	
Corrected Values:				33147	0.0503 ng	-0.6
49) Cl4(75)		18.10	292	35071m	0.0454 ng	-9.6
50) Cl4(44)		18.47	292	24381m	0.0486 ng	-4.7
51) Cl4(42)		18.68	292	25847m	0.0519 ng	3.5
52) Cl4(71)		18.90	292	36983m	0.0515 ng	2.6
53) Cl4(41)		19.00	292	22564m	0.0535 ng	6.3
54) Cl4(64)		19.29	292	39808m	0.0525 ng	4.5
55) Cl4(40)		19.36tw	292	18892m	0.0460 ng	-8.5
56) Cl3(37)-S1	(0.135)	19.35t	255	12658	No Calib	
57) Cl3(37)		19.35t	256	40570m	0.0516 ng	
Corrected Values:				38861	0.0494 ng	-3.1
58) Cl5(100)		19.72	326	25587m	0.0495 ng	-1.2
59) Cl4(67)		20.01	292	35978m	0.0497 ng	-1.0
60) Cl4(63)		20.41	292	34741m	0.0501 ng	0.0
61) Cl5(95)		20.55	326	28486m	0.0632 ng	26.4N
62) Cl4(74)		20.61	292	41661m	0.0544 ng	6.7
63) Cl4(70)		20.75	292	37871m	0.0507 ng	-0.6
64) Cl5(91)-S1	(0.220)	20.99t	323	436	No Calib	
65) Cl5(91)		20.92t	326	24921m	0.0493 ng	
Corrected Values:				24825	0.0491 ng	-2.0
66) Cl4(66)-S1	(0.174)	20.92t	289	6975	No Calib	
67) Cl4(66)-S2	(0.650)	20.99t	288	13037	No Calib	
68) Cl4(66)		20.94	292	47825m	0.0660 ng	
Corrected Values:				38137	0.0528 ng	3.5
69) Cl6(155)		20.99t	360	31794m	0.0503 ng	-1.4
70) Cl4(80)		21.26	292	35467m	0.0502 ng	0.2
71) Cl5(92)		21.55Tw	326	25829m	0.0556 ng	10.9
72) Cl5(84)		21.56t	326	19194m	0.0482 ng	-3.6
73) Cl4(56)-S1	(0.174)	21.56t	289	13561	No Calib	
74) Cl4(56)		21.60	292	38324m	0.0532 ng	
Corrected Values:				35964	0.0500 ng	-0.5
75) Cl4(60)-S1	(0.174)	21.84tw	289	3999	No Calib	
76) Cl4(60)		21.86tw	292	36148m	0.0514 ng	
Corrected Values:				35452	0.0504 ng	0.4
77) Cl5(101)		21.85tw	326	28287m	0.0530 ng	3.9
79) Cl5(99)		22.11	326	28203m	0.0544 ng	6.7
80) Cl5(83)		22.51	326	21318m	0.0564 ng	10.6
81) Cl5(125)		22.65	326	33027m	0.0555 ng	10.8
82) Cl5(97)		22.80	326	21866m	0.0501 ng	-0.1
83) Cl5(87)		23.26	326	22494m	0.0519 ng	1.8

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9126.D MF0782.M Mon Mar 02 14:04:36 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9126.D
 Acq On : 11 Feb 2015 11:18 pm
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 16 09:26:41 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 16 09:23:51 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%DIF
84) Cl6(136)		23.35	360	27055m	0.0532	ng	6.2
85) Cl5(115)		23.46	326	38374m	0.0561	ng	11.8
86) Cl6(154)		23.53	360	23595	0.0502	ng	0.3
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.		
88) Cl5(85)		23.50	326	20796m	0.0489	ng	
Corrected Values:				20796	0.0489	ng	-2.4
89) Cl5(110)		23.77	326	32809m	0.0519	ng	1.8
90) Cl4(81)		23.88	292	38270m	0.0581	ng	16.2
91) Cl5(82)-S1	(0.220)	24.21tw	323	4430	No Calib		
92) Cl5(82)		24.22t	326	20717m	0.0530	ng	
Corrected Values:				19742	0.0506	ng	1.2
93) Cl6(151)		24.22t	360	21799m	0.0551	ng	8.0
94) Cl6(135)		24.32	360	18072m	0.0473	ng	-5.4
95) Cl4(77)-S2	(0.650)	24.45t	288	10380	No Calib		
96) Cl4(77)		24.41	292	39096m	0.0613	ng	
Corrected Values:				32349	0.0510	ng	0.0
97) Cl6(144)		24.45t	360	18686m	0.0464	ng	-7.6
98) Cl6(149)		24.68	360	20276m	0.0489	ng	-4.1
99) Cl6(139)		24.80	360	20008m	0.0483	ng	-4.0
100) Cl5(124)-S1	(0.220)	24.90t	323	3110	No Calib		
101) Cl5(124)		24.85	326	32581m	0.0495	ng	
Corrected Values:				31897	0.0485	ng	-3.3
102) Cl6(140)		24.90t	360	19590m	0.0483	ng	-4.4
103) Cl5(123)		25.05	326	29802	0.0492	ng	-3.5
104) Cl6(134)		25.15	360	17396m	0.0523	ng	4.1
105) Cl7(188)		25.25t	394	16954m	0.0366	ng	1.7
106) Cl5(118)-S1	(0.220)	25.31t	323	4979	No Calib		
107) Cl5(118)-S2	(1.080)	25.25t	322	6453	No Calib		
108) Cl5(118)		25.27	326	40687m	0.0647	ng	
Corrected Values:				32623	0.0522	ng	2.4
109) Cl6(131)		25.31t	360	18296m	0.0493	ng	-1.5
110) Cl7(184)		25.54	394	23857m	0.0519	ng	3.6
111) Cl6(146)		25.62	360	22941m	0.0518	ng	3.5
112) Cl5(114)-S1	(0.220)	25.73t	323e	894	No Calib		
113) Cl5(114)		25.65	326	32980m	0.0525	ng	
Corrected Values:				32783	0.0522	ng	2.4
115) Cl6(153)		25.88	360	25162m	0.0556	ng	9.0
116) Cl7(179)		26.11	394	21997m	0.0504	ng	0.2
117) Cl5(105)-S1	(0.220)	26.27t	323	2814	No Calib		
118) Cl5(105)		26.22	326	32539m	0.0558	ng	
Corrected Values:				31920	0.0548	ng	7.5
119) Cl6(141)		26.27t	360	19195m	0.0509	ng	1.6
120) Cl7(176)		26.37	394	22948m	0.0539	ng	6.3
121) Cl6(127)-S1	(0.265)	26.49t	323	2247	No Calib		
122) Cl5(127)		26.50tw	326	31579m	0.0494	ng	-1.2
123) Cl6(137)		26.49t	360	19591m	0.0505	ng	0.8
124) Cl6(130)		26.62	360	19207m	0.0514	ng	2.4
125) Cl6(164)		26.68	360	20626m	0.0410	ng	-18.5
126) Cl6(138)		26.81	360	25140m	0.0556	ng	9.0
127) Cl6(163)-S1	(0.265)	26.92tw	357	2944	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9126.D MF0782.M Mon Mar 02 14:04:37 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9126.D
 Acq On : 11 Feb 2015 11:18 pm
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 16 09:26:41 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 16 09:23:51 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%DIF
128) Cl6(163)		26.86	360	25362m	0.0529	ng	
Corrected Values:				24582	0.0513	ng	2.2
129) Cl7(178)		26.91tw	394	16069	0.0494	ng	-2.4
130) Cl6(158)		26.96	360	27890m	0.0510	ng	2.0
131) Cl7(175)		27.10	394	16813m	0.0494	ng	-1.2
132) Cl7(187)		27.18	394	19237m	0.0526	ng	3.1
133) Cl6(166) -S1	(0.265)	27.35t	357	1484	No Calib		
134) Cl6(166)		27.35t	360	25579	0.0502	ng	
Corrected Values:				25186	0.0494	ng	-1.9
135) Cl7(183)		27.35t	394	18710m	0.0530	ng	3.9
136) Cl5(126)		27.51	326	29840m	0.0547	ng	7.3
137) Cl6(128) -S1	(0.265)	27.70t	357	2146	No Calib		
138) Cl6(128)		27.67	360	19173m	0.0521	ng	
Corrected Values:				18604	0.0505	ng	-1.0
139) Cl7(185)		27.70t	394	16974m	0.0534	ng	6.8
140) Cl7(174)		27.81	394	16016m	0.0505	ng	0.6
141) Cl6(167)		27.89	360	25868m	0.0506	ng	-0.8
142) Cl8(202)		27.98	428	17736m	0.0488	ng	-4.3
143) Cl7(177)		28.08	394	15447m	0.0515	ng	1.0
144) Cl8(201)		28.21t	428	18389m	0.0495	ng	-1.0
145) Cl7(171) -S1	(0.309)	28.21t	391	209	No Calib		
146) Cl7(171)		28.21t	394	16911m	0.0520	ng	
Corrected Values:				16846	0.0518	ng	3.6
147) Cl7(173)		28.29	394	14206m	0.0497	ng	-1.1
148) Cl8(197)		28.42	428	17601m	0.0489	ng	-3.6
149) Cl6(156) -S1	(0.265)	28.54t	357	2691	No Calib		
150) Cl6(156)		28.51	360	26684m	0.0534	ng	
Corrected Values:				25971	0.0520	ng	2.0
151) Cl7(172)		28.54t	394	15089	0.0487	ng	-3.9
152) Cl6(157)		28.60	360	25634m	0.0527	ng	5.4
153) Cl7(180)		28.74	394	18781m	0.0530	ng	3.9
154) Cl7(193) -S1	(0.309)	28.83t	391	221	No Calib		
155) Cl7(193)		28.79	394	20269m	0.0487	ng	
Corrected Values:				20201	0.0486	ng	-3.0
156) Cl8(200)		28.83t	428	18007m	0.0503	ng	0.2
157) Cl7(191)		28.91	394	20801m	0.0465	ng	-7.2
158) Cl7(170) -S1	(0.309)	29.51tw	391	3698	No Calib		
159) Cl7(170)		29.46	394	16853	0.0560	ng	
Corrected Values:				15710	0.0523	ng	2.5
160) Cl8(198)		29.48	428	13409m	0.0523	ng	3.6
161) Cl8(199)		29.52tw	428	12317m	0.0486	ng	-2.8
162) Cl7(190)		29.57	394	20547m	0.0487	ng	-3.2
163) Cl6(169) -S2	(1.610)	29.69t	356	5599	No Calib		
164) Cl6(169)		29.65	360	32519m	0.0722	ng	
Corrected Values:				23505	0.0529	ng	3.7
165) Cl8(203)		29.69t	428	14899m	0.0525	ng	2.9
166) Cl9(208)		30.20	464	15436m	0.0483	ng	-5.3
167) Cl7(189)		30.33	394	20208m	0.0501	ng	-1.8
168) Cl9(207)		30.39t	464	16350m	0.0475	ng	-5.2
169) Cl8(195) -S1	(0.400)	30.39t	425	102	No Calib		

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9126.D MF0782.M Mon Mar 02 14:04:38 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9126.D
 Acq On : 11 Feb 2015 11:18 pm
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 16 09:26:41 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 16 09:23:51 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%DIF
170) Cl8(195)		30.40tw	428	13633m	0.0530 ng	
Corrected Values:				13592	0.0529 ng	3.7
171) Cl8(194)		30.89	428	12167m	0.0475 ng	-6.9
172) Cl8(205)		31.05	428	16433m	0.0500 ng	-2.0
173) Cl9(206)		31.55	464	10595m	0.0451 ng	-11.6
174) Cl10(209)		32.06	498	11391m	0.0444 ng	-14.6

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9126.D MF0782.M Mon Mar 02 14:04:38 2015 040221CFS

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Data File : G:\F\DATA\SF0782\F9220.D

Vial: 40

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Acq On : 19 Feb 2015 6:19 pm

Operator: RR/BL

Sample : ID17 mid

Inst : Inst. F

Misc : 5-315 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 20 16:12:54 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 20 16:12:49 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	60889m	0.1000	ng
78) Cl6(161)	25.73t	360	49167m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29tw	255	2019m	0.0000	ng
27) Cl3(34)	15.28tw	256	27892m	0.0388	ng
Spiked Amount	0.0400		Recovery	=	96.00%
Corrected Values:			27619	0.0384	ng
114) Cl6(152)	22.42	360	19645m	0.0405	ng
Spiked Amount	0.0402		Recovery	=	100.85%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	72714m	0.0367	ng
3) Cl1(1)		9.94	188	57114m	0.0390	ng
4) Cl1(3)		11.13	188	52381m	0.0372	ng
5) Cl2(4)		11.42	222	27516m	0.0388	ng
6) Cl2(7)		12.31	222	40781m	0.0397	ng
7) Cl2(9)		12.26	222	46607m	0.0378	ng
8) Cl2(6)		12.54	222	44348m	0.0387	ng
9) Cl2(5)		12.76	222	40852m	0.0383	ng
10) Cl2(8)		12.83	222	46545m	0.0382	ng
11) Cl3(19)		13.30	256	18399m	0.0392	ng
12) Cl3(30)		13.69	256	28205m	0.0383	ng
13) Cl2(11)-S1 (0.135)		14.14tw	221	10184	No Calib	
14) Cl2(11)		14.13tw	222	42675m	0.0400	ng
Corrected Values:				41300	0.0387	ng
15) Cl3(18)		14.15tw	256	20596m	0.0385	ng
16) Cl3(17)		14.26	256	20457m	0.0381	ng
17) Cl2(12)		14.35	222	39429m	0.0379	ng
18) Cl2(13)-S1 (0.135)		14.50t	221	1281	No Calib	
19) Cl2(13)		14.49tw	222	37214m	0.0370	ng
Corrected Values:				37041	0.0369	ng
20) Cl3(27)		14.50t	256	28628m	0.0382	ng
21) Cl3(24)		14.62	256	27498m	0.0386	ng
22) Cl3(16)		14.83	256	15586m	0.0381	ng
23) Cl2(15)		14.88	222	45297m	0.0394	ng
24) Cl3(32)		14.95	256	29752m	0.0402	ng
25) Cl4(54)		15.30tw	292	27289m	0.0373	ng
28) Cl3(29)		15.52	256	27440m	0.0381	ng
29) Cl3(26)-S1 (0.135)		15.87tw	255	6342	No Calib	
30) Cl3(26)		15.83	256	31008m	0.0394	ng
Corrected Values:				30152	0.0383	ng
31) Cl4(50)		15.88tw	292	19634m	0.0383	ng
32) Cl3(25)		15.95	256	28836m	0.0392	ng
33) Cl3(31)-S1 (0.135)		16.32tw	255	6826	No Calib	
34) Cl3(31)		16.29	256	33087m	0.0421	ng
Corrected Values:				32165	0.0410	ng
35) Cl4(53)		16.33tw	292	20531m	0.0393	ng
36) Cl3(28)		16.40	256	29892m	0.0389	ng
37) Cl3(33)		16.51	256	27852m	0.0392	ng
38) Cl4(51)		16.59	292	20536m	0.0386	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9220.D MF0782.M Mon Mar 02 14:04:47 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9220.D

Acq On : 19 Feb 2015 6:19 pm

Sample : ID17 mid

Misc : 5-315 CCV

MS Integration Params: rteint.p

Vial: 40

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 20 16:12:54 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 20 16:12:49 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4 (45)		16.91	292	17107m	0.0388 ng
40) Cl3 (22)		17.00	256	27430m	0.0392 ng
41) Cl4 (46)		17.18	292	15561m	0.0387 ng
42) Cl4 (43)		17.56	292	17823m	0.0427 ng
43) Cl4 (52)		17.62	292	18763m	0.0397 ng
44) Cl4 (48)		17.77	292	20835m	0.0393 ng
45) Cl4 (49)		17.83	292	18627m	0.0392 ng
46) Cl5 (104)		18.02t	326	23669m	0.0379 ng
47) Cl4 (47) -S1	(0.174)	18.02t	289	770	No Calib
48) Cl4 (47)		18.02t	292	22577m	0.0377 ng
Corrected Values:				22443	0.0375 ng
49) Cl4 (75)		18.10	292	27672m	0.0393 ng
50) Cl4 (44)		18.46	292	17832m	0.0390 ng
51) Cl4 (42)		18.68	292	17279m	0.0382 ng
52) Cl4 (71)		18.90	292	25544m	0.0390 ng
53) Cl4 (41)		19.00	292	15228m	0.0397 ng
54) Cl4 (64)		19.29	292	26616m	0.0386 ng
55) Cl4 (40)		19.36t	292	14387m	0.0385 ng
56) Cl3 (37) -S1	(0.135)	19.36t	255	8281	No Calib
57) Cl3 (37)		19.35tw	256	28580	0.0400 ng
Corrected Values:				27462	0.0385 ng
58) Cl5 (100)		19.71	326	18120	0.0385 ng
59) Cl4 (67)		20.01	292	25522m	0.0389 ng
60) Cl4 (63)		20.41	292	24790m	0.0394 ng
61) Cl5 (95)		20.55	326	16133m	0.0396 ng
62) Cl4 (74)		20.62	292	27040m	0.0390 ng
63) Cl4 (70)		20.75	292	26868m	0.0396 ng
64) Cl5 (91) -S1	(0.220)	20.99t	323	294	No Calib
65) Cl5 (91)		20.92t	326	18073m	0.0393 ng
Corrected Values:				18008	0.0392 ng
66) Cl4 (66) -S1	(0.174)	20.92t	289	5032	No Calib
67) Cl4 (66) -S2	(0.650)	20.99t	288	8984	No Calib
68) Cl4 (66)		20.95	292	32329m	0.0491 ng
Corrected Values:				25613	0.0391 ng
69) Cl6 (155)		20.99t	360	22046	0.0385 ng
70) Cl4 (80)		21.26	292	25043	0.0390 ng
71) Cl5 (92)		21.55Tw	326	16806m	0.0399 ng
72) Cl5 (84)		21.56t	326	14719m	0.0404 ng
73) Cl4 (56) -S1	(0.174)	21.56t	289	9595	No Calib
74) Cl4 (56)		21.61	292	27700m	0.0423 ng
Corrected Values:				26030	0.0398 ng
75) Cl4 (60) -S1	(0.174)	21.85tw	289	2453	No Calib
76) Cl4 (60)		21.86t	292	25517	0.0399 ng
Corrected Values:				25090	0.0393 ng
77) Cl5 (101)		21.86t	326	19248m	0.0397 ng
79) Cl5 (99)		22.12	326	18773m	0.0381 ng
80) Cl5 (83)		22.51	326	14880m	0.0414 ng
81) Cl5 (125)		22.66	326	22727m	0.0401 ng
82) Cl5 (97)		22.81	326	16203m	0.0390 ng
83) Cl5 (87)		23.26	326	16491m	0.0400 ng

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9220.D MF0782.M Mon Mar 02 14:04:47 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9220.D
 Acq On : 19 Feb 2015 6:19 pm
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 40
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 20 16:12:54 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 20 16:12:49 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	18879	0.0389 ng
85) Cl5(115)		23.46	326	24587m	0.0383 ng
86) Cl6(154)		23.53	360	16705m	0.0375 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.51	326	16102m	0.0396 ng
Corrected Values:				16102	0.0396 ng
89) Cl5(110)		23.78	326	23321m	0.0388 ng
90) Cl4(81)		23.88	292	24079m	0.0388 ng
91) Cl5(82)-S1	(0.220)	24.21tw	323	2831	No Calib
92) Cl5(82)		24.23tw	326	15015	0.0404 ng
Corrected Values:				14392	0.0388 ng
93) Cl6(151)		24.22tw	360	14427m	0.0386 ng
94) Cl6(135)		24.32	360	13991m	0.0385 ng
95) Cl4(77)-S2	(0.650)	24.45tw	288	8019	No Calib
96) Cl4(77)		24.42	292	29096m	0.0480 ng
Corrected Values:				23884	0.0396 ng
97) Cl6(144)		24.46tw	360	14661m	0.0383 ng
98) Cl6(149)		24.68	360	15515m	0.0393 ng
99) Cl6(139)		24.80	360	15591m	0.0395 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	2300	No Calib
101) Cl5(124)		24.85	326	24094	0.0386 ng
Corrected Values:				23588	0.0378 ng
102) Cl6(140)		24.90t	360	14838m	0.0385 ng
103) Cl5(123)		25.06	326	21903	0.0381 ng
104) Cl6(134)		25.15	360	12100m	0.0384 ng
105) Cl7(188)		25.25t	394	16970m	0.0382 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	3573	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	5769	No Calib
108) Cl5(118)		25.27	326	29730	0.0497 ng
Corrected Values:				22713	0.0382 ng
109) Cl6(131)		25.31t	360	13990m	0.0397 ng
110) Cl7(184)		25.55	394	16698m	0.0382 ng
111) Cl6(146)		25.62	360	15550m	0.0372 ng
112) Cl5(114)-S1	(0.220)	25.73t	323	598	No Calib
113) Cl5(114)		25.65	326	23204m	0.0390 ng
Corrected Values:				23072	0.0388 ng
115) Cl6(153)		25.88	360	16508	0.0385 ng
116) Cl7(179)		26.11	394	15735m	0.0380 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	1950	No Calib
118) Cl5(105)		26.23	326	22287m	0.0402 ng
Corrected Values:				21858	0.0395 ng
119) Cl6(141)		26.27t	360	13690m	0.0384 ng
120) Cl7(176)		26.37	394	15482m	0.0383 ng
121) Cl6(127)-S1	(0.265)	26.49t	323	1698	No Calib
122) Cl5(127)		26.50tw	326	24552m	0.0403 ng
123) Cl6(137)		26.49t	360	14248m	0.0387 ng
124) Cl6(130)		26.63	360	14201m	0.0400 ng
125) Cl6(164)		26.68	360	19451m	0.0404 ng
126) Cl6(138)		26.81	360	16558m	0.0387 ng
127) Cl6(163)-S1	(0.265)	26.92t	357	2437	No Calib

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9220.D MF0782.M Mon Mar 02 14:04:48 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9220.D

Acq On : 19 Feb 2015 6:19 pm

Sample : ID17 mid

Misc : 5-315 CCV

MS Integration Params: rteint.p

Vial: 40

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 20 16:12:54 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 20 16:12:49 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.87	360	19164m	0.0420 ng
Corrected Values:				18518	0.0407 ng
129) Cl7(178)		26.92t	394	11595	0.0376 ng
130) Cl6(158)		26.96	360	19968	0.0385 ng
131) Cl7(175)		27.10	394	12795m	0.0395 ng
132) Cl7(187)		27.18	394	13802m	0.0397 ng
133) Cl6(166)-S1	(0.265)	27.35t	357	1002	No Calib
134) Cl6(166)		27.35t	360	19356m	0.0399 ng
Corrected Values:				19090	0.0394 ng
135) Cl7(183)		27.35t	394	12963m	0.0387 ng
136) Cl5(126)		27.51	326	21160m	0.0409 ng
137) Cl6(128)-S1	(0.265)	27.70t	357	1598	No Calib
138) Cl6(128)		27.67	360	13970m	0.0399 ng
Corrected Values:				13547	0.0387 ng
139) Cl7(185)		27.70t	394	11968m	0.0397 ng
140) Cl7(174)		27.81	394	11533m	0.0384 ng
141) Cl6(167)		27.90	360	19411m	0.0400 ng
142) Cl8(202)		27.98	428	13358m	0.0386 ng
143) Cl7(177)		28.08	394	11365m	0.0398 ng
144) Cl8(201)		28.20t	428	13130m	0.0373 ng
145) Cl7(171)-S1	(0.309)	28.20t	391	149	No Calib
146) Cl7(171)		28.21tw	394	11676m	0.0378 ng
Corrected Values:				11630	0.0376 ng
147) Cl7(173)		28.29	394	10533m	0.0387 ng
148) Cl8(197)		28.42	428	13134	0.0383 ng
149) Cl6(156)-S1	(0.265)	28.54tw	357	1868	No Calib
150) Cl6(156)		28.51	360	19598m	0.0413 ng
Corrected Values:				19103	0.0402 ng
151) Cl7(172)		28.55tw	394	11443m	0.0390 ng
152) Cl6(157)		28.61	360	18227m	0.0395 ng
153) Cl7(180)		28.74	394	13104m	0.0389 ng
154) Cl7(193)-S1	(0.309)	28.83t	391	107	No Calib
155) Cl7(193)		28.79	394	15987m	0.0404 ng
Corrected Values:				15954	0.0403 ng
156) Cl8(200)		28.83t	428	13014m	0.0382 ng
157) Cl7(191)		28.92	394	16265m	0.0383 ng
158) Cl7(170)-S1	(0.309)	29.51t	391	2647	No Calib
159) Cl7(170)		29.46	394	12071	0.0421 ng
Corrected Values:				11253	0.0393 ng
160) Cl8(198)		29.48	428	9533m	0.0390 ng
161) Cl8(199)		29.51t	428	8949m	0.0373 ng
162) Cl7(190)		29.57	394	15629m	0.0389 ng
163) Cl6(169)-S2	(1.610)	29.69t	356	3902	No Calib
164) Cl6(169)		29.65	360	23553m	0.0552 ng
Corrected Values:				17271	0.0410 ng
165) Cl8(203)		29.69t	428	10325m	0.0383 ng
166) Cl9(208)		30.20	464	11488m	0.0377 ng
167) Cl7(189)		30.33	394	15016m	0.0391 ng
168) Cl9(207)		30.39tw	464	12493m	0.0381 ng
169) Cl8(195)-S1	(0.400)	30.40t	425	82	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9220.D MF0782.M Mon Mar 02 14:04:48 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9220.D

Vial: 40

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Acq On : 19 Feb 2015 6:19 pm

Operator: RR/BL

Sample : ID17 mid

Inst : Inst. F

Misc : 5-315 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 20 16:12:54 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 20 16:12:49 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40t	428	9468m	0.0387 ng
Corrected Values:				9435	0.0386 ng
171) Cl8(194)		30.89	428	9148m	0.0375 ng
172) Cl8(205)		31.05	428	12034m	0.0384 ng
173) Cl9(206)		31.55	464	8244m	0.0368 ng
174) Cl10(209)		32.06	498	9142m	0.0372 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9220.D MF0782.M Mon Mar 02 14:04:48 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9230.D
 Acq On : 20 Feb 2015 2:18 am
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 50
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 23 15:03:12 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 23 15:03:02 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	65993m	0.1000	ng
78) Cl6(161)	25.73t	360	54316m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	4578m	0.0000	ng
27) Cl3(34)	15.29t	256	63935m	0.0816	ng
Spiked Amount	0.0800			Recovery	= 101.00%
Corrected Values:			63317	0.0808	ng
114) Cl6(152)	22.41	360	45224m	0.0834	ng
Spiked Amount	0.0803			Recovery	= 103.83%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.75	154	155344m	0.0725	ng
3) Cl1(1)	9.94	188	118906m	0.0750	ng
4) Cl1(3)	11.13	188	113699m	0.0743	ng
5) Cl2(4)	11.42	222	58320m	0.0758	ng
6) Cl2(7)	12.31	222	87947m	0.0786	ng
7) Cl2(9)	12.26	222	103044m	0.0764	ng
8) Cl2(6)	12.54	222	97861m	0.0785	ng
9) Cl2(5)	12.76	222	88957m	0.0768	ng
10) Cl2(8)	12.83	222	105085m	0.0793	ng
11) Cl3(19)	13.30	256	39637m	0.0774	ng
12) Cl3(30)	13.70	256	64479m	0.0802	ng
13) Cl2(11)-S1 (0.135)	14.14tw	221	22687	No Calib	
14) Cl2(11)	14.13tw	222	95137m	0.0819	ng
Corrected Values:			92074	0.0792	ng
15) Cl3(18)	14.15tw	256	46932m	0.0802	ng
16) Cl3(17)	14.26	256	46380m	0.0792	ng
17) Cl2(12)	14.35	222	90454m	0.0796	ng
18) Cl2(13)-S1 (0.135)	14.50t	221	2628	No Calib	
19) Cl2(13)	14.49tw	222	87809m	0.0798	ng
Corrected Values:			87454	0.0795	ng
20) Cl3(27)	14.50t	256	64148m	0.0782	ng
21) Cl3(24)	14.63	256	61423m	0.0793	ng
22) Cl3(16)	14.83	256	35244m	0.0789	ng
23) Cl2(15)	14.88	222	97652m	0.0779	ng
24) Cl3(32)	14.95	256	63871m	0.0791	ng
25) Cl4(54)	15.30tw	292	60924m	0.0772	ng
28) Cl3(29)	15.52	256	64235m	0.0816	ng
29) Cl3(26)-S1 (0.135)	15.87tw	255	14394	No Calib	
30) Cl3(26)	15.83	256	72908m	0.0848	ng
Corrected Values:			70965	0.0826	ng
31) Cl4(50)	15.88tw	292	45057m	0.0804	ng
32) Cl3(25)	15.95	256	65607m	0.0818	ng
33) Cl3(31)-S1 (0.135)	16.32t	255	15180	No Calib	
34) Cl3(31)	16.29	256	73272m	0.0854	ng
Corrected Values:			71223	0.0831	ng
35) Cl4(53)	16.32t	292	45499m	0.0799	ng
36) Cl3(28)	16.40	256	70476m	0.0839	ng
37) Cl3(33)	16.51	256	62656m	0.0806	ng
38) Cl4(51)	16.59	292	46803m	0.0804	ng

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9230.D MF0782.M Mon Mar 02 14:04:59 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9230.D
 Acq On : 20 Feb 2015 2:18 am
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 50
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 23 15:03:12 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 23 15:03:02 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.92	292	38828m	0.0806 ng
40) Cl3(22)		17.00	256	63907m	0.0834 ng
41) Cl4(46)		17.18	292	35105m	0.0798 ng
42) Cl4(43)		17.56	292	41499m	0.0908 ng
43) Cl4(52)		17.63	292	44467m	0.0864 ng
44) Cl4(48)		17.77	292	47475m	0.0809 ng
45) Cl4(49)		17.84	292	44620m	0.0864 ng
46) Cl5(104)		18.02t	326	53928m	0.0799 ng
47) Cl4(47)-S1	(0.174)	18.02t	289	1930	No Calib
48) Cl4(47)		18.03tw	292	52386m	0.0799 ng
Corrected Values:				52050	0.0794 ng
49) Cl4(75)		18.10	292	64220m	0.0837 ng
50) Cl4(44)		18.47	292	41734m	0.0834 ng
51) Cl4(42)		18.68	292	41216m	0.0831 ng
52) Cl4(71)		18.90	292	60521m	0.0849 ng
53) Cl4(41)		19.00	292	35551m	0.0849 ng
54) Cl4(64)		19.29	292	62074m	0.0824 ng
55) Cl4(40)		19.37tw	292	34823m	0.0853 ng
56) Cl3(37)-S1	(0.135)	19.36t	255	19804	No Calib
57) Cl3(37)		19.36t	256	66984m	0.0855 ng
Corrected Values:				64310	0.0822 ng
58) Cl5(100)		19.72	326	43706m	0.0849 ng
59) Cl4(67)		20.01	292	62644m	0.0866 ng
60) Cl4(63)		20.41	292	59600m	0.0862 ng
61) Cl5(95)		20.55	326	37191m	0.0830 ng
62) Cl4(74)		20.61	292	64628m	0.0848 ng
63) Cl4(70)		20.75	292	63368m	0.0851 ng
64) Cl5(91)-S1	(0.220)	21.00t	323	691	No Calib
65) Cl5(91)		20.92t	326	41828m	0.0830 ng
Corrected Values:				41676	0.0827 ng
66) Cl4(66)-S1	(0.174)	20.92t	289	11906	No Calib
67) Cl4(66)-S2	(0.650)	20.99tw	288	20887	No Calib
68) Cl4(66)		20.95	292	75955m	0.1052 ng
Corrected Values:				60306	0.0838 ng
69) Cl6(155)		21.00t	360	51092m	0.0813 ng
70) Cl4(80)		21.27	292	61148m	0.0866 ng
71) Cl5(92)		21.56T	326	36582m	0.0793 ng
72) Cl5(84)		21.56T	326	34540m	0.0892 ng
73) Cl4(56)-S1	(0.174)	21.57tw	289	21844	No Calib
74) Cl4(56)		21.61	292	65504m	0.0911 ng
Corrected Values:				61703	0.0859 ng
75) Cl4(60)-S1	(0.174)	21.85t	289	5591	No Calib
76) Cl4(60)		21.87	292	60439m	0.0862 ng
Corrected Values:				59466	0.0849 ng
77) Cl5(101)		21.85t	326	44789m	0.0842 ng
79) Cl5(99)		22.12	326	45963m	0.0830 ng
80) Cl5(83)		22.52	326	32381m	0.0802 ng
81) Cl5(125)		22.66	326	50825m	0.0801 ng
82) Cl5(97)		22.81	326	38455m	0.0823 ng
83) Cl5(87)		23.26	326	38352m	0.0827 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9230.D MF0782.M Mon Mar 02 14:04:59 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9230.D
 Acq On : 20 Feb 2015 2:18 am
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 50
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 23 15:03:12 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 23 15:03:02 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	42871m	0.0792 ng
85) Cl5(115)		23.47	326	63028m	0.0864 ng
86) Cl6(154)		23.53	360	39649m	0.0790 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.51	326	33587m	0.0746 ng
Corrected Values:				33587	0.0746 ng
89) Cl5(110)		23.78	326	54920m	0.0815 ng
90) Cl4(81)		23.88	292	58241m	0.0827 ng
91) Cl5(82)-S1	(0.220)	24.22t	323	7224	No Calib
92) Cl5(82)		24.22t	326	36003m	0.0861 ng
Corrected Values:				34414	0.0824 ng
93) Cl6(151)		24.22t	360	34339m	0.0812 ng
94) Cl6(135)		24.32	360	32036m	0.0785 ng
95) Cl4(77)-S2	(0.650)	24.45tw	288	19512	No Calib
96) Cl4(77)		24.42	292	70575m	0.1029 ng
Corrected Values:				57892	0.0850 ng
97) Cl6(144)		24.46tw	360	34621m	0.0802 ng
98) Cl6(149)		24.68	360	36853m	0.0829 ng
99) Cl6(139)		24.80	360	35528m	0.0800 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	5485	No Calib
101) Cl5(124)		24.85	326	58924m	0.0835 ng
Corrected Values:				57717	0.0819 ng
102) Cl6(140)		24.90t	360	34390m	0.0793 ng
103) Cl5(123)		25.06	326	54507m	0.0837 ng
104) Cl6(134)		25.15	360	28447m	0.0799 ng
105) Cl7(188)		25.25t	394	39937m	0.0798 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	7545	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	13955	No Calib
108) Cl5(118)		25.28	326	71935m	0.1068 ng
Corrected Values:				55204	0.0826 ng
109) Cl6(131)		25.31t	360	31468m	0.0788 ng
110) Cl7(184)		25.55	394	40150m	0.0817 ng
111) Cl6(146)		25.63	360	38407m	0.0805 ng
112) Cl5(114)-S1	(0.220)	25.73t	323	740	No Calib
113) Cl5(114)		25.65	326	54621m	0.0812 ng
Corrected Values:				54458	0.0810 ng
115) Cl6(153)		25.88	360	39086m	0.0809 ng
116) Cl7(179)		26.11	394	37859m	0.0811 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	4686	No Calib
118) Cl5(105)		26.23	326	53196m	0.0854 ng
Corrected Values:				52165	0.0838 ng
119) Cl6(141)		26.27t	360	32213m	0.0798 ng
120) Cl7(176)		26.37	394	36453m	0.0802 ng
121) Cl6(127)-S1	(0.265)	26.49t	323	3779	No Calib
122) Cl5(127)		26.51	326	55843m	0.0819 ng
123) Cl6(137)		26.49t	360	32878m	0.0792 ng
124) Cl6(130)		26.63	360	30063m	0.0752 ng
125) Cl6(164)		26.69	360	42618m	0.0789 ng
126) Cl6(138)		26.81	360	36471m	0.0758 ng
127) Cl6(163)-S1	(0.265)	26.92t	357	5427	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9230.D MF0782.M Mon Mar 02 14:05:00 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9230.D
 Acq On : 20 Feb 2015 2:18 am
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 50
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 23 15:03:12 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 23 15:03:02 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	43477m	0.0845 ng
Corrected Values:				42039	0.0818 ng
129) Cl7(178)		26.92t	394	26511m	0.0760 ng
130) Cl6(158)		26.96	360	44910	0.0769 ng
131) Cl7(175)		27.10	394	27866m	0.0765 ng
132) Cl7(187)		27.18	394	30230m	0.0774 ng
133) Cl6(166) -S1	(0.265)	27.36t	357	2500	No Calib
134) Cl6(166)		27.35tw	360	43336m	0.0796 ng
Corrected Values:				42673	0.0784 ng
135) Cl7(183)		27.36t	394	28944m	0.0766 ng
136) Cl5(126)		27.51	326	47854m	0.0821 ng
137) Cl6(128) -S1	(0.265)	27.70t	357	3404	No Calib
138) Cl6(128)		27.67	360	31241m	0.0794 ng
Corrected Values:				30339	0.0771 ng
139) Cl7(185)		27.70t	394	25814m	0.0760 ng
140) Cl7(174)		27.81	394	26029m	0.0767 ng
141) Cl6(167)		27.90	360	43995m	0.0803 ng
142) Cl8(202)		27.98	428	27793m	0.0718 ng
143) Cl7(177)		28.08	394	24166m	0.0755 ng
144) Cl8(201)		28.21t	428	27934m	0.0705 ng
145) Cl7(171) -S1	(0.309)	28.20tw	391	315	No Calib
146) Cl7(171)		28.21t	394	25072m	0.0724 ng
Corrected Values:				24975	0.0721 ng
147) Cl7(173)		28.29	394	22321m	0.0733 ng
148) Cl8(197)		28.42	428	27669m	0.0721 ng
149) Cl6(156) -S1	(0.265)	28.55t	357	4259	No Calib
150) Cl6(156)		28.51	360	42844m	0.0801 ng
Corrected Values:				41715	0.0781 ng
151) Cl7(172)		28.55t	394	24501m	0.0737 ng
152) Cl6(157)		28.61	360	40097m	0.0770 ng
153) Cl7(180)		28.74	394	28118m	0.0745 ng
154) Cl7(193) -S1	(0.309)	28.83t	391	356	No Calib
155) Cl7(193)		28.79	394	32752m	0.0736 ng
Corrected Values:				32642	0.0734 ng
156) Cl8(200)		28.83t	428	26444m	0.0694 ng
157) Cl7(191)		28.92	394	35938m	0.0750 ng
158) Cl7(170) -S1	(0.309)	29.48t	391	5870	No Calib
159) Cl7(170)		29.46	394	27065m	0.0844 ng
Corrected Values:				25251	0.0789 ng
160) Cl8(198)		29.48t	428	19960m	0.0732 ng
161) Cl8(199)		29.51	428	19109m	0.0703 ng
162) Cl7(190)		29.57	394	33549	0.0744 ng
163) Cl6(169) -S2	(1.610)	29.69tw	356	8729	No Calib
164) Cl6(169)		29.65	360	50804m	0.1051 ng
Corrected Values:				36750	0.0770 ng
165) Cl8(203)		29.70tw	428	21355m	0.0706 ng
166) Cl9(208)		30.20	464	23588m	0.0694 ng
167) Cl7(189)		30.33	394	33148m	0.0769 ng
168) Cl9(207)		30.39t	464	24289m	0.0661 ng
169) Cl8(195) -S1	(0.400)	30.39t	425	193	No Calib

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9230.D MF0782.M Mon Mar 02 14:05:00 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9230.D

Vial: 50

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Acq On : 20 Feb 2015 2:18 am

Operator: RR/BL

Sample : ID18 MID

Inst : Inst. F

Misc : 5-315 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 23 15:03:12 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Feb 23 15:03:02 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	19046m	0.0698 ng
Corrected Values:				18969	0.0695 ng
171) Cl8(194)		30.89	428	20304m	0.0742 ng
172) Cl8(205)		31.05	428	25044m	0.0716 ng
173) Cl9(206)		31.55	464	16823m	0.0674 ng
174) Cl10(209)		32.05	498	17502m	0.0646 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9230.D MF0782.M Mon Mar 02 14:05:00 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9240.D

Vial: 60

Acq On : 20 Feb 2015 10:16 am

Operator: RR/BL

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Sample : ID17 MID

Inst : Inst. F

Misc : 5-315 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 23 16:33:23 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Feb 23 16:28:56 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	78704m	0.1000	ng
78) Cl6(161)	25.73t	360	64940m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	2835m	0.0000	ng
27) Cl3(34)	15.29t	256	36570m	0.0393	ng
Spiked Amount	0.0400		Recovery	=	97.25%
Corrected Values:			36187	0.0389	ng
114) Cl6(152)	22.41	360	26604m	0.0415	ng
Spiked Amount	0.0402		Recovery	=	103.34%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	88633m	0.0346	ng
3) Cl1(1)		9.94	188	69626m	0.0368	ng
4) Cl1(3)		11.13	188	67046m	0.0368	ng
5) Cl2(4)		11.42	222	34226m	0.0374	ng
6) Cl2(7)		12.30	222	49764m	0.0375	ng
7) Cl2(9)		12.26	222	61047m	0.0383	ng
8) Cl2(6)		12.54	222	55128m	0.0373	ng
9) Cl2(5)		12.76	222	52921m	0.0384	ng
10) Cl2(8)		12.83	222	59474m	0.0378	ng
11) Cl3(19)		13.30	256	23289m	0.0383	ng
12) Cl3(30)		13.69	256	36614m	0.0385	ng
13) Cl2(11)-S1 (0.135)		14.14tw	221	13010	No Calib	
14) Cl2(11)		14.13tw	222	55204m	0.0400	ng
Corrected Values:				53448	0.0388	ng
15) Cl3(18)		14.15tw	256	26181m	0.0379	ng
16) Cl3(17)		14.26	256	26372m	0.0380	ng
17) Cl2(12)		14.35	222	50632m	0.0376	ng
18) Cl2(13)-S1 (0.135)		14.50t	221	1563	No Calib	
19) Cl2(13)		14.49tw	222	48941m	0.0377	ng
Corrected Values:				48730	0.0375	ng
20) Cl3(27)		14.50t	256	36426m	0.0376	ng
21) Cl3(24)		14.62	256	35127m	0.0381	ng
22) Cl3(16)		14.83	256	20171m	0.0381	ng
23) Cl2(15)		14.88	222	54365m	0.0367	ng
24) Cl3(32)		14.95	256	37008m	0.0387	ng
25) Cl4(54)		15.30tw	292	34860m	0.0369	ng
28) Cl3(29)		15.51	256	36213m	0.0389	ng
29) Cl3(26)-S1 (0.135)		15.87tw	255	8025	No Calib	
30) Cl3(26)		15.83	256	40374m	0.0397	ng
Corrected Values:				39291	0.0386	ng
31) Cl4(50)		15.88tw	292	25215m	0.0381	ng
32) Cl3(25)		15.95	256	37505m	0.0394	ng
33) Cl3(31)-S1 (0.135)		16.32t	255	8448	No Calib	
34) Cl3(31)		16.29	256	41888m	0.0413	ng
Corrected Values:				40748	0.0402	ng
35) Cl4(53)		16.32t	292	25888m	0.0383	ng
36) Cl3(28)		16.40	256	38323m	0.0386	ng
37) Cl3(33)		16.50	256	35725m	0.0389	ng
38) Cl4(51)		16.59	292	26629m	0.0387	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9240.D MF0782.M Mon Mar 02 14:05:18 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9240.D
 Acq On : 20 Feb 2015 10:16 am
 Sample : ID17 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 60
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 23 16:33:23 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 23 16:28:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	22295m	0.0391 ng
40) Cl3(22)		16.99	256	35382m	0.0392 ng
41) Cl4(46)		17.18	292	20023m	0.0385 ng
42) Cl4(43)		17.55	292	21234m	0.0394 ng
43) Cl4(52)		17.62	292	24118m	0.0394 ng
44) Cl4(48)		17.77	292	24971m	0.0366 ng
45) Cl4(49)		17.83	292	27097m	0.0441 ng
46) Cl5(104)		18.02t	326	30830m	0.0382 ng
47) Cl4(47)-S1	(0.174)	18.02t	289	1101	No Calib
48) Cl4(47)		18.02t	292	29306m	0.0379 ng
Corrected Values:				29114	0.0376 ng
49) Cl4(75)		18.10	292	35361m	0.0389 ng
50) Cl4(44)		18.46	292	23642m	0.0400 ng
51) Cl4(42)		18.68	292	22791m	0.0390 ng
52) Cl4(71)		18.90	292	33145m	0.0392 ng
53) Cl4(41)		19.00	292	19292m	0.0389 ng
54) Cl4(64)		19.29	292	35458m	0.0398 ng
55) Cl4(40)		19.36t	292	18704m	0.0387 ng
56) Cl3(37)-S1	(0.135)	19.36t	255	10811	No Calib
57) Cl3(37)		19.35tw	256	37093m	0.0401 ng
Corrected Values:				35634	0.0386 ng
58) Cl5(100)		19.72	326	24167m	0.0397 ng
59) Cl4(67)		20.01	292	34261m	0.0403 ng
60) Cl4(63)		20.41	292	32798m	0.0403 ng
61) Cl5(95)		20.55	326	21608m	0.0410 ng
62) Cl4(74)		20.61	292	35448m	0.0395 ng
63) Cl4(70)		20.75	292	34884m	0.0398 ng
64) Cl5(91)-S1	(0.220)	21.01	323	418	No Calib
65) Cl5(91)		20.92tw	326	23652m	0.0398 ng
Corrected Values:				23560	0.0397 ng
66) Cl4(66)-S1	(0.174)	20.91tw	289	5496	No Calib
67) Cl4(66)-S2	(0.650)	20.99t	288	11265	No Calib
68) Cl4(66)		20.95	292	42456m	0.0499 ng
Corrected Values:				34178	0.0403 ng
69) Cl6(155)		20.99t	360	29011m	0.0392 ng
70) Cl4(80)		21.26	292	33465m	0.0403 ng
71) Cl5(92)		21.56T	326	22317m	0.0409 ng
72) Cl5(84)		21.56T	326	18771m	0.0399 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	12537	No Calib
74) Cl4(56)		21.61	292	35907m	0.0424 ng
Corrected Values:				33726	0.0399 ng
75) Cl4(60)-S1	(0.174)	21.86t	289	3394	No Calib
76) Cl4(60)		21.86t	292	33565m	0.0406 ng
Corrected Values:				32974	0.0399 ng
77) Cl5(101)		21.86t	326	25561m	0.0408 ng
79) Cl5(99)		22.12	326	25403m	0.0390 ng
80) Cl5(83)		22.51	326	18857m	0.0398 ng
81) Cl5(125)		22.65	326	29984m	0.0401 ng
82) Cl5(97)		22.80	326	21191m	0.0387 ng
83) Cl5(87)		23.26	326	21773m	0.0400 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9240.D MF0782.M Mon Mar 02 14:05:18 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9240.D
 Acq On : 20 Feb 2015 10:16 am
 Sample : ID17 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 60
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 23 16:33:23 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 23 16:28:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	25132m	0.0392 ng
85) Cl5(115)		23.46	326	32998m	0.0389 ng
86) Cl6(154)		23.53tw	360	22400m	0.0380 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.52tw	326	21063m	0.0392 ng
Corrected Values:				21063	0.0392 ng
89) Cl5(110)		23.77	326	31338m	0.0395 ng
90) Cl4(81)		23.88	292	32617m	0.0398 ng
91) Cl5(82)-S1	(0.220)	24.21tw	323	3976	No Calib
92) Cl5(82)		24.22t	326	20030m	0.0408 ng
Corrected Values:				19155	0.0391 ng
93) Cl6(151)		24.22t	360	18873m	0.0382 ng
94) Cl6(135)		24.32	360	18032m	0.0376 ng
95) Cl4(77)-S2	(0.650)	24.45tw	288	10851	No Calib
96) Cl4(77)		24.42	292	38360m	0.0479 ng
Corrected Values:				31307	0.0393 ng
97) Cl6(144)		24.46tw	360	19228m	0.0380 ng
98) Cl6(149)		24.68	360	20810m	0.0399 ng
99) Cl6(139)		24.80	360	20600m	0.0395 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	2914	No Calib
101) Cl5(124)		24.85	326	32734m	0.0396 ng
Corrected Values:				32093	0.0389 ng
102) Cl6(140)		24.90t	360	19583m	0.0385 ng
103) Cl5(123)		25.06	326	29897m	0.0393 ng
104) Cl6(134)		25.14	360	16171m	0.0389 ng
105) Cl7(188)		25.25t	394	22561m	0.0385 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	4556	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	7555	No Calib
108) Cl5(118)		25.28	326	40775m	0.0516 ng
Corrected Values:				31614	0.0402 ng
109) Cl6(131)		25.31t	360	18548m	0.0399 ng
110) Cl7(184)		25.54	394	22759m	0.0394 ng
111) Cl6(146)		25.62	360	21199m	0.0383 ng
112) Cl5(114)-S1	(0.220)	25.73t	323	797	No Calib
113) Cl5(114)		25.65	326	30692m	0.0391 ng
Corrected Values:				30517	0.0389 ng
115) Cl6(153)		25.88	360	22835m	0.0402 ng
116) Cl7(179)		26.11	394	21403m	0.0391 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	2572	No Calib
118) Cl5(105)		26.23	326	30681m	0.0419 ng
Corrected Values:				30115	0.0412 ng
119) Cl6(141)		26.27t	360	18277m	0.0388 ng
120) Cl7(176)		26.37	394	20144m	0.0378 ng
121) Cl6(127)-S1	(0.265)	26.49t	323	2361	No Calib
122) Cl5(127)		26.50tw	326	33192m	0.0412 ng
123) Cl6(137)		26.49t	360	18685m	0.0385 ng
124) Cl6(130)		26.63	360	18765m	0.0400 ng
125) Cl6(164)		26.69	360	25236m	0.0397 ng
126) Cl6(138)		26.81	360	22080m	0.0390 ng
127) Cl6(163)-S1	(0.265)	26.91t	357	3118	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9240.D MF0782.M Mon Mar 02 14:05:19 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9240.D
 Acq On : 20 Feb 2015 10:16 am
 Sample : ID17 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 60
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 23 16:33:23 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 23 16:28:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.87	360	25594m	0.0425 ng
Corrected Values:				24768	0.0412 ng
129) Cl7(178)		26.91t	394	15505m	0.0380 ng
130) Cl6(158)		26.96	360	26643	0.0388 ng
131) Cl7(175)		27.10	394	16693m	0.0391 ng
132) Cl7(187)		27.18	394	18290m	0.0399 ng
133) Cl6(166) -S1	(0.265)	27.35t	357	1381	No Calib
134) Cl6(166)		27.35t	360	25494m	0.0398 ng
Corrected Values:				25128	0.0393 ng
135) Cl7(183)		27.36tw	394	17308m	0.0392 ng
136) Cl5(126)		27.51	326	29076m	0.0425 ng
137) Cl6(128) -S1	(0.265)	27.70t	357	2183	No Calib
138) Cl6(128)		27.67	360	19588m	0.0423 ng
Corrected Values:				19010	0.0411 ng
139) Cl7(185)		27.70t	394	15734m	0.0395 ng
140) Cl7(174)		27.81	394	15820m	0.0398 ng
141) Cl6(167)		27.90	360	26427m	0.0412 ng
142) Cl8(202)		27.98	428	17768m	0.0389 ng
143) Cl7(177)		28.08	394	14955m	0.0397 ng
144) Cl8(201)		28.20t	428	17316m	0.0372 ng
145) Cl7(171) -S1	(0.309)	28.20t	391	217	No Calib
146) Cl7(171)		28.21tw	394	15978m	0.0391 ng
Corrected Values:				15911	0.0390 ng
147) Cl7(173)		28.29	394	13667m	0.0381 ng
148) Cl8(197)		28.42	428	17695m	0.0391 ng
149) Cl6(156) -S1	(0.265)	28.54t	357	2687	No Calib
150) Cl6(156)		28.51	360	26250m	0.0418 ng
Corrected Values:				25538	0.0407 ng
151) Cl7(172)		28.54t	394	15423m	0.0397 ng
152) Cl6(157)		28.60	360	25002m	0.0410 ng
153) Cl7(180)		28.74	394	18144m	0.0408 ng
154) Cl7(193) -S1	(0.309)	28.83t	391	195	No Calib
155) Cl7(193)		28.79	394	20681m	0.0396 ng
Corrected Values:				20621	0.0395 ng
156) Cl8(200)		28.83t	428	17226m	0.0383 ng
157) Cl7(191)		28.91	394	22526m	0.0401 ng
158) Cl7(170) -S1	(0.309)	29.48t	391	3675	No Calib
159) Cl7(170)		29.45	394	16996m	0.0449 ng
Corrected Values:				15860	0.0419 ng
160) Cl8(198)		29.48t	428	13541m	0.0419 ng
161) Cl8(199)		29.51	428	11634m	0.0367 ng
162) Cl7(190)		29.57	394	21148m	0.0398 ng
163) Cl6(169) -S2	(1.610)	29.69t	356	5324	No Calib
164) Cl6(169)		29.65	360	25569m	0.0458 ng
Corrected Values:				16997	0.0310 ng
165) Cl8(203)		29.69t	428	14186m	0.0398 ng
166) Cl9(208)		30.19	464	15690m	0.0390 ng
167) Cl7(189)		30.33	394	20983m	0.0413 ng
168) Cl9(207)		30.39t	464	16272m	0.0376 ng
169) Cl8(195) -S1	(0.400)	30.39t	425	104	No Calib

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9240.D MF0782.M Mon Mar 02 14:05:20 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9240.D
 Acq On : 20 Feb 2015 10:16 am
 Sample : ID17 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 60
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 23 16:33:23 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 23 16:28:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	12454m	0.0385 ng
Corrected Values:				12412	0.0384 ng
171) Cl8(194)		30.89	428	12789m	0.0397 ng
172) Cl8(205)		31.04	428	16295m	0.0393 ng
173) Cl9(206)		31.54	464	11262m	0.0380 ng
174) Cl10(209)		32.05	498	11584m	0.0357 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9240.D MF0782.M Mon Mar 02 14:05:20 2015 040221CFS

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Data File : G:\F\DATA\SF0782\F9250.D
 Acq On : 20 Feb 2015 6:15 pm
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 70
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 09:58:30 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 09:58:17 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	55031m	0.1000	ng
78) Cl6(161)	25.73t	360	50347m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	4044m	0.0000	ng
27) Cl3(34)	15.28tw	256	54800m	0.0838	ng
Spiked Amount	0.0800			Recovery	= 103.75%
Corrected Values:			54254	0.0830	ng
114) Cl6(152)	22.40	360	40916m	0.0815	ng
Spiked Amount	0.0803			Recovery	= 101.47%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.75	154	160224m	0.0899	ng
3) Cl1(1)	9.94	188	120378m	0.0911	ng
4) Cl1(3)	11.13	188	112327m	0.0880	ng
5) Cl2(4)	11.42	222	57950m	0.0903	ng
6) Cl2(7)	12.30	222	82533m	0.0885	ng
7) Cl2(9)	12.26	222	103838m	0.0921	ng
8) Cl2(6)	12.54	222	94344m	0.0907	ng
9) Cl2(5)	12.76	222	87268m	0.0902	ng
10) Cl2(8)	12.83	222	100432m	0.0909	ng
11) Cl3(19)	13.30	256	37428m	0.0876	ng
12) Cl3(30)	13.69	256	60153m	0.0897	ng
13) Cl2(11)-S1 (0.135)	14.14tw	221	20751	No Calib	
14) Cl2(11)	14.13tw	222	86422m	0.0891	ng
Corrected Values:			83621	0.0863	ng
15) Cl3(18)	14.15tw	256	42532m	0.0871	ng
16) Cl3(17)	14.26	256	42303m	0.0866	ng
17) Cl2(12)	14.35	222	83564m	0.0881	ng
18) Cl2(13)-S1 (0.135)	14.50t	221	2469	No Calib	
19) Cl2(13)	14.49tw	222	78271m	0.0853	ng
Corrected Values:			77938	0.0850	ng
20) Cl3(27)	14.50t	256	58286m	0.0852	ng
21) Cl3(24)	14.62	256	55740m	0.0862	ng
22) Cl3(16)	14.83	256	31702m	0.0851	ng
23) Cl2(15)	14.88	222	85402m	0.0816	ng
24) Cl3(32)	14.95	256	57139m	0.0849	ng
25) Cl4(54)	15.29t	292	54174m	0.0824	ng
28) Cl3(29)	15.51	256	54891m	0.0836	ng
29) Cl3(26)-S1 (0.135)	15.87t	255	12040	No Calib	
30) Cl3(26)	15.82	256	61695m	0.0861	ng
Corrected Values:			60070	0.0838	ng
31) Cl4(50)	15.87t	292	38380m	0.0821	ng
32) Cl3(25)	15.95	256	55225m	0.0826	ng
33) Cl3(31)-S1 (0.135)	16.32t	255	12811	No Calib	
34) Cl3(31)	16.29	256	60254m	0.0843	ng
Corrected Values:			58525	0.0819	ng
35) Cl4(53)	16.32t	292	38046m	0.0801	ng
36) Cl3(28)	16.40	256	57090m	0.0816	ng
37) Cl3(33)	16.50	256	52042m	0.0803	ng
38) Cl4(51)	16.59	292	38208m	0.0787	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9250.D MF0782.M Mon Mar 02 14:05:24 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9250.D
 Acq On : 20 Feb 2015 6:15 pm
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 70
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 09:58:30 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 09:58:17 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	31825m	0.0793 ng
40) Cl3(22)		17.00	256	50826m	0.0796 ng
41) Cl4(46)		17.18	292	28896m	0.0788 ng
42) Cl4(43)		17.56	292	31288m	0.0822 ng
43) Cl4(52)		17.62	292	37684m	0.0878 ng
44) Cl4(48)		17.77	292	40334m	0.0824 ng
45) Cl4(49)		17.83	292	39581m	0.0919 ng
46) Cl5(104)		18.02t	326	45594m	0.0811 ng
47) Cl4(47)-S1	(0.174)	18.00	289	2752	No Calib
48) Cl4(47)		18.02t	292	43314m	0.0793 ng
Corrected Values:				42835	0.0784 ng
49) Cl4(75)		18.10	292	53044m	0.0829 ng
50) Cl4(44)		18.46	292	34832m	0.0835 ng
51) Cl4(42)		18.67	292	34360m	0.0830 ng
52) Cl4(71)		18.89	292	49738m	0.0837 ng
53) Cl4(41)		19.00	292	29383m	0.0842 ng
54) Cl4(64)		19.28	292	51830m	0.0825 ng
55) Cl4(40)		19.36tw	292	27691m	0.0814 ng
56) Cl3(37)-S1	(0.135)	19.35t	255	16353	No Calib
57) Cl3(37)		19.35t	256	55244m	0.0846 ng
Corrected Values:				53036	0.0813 ng
58) Cl5(100)		19.71	326	36373m	0.0848 ng
59) Cl4(67)		20.01	292	52118m	0.0864 ng
60) Cl4(63)		20.41	292	50222m	0.0871 ng
61) Cl5(95)		20.55	326	32520m	0.0870 ng
62) Cl4(74)		20.61	292	55845m	0.0878 ng
63) Cl4(70)		20.75	292	54421m	0.0877 ng
64) Cl5(91)-S1	(0.220)	20.98t	323	610	No Calib
65) Cl5(91)		20.92t	326	36615m	0.0870 ng
Corrected Values:				36481	0.0867 ng
66) Cl4(66)-S1	(0.174)	20.92t	289	8368	No Calib
67) Cl4(66)-S2	(0.650)	20.98t	288	18236	No Calib
68) Cl4(66)		20.94	292	66399m	0.1102 ng
Corrected Values:				53090	0.0884 ng
69) Cl6(155)		20.99tw	360	45476m	0.0867 ng
70) Cl4(80)		21.26	292	53434m	0.0907 ng
71) Cl5(92)		21.54	326	30628m	0.0797 ng
72) Cl5(84)		21.56t	326	26317m	0.0812 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	19190	No Calib
74) Cl4(56)		21.60	292	57169m	0.0953 ng
Corrected Values:				53830	0.0898 ng
75) Cl4(60)-S1	(0.174)	21.85t	289	5106	No Calib
76) Cl4(60)		21.86tw	292	53417m	0.0913 ng
Corrected Values:				52529	0.0898 ng
77) Cl5(101)		21.85t	326	39673m	0.0894 ng
79) Cl5(99)		22.11	326	40083m	0.0782 ng
80) Cl5(83)		22.51	326	30843m	0.0824 ng
81) Cl5(125)		22.66	326	46947m	0.0798 ng
82) Cl5(97)		22.80	326	34587m	0.0799 ng
83) Cl5(87)		23.25	326	34116m	0.0794 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9250.D MF0782.M Mon Mar 02 14:05:25 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9250.D
 Acq On : 20 Feb 2015 6:15 pm
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 70
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 09:58:30 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 09:58:17 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	38932m	0.0776 ng
85) Cl5(115)		23.46	326	55368m	0.0819 ng
86) Cl6(154)		23.53	360	36298m	0.0781 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.51	326	31781m	0.0761 ng
Corrected Values:				31781	0.0761 ng
89) Cl5(110)		23.77	326	49420m	0.0792 ng
90) Cl4(81)		23.88	292	51730m	0.0793 ng
91) Cl5(82)-S1	(0.220)	24.21tw	323	6299	No Calib
92) Cl5(82)		24.22t	326	32433m	0.0838 ng
Corrected Values:				31047	0.0803 ng
93) Cl6(151)		24.22t	360	30937m	0.0790 ng
94) Cl6(135)		24.31	360	30035m	0.0794 ng
95) Cl4(77)-S2	(0.650)	24.44tw	288	17265	No Calib
96) Cl4(77)		24.42	292	62480m	0.0985 ng
Corrected Values:				51258	0.0813 ng
97) Cl6(144)		24.45tw	360	31187m	0.0780 ng
98) Cl6(149)		24.67	360	33253m	0.0808 ng
99) Cl6(139)		24.80	360	32686m	0.0794 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	4948	No Calib
101) Cl5(124)		24.84	326	53980m	0.0826 ng
Corrected Values:				52891	0.0809 ng
102) Cl6(140)		24.90t	360	31872m	0.0793 ng
103) Cl5(123)		25.05	326	48112m	0.0799 ng
104) Cl6(134)		25.14	360	26037m	0.0789 ng
105) Cl7(188)		25.25tw	394	36485m	0.0787 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	6736	No Calib
107) Cl5(118)-S2	(1.080)	25.24tw	322	12339	No Calib
108) Cl5(118)		25.27	326	64125m	0.1029 ng
Corrected Values:				49317	0.0797 ng
109) Cl6(131)		25.31t	360	28940m	0.0782 ng
110) Cl7(184)		25.54	394	36383m	0.0799 ng
111) Cl6(146)		25.62	360	34384m	0.0779 ng
112) Cl5(114)-S1	(0.220)	25.73t	323	622	No Calib
113) Cl5(114)		25.65	326	50477m	0.0810 ng
Corrected Values:				50340	0.0808 ng
115) Cl6(153)		25.88	360	35867m	0.0801 ng
116) Cl7(179)		26.11	394	34703m	0.0802 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	4241	No Calib
118) Cl5(105)		26.22	326	48314m	0.0837 ng
Corrected Values:				47381	0.0822 ng
119) Cl6(141)		26.27t	360	29913m	0.0799 ng
120) Cl7(176)		26.37	394	33725m	0.0801 ng
121) Cl6(127)-S1	(0.265)	26.48tw	323	3346	No Calib
122) Cl5(127)		26.50tw	326	51444m	0.0814 ng
123) Cl6(137)		26.49tw	360	30668m	0.0797 ng
124) Cl6(130)		26.63	360	28376m	0.0766 ng
125) Cl6(164)		26.68	360	39876m	0.0797 ng
126) Cl6(138)		26.81	360	33024m	0.0741 ng
127) Cl6(163)-S1	(0.265)	26.91t	357	5150	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9250.D MF0782.M Mon Mar 02 14:05:25 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9250.D

Acq On : 20 Feb 2015 6:15 pm

Sample : ID18MID

Misc : 5-315 CCV

MS Integration Params: rteint.p

Vial: 70

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 24 09:58:30 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 09:58:17 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	40061m	0.0840 ng
Corrected Values:				38696	0.0812 ng
129) Cl7(178)		26.91t	394	26077m	0.0806 ng
130) Cl6(158)		26.96	360	43182m	0.0797 ng
131) Cl7(175)		27.09	394	26287m	0.0778 ng
132) Cl7(187)		27.18	394	29463m	0.0813 ng
133) Cl6(166)-S1	(0.265)	27.35t	357	2312	No Calib
134) Cl6(166)		27.35t	360	43479m	0.0860 ng
Corrected Values:				42866	0.0848 ng
135) Cl7(183)		27.35t	394	28951m	0.0825 ng
136) Cl5(126)		27.51	326	45314m	0.0838 ng
137) Cl6(128)-S1	(0.265)	27.70t	357	3258	No Calib
138) Cl6(128)		27.66	360	29680m	0.0813 ng
Corrected Values:				28817	0.0790 ng
139) Cl7(185)		27.70t	394	25469m	0.0808 ng
140) Cl7(174)		27.81	394	25796m	0.0818 ng
141) Cl6(167)		27.89	360	42502m	0.0836 ng
142) Cl8(202)		27.97	428	28863m	0.0803 ng
143) Cl7(177)		28.07	394	23951m	0.0806 ng
144) Cl8(201)		28.20t	428	28128m	0.0764 ng
145) Cl7(171)-S1	(0.309)	28.20t	391	348	No Calib
146) Cl7(171)		28.20t	394	25491m	0.0792 ng
Corrected Values:				25383	0.0789 ng
147) Cl7(173)		28.29	394	23114m	0.0817 ng
148) Cl8(197)		28.42	428	28462m	0.0798 ng
149) Cl6(156)-S1	(0.265)	28.54t	357	4074	No Calib
150) Cl6(156)		28.51	360	41841m	0.0843 ng
Corrected Values:				40761	0.0822 ng
151) Cl7(172)		28.54t	394	24742m	0.0801 ng
152) Cl6(157)		28.60	360	39569m	0.0818 ng
153) Cl7(180)		28.74	394	29414m	0.0838 ng
154) Cl7(193)-S1	(0.309)	28.81	391	279	No Calib
155) Cl7(193)		28.79	394	32673m	0.0790 ng
Corrected Values:				32587	0.0788 ng
156) Cl8(200)		28.83	428	28463m	0.0803 ng
157) Cl7(191)		28.91	394	36629m	0.0823 ng
158) Cl7(170)-S1	(0.309)	29.48t	391	5915	No Calib
159) Cl7(170)		29.45	394	26087m	0.0877 ng
Corrected Values:				24259	0.0817 ng
160) Cl8(198)		29.48t	428	19297m	0.0763 ng
161) Cl8(199)		29.51	428	17410m	0.0691 ng
162) Cl7(190)		29.57	394	34716m	0.0828 ng
163) Cl6(169)-S2	(1.610)	29.68tw	356	8225	No Calib
164) Cl6(169)		29.65	360	48834m	0.1088 ng
Corrected Values:				35592	0.0803 ng
165) Cl8(203)		29.69tw	428	22244m	0.0790 ng
166) Cl9(208)		30.19	464	25170m	0.0797 ng
167) Cl7(189)		30.33	394	33016m	0.0824 ng
168) Cl9(207)		30.39t	464	26297m	0.0770 ng
169) Cl8(195)-S1	(0.400)	30.38tw	425	148	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9250.D MF0782.M Mon Mar 02 14:05:26 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9250.D
 Acq On : 20 Feb 2015 6:15 pm
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 70
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 09:58:30 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 09:58:17 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39t	428	19824m	0.0782 ng
Corrected Values:				19765	0.0780 ng
171) Cl8(194)		30.89	428	20302m	0.0799 ng
172) Cl8(205)		31.04	428	26580m	0.0817 ng
173) Cl9(206)		31.54	464	18251m	0.0786 ng
174) Cl10(209)		32.05	498	18251m	0.0727 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9250.D MF0782.M Mon Mar 02 14:05:26 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0782\F9260.D

Vial: 80

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Acq On : 21 Feb 2015 2:13 am

Operator: RR/BL

Sample : ID17MID

Inst : Inst. F

Misc : 5-315 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 08:18:52 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 08:18:25 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	67066m	0.1000	ng
78) Cl6(161)	25.73tw	360	52777m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	15.28t	255	2197m	0.0000	ng
27) Cl3(34)		15.28t	256	30913m	0.0390	ng
Spiked Amount	0.0400			Recovery	=	96.50%
Corrected Values:				30616	0.0386	ng
114) Cl6(152)		22.40	360	21873m	0.0420	ng
Spiked Amount	0.0402			Recovery	=	104.58%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	79774m	0.0365	ng
3) Cl1(1)		9.93	188	61309m	0.0380	ng
4) Cl1(3)		11.13	188	57261m	0.0369	ng
5) Cl2(4)		11.41	222	29770m	0.0381	ng
6) Cl2(7)		12.30	222	40223m	0.0356	ng
7) Cl2(9)		12.26	222	48613m	0.0358	ng
8) Cl2(6)		12.54	222	47736m	0.0379	ng
9) Cl2(5)		12.76	222	45628m	0.0389	ng
10) Cl2(8)		12.83	222	50515m	0.0376	ng
11) Cl3(19)		13.29	256	19929m	0.0385	ng
12) Cl3(30)		13.69	256	30956m	0.0382	ng
13) Cl2(11)-S1	(0.135)	14.14t	221	10790	No Calib	
14) Cl2(11)		14.12	222	46378m	0.0395	ng
Corrected Values:				44921	0.0383	ng
15) Cl3(18)		14.14t	256	22402m	0.0381	ng
16) Cl3(17)		14.26	256	22485m	0.0380	ng
17) Cl2(12)		14.35	222	43189m	0.0377	ng
18) Cl2(13)-S1	(0.135)	14.49t	221	1317	No Calib	
19) Cl2(13)		14.49t	222	41698m	0.0377	ng
Corrected Values:				41520	0.0375	ng
20) Cl3(27)		14.49t	256	30839m	0.0373	ng
21) Cl3(24)		14.62	256	29820m	0.0380	ng
22) Cl3(16)		14.83	256	17151m	0.0380	ng
23) Cl2(15)		14.88	222	46160m	0.0365	ng
24) Cl3(32)		14.95	256	32382m	0.0397	ng
25) Cl4(54)		15.29tw	292	30065m	0.0373	ng
28) Cl3(29)		15.51	256	31003m	0.0391	ng
29) Cl3(26)-S1	(0.135)	15.86tw	255	6891	No Calib	
30) Cl3(26)		15.82	256	34153m	0.0394	ng
Corrected Values:				33223	0.0383	ng
31) Cl4(50)		15.87tw	292	21458m	0.0380	ng
32) Cl3(25)		15.94	256	31252m	0.0386	ng
33) Cl3(31)-S1	(0.135)	16.32t	255	7094	No Calib	
34) Cl3(31)		16.28	256	34206m	0.0396	ng
Corrected Values:				33248	0.0385	ng
35) Cl4(53)		16.32t	292	21852m	0.0380	ng
36) Cl3(28)		16.40	256	32957m	0.0390	ng
37) Cl3(33)		16.50	256	29579m	0.0378	ng
38) Cl4(51)		16.58	292	22470m	0.0383	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9260.D MF0782.M Mon Mar 02 14:05:29 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9260.D

Acq On : 21 Feb 2015 2:13 am

Sample : ID17MID

Misc : 5-315 CCV

MS Integration Params: rteint.p

Vial: 80

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 24 08:18:52 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 08:18:25 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	18333m	0.0378 ng
40) Cl3(22)		16.99	256	29880m	0.0388 ng
41) Cl4(46)		17.17	292	17107m	0.0386 ng
42) Cl4(43)		17.55	292	18881m	0.0411 ng
43) Cl4(52)		17.62	292	21064m	0.0404 ng
44) Cl4(48)		17.76	292	22123m	0.0380 ng
45) Cl4(49)		17.82	292	21001m	0.0401 ng
46) Cl5(104)		18.01t	326	25364m	0.0368 ng
47) Cl4(47)-S1	(0.174)	18.01t	289	940	No Calib
48) Cl4(47)		18.02tw	292	24716m	0.0375 ng
Corrected Values:				24552	0.0373 ng
49) Cl4(75)		18.10	292	30499m	0.0394 ng
50) Cl4(44)		18.46	292	19579m	0.0389 ng
51) Cl4(42)		18.67	292	19013m	0.0382 ng
52) Cl4(71)		18.89	292	27524m	0.0382 ng
53) Cl4(41)		18.99	292	16587m	0.0393 ng
54) Cl4(64)		19.28	292	28982m	0.0382 ng
55) Cl4(40)		19.35t	292	16170m	0.0393 ng
56) Cl3(37)-S1	(0.135)	19.35t	255	9384	No Calib
57) Cl3(37)		19.35t	256	30713m	0.0390 ng
Corrected Values:				29446	0.0375 ng
58) Cl5(100)		19.71	326	19882m	0.0384 ng
59) Cl4(67)		20.01	292	27961m	0.0387 ng
60) Cl4(63)		20.40	292	26332m	0.0380 ng
61) Cl5(95)		20.54	326	17523m	0.0391 ng
62) Cl4(74)		20.61	292	29289m	0.0383 ng
63) Cl4(70)		20.75	292	28888m	0.0387 ng
64) Cl5(91)-S1	(0.220)	20.97tw	323	323	No Calib
65) Cl5(91)		20.92	326	19499m	0.0386 ng
Corrected Values:				19428	0.0384 ng
66) Cl4(66)-S1	(0.174)	20.90	289	4866	No Calib
67) Cl4(66)-S2	(0.650)	20.98tw	288	9790	No Calib
68) Cl4(66)		20.94	292	34587m	0.0477 ng
Corrected Values:				27376	0.0380 ng
69) Cl6(155)		20.99tw	360	24299m	0.0385 ng
70) Cl4(80)		21.26	292	27604m	0.0391 ng
71) Cl5(92)		21.55T	326	17523m	0.0378 ng
72) Cl5(84)		21.55T	326	16054m	0.0400 ng
73) Cl4(56)-S1	(0.174)	21.56tw	289	10310	No Calib
74) Cl4(56)		21.60	292	29984m	0.0416 ng
Corrected Values:				28190	0.0392 ng
75) Cl4(60)-S1	(0.174)	21.83	289	2444	No Calib
76) Cl4(60)		21.86tw	292	27563m	0.0392 ng
Corrected Values:				27138	0.0386 ng
77) Cl5(101)		21.85tw	326	20605m	0.0386 ng
79) Cl5(99)		22.11	326	19982m	0.0378 ng
80) Cl5(83)		22.51	326	16121m	0.0418 ng
81) Cl5(125)		22.65	326	24271m	0.0399 ng
82) Cl5(97)		22.79	326	17002m	0.0382 ng
83) Cl5(87)		23.25	326	17605m	0.0398 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9260.D MF0782.M Mon Mar 02 14:05:30 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9260.D
 Acq On : 21 Feb 2015 2:13 am
 Sample : ID17MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 80
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 08:18:52 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 08:18:25 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	20593m	0.0395 ng
85) Cl5(115)		23.45	326	25638m	0.0373 ng
86) Cl6(154)		23.53	360	18344m	0.0383 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.49	326	15349m	0.0351 ng
Corrected Values:				15349	0.0351 ng
89) Cl5(110)		23.76	326	25167m	0.0390 ng
90) Cl4(81)		23.88	292	25908m	0.0389 ng
91) Cl5(82)-S1	(0.220)	24.21t	323	3232	No Calib
92) Cl5(82)		24.22tw	326	16226m	0.0407 ng
Corrected Values:				15515	0.0389 ng
93) Cl6(151)		24.21t	360	15399m	0.0383 ng
94) Cl6(135)		24.31	360	14881m	0.0381 ng
95) Cl4(77)-S2	(0.650)	24.45t	288	8861	No Calib
96) Cl4(77)		24.41	292	30737m	0.0473 ng
Corrected Values:				24977	0.0386 ng
97) Cl6(144)		24.45t	360	15663m	0.0381 ng
98) Cl6(149)		24.67	360	16602m	0.0391 ng
99) Cl6(139)		24.80	360	16425m	0.0388 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	2493	No Calib
101) Cl5(124)		24.84	326	26556m	0.0396 ng
Corrected Values:				26008	0.0388 ng
102) Cl6(140)		24.90t	360	16372m	0.0395 ng
103) Cl5(123)		25.05	326	23605m	0.0382 ng
104) Cl6(134)		25.14	360	13046m	0.0386 ng
105) Cl7(188)		25.25t	394	18179m	0.0381 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	3619	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	6261	No Calib
108) Cl5(118)		25.27	326	32213m	0.0502 ng
Corrected Values:				24655	0.0386 ng
109) Cl6(131)		25.31t	360	14901m	0.0394 ng
110) Cl7(184)		25.54	394	18387m	0.0391 ng
111) Cl6(146)		25.62	360	16801m	0.0374 ng
112) Cl5(114)-S1	(0.220)	25.72tw	323	701	No Calib
113) Cl5(114)		25.65	326	24058m	0.0377 ng
Corrected Values:				23904	0.0375 ng
115) Cl6(153)		25.87	360	17831m	0.0387 ng
116) Cl7(179)		26.10	394	16889m	0.0380 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	2104	No Calib
118) Cl5(105)		26.22	326	24066m	0.0405 ng
Corrected Values:				23603	0.0397 ng
119) Cl6(141)		26.27t	360	14618m	0.0382 ng
120) Cl7(176)		26.36	394	16395m	0.0378 ng
121) Cl6(127)-S1	(0.265)	26.48t	323	1735	No Calib
122) Cl5(127)		26.50	326	26150m	0.0400 ng
123) Cl6(137)		26.48t	360	14979m	0.0380 ng
124) Cl6(130)		26.62	360	15010m	0.0394 ng
125) Cl6(164)		26.68	360	21228m	0.0411 ng
126) Cl6(138)		26.81	360	16807m	0.0366 ng
127) Cl6(163)-S1	(0.265)	26.90tw	357	2518	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9260.D MF0782.M Mon Mar 02 14:05:31 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9260.D
 Acq On : 21 Feb 2015 2:13 am
 Sample : ID17MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 80
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 08:18:52 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 08:18:25 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	21330m	0.0435 ng
Corrected Values:				20663	0.0422 ng
129) Cl7(178)		26.91tw	394	12983m	0.0391 ng
130) Cl6(158)		26.96	360	21729m	0.0390 ng
131) Cl7(175)		27.10	394	13069m	0.0377 ng
132) Cl7(187)		27.17	394	14350m	0.0385 ng
133) Cl6(166) -S1	(0.265)	27.35t	357	1164	No Calib
134) Cl6(166)		27.35t	360	20618m	0.0396 ng
Corrected Values:				20310	0.0391 ng
135) Cl7(183)		27.35t	394	13864m	0.0386 ng
136) Cl5(126)		27.51	326	21986m	0.0396 ng
137) Cl6(128) -S1	(0.265)	27.69t	357	1682	No Calib
138) Cl6(128)		27.66	360	14997m	0.0399 ng
Corrected Values:				14551	0.0388 ng
139) Cl7(185)		27.69t	394	12384m	0.0383 ng
140) Cl7(174)		27.80	394	12309m	0.0382 ng
141) Cl6(167)		27.89	360	20097m	0.0386 ng
142) Cl8(202)		27.97	428	14221m	0.0383 ng
143) Cl7(177)		28.07	394	11905m	0.0389 ng
144) Cl8(201)		28.20t	428	13765m	0.0365 ng
145) Cl7(171) -S1	(0.309)	28.20t	391	151	No Calib
146) Cl7(171)		28.20t	394	12458m	0.0376 ng
Corrected Values:				12411	0.0374 ng
147) Cl7(173)		28.29	394	10971m	0.0376 ng
148) Cl8(197)		28.42	428	13325m	0.0363 ng
149) Cl6(156) -S1	(0.265)	28.54t	357	2027	No Calib
150) Cl6(156)		28.51	360	19875m	0.0390 ng
Corrected Values:				19338	0.0380 ng
151) Cl7(172)		28.54t	394	11792m	0.0375 ng
152) Cl6(157)		28.60	360	19376m	0.0391 ng
153) Cl7(180)		28.74	394	13066m	0.0362 ng
154) Cl7(193) -S1	(0.309)	28.81	391	182	No Calib
155) Cl7(193)		28.78	394	16869m	0.0397 ng
Corrected Values:				16813	0.0396 ng
156) Cl8(200)		28.83	428	13379m	0.0366 ng
157) Cl7(191)		28.91	394	17230m	0.0378 ng
158) Cl7(170) -S1	(0.309)	29.50t	391	2681	No Calib
159) Cl7(170)		29.45	394	12509m	0.0407 ng
Corrected Values:				11681	0.0381 ng
160) Cl8(198)		29.48	428	9288m	0.0354 ng
161) Cl8(199)		29.50t	428	9993m	0.0387 ng
162) Cl7(190)		29.56	394	16076m	0.0373 ng
163) Cl6(169) -S2	(1.610)	29.68tw	356	4018	No Calib
164) Cl6(169)		29.65	360	23526m	0.0516 ng
Corrected Values:				17057	0.0379 ng
165) Cl8(203)		29.69tw	428	10515m	0.0364 ng
166) Cl9(208)		30.19	464	11784m	0.0361 ng
167) Cl7(189)		30.33	394	15361m	0.0373 ng
168) Cl9(207)		30.39t	464	11943m	0.0341 ng
169) Cl8(195) -S1	(0.400)	30.39t	425	103	No Calib

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9260.D MF0782.M Mon Mar 02 14:05:31 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9260.D
 Acq On : 21 Feb 2015 2:13 am
 Sample : ID17MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 80
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 08:18:52 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 08:18:25 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39t	428	9884m	0.0376 ng
Corrected Values:				9843	0.0375 ng
171) Cl8(194)		30.88	428	8961m	0.0343 ng
172) Cl8(205)		31.04	428	12534m	0.0373 ng
173) Cl9(206)		31.54	464	8336m	0.0347 ng
174) Cl10(209)		32.04	498	8615m	0.0326 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9260.D MF0782.M Mon Mar 02 14:05:31 2015 040221CFS

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Data File : G:\F\DATA\SF0782\F9269.D
 Acq On : 21 Feb 2015 9:23 am
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 89
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 08:23:24 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 08:23:18 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	68690m	0.1000	ng
78) Cl6(161)	25.73tw	360	54693m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	4763m	0.0000	ng
27) Cl3(34)	15.28tw	256	65977m	0.0809	ng
Spiked Amount	0.0800			Recovery	= 100.13%
Corrected Values:			65334	0.0801	ng
114) Cl6(152)	22.40	360	45540m	0.0834	ng
Spiked Amount	0.0803			Recovery	= 103.83%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.75	154	175803m	0.0789	ng
3) Cl1(1)	9.93	188	128516m	0.0779	ng
4) Cl1(3)	11.13	188	123314m	0.0774	ng
5) Cl2(4)	11.41	222	62772m	0.0784	ng
6) Cl2(7)	12.30	222	86320m	0.0742	ng
7) Cl2(9)	12.26	222	102787m	0.0732	ng
8) Cl2(6)	12.54	222	102566m	0.0790	ng
9) Cl2(5)	12.76	222	97395m	0.0807	ng
10) Cl2(8)	12.83	222	110955m	0.0805	ng
11) Cl3(19)	13.29	256	42105m	0.0790	ng
12) Cl3(30)	13.69	256	68752m	0.0822	ng
13) Cl2(11)-S1 (0.135)	14.14t	221	24429	No Calib	
14) Cl2(11)	14.12	222	98951m	0.0818	ng
Corrected Values:			95653	0.0791	ng
15) Cl3(18)	14.14t	256	48614m	0.0798	ng
16) Cl3(17)	14.26	256	48827m	0.0801	ng
17) Cl2(12)	14.34	222	95606m	0.0808	ng
18) Cl2(13)-S1 (0.135)	14.49t	221	2785	No Calib	
19) Cl2(13)	14.49t	222	91454m	0.0799	ng
Corrected Values:			91078	0.0796	ng
20) Cl3(27)	14.50tw	256	67841m	0.0795	ng
21) Cl3(24)	14.62	256	65479m	0.0812	ng
22) Cl3(16)	14.82	256	36845m	0.0792	ng
23) Cl2(15)	14.87	222	101859m	0.0780	ng
24) Cl3(32)	14.95	256	67567m	0.0804	ng
25) Cl4(54)	15.29t	292	64742m	0.0788	ng
28) Cl3(29)	15.51	256	67470m	0.0823	ng
29) Cl3(26)-S1 (0.135)	15.86tw	255	14976	No Calib	
30) Cl3(26)	15.82	256	74205m	0.0830	ng
Corrected Values:			72183	0.0807	ng
31) Cl4(50)	15.87tw	292	47165m	0.0808	ng
32) Cl3(25)	15.94	256	67892m	0.0814	ng
33) Cl3(31)-S1 (0.135)	16.32t	255	16019	No Calib	
34) Cl3(31)	16.28	256	74585m	0.0836	ng
Corrected Values:			72422	0.0812	ng
35) Cl4(53)	16.32t	292	47899m	0.0808	ng
36) Cl3(28)	16.40	256	71902m	0.0823	ng
37) Cl3(33)	16.49	256	65135m	0.0805	ng
38) Cl4(51)	16.58	292	49292m	0.0814	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9269.D MF0782.M Mon Mar 02 14:05:40 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9269.D
 Acq On : 21 Feb 2015 9:23 am
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 89
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 08:23:24 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 08:23:18 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	40347m	0.0805 ng
40) Cl3(22)		16.99	256	65984m	0.0827 ng
41) Cl4(46)		17.17	292	36759m	0.0803 ng
42) Cl4(43)		17.55	292	36860m	0.0776 ng
43) Cl4(52)		17.62	292	49595m	0.0925 ng
44) Cl4(48)		17.76	292	48388m	0.0793 ng
45) Cl4(49)		17.82	292	45668m	0.0849 ng
46) Cl5(104)		18.01tw	326	56543m	0.0805 ng
47) Cl4(47)-S1	(0.174)	18.00tw	289	1855	No Calib
48) Cl4(47)		18.02tw	292	54013m	0.0792 ng
Corrected Values:				53690	0.0787 ng
49) Cl4(75)		18.10	292	67038m	0.0839 ng
50) Cl4(44)		18.46	292	42519m	0.0817 ng
51) Cl4(42)		18.67	292	41705m	0.0808 ng
52) Cl4(71)		18.89	292	60445m	0.0815 ng
53) Cl4(41)		18.99	292	36105m	0.0829 ng
54) Cl4(64)		19.28	292	63673m	0.0812 ng
55) Cl4(40)		19.35t	292	36017m	0.0848 ng
56) Cl3(37)-S1	(0.135)	19.35t	255	21136	No Calib
57) Cl3(37)		19.35t	256	68091m	0.0836 ng
Corrected Values:				65238	0.0801 ng
58) Cl5(100)		19.71	326	43421m	0.0811 ng
59) Cl4(67)		20.01	292	62161m	0.0827 ng
60) Cl4(63)		20.40	292	58960m	0.0820 ng
61) Cl5(95)		20.54	326	37209m	0.0799 ng
62) Cl4(74)		20.60	292	65039m	0.0820 ng
63) Cl4(70)		20.74	292	63430m	0.0819 ng
64) Cl5(91)-S1	(0.220)	20.97tw	323	725	No Calib
65) Cl5(91)		20.91t	326	42587m	0.0812 ng
Corrected Values:				42427	0.0809 ng
66) Cl4(66)-S1	(0.174)	20.91t	289	9546	No Calib
67) Cl4(66)-S2	(0.650)	20.98t	288	21947	No Calib
68) Cl4(66)		20.94	292	77628m	0.1033 ng
Corrected Values:				61701	0.0824 ng
69) Cl6(155)		20.98t	360	53251m	0.0814 ng
70) Cl4(80)		21.26	292	60406m	0.0823 ng
71) Cl5(92)		21.54Tw	326	37395m	0.0779 ng
72) Cl5(84)		21.55Tw	326	34292m	0.0849 ng
73) Cl4(56)-S1	(0.174)	21.56tw	289	21954	No Calib
74) Cl4(56)		21.60	292	66798m	0.0893 ng
Corrected Values:				62978	0.0843 ng
75) Cl4(60)-S1	(0.174)	21.84t	289	5633	No Calib
76) Cl4(60)		21.86	292	61097m	0.0838 ng
Corrected Values:				60117	0.0825 ng
77) Cl5(101)		21.84t	326	44549m	0.0805 ng
79) Cl5(99)		22.11	326	44496m	0.0799 ng
80) Cl5(83)		22.51	326	33546m	0.0825 ng
81) Cl5(125)		22.65	326	51813m	0.0811 ng
82) Cl5(97)		22.79	326	38089m	0.0810 ng
83) Cl5(87)		23.25	326	37719m	0.0808 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9269.D MF0782.M Mon Mar 02 14:05:41 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9269.D
 Acq On : 21 Feb 2015 9:23 am
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 89
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 08:23:24 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 08:23:18 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.34	360	43210m	0.0793 ng
85) Cl5(115)		23.46	326	56992m	0.0777 ng
86) Cl6(154)		23.52	360	40567m	0.0802 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.50	326	39131m	0.0861 ng
Corrected Values:				39131	0.0861 ng
89) Cl5(110)		23.77	326	54305m	0.0800 ng
90) Cl4(81)		23.88	292	58577m	0.0826 ng
91) Cl5(82)-S1	(0.220)	24.21t	323	6829	No Calib
92) Cl5(82)		24.21t	326	35502m	0.0844 ng
Corrected Values:				34000	0.0809 ng
93) Cl6(151)		24.21t	360	34056m	0.0800 ng
94) Cl6(135)		24.30	360	32540m	0.0792 ng
95) Cl4(77)-S2	(0.650)	24.43	288	19763	No Calib
96) Cl4(77)		24.41	292	70409m	0.1020 ng
Corrected Values:				57563	0.0840 ng
97) Cl6(144)		24.45	360	34561m	0.0795 ng
98) Cl6(149)		24.67	360	35731m	0.0799 ng
99) Cl6(139)		24.79	360	34792m	0.0779 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	5457	No Calib
101) Cl5(124)		24.84	326	58959m	0.0830 ng
Corrected Values:				57758	0.0814 ng
102) Cl6(140)		24.90t	360	35252m	0.0807 ng
103) Cl5(123)		25.05	326	53252m	0.0813 ng
104) Cl6(134)		25.14	360	28561m	0.0796 ng
105) Cl7(188)		25.25t	394	39408m	0.0783 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	7686	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	13776	No Calib
108) Cl5(118)		25.27	326	71373m	0.1053 ng
Corrected Values:				54804	0.0815 ng
109) Cl6(131)		25.31t	360	31909m	0.0793 ng
110) Cl7(184)		25.54	394	39008m	0.0789 ng
111) Cl6(146)		25.62	360	37528m	0.0782 ng
112) Cl5(114)-S1	(0.220)	25.72tw	323	678	No Calib
113) Cl5(114)		25.65	326	54857m	0.0810 ng
Corrected Values:				54708	0.0808 ng
115) Cl6(153)		25.87	360	38983m	0.0802 ng
116) Cl7(179)		26.10	394	37301m	0.0794 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	4782	No Calib
118) Cl5(105)		26.22	326	51182m	0.0817 ng
Corrected Values:				50130	0.0801 ng
119) Cl6(141)		26.27t	360	32108m	0.0790 ng
120) Cl7(176)		26.36	394	36726m	0.0803 ng
121) Cl6(127)-S1	(0.265)	26.48t	323	3680	No Calib
122) Cl5(127)		26.49tw	326	55963m	0.0815 ng
123) Cl6(137)		26.48t	360	33225m	0.0795 ng
124) Cl6(130)		26.62	360	31774m	0.0788 ng
125) Cl6(164)		26.68	360	46340m	0.0851 ng
126) Cl6(138)		26.81	360	36842m	0.0761 ng
127) Cl6(163)-S1	(0.265)	26.91t	357	5653	No Calib

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9269.D MF0782.M Mon Mar 02 14:05:41 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9269.D
 Acq On : 21 Feb 2015 9:23 am
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 89
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 08:23:24 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 08:23:18 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	45836m	0.0883 ng
Corrected Values:				44338	0.0855 ng
129) Cl7(178)		26.91t	394	28562m	0.0812 ng
130) Cl6(158)		26.95	360	47167m	0.0801 ng
131) Cl7(175)		27.09	394	28173m	0.0768 ng
132) Cl7(187)		27.17	394	31397m	0.0798 ng
133) Cl6(166) -S1	(0.265)	27.35t	357	2426	No Calib
134) Cl6(166)		27.34tw	360	45206m	0.0824 ng
Corrected Values:				44563	0.0812 ng
135) Cl7(183)		27.35t	394	30067m	0.0790 ng
136) Cl5(126)		27.51	326	48737m	0.0830 ng
137) Cl6(128) -S1	(0.265)	27.69t	357	3580	No Calib
138) Cl6(128)		27.66	360	32461m	0.0818 ng
Corrected Values:				31512	0.0795 ng
139) Cl7(185)		27.69t	394	27330m	0.0798 ng
140) Cl7(174)		27.80	394	27229m	0.0796 ng
141) Cl6(167)		27.89	360	44514m	0.0807 ng
142) Cl8(202)		27.97	428	30671m	0.0786 ng
143) Cl7(177)		28.07	394	25736m	0.0798 ng
144) Cl8(201)		28.19tw	428	30317m	0.0759 ng
145) Cl7(171) -S1	(0.309)	28.20t	391	367	No Calib
146) Cl7(171)		28.20t	394	27627m	0.0790 ng
Corrected Values:				27514	0.0787 ng
147) Cl7(173)		28.28	394	23755m	0.0774 ng
148) Cl8(197)		28.42	428	29369m	0.0759 ng
149) Cl6(156) -S1	(0.265)	28.54t	357	4415	No Calib
150) Cl6(156)		28.50	360	43985m	0.0816 ng
Corrected Values:				42815	0.0795 ng
151) Cl7(172)		28.54t	394	25944m	0.0774 ng
152) Cl6(157)		28.60	360	42695m	0.0813 ng
153) Cl7(180)		28.74	394	29124m	0.0766 ng
154) Cl7(193) -S1	(0.309)	28.82t	391	344	No Calib
155) Cl7(193)		28.78	394	36568m	0.0814 ng
Corrected Values:				36462	0.0811 ng
156) Cl8(200)		28.82t	428	29963m	0.0779 ng
157) Cl7(191)		28.91	394	37595m	0.0779 ng
158) Cl7(170) -S1	(0.309)	29.50t	391	6353	No Calib
159) Cl7(170)		29.45	394	27771m	0.0859 ng
Corrected Values:				25808	0.0800 ng
160) Cl8(198)		29.47	428	21293m	0.0775 ng
161) Cl8(199)		29.50t	428	21211m	0.0772 ng
162) Cl7(190)		29.56	394	36466m	0.0802 ng
163) Cl6(169) -S2	(1.610)	29.68t	356	8895	No Calib
164) Cl6(169)		29.64	360	52484m	0.1077 ng
Corrected Values:				38163	0.0793 ng
165) Cl8(203)		29.68t	428	23177m	0.0759 ng
166) Cl9(208)		30.19	464	25383m	0.0741 ng
167) Cl7(189)		30.33	394	32159m	0.0742 ng
168) Cl9(207)		30.39t	464	27074m	0.0730 ng
169) Cl8(195) -S1	(0.400)	30.39t	425	141	No Calib

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9269.D MF0782.M Mon Mar 02 14:05:42 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9269.D
 Acq On : 21 Feb 2015 9:23 am
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 89
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 24 08:23:24 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Feb 24 08:23:18 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39t	428	20618m	0.0749 ng
Corrected Values:				20562	0.0747 ng
171) Cl8(194)		30.88	428	20202m	0.0733 ng
172) Cl8(205)		31.04	428	27399m	0.0776 ng
173) Cl9(206)		31.54	464	18038m	0.0716 ng
174) Cl10(209)		32.04	498	18601m	0.0682 ng

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9269.D MF0782.M Mon Mar 02 14:05:42 2015 040221CFS

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Data File : G:\F\DATA\SF0783\F9272.D
 Acq On : 26 Feb 2015 5:23 pm
 Sample : ID17MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 3
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 27 14:06:56 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 27 13:39:00 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	54958m	0.1000	ng
78) Cl6(161)	25.73t	360	42111m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	1882m	0.0000	ng
27) Cl3(34)	15.28tw	256	25411m	0.0391	ng
Spiked Amount	0.0400			Recovery	= 97.00%
Corrected Values:			25157	0.0388	ng
114) Cl6(152)	22.40	360	16391m	0.0394	ng
Spiked Amount	0.0402			Recovery	= 98.11%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.75	154	67491m	0.0377	ng
3) Cl1(1)	9.94	188	52450m	0.0397	ng
4) Cl1(3)	11.13	188	47040m	0.0370	ng
5) Cl2(4)	11.42	222	24750m	0.0387	ng
6) Cl2(7)	12.30	222	34528m	0.0372	ng
7) Cl2(9)	12.26	222	45315m	0.0406	ng
8) Cl2(6)	12.54	222	39868m	0.0386	ng
9) Cl2(5)	12.76	222	38007m	0.0395	ng
10) Cl2(8)	12.83	222	42623m	0.0387	ng
11) Cl3(19)	13.30	256	16626m	0.0392	ng
12) Cl3(30)	13.69	256	25284m	0.0380	ng
13) Cl2(11)-S1 (0.135)	14.14t	221	9164	No Calib	
14) Cl2(11)	14.12	222	37330m	0.0388	ng
Corrected Values:			36093	0.0375	ng
15) Cl3(18)	14.14t	256	18431m	0.0382	ng
16) Cl3(17)	14.26	256	18802m	0.0388	ng
17) Cl2(12)	14.35	222	34716m	0.0370	ng
18) Cl2(13)-S1 (0.135)	14.49t	221	1101	No Calib	
19) Cl2(13)	14.49t	222	32791m	0.0362	ng
Corrected Values:			32642	0.0360	ng
20) Cl3(27)	14.50tw	256	26156m	0.0386	ng
21) Cl3(24)	14.62	256	25100m	0.0390	ng
22) Cl3(16)	14.83	256	14010m	0.0379	ng
23) Cl2(15)	14.88	222	37097m	0.0358	ng
24) Cl3(32)	14.95	256	26985m	0.0403	ng
25) Cl4(54)	15.29t	292	25309m	0.0383	ng
28) Cl3(29)	15.51	256	24932m	0.0384	ng
29) Cl3(26)-S1 (0.135)	15.87t	255	5825	No Calib	
30) Cl3(26)	15.82	256	27586m	0.0388	ng
Corrected Values:			26800	0.0377	ng
31) Cl4(50)	15.87t	292	17877m	0.0386	ng
32) Cl3(25)	15.95	256	25635m	0.0386	ng
33) Cl3(31)-S1 (0.135)	16.32t	255	6084	No Calib	
34) Cl3(31)	16.28	256	27526m	0.0389	ng
Corrected Values:			26705	0.0377	ng
35) Cl4(53)	16.32t	292	17836m	0.0378	ng
36) Cl3(28)	16.40	256	26494m	0.0382	ng
37) Cl3(33)	16.50	256	24735m	0.0386	ng
38) Cl4(51)	16.58	292	18571m	0.0386	ng

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9272.D MF0782.M Mon Mar 02 14:05:55 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9272.D
 Acq On : 26 Feb 2015 5:23 pm
 Sample : ID17MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 3
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 27 14:06:56 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 27 13:39:00 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	15310m	0.0385 ng
40) Cl3(22)		17.00	256	24135m	0.0383 ng
41) Cl4(46)		17.18	292	13907m	0.0383 ng
42) Cl4(43)		17.56	292	14930m	0.0397 ng
43) Cl4(52)		17.62	292	17606m	0.0412 ng
44) Cl4(48)		17.77	292	17604m	0.0369 ng
45) Cl4(49)		17.83	292	17215m	0.0401 ng
46) Cl5(104)		18.01tw	326	21276m	0.0377 ng
47) Cl4(47)-S1	(0.174)	18.02t	289	697	No Calib
48) Cl4(47)		18.02t	292	20121m	0.0373 ng
Corrected Values:				20000	0.0370 ng
49) Cl4(75)		18.10	292	25201m	0.0397 ng
50) Cl4(44)		18.46	292	15704m	0.0381 ng
51) Cl4(42)		18.67	292	15150m	0.0372 ng
52) Cl4(71)		18.89	292	22226m	0.0377 ng
53) Cl4(41)		19.00	292	13758m	0.0397 ng
54) Cl4(64)		19.28	292	23470m	0.0378 ng
55) Cl4(40)		19.36tw	292	12407m	0.0368 ng
56) Cl3(37)-S1	(0.135)	19.35t	255	7747	No Calib
57) Cl3(37)		19.35t	256	23919m	0.0371 ng
Corrected Values:				22873	0.0356 ng
58) Cl5(100)		19.71	326	15967m	0.0376 ng
59) Cl4(67)		20.01	292	21618m	0.0365 ng
60) Cl4(63)		20.40	292	20730m	0.0365 ng
61) Cl5(95)		20.55	326	13951m	0.0380 ng
62) Cl4(74)		20.61	292	22860m	0.0366 ng
63) Cl4(70)		20.75	292	22903m	0.0374 ng
64) Cl5(91)-S1	(0.220)	20.97tw	323	295	No Calib
65) Cl5(91)		20.91t	326	15635m	0.0377 ng
Corrected Values:				15570	0.0376 ng
66) Cl4(66)-S1	(0.174)	20.91t	289	4452	No Calib
67) Cl4(66)-S2	(0.650)	20.98tw	288	8007	No Calib
68) Cl4(66)		20.94	292	27894m	0.0470 ng
Corrected Values:				21914	0.0371 ng
69) Cl6(155)		20.99tw	360	19800m	0.0383 ng
70) Cl4(80)		21.26	292	21879m	0.0378 ng
71) Cl5(92)		21.56T	326	16011m	0.0420 ng
72) Cl5(84)		21.56T	326	10930m	0.0333 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	8286	No Calib
74) Cl4(56)		21.60	292	23832m	0.0404 ng
Corrected Values:				22390	0.0380 ng
75) Cl4(60)-S1	(0.174)	21.84tw	289	2092	No Calib
76) Cl4(60)		21.86tw	292	22207m	0.0385 ng
Corrected Values:				21843	0.0379 ng
77) Cl5(101)		21.85tw	326	16105m	0.0369 ng
79) Cl5(99)		22.11	326	16076m	0.0381 ng
80) Cl5(83)		22.51	326	11807m	0.0385 ng
81) Cl5(125)		22.65	326	19080m	0.0393 ng
82) Cl5(97)		22.79	326	13415m	0.0378 ng
83) Cl5(87)		23.26	326	13517m	0.0383 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9272.D MF0782.M Mon Mar 02 14:05:56 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9272.D
 Acq On : 26 Feb 2015 5:23 pm
 Sample : ID17MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 3
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 27 14:06:56 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 27 13:39:00 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.34	360	16628m	0.0400 ng
85) Cl5(115)		23.46	326	21602m	0.0392 ng
86) Cl6(154)		23.53	360	14577m	0.0382 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.50	326	12516m	0.0359 ng
Corrected Values:				12516	0.0359 ng
89) Cl5(110)		23.78	326	19460m	0.0378 ng
90) Cl4(81)		23.88	292	19932m	0.0376 ng
91) Cl5(82)-S1	(0.220)	24.22tw	323	2573	No Calib
92) Cl5(82)		24.21t	326	12734m	0.0400 ng
Corrected Values:				12168	0.0383 ng
93) Cl6(151)		24.21t	360	12140m	0.0379 ng
94) Cl6(135)		24.31	360	11972m	0.0384 ng
95) Cl4(77)-S2	(0.650)	24.45t	288	7256	No Calib
96) Cl4(77)		24.41	292	24041m	0.0464 ng
Corrected Values:				19325	0.0375 ng
97) Cl6(144)		24.45t	360	12508m	0.0381 ng
98) Cl6(149)		24.67	360	12883m	0.0381 ng
99) Cl6(139)		24.79	360	13322m	0.0394 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	2030	No Calib
101) Cl5(124)		24.84	326	21068m	0.0393 ng
Corrected Values:				20621	0.0385 ng
102) Cl6(140)		24.90t	360	12586m	0.0381 ng
103) Cl5(123)		25.05	326	18151m	0.0369 ng
104) Cl6(134)		25.14	360	10093m	0.0374 ng
105) Cl7(188)		25.25tw	394	14588m	0.0383 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	2823	No Calib
107) Cl5(118)-S2	(1.080)	25.24tw	322	5213	No Calib
108) Cl5(118)		25.27	326	25475m	0.0498 ng
Corrected Values:				19224	0.0378 ng
109) Cl6(131)		25.31t	360	12073m	0.0400 ng
110) Cl7(184)		25.54	394	14216m	0.0379 ng
111) Cl6(146)		25.62	360	13402m	0.0374 ng
112) Cl5(114)-S1	(0.220)	25.73t	323	458	No Calib
113) Cl5(114)		25.65	326	18947m	0.0373 ng
Corrected Values:				18846	0.0371 ng
115) Cl6(153)		25.88	360	14280m	0.0388 ng
116) Cl7(179)		26.11	394	13223m	0.0373 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	1638	No Calib
118) Cl5(105)		26.23	326	18145m	0.0383 ng
Corrected Values:				17785	0.0376 ng
119) Cl6(141)		26.27t	360	11300m	0.0370 ng
120) Cl7(176)		26.36	394	12777m	0.0370 ng
121) Cl6(127)-S1	(0.265)	26.48tw	323	1327	No Calib
122) Cl5(127)		26.50tw	326	19708m	0.0378 ng
123) Cl6(137)		26.49tw	360	11463m	0.0365 ng
124) Cl6(130)		26.62	360	10744m	0.0355 ng
125) Cl6(164)		26.68	360	15281m	0.0371 ng
126) Cl6(138)		26.81	360	12136m	0.0332 ng
127) Cl6(163)-S1	(0.265)	26.91t	357	1886	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9272.D MF0782.M Mon Mar 02 14:05:56 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9272.D
 Acq On : 26 Feb 2015 5:23 pm
 Sample : ID17MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 3
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 27 14:06:56 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 27 13:39:00 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.87	360	17008m	0.0435 ng
Corrected Values:				16508	0.0423 ng
129) Cl7(178)		26.91t	394	9994m	0.0378 ng
130) Cl6(158)		26.96	360	17033m	0.0383 ng
131) Cl7(175)		27.09	394	10121m	0.0366 ng
132) Cl7(187)		27.18	394	11290m	0.0380 ng
133) Cl6(166)-S1	(0.265)	27.34tw	357	1001	No Calib
134) Cl6(166)		27.35t	360	15986m	0.0385 ng
Corrected Values:				15721	0.0379 ng
135) Cl7(183)		27.35t	394	10755m	0.0376 ng
136) Cl5(126)		27.51	326	16273m	0.0368 ng
137) Cl6(128)-S1	(0.265)	27.70t	357	1341	No Calib
138) Cl6(128)		27.66	360	11830m	0.0395 ng
Corrected Values:				11475	0.0383 ng
139) Cl7(185)		27.70t	394	10001m	0.0388 ng
140) Cl7(174)		27.80	394	9445m	0.0367 ng
141) Cl6(167)		27.89	360	15198m	0.0366 ng
142) Cl8(202)		27.98	428	10808m	0.0365 ng
143) Cl7(177)		28.08	394	8989m	0.0368 ng
144) Cl8(201)		28.20t	428	10845m	0.0360 ng
145) Cl7(171)-S1	(0.309)	28.19tw	391	164	No Calib
146) Cl7(171)		28.20t	394	9595m	0.0363 ng
Corrected Values:				9544	0.0361 ng
147) Cl7(173)		28.29	394	8497m	0.0365 ng
148) Cl8(197)		28.42	428	10653m	0.0363 ng
149) Cl6(156)-S1	(0.265)	28.54t	357	1525	No Calib
150) Cl6(156)		28.51	360	14958m	0.0369 ng
Corrected Values:				14554	0.0359 ng
151) Cl7(172)		28.54t	394	9328m	0.0372 ng
152) Cl6(157)		28.60	360	14865m	0.0377 ng
153) Cl7(180)		28.74	394	10911m	0.0379 ng
154) Cl7(193)-S1	(0.309)	28.83t	391	136	No Calib
155) Cl7(193)		28.79	394	12064m	0.0357 ng
Corrected Values:				12022	0.0356 ng
156) Cl8(200)		28.83t	428	10820m	0.0371 ng
157) Cl7(191)		28.91	394	13454m	0.0370 ng
158) Cl7(170)-S1	(0.309)	29.51t	391	2234	No Calib
159) Cl7(170)		29.45	394	9141m	0.0373 ng
Corrected Values:				8451	0.0345 ng
160) Cl8(198)		29.48	428	8802m	0.0420 ng
161) Cl8(199)		29.51t	428	6430m	0.0315 ng
162) Cl7(190)		29.56	394	12467m	0.0363 ng
163) Cl6(169)-S2	(1.610)	29.68tw	356	3345	No Calib
164) Cl6(169)		29.65	360	18172m	0.0500 ng
Corrected Values:				12787	0.0357 ng
165) Cl8(203)		29.69tw	428	8327m	0.0362 ng
166) Cl9(208)		30.19	464	8941m	0.0343 ng
167) Cl7(189)		30.33	394	11403m	0.0348 ng
168) Cl9(207)		30.39t	464	9735m	0.0348 ng
169) Cl8(195)-S1	(0.400)	30.39t	425	64	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9272.D MF0782.M Mon Mar 02 14:05:57 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9272.D
 Acq On : 26 Feb 2015 5:23 pm
 Sample : ID17MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 3
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 27 14:06:56 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 27 13:39:00 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	7740m	0.0370 ng
Corrected Values:				7714	0.0368 ng
171) Cl8(194)		30.89	428	6870m	0.0330 ng
172) Cl8(205)		31.04	428	9416m	0.0351 ng
173) Cl9(206)		31.54	464	6144m	0.0320 ng
174) Cl10(209)		32.04	498	6796m	0.0322 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9272.D MF0782.M Mon Mar 02 14:05:57 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0783\F9275.D
 Acq On : 26 Feb 2015 7:47 pm
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 6
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 27 14:08:00 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 27 14:07:07 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	58395m	0.1000	ng
78) Cl6(161)	25.73t	360	45478m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	4133m	0.0000	ng
27) Cl3(34)	15.28tw	256	57060m	0.0823	ng
Spiked Amount	0.0800			Recovery	= 101.88%
Corrected Values:			56502	0.0815	ng
114) Cl6(152)	22.41	360	37065m	0.0817	ng
Spiked Amount	0.0803			Recovery	= 101.72%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.75	154	148695m	0.0785	ng
3) Cl1(1)	9.93	188	113109m	0.0807	ng
4) Cl1(3)	11.13	188	102983m	0.0760	ng
5) Cl2(4)	11.42	222	54476m	0.0800	ng
6) Cl2(7)	12.30	222	75912m	0.0767	ng
7) Cl2(9)	12.26	222	100684m	0.0842	ng
8) Cl2(6)	12.54	222	89147m	0.0808	ng
9) Cl2(5)	12.76	222	82741m	0.0807	ng
10) Cl2(8)	12.83	222	95046m	0.0811	ng
11) Cl3(19)	13.30	256	36731m	0.0810	ng
12) Cl3(30)	13.69	256	58540m	0.0823	ng
13) Cl2(11)-S1 (0.135)	14.14tw	221	20600	No Calib	
14) Cl2(11)	14.12	222	83191m	0.0809	ng
Corrected Values:			80410	0.0782	ng
15) Cl3(18)	14.15tw	256	42357m	0.0818	ng
16) Cl3(17)	14.26	256	42631m	0.0823	ng
17) Cl2(12)	14.35	222	80370m	0.0799	ng
18) Cl2(13)-S1 (0.135)	14.50t	221	2502	No Calib	
19) Cl2(13)	14.49tw	222	76404m	0.0785	ng
Corrected Values:			76066	0.0782	ng
20) Cl3(27)	14.50t	256	58450m	0.0806	ng
21) Cl3(24)	14.62	256	56751m	0.0828	ng
22) Cl3(16)	14.83	256	32284m	0.0817	ng
23) Cl2(15)	14.88	222	83201m	0.0750	ng
24) Cl3(32)	14.95	256	58655m	0.0821	ng
25) Cl4(54)	15.29t	292	57115m	0.0818	ng
28) Cl3(29)	15.51	256	57379m	0.0824	ng
29) Cl3(26)-S1 (0.135)	15.86tw	255	13066	No Calib	
30) Cl3(26)	15.82	256	63937m	0.0841	ng
Corrected Values:			62173	0.0818	ng
31) Cl4(50)	15.87tw	292	41037m	0.0827	ng
32) Cl3(25)	15.94	256	57629m	0.0812	ng
33) Cl3(31)-S1 (0.135)	16.32t	255	13596	No Calib	
34) Cl3(31)	16.28	256	63879m	0.0842	ng
Corrected Values:			62044	0.0818	ng
35) Cl4(53)	16.32t	292	41116m	0.0816	ng
36) Cl3(28)	16.40	256	60425m	0.0814	ng
37) Cl3(33)	16.50	256	56152m	0.0817	ng
38) Cl4(51)	16.58	292	42464m	0.0824	ng

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9275.D MF0782.M Mon Mar 02 14:06:02 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9275.D

Acq On : 26 Feb 2015 7:47 pm

Sample : ID18MID

Misc : 5-315 CCV

MS Integration Params: rteint.p

Vial: 6

Operator: DMS

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 27 14:08:00 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 14:07:07 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	34738m	0.0815 ng
40) Cl3(22)		17.00	256	55606m	0.0820 ng
41) Cl4(46)		17.17	292	31821m	0.0817 ng
42) Cl4(43)		17.55	292	31033m	0.0769 ng
43) Cl4(52)		17.62	292	39251m	0.0862 ng
44) Cl4(48)		17.77	292	40990m	0.0790 ng
45) Cl4(49)		17.83	292	39958m	0.0874 ng
46) Cl5(104)		18.01tw	326	48206m	0.0808 ng
47) Cl4(47)-S1	(0.174)	18.02t	289	1564	No Calib
48) Cl4(47)		18.02t	292	46372m	0.0800 ng
Corrected Values:				46100	0.0795 ng
49) Cl4(75)		18.10	292	58110m	0.0856 ng
50) Cl4(44)		18.46	292	35952m	0.0812 ng
51) Cl4(42)		18.67	292	35447m	0.0808 ng
52) Cl4(71)		18.89	292	51968m	0.0824 ng
53) Cl4(41)		19.00	292	30855m	0.0833 ng
54) Cl4(64)		19.28	292	53426m	0.0802 ng
55) Cl4(40)		19.35t	292	31470m	0.0871 ng
56) Cl3(37)-S1	(0.135)	19.35t	255	17582	No Calib
57) Cl3(37)		19.35t	256	56871m	0.0821 ng
Corrected Values:				54497	0.0787 ng
58) Cl5(100)		19.71	326	36881m	0.0810 ng
59) Cl4(67)		20.01	292	51897m	0.0812 ng
60) Cl4(63)		20.41	292	49324m	0.0807 ng
61) Cl5(95)		20.54	326	32249m	0.0814 ng
62) Cl4(74)		20.61	292	54093m	0.0803 ng
63) Cl4(70)		20.75	292	53769m	0.0817 ng
64) Cl5(91)-S1	(0.220)	20.99tw	323	623	No Calib
65) Cl5(91)		20.92tw	326	36045m	0.0808 ng
Corrected Values:				35908	0.0805 ng
66) Cl4(66)-S1	(0.174)	20.91tw	289	8526	No Calib
67) Cl4(66)-S2	(0.650)	20.98t	288	18788	No Calib
68) Cl4(66)		20.95	292	65702m	0.1029 ng
Corrected Values:				52006	0.0817 ng
69) Cl6(155)		20.98t	360	45704m	0.0821 ng
70) Cl4(80)		21.26	292	50718m	0.0813 ng
71) Cl5(92)		21.55Tw	326	30068m	0.0737 ng
72) Cl5(84)		21.56t	326	31002m	0.0905 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	18974	No Calib
74) Cl4(56)		21.60	292	56063m	0.0882 ng
Corrected Values:				52762	0.0830 ng
75) Cl4(60)-S1	(0.174)	21.84t	289	4760	No Calib
76) Cl4(60)		21.86	292	51724m	0.0834 ng
Corrected Values:				50896	0.0821 ng
77) Cl5(101)		21.84t	326	37670m	0.0801 ng
79) Cl5(99)		22.11	326	37936m	0.0819 ng
80) Cl5(83)		22.51	326	27153m	0.0804 ng
81) Cl5(125)		22.66	326	43000m	0.0809 ng
82) Cl5(97)		22.79	326	31973m	0.0817 ng
83) Cl5(87)		23.25	326	31139m	0.0802 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9275.D MF0782.M Mon Mar 02 14:06:02 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9275.D
 Acq On : 26 Feb 2015 7:47 pm
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 6
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 27 14:08:00 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 27 14:07:07 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.34	360	37030m	0.0817 ng
85) Cl5(115)		23.46	326	46675m	0.0765 ng
86) Cl6(154)		23.53	360	34283m	0.0815 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.49	326	34732m	0.0918 ng
Corrected Values:				34732	0.0918 ng
89) Cl5(110)		23.77	326	45646m	0.0809 ng
90) Cl4(81)		23.88	292	47104m	0.0800 ng
91) Cl5(82)-S1	(0.220)	24.21tw	323	5830	No Calib
92) Cl5(82)		24.22t	326	29414m	0.0841 ng
Corrected Values:				28131	0.0805 ng
93) Cl6(151)		24.22t	360	28517m	0.0806 ng
94) Cl6(135)		24.31	360	28117m	0.0822 ng
95) Cl4(77)-S2	(0.650)	24.44tw	288	17111	No Calib
96) Cl4(77)		24.42	292	57451m	0.1002 ng
Corrected Values:				46329	0.0814 ng
97) Cl6(144)		24.45tw	360	29676m	0.0820 ng
98) Cl6(149)		24.67	360	29787m	0.0801 ng
99) Cl6(139)		24.79	360	30142m	0.0810 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	4588	No Calib
101) Cl5(124)		24.84	326	48558m	0.0822 ng
Corrected Values:				47549	0.0806 ng
102) Cl6(140)		24.90t	360	29956m	0.0824 ng
103) Cl5(123)		25.05	326	43923m	0.0807 ng
104) Cl6(134)		25.14	360	24118m	0.0808 ng
105) Cl7(188)		25.25t	394	33858m	0.0808 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	6440	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	11834	No Calib
108) Cl5(118)		25.27	326	60099m	0.1066 ng
Corrected Values:				45901	0.0820 ng
109) Cl6(131)		25.31t	360	27405m	0.0818 ng
110) Cl7(184)		25.54	394	33058m	0.0804 ng
111) Cl6(146)		25.62	360	32083m	0.0803 ng
112) Cl5(114)-S1	(0.220)	25.73t	323	554	No Calib
113) Cl5(114)		25.65	326	46343m	0.0823 ng
Corrected Values:				46221	0.0821 ng
115) Cl6(153)		25.88	360	32941m	0.0814 ng
116) Cl7(179)		26.10	394	31689m	0.0811 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	3984	No Calib
118) Cl5(105)		26.22	326	42285m	0.0812 ng
Corrected Values:				41409	0.0796 ng
119) Cl6(141)		26.27t	360	27741m	0.0820 ng
120) Cl7(176)		26.36	394	30983m	0.0814 ng
121) Cl6(127)-S1	(0.265)	26.48tw	323	3093	No Calib
122) Cl5(127)		26.50tw	326	46359m	0.0812 ng
123) Cl6(137)		26.49tw	360	27825m	0.0800 ng
124) Cl6(130)		26.62	360	24802m	0.0741 ng
125) Cl6(164)		26.68	360	38307m	0.0846 ng
126) Cl6(138)		26.81	360	29202m	0.0726 ng
127) Cl6(163)-S1	(0.265)	26.91t	357	4891	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9275.D MF0782.M Mon Mar 02 14:06:03 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9275.D

Acq On : 26 Feb 2015 7:47 pm

Sample : ID18MID

Misc : 5-315 CCV

MS Integration Params: rteint.p

Vial: 6

Operator: DMS

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 27 14:08:00 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 14:07:07 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	39520m	0.0914 ng
Corrected Values:				38224	0.0885 ng
129) Cl7(178)		26.91t	394	23399m	0.0801 ng
130) Cl6(158)		26.96	360	39281m	0.0802 ng
131) Cl7(175)		27.10	394	23880m	0.0783 ng
132) Cl7(187)		27.17	394	27073m	0.0826 ng
133) Cl6(166)-S1	(0.265)	27.35t	357	2139	No Calib
134) Cl6(166)		27.35t	360	38042m	0.0833 ng
Corrected Values:				37475	0.0821 ng
135) Cl7(183)		27.35t	394	24965m	0.0789 ng
136) Cl5(126)		27.51	326	38275m	0.0785 ng
137) Cl6(128)-S1	(0.265)	27.69tw	357	3009	No Calib
138) Cl6(128)		27.66	360	26772m	0.0812 ng
Corrected Values:				25975	0.0788 ng
139) Cl7(185)		27.70tw	394	22853m	0.0802 ng
140) Cl7(174)		27.81	394	23262m	0.0817 ng
141) Cl6(167)		27.89	360	36677m	0.0800 ng
142) Cl8(202)		27.97	428	25977m	0.0800 ng
143) Cl7(177)		28.07	394	21438m	0.0799 ng
144) Cl8(201)		28.20t	428	25576m	0.0769 ng
145) Cl7(171)-S1	(0.309)	28.20t	391	298	No Calib
146) Cl7(171)		28.20t	394	23456m	0.0806 ng
Corrected Values:				23364	0.0803 ng
147) Cl7(173)		28.29	394	20427m	0.0800 ng
148) Cl8(197)		28.42	428	25456m	0.0790 ng
149) Cl6(156)-S1	(0.265)	28.54t	357	3785	No Calib
150) Cl6(156)		28.50	360	35481m	0.0793 ng
Corrected Values:				34478	0.0771 ng
151) Cl7(172)		28.54t	394	22285m	0.0798 ng
152) Cl6(157)		28.60	360	34943m	0.0801 ng
153) Cl7(180)		28.74	394	23124m	0.0732 ng
154) Cl7(193)-S1	(0.309)	28.82tw	391	283	No Calib
155) Cl7(193)		28.79	394	28642m	0.0768 ng
Corrected Values:				28555	0.0766 ng
156) Cl8(200)		28.83tw	428	25163m	0.0786 ng
157) Cl7(191)		28.91	394	31396m	0.0782 ng
158) Cl7(170)-S1	(0.309)	29.50tw	391	5230	No Calib
159) Cl7(170)		29.45	394	23325m	0.0868 ng
Corrected Values:				21709	0.0809 ng
160) Cl8(198)		29.47	428	17109m	0.0749 ng
161) Cl8(199)		29.51tw	428	15496m	0.0682 ng
162) Cl7(190)		29.56	394	29980m	0.0793 ng
163) Cl6(169)-S2	(1.610)	29.68tw	356	7426	No Calib
164) Cl6(169)		29.65	360	42967m	0.1061 ng
Corrected Values:				31011	0.0776 ng
165) Cl8(203)		29.69tw	428	19658m	0.0774 ng
166) Cl9(208)		30.19	464	20916m	0.0734 ng
167) Cl7(189)		30.33	394	27433m	0.0760 ng
168) Cl9(207)		30.39t	464	23536m	0.0763 ng
169) Cl8(195)-S1	(0.400)	30.39t	425	120	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9275.D MF0782.M Mon Mar 02 14:06:03 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9275.D
 Acq On : 26 Feb 2015 7:47 pm
 Sample : ID18MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 6
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 27 14:08:00 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 27 14:07:07 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39t	428	18172m	0.0794 ng
Corrected Values:				18124	0.0792 ng
171) Cl8(194)		30.89	428	16590m	0.0724 ng
172) Cl8(205)		31.04	428	21709m	0.0740 ng
173) Cl9(206)		31.54	464	14775m	0.0706 ng
174) Cl10(209)		32.05	498	15481m	0.0683 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9275.D MF0782.M Mon Mar 02 14:06:03 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0782\F9221.D

Vial: 41

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Acq On : 19 Feb 2015 7:07 pm

Operator: RR/BL

Sample : CE811PB-P(0)

Inst : Inst. F

Misc : Procedural Blank 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 13:36:42 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 13:36:35 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	51535m	100.0000	ng
78) Cl6(161)	25.73	360	44146m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.28t	255	672m	0.0000	ng
27) Cl3(34)	15.28t	256	248276m	402.4938	ng
Spiked Amount	400.0000			Recovery	= 100.59%
Corrected Values:			248185	402.3472	ng
114) Cl6(152)	22.41	360	180154m	383.5109	ng
Spiked Amount	401.6000			Recovery	= 95.50%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	
4) Cl1(3)		0.00	188	0	N.D.	
5) Cl2(4)		0.00	222	0	N.D.	
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		0.00	222	0	N.D.	
11) Cl3(19)		0.00	256	0	N.D.	
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	
14) Cl2(11)		0.00	222	0	N.D.	
Corrected Values:				0	ng	
15) Cl3(18)		0.00	256	0	N.D.	
16) Cl3(17)		0.00	256	0	N.D.	
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	
19) Cl2(13)		0.00	222	0	N.D.	
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	
21) Cl3(24)		0.00	256	0	N.D.	
22) Cl3(16)		0.00	256	0	N.D.	
23) Cl2(15)		0.00	222	0	N.D.	
24) Cl3(32)		0.00	256	0	N.D.	
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.	
30) Cl3(26)		0.00	256	0	N.D.	
Corrected Values:				0	ng	
31) Cl4(50)		0.00	292	0	N.D.	
32) Cl3(25)		0.00	256	0	N.D.	
33) Cl3(31)-S1 (0.135)		0.00	255	0	N.D.	
34) Cl3(31)		0.00	256	0	N.D.	
Corrected Values:				0	ng	
35) Cl4(53)		0.00	292	0	N.D.	
36) Cl3(28)		0.00	256	0	N.D.	
37) Cl3(33)		0.00	256	0	N.D.	
38) Cl4(51)		0.00	292	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9221.D MF0782.M Mon Mar 02 14:12:33 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9221.D

Vial: 41

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Acq On : 19 Feb 2015 7:07 pm

Operator: RR/BL

Sample : CE811PB-P(0)

Inst : Inst. F

Misc : Procedural Blank 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 13:36:42 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 13:36:35 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D.
40) Cl3(22)		0.00	256	0	N.D.
41) Cl4(46)		0.00	292	0	N.D.
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		0.00	292	0	N.D.
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		0.00	292	0	N.D.
46) Cl5(104)		17.96	326	114	Below Cal #
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		0.00	292	0	N.D.
51) Cl4(42)		0.00	292	0	N.D.
52) Cl4(71)		0.00	292	0	N.D.
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D.
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D.
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D.
59) Cl4(67)		0.00	292	0	N.D.
60) Cl4(63)		0.00	292	0	N.D.
61) Cl5(95)		0.00	326	0	N.D.
62) Cl4(74)		0.00	292	0	N.D.
63) Cl4(70)		0.00	292	0	N.D.
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D.
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D.
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D.
68) Cl4(66)		0.00	292	0	N.D.
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D.
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D.
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D.
74) Cl4(56)		0.00	292	0	N.D.
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D.
76) Cl4(60)		0.00	292	0	N.D.
Corrected Values:				0	ng
77) Cl5(101)		0.00	326	0	N.D.
79) Cl5(99)		0.00	326	0	N.D.
80) Cl5(83)		0.00	326	0	N.D.
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D.
83) Cl5(87)		0.00	326	0	N.D.

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9221.D MF0782.M Mon Mar 02 14:12:33 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9221.D

Vial: 41

Acq On : 19 Feb 2015 7:07 pm

Operator: RR/BL

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Sample : CE811PB-P(0)

Inst : Inst. F

Misc : Procedural Blank 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 13:36:42 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 13:36:35 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D.
86) Cl6(154)		0.00	360	0	N.D.
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D.
Corrected Values:				0	ng
89) Cl5(110)		0.00	326	0	N.D.
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D.
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D.
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D.
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		0.00	360	0	N.D.
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D.
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D.
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D.
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D.
108) Cl5(118)		0.00	326	0	N.D.
Corrected Values:				0	ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D.
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D.
116) Cl7(179)		0.00	394	0	N.D.
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D.
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D.
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D.
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D.
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9221.D MF0782.M Mon Mar 02 14:12:33 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9221.D

Vial: 41

Acq On : 19 Feb 2015 7:07 pm

Operator: RR/BL

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Sample : CE811PB-P(0)

Inst : Inst. F

Misc : Procedural Blank 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 13:36:42 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 13:36:35 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D.
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D.
130) Cl6(158)		0.00	360	0	N.D.
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D.
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		0.00	360	0	N.D.
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D.
136) Cl5(126)		0.00	326	0	N.D.
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		0.00	360	0	N.D.
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D.
141) Cl6(167)		0.00	360	0	N.D.
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D.
144) Cl8(201)		0.00	428	0	N.D.
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D.
150) Cl6(156)		0.00	360	0	N.D.
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D.
152) Cl6(157)		0.00	360	0	N.D.
153) Cl7(180)		0.00	394	0	N.D.
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D.
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		0.00	394	0	N.D.
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D.
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D.
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D.
166) Cl9(208)		0.00	464	0	N.D.
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9221.D MF0782.M Mon Mar 02 14:12:33 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9221.D

Vial: 41

Acq On : 19 Feb 2015 7:07 pm

Operator: RR/BL

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Sample : CE811PB-P(0)

Inst : Inst. F

Misc : Procedural Blank 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 13:36:42 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 13:36:35 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D.
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9222.D

Vial: 42

Acq On : 19 Feb 2015 7:55 pm

Operator: RR/BL

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Sample : CE812LCS-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 13:58:38 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 13:58:31 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	54065m	100.0000	ng
78) Cl6(161)	25.73t	360	46529m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	2243m	0.0000	ng
27) Cl3(34)	15.28tw	256	262612m	405.7902	ng
Spiked Amount	400.0000			Recovery	= 101.33%
Corrected Values:			262309	405.3251	ng
114) Cl6(152)	22.41	360	193655m	390.5732	ng
Spiked Amount	401.6000			Recovery	= 97.25%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%REC
2) Biphenyl		0.00	154	0	N.D.	d	
3) Cl1(1)		9.93	188	46565m	35.8331	ng	94
4) Cl1(3)		11.13	188	44307m	35.4444	ng	93
5) Cl2(4)		11.42	222	22174m	35.2409	ng	94
6) Cl2(7)		0.00	222	0	N.D.		
7) Cl2(9)		0.00	222	0	N.D.		
8) Cl2(6)		0.00	222	0	N.D.	d	
9) Cl2(5)		0.00	222	0	N.D.		
10) Cl2(8)		12.83	222	37003m	34.2266	ng	89
11) Cl3(19)		13.30	256	15906m	38.1309	ng	100
12) Cl3(30)		0.00	256	0	N.D.		
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	d	
14) Cl2(11)		0.00	222	0	N.D.	d	
Corrected Values:				0	ng		
15) Cl3(18)		14.15	256	16479m	34.8138	ng	91
16) Cl3(17)		0.00	256	0	N.D.		
17) Cl2(12)		0.00	222	0	N.D.		
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.		
19) Cl2(13)		0.00	222	0	N.D.	d	
Corrected Values:				0	ng		
20) Cl3(27)		0.00	256	0	N.D.		
21) Cl3(24)		0.00	256	0	N.D.		
22) Cl3(16)		0.00	256	0	N.D.		
23) Cl2(15)		14.88	222	32438m	31.9261	ng	85
24) Cl3(32)		0.00	256	0	N.D.		
25) Cl4(54)		15.29t	292	22905m	35.2629	ng	92
28) Cl3(29)		0.00	256	0	N.D.		
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.		
30) Cl3(26)		0.00	256	0	N.D.		
Corrected Values:				0	ng		
31) Cl4(50)		0.00	292	0	N.D.		
32) Cl3(25)		0.00	256	0	N.D.		
33) Cl3(31)-S1 (0.135)		0.00	255	0	N.D.	d	
34) Cl3(31)		16.29	256	26530m	38.1013	ng	
Corrected Values:				26530	38.1013	ng	
35) Cl4(53)		0.00	292	0	N.D.		
36) Cl3(28)		16.40	256	26152m	38.3693	ng	100
37) Cl3(33)		0.00	256	0	N.D.		
38) Cl4(51)		0.00	292	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9222.D MF0782.M Mon Mar 02 14:12:39 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9222.D

Vial: 42

Acq On : 19 Feb 2015 7:55 pm

Operator: RR/BL

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Sample : CE812LCS-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 13:58:38 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 13:58:31 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
39) Cl4(45)		0.00	292	0	N.D.	
40) Cl3(22)		0.00	256	0	N.D.	
41) Cl4(46)		0.00	292	0	N.D.	
42) Cl4(43)		0.00	292	0	N.D.	
43) Cl4(52)		17.63	292	18364m	43.7104 ng	114
44) Cl4(48)		0.00	292	0	N.D.	
45) Cl4(49)		17.83	292	17537m	41.5486 ng	111
46) Cl5(104)		18.02	326	20543m	37.0012 ng	97
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d	
48) Cl4(47)		0.00	292	0	N.D. d	
Corrected Values:				0	ng	
49) Cl4(75)		0.00	292	0	N.D.	
50) Cl4(44)		18.46	292	15214m	37.5399 ng	98
51) Cl4(42)		0.00	292	0	N.D.	
52) Cl4(71)		0.00	292	0	N.D. d	
53) Cl4(41)		0.00	292	0	N.D. d	
54) Cl4(64)		0.00	292	0	N.D.	
55) Cl4(40)		0.00	292	0	N.D. d	
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d	
57) Cl3(37)		19.35	256	24207m	38.1855 ng	
Corrected Values:				24207	38.1855 ng	
58) Cl5(100)		0.00	326	0	N.D.	
59) Cl4(67)		0.00	292	0	N.D. d	
60) Cl4(63)		0.00	292	0	N.D. d	
61) Cl5(95)		0.00	326	0	N.D.	
62) Cl4(74)		20.61	292	24637m	39.9646 ng	104
63) Cl4(70)		20.75	292	23766m	39.4409 ng	103
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d	
65) Cl5(91)		0.00	326	0	N.D. d	
Corrected Values:				0	ng	
66) Cl4(66)-S1	(0.174)	20.98t	289	1254	No Calib	
67) Cl4(66)-S2	(0.650)	20.98t	288	8556	No Calib	
68) Cl4(66)		20.95	292	28936m	49.4858 ng	
Corrected Values:				23157	39.7840 ng	
69) Cl6(155)		20.99tw	360	21130m	41.4553 ng	108
70) Cl4(80)		0.00	292	0	N.D.	
71) Cl5(92)		0.00	326	0	N.D.	
72) Cl5(84)		0.00	326	0	N.D.	
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D.	
74) Cl4(56)		0.00	292	0	N.D. d	
Corrected Values:				0	ng	
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d	
76) Cl4(60)		0.00	292	0	N.D. d	
Corrected Values:				0	ng	
77) Cl5(101)		21.85	326	16789m	39.0405 ng	102
79) Cl5(99)		22.12	326	17064m	36.6527 ng	96
80) Cl5(83)		22.52	326	14727m	43.2825 ng	113
81) Cl5(125)		0.00	326	0	N.D.	
82) Cl5(97)		0.00	326	0	N.D. d	
83) Cl5(87)		23.26	326	14770m	37.9070 ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9222.D MF0782.M Mon Mar 02 14:12:39 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9222.D

Vial: 42

Acq On : 19 Feb 2015 7:55 pm

Operator: RR/BL

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Sample : CE812LCS-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 13:58:38 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 13:58:31 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
84) Cl6(136)		0.00	360	0	N.D. d	
85) Cl5(115)		0.00	326	0	N.D.	
86) Cl6(154)		0.00	360	0	N.D. d	
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.	
88) Cl5(85)		0.00	326	0	N.D.	
Corrected Values:				0	ng	
89) Cl5(110)		23.77	326	22375m	39.3372 ng	103
90) Cl4(81)		23.88	292	23593m	40.1254 ng	107
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d	
92) Cl5(82)		0.00	326	0	N.D. d	
Corrected Values:				0	ng	
93) Cl6(151)		24.22	360	13257m	37.4717 ng	98
94) Cl6(135)		0.00	360	0	N.D.	
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.	
96) Cl4(77)		24.41	292	22305m	39.1320 ng	
Corrected Values:				22305	39.1320 ng	
97) Cl6(144)		0.00	360	0	N.D.	
98) Cl6(149)		24.68	360	14495m	38.7733 ng	101
99) Cl6(139)		0.00	360	0	N.D.	
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.	
101) Cl5(124)		0.00	326	0	N.D.	
Corrected Values:				0	ng	
102) Cl6(140)		0.00	360	0	N.D.	
103) Cl5(123)		25.06	326	20603m	37.8696 ng	99
104) Cl6(134)		0.00	360	0	N.D.	
105) Cl7(188)		25.25t	394	15880m	37.7983 ng	99
106) Cl5(118)-S1	(0.220)	25.25t	323	764	No Calib	
107) Cl5(118)-S2	(1.080)	25.25t	322	5601	No Calib	
108) Cl5(118)		25.27	326	28023m	49.5540 ng	
Corrected Values:				21806	38.7698 ng	
109) Cl6(131)		0.00	360	0	N.D.	
110) Cl7(184)		0.00	394	0	N.D.	
111) Cl6(146)		0.00	360	0	N.D. d	
112) Cl5(114)-S1	(0.220)	25.73t	323	775	No Calib	
113) Cl5(114)		25.65	326	21447m	38.1332 ng	
Corrected Values:				21276	37.8399 ng	
115) Cl6(153)		25.88	360	16050m	39.4840 ng	103
116) Cl7(179)		0.00	394	0	N.D. d	
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.	
118) Cl5(105)		26.23	326	21284m	40.6099 ng	
Corrected Values:				21284	40.6099 ng	
119) Cl6(141)		0.00	360	0	N.D.	
120) Cl7(176)		0.00	394	0	N.D.	
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.	
122) Cl5(127)		0.00	326	0	N.D. d	
123) Cl6(137)		0.00	360	0	N.D.	
124) Cl6(130)		0.00	360	0	N.D.	
125) Cl6(164)		0.00	360	0	N.D.	
126) Cl6(138)		26.81	360	14916m	36.8503 ng	96
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9222.D MF0782.M Mon Mar 02 14:12:39 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9222.D

Vial: 42

Acq On : 19 Feb 2015 7:55 pm

Operator: RR/BL

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Sample : CE812LCS-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 13:58:38 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 13:58:31 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
128) Cl6(163)		0.00	360	0	N.D.	
Corrected Values:				0	ng	
129) Cl7(178)		0.00	394	0	N.D.	
130) Cl6(158)		26.96	360	18711m	38.0925 ng	102
131) Cl7(175)		0.00	394	0	N.D.	
132) Cl7(187)		27.18	394	12652m	38.5290 ng	101
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D. d	
134) Cl6(166)		0.00	360	0	N.D. d	
Corrected Values:				0	ng	
135) Cl7(183)		27.36	394	13335m	42.0016 ng	110
136) Cl5(126)		27.51	326	20516m	41.8472 ng	109
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D.	
138) Cl6(128)		27.67	360	13203m	39.8724 ng	
Corrected Values:				13203	39.8724 ng	
139) Cl7(185)		0.00	394	0	N.D.	
140) Cl7(174)		0.00	394	0	N.D.	
141) Cl6(167)		27.90	360	17093m	37.2541 ng	97
142) Cl8(202)		27.98	428	12381m	37.8389 ng	99
143) Cl7(177)		28.08	394	10382m	38.4591 ng	101
144) Cl8(201)		28.20	428	11811m	35.5114 ng	95
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.	
146) Cl7(171)		0.00	394	0	N.D. d	
Corrected Values:				0	ng	
147) Cl7(173)		0.00	394	0	N.D.	
148) Cl8(197)		0.00	428	0	N.D.	
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D.	
150) Cl6(156)		28.51	360	17596m	39.1878 ng	
Corrected Values:				17596	39.1878 ng	
151) Cl7(172)		0.00	394	0	N.D.	
152) Cl6(157)		28.61	360	17302m	39.6063 ng	106
153) Cl7(180)		28.74	394	11968m	37.6036 ng	98
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.	
155) Cl7(193)		0.00	394	0	N.D.	
Corrected Values:				0	ng	
156) Cl8(200)		0.00	428	0	N.D.	
157) Cl7(191)		0.00	394	0	N.D.	
158) Cl7(170) -S1	(0.309)	0.00	391	0	N.D.	
159) Cl7(170)		29.45	394	11113m	41.0197 ng	
Corrected Values:				11113	41.0197 ng	
160) Cl8(198)		0.00	428	0	N.D.	
161) Cl8(199)		0.00	428	0	N.D.	
162) Cl7(190)		0.00	394	0	N.D.	
163) Cl6(169) -S2	(1.610)	29.69t	356	3716	No Calib	
164) Cl6(169)		29.65	360	21854m	54.2119 ng	
Corrected Values:				15871	39.8990 ng	
165) Cl8(203)		29.69t	428	9840m	38.6020 ng	101
166) Cl9(208)		30.19	464	10801m	37.4819 ng	98
167) Cl7(189)		30.33	394	13382m	36.8845 ng	96
168) Cl9(207)		0.00	464	0	N.D.	
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9222.D MF0782.M Mon Mar 02 14:12:40 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9222.D

Vial: 42

Acq On : 19 Feb 2015 7:55 pm

Operator: RR/BL

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Sample : CE812LCS-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 13:58:38 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 13:58:31 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
170) Cl8(195)		30.40	428	8555m	36.9628 ng	
Corrected Values:				8555	36.9628 ng	
171) Cl8(194)		30.89	428	8383m	36.3591 ng	95
172) Cl8(205)		31.04	428	11150m	37.5971 ng	98
173) Cl9(206)		31.55	464	7991m	37.6498 ng	98
174) Cl10(209)		32.05	498	7954m	34.1641 ng	88

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9222.D MF0782.M Mon Mar 02 14:12:40 2015

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9223.D

Vial: 43

Acq On : 19 Feb 2015 8:43 pm

Operator: RR/BL

237 of 381

Sample : CE813LCSD-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample Duplicate 5-31 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 14:57:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 14:56:58 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	52777m	100.0000	ng
78) Cl6(161)	25.73t	360	45684m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	15.29tw	255	2339m	0.0000	ng	
27) Cl3(34)		15.28tw	256	262456m	415.3812	ng	
Spiked Amount	400.0000				Recovery	=	103.72%
Corrected Values:				262140	414.8845	ng	
114) Cl6(152)		22.41	360	190852m	391.9308	ng	
Spiked Amount	401.6000				Recovery	=	97.59%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%REC
2) Biphenyl		0.00	154	0	N.D.	d	
3) Cl1(1)		9.93	188	46178m	36.4029	ng	95
4) Cl1(3)		11.13	188	45751m	37.4760	ng	98
5) Cl2(4)		11.42	222	22345m	36.3735	ng	97
6) Cl2(7)		0.00	222	0	N.D.		
7) Cl2(9)		0.00	222	0	N.D.		
8) Cl2(6)		0.00	222	0	N.D.	d	
9) Cl2(5)		0.00	222	0	N.D.		
10) Cl2(8)		12.84	222	37222m	35.2592	ng	92
11) Cl3(19)		13.30	256	16016m	39.3168	ng	103
12) Cl3(30)		0.00	256	0	N.D.		
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d	
14) Cl2(11)		0.00	222	0	N.D.	d	
Corrected Values:				0	ng		
15) Cl3(18)		14.15	256	16462m	35.6073	ng	93
16) Cl3(17)		0.00	256	0	N.D.		
17) Cl2(12)		0.00	222	0	N.D.		
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.		
19) Cl2(13)		0.00	222	0	N.D.	d	
Corrected Values:				0	ng		
20) Cl3(27)		0.00	256	0	N.D.		
21) Cl3(24)		0.00	256	0	N.D.		
22) Cl3(16)		0.00	256	0	N.D.		
23) Cl2(15)		14.88	222	33418m	33.6605	ng	90
24) Cl3(32)		0.00	256	0	N.D.		
25) Cl4(54)		15.30tw	292	22732m	35.8518	ng	94
28) Cl3(29)		0.00	256	0	N.D.	d	
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.		
30) Cl3(26)		0.00	256	0	N.D.	d	
Corrected Values:				0	ng		
31) Cl4(50)		0.00	292	0	N.D.		
32) Cl3(25)		0.00	256	0	N.D.		
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.		
34) Cl3(31)		16.29	256	25954m	38.1824	ng	
Corrected Values:				25954	38.1824	ng	
35) Cl4(53)		0.00	292	0	N.D.		
36) Cl3(28)		16.40	256	26365m	39.6046	ng	104
37) Cl3(33)		0.00	256	0	N.D.		
38) Cl4(51)		0.00	292	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9223.D MF0782.M Mon Mar 02 14:12:43 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9223.D

Vial: 43

Acq On : 19 Feb 2015 8:43 pm

Operator: RR/BL

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Sample : CE813LCSD-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample Duplicate 5-31 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 14:57:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 14:56:58 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
39) Cl4(45)		0.00	292	0	N.D.	
40) Cl3(22)		0.00	256	0	N.D.	
41) Cl4(46)		0.00	292	0	N.D.	
42) Cl4(43)		0.00	292	0	N.D.	
43) Cl4(52)		17.62	292	18234m	44.4583 ng	116
44) Cl4(48)		0.00	292	0	N.D.	
45) Cl4(49)		17.83	292	16931m	41.0942 ng	110
46) Cl5(104)		18.02	326	20190m	37.2548 ng	97
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d	
48) Cl4(47)		0.00	292	0	N.D. d	
Corrected Values:				0	ng	
49) Cl4(75)		0.00	292	0	N.D.	
50) Cl4(44)		18.46	292	15309m	38.6770 ng	101
51) Cl4(42)		0.00	292	0	N.D.	
52) Cl4(71)		0.00	292	0	N.D.	
53) Cl4(41)		0.00	292	0	N.D. d	
54) Cl4(64)		0.00	292	0	N.D.	
55) Cl4(40)		0.00	292	0	N.D. d	
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D.	
57) Cl3(37)		19.35	256	23772m	38.4092 ng	
Corrected Values:				23772	38.4092 ng	
58) Cl5(100)		0.00	326	0	N.D.	
59) Cl4(67)		0.00	292	0	N.D. d	
60) Cl4(63)		0.00	292	0	N.D. d	
61) Cl5(95)		0.00	326	0	N.D.	
62) Cl4(74)		20.62	292	24659m	40.9545 ng	107
63) Cl4(70)		20.75	292	24044m	40.8485 ng	107
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.	
65) Cl5(91)		0.00	326	0	N.D. d	
Corrected Values:				0	ng	
66) Cl4(66)-S1	(0.174)	20.99t	289	1216	No Calib	
67) Cl4(66)-S2	(0.650)	20.99t	288	8186	No Calib	
68) Cl4(66)		20.95	292	28387m	49.7270 ng	
Corrected Values:				22854	40.2118 ng	
69) Cl6(155)		20.99t	360	20762m	41.7210 ng	109
70) Cl4(80)		0.00	292	0	N.D.	
71) Cl5(92)		0.00	326	0	N.D.	
72) Cl5(84)		0.00	326	0	N.D.	
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D.	
74) Cl4(56)		0.00	292	0	N.D. d	
Corrected Values:				0	ng	
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d	
76) Cl4(60)		0.00	292	0	N.D. d	
Corrected Values:				0	ng	
77) Cl5(101)		21.85	326	16680m	39.7189 ng	104
79) Cl5(99)		22.12	326	16954m	37.0805 ng	97
80) Cl5(83)		22.52	326	14001m	41.9422 ng	110
81) Cl5(125)		0.00	326	0	N.D.	
82) Cl5(97)		0.00	326	0	N.D.	
83) Cl5(87)		23.26	326	14773m	38.6006 ng	101

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9223.D MF0782.M Mon Mar 02 14:12:43 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9223.D

Vial: 43

Acq On : 19 Feb 2015 8:43 pm

Operator: RR/BL

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Sample : CE813LCSD-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample Duplicate 5-31 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 14:57:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 14:56:58 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
84) Cl6(136)		0.00	360	0	N.D. d	
85) Cl5(115)		0.00	326	0	N.D.	
86) Cl6(154)		0.00	360	0	N.D.	
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.	
88) Cl5(85)		0.00	326	0	N.D.	
Corrected Values:				0	ng	
89) Cl5(110)		23.78	326	21920m	39.2518 ng	103
90) Cl4(81)		23.88	292	23194m	40.1746 ng	107
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d	
92) Cl5(82)		0.00	326	0	N.D. d	
Corrected Values:				0	ng	
93) Cl6(151)		24.22	360	13131m	37.7905 ng	99
94) Cl6(135)		0.00	360	0	N.D.	
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.	
96) Cl4(77)		24.42	292	21850m	39.0453 ng	
Corrected Values:				21850	39.0453 ng	
97) Cl6(144)		0.00	360	0	N.D.	
98) Cl6(149)		24.68	360	14111m	38.4502 ng	101
99) Cl6(139)		0.00	360	0	N.D.	
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.	
101) Cl5(124)		0.00	326	0	N.D.	
Corrected Values:				0	ng	
102) Cl6(140)		0.00	360	0	N.D.	
103) Cl5(123)		25.06	326	20359m	38.1057 ng	100
104) Cl6(134)		0.00	360	0	N.D.	
105) Cl7(188)		25.25t	394	15374m	37.2869 ng	97
106) Cl5(118)-S1	(0.220)	25.25t	323	824	No Calib	
107) Cl5(118)-S2	(1.080)	25.25t	322	5587	No Calib	
108) Cl5(118)		25.27	326	27878m	50.1950 ng	
Corrected Values:				21663	39.2180 ng	
109) Cl6(131)		0.00	360	0	N.D.	
110) Cl7(184)		0.00	394	0	N.D.	
111) Cl6(146)		0.00	360	0	N.D. d	
112) Cl5(114)-S1	(0.220)	25.73t	323	570	No Calib	
113) Cl5(114)		25.65	326	20905m	37.8668 ng	
Corrected Values:				20780	37.6484 ng	
115) Cl6(153)		25.88	360	15526m	38.9141 ng	102
116) Cl7(179)		0.00	394	0	N.D. d	
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.	
118) Cl5(105)		26.23	326	20850m	40.5195 ng	
Corrected Values:				20850	40.5195 ng	
119) Cl6(141)		0.00	360	0	N.D.	
120) Cl7(176)		0.00	394	0	N.D.	
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.	
122) Cl5(127)		0.00	326	0	N.D. d	
123) Cl6(137)		0.00	360	0	N.D.	
124) Cl6(130)		0.00	360	0	N.D.	
125) Cl6(164)		0.00	360	0	N.D.	
126) Cl6(138)		26.81	360	14467m	36.4145 ng	95
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9223.D MF0782.M Mon Mar 02 14:12:44 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9223.D

Vial: 43

Acq On : 19 Feb 2015 8:43 pm

Operator: RR/BL

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Sample : CE813LCSD-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample Duplicate 5-31 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 14:57:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 14:56:58 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
128) Cl6(163)		0.00	360	0	N.D.	
Corrected Values:				0	ng	
129) Cl7(178)		0.00	394	0	N.D.	
130) Cl6(158)		26.96	360	18487m	38.3268 ng	102
131) Cl7(175)		0.00	394	0	N.D.	
132) Cl7(187)		27.18	394	12509m	38.7915 ng	101
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D. d	
134) Cl6(166)		0.00	360	0	N.D. d	
Corrected Values:				0	ng	
135) Cl7(183)		27.35	394	12904m	41.4150 ng	108
136) Cl5(126)		27.51	326	19933m	41.4203 ng	108
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D.	
138) Cl6(128)		27.67	360	12856m	39.5515 ng	
Corrected Values:				12856	39.5515 ng	
139) Cl7(185)		0.00	394	0	N.D.	
140) Cl7(174)		0.00	394	0	N.D.	
141) Cl6(167)		27.90	360	17173m	38.0988 ng	100
142) Cl8(202)		27.98	428	11921m	37.1220 ng	97
143) Cl7(177)		28.08	394	10432m	39.3413 ng	103
144) Cl8(201)		28.20	428	11602m	35.5276 ng	95
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.	
146) Cl7(171)		0.00	394	0	N.D. d	
Corrected Values:				0	ng	
147) Cl7(173)		0.00	394	0	N.D.	
148) Cl8(197)		0.00	428	0	N.D.	
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D.	
150) Cl6(156)		28.51	360	17180m	38.9740 ng	
Corrected Values:				17180	38.9740 ng	
151) Cl7(172)		0.00	394	0	N.D.	
152) Cl6(157)		28.60	360	17377m	40.4864 ng	108
153) Cl7(180)		28.74	394	11727m	37.5294 ng	98
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.	
155) Cl7(193)		0.00	394	0	N.D.	
Corrected Values:				0	ng	
156) Cl8(200)		0.00	428	0	N.D.	
157) Cl7(191)		0.00	394	0	N.D.	
158) Cl7(170) -S1	(0.309)	0.00	391	0	N.D.	
159) Cl7(170)		29.45	394	10919m	41.0486 ng	
Corrected Values:				10919	41.0486 ng	
160) Cl8(198)		0.00	428	0	N.D.	
161) Cl8(199)		0.00	428	0	N.D.	
162) Cl7(190)		0.00	394	0	N.D.	
163) Cl6(169) -S2	(1.610)	29.69t	356	3722	No Calib	
164) Cl6(169)		29.65	360	21154m	53.4763 ng	
Corrected Values:				15162	38.8691 ng	
165) Cl8(203)		29.69t	428	9208	36.8369 ng	96
166) Cl9(208)		30.19	464	10597m	37.4546 ng	98
167) Cl7(189)		30.33	394	13184m	37.0086 ng	97
168) Cl9(207)		0.00	464	0	N.D.	
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9223.D MF0782.M Mon Mar 02 14:12:44 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9223.D

Vial: 43

Acq On : 19 Feb 2015 8:43 pm

Operator: RR/BL

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Sample : CE813LCSD-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample Duplicate 5-31 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 14:57:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 14:56:58 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
170) Cl8(195)		30.40	428	8319m	36.6131 ng	
Corrected Values:				8319	36.6131 ng	
171) Cl8(194)		30.89	428	8073m	35.6772 ng	93
172) Cl8(205)		31.04	428	10655m	36.6038 ng	96
173) Cl9(206)		31.55	464	7833m	37.5887 ng	98
174) Cl10(209)		32.05	498	7653m	33.4697 ng	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9223.D MF0782.M Mon Mar 02 14:12:44 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9225.D

Vial: 45

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Acq On : 19 Feb 2015 10:19 pm

Operator: RR/BL

Sample : L0064-P(2)

Inst : Inst. F

Misc : S-14N-PCC15-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 16:12:35 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 16:12:29 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	52734m	95.0000	ng
78) Cl6(161)	25.73	360	43060m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	673m	0.0000	ng
27) Cl3(34)	15.29t	256	254312m	382.7573	ng
Spiked Amount	379.8670			Recovery	= 100.73%
Corrected Values:			254221	382.6213	ng
114) Cl6(152)	22.42	360	168855m	351.0994	ng
Spiked Amount	381.3865			Recovery	= 92.06%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	13456m	7.4475	ng
3) Cl1(1)		9.94	188	1032m	0.7931	ng
4) Cl1(3)		11.13	188	3303m	2.8790	ng
5) Cl2(4)		11.42	222	7988m	12.4909	ng
6) Cl2(7)		12.30	222	1200m	1.9527	ng
7) Cl2(9)		12.26	222	2277m	2.4822	ng
8) Cl2(6)		12.54	222	55685m	53.1624	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.84	222	59167m	53.1311	ng
11) Cl3(19)		13.30	256	4387m	10.5767	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		14.15t	221	33978	No Calib	
14) Cl2(11)		14.13	222	15512m	16.1876	ng
Corrected Values:				10925	11.5222	ng
15) Cl3(18)		14.15t	256	68987m	139.7977	ng
16) Cl3(17)		14.27	256	33184m	67.3939	ng
17) Cl2(12)		14.35	222	357m	0.8358	ng
18) Cl2(13)-S1 (0.135)		14.51tw	221	1042	No Calib	
19) Cl2(13)		14.49tw	222	43463m	47.1821	ng
Corrected Values:				43322	47.0312	ng
20) Cl3(27)		14.50tw	256	18318m	26.9740	ng
21) Cl3(24)		0.00	256	0	N.D. d	
22) Cl3(16)		14.83	256	3144m	8.8352	ng
23) Cl2(15)		14.89	222	53139m	50.5572	ng
24) Cl3(32)		14.95	256	34947m	51.5924	ng
25) Cl4(54)		15.30tw	292	1033m	1.6507	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		15.83t	255	871	No Calib	
30) Cl3(26)		15.83t	256	184480m	254.0174	ng
Corrected Values:				184362	253.8554	ng
31) Cl4(50)		0.00	292	0	N.D. d	
32) Cl3(25)		15.95	256	116776m	171.4735	ng
33) Cl3(31)-S1 (0.135)		16.32tw	255	8209	No Calib	
34) Cl3(31)		16.29	256	202997m	279.2152	ng
Corrected Values:				201889	277.7008	ng
35) Cl4(53)		16.33tw	292	22610m	47.3209	ng
36) Cl3(28)		16.41	256	207436m	292.5033	ng
37) Cl3(33)		16.52	256	19139m	29.6606	ng
38) Cl4(51)		16.59	292	10706m	22.3164	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9225.D MF0782.M Mon Mar 02 14:12:48 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9225.D

Vial: 45

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Acq On : 19 Feb 2015 10:19 pm

Operator: RR/BL

Sample : L0064-P(2)

Inst : Inst. F

Misc : S-14N-PCC15-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 16:12:35 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 16:12:29 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4 (45)		16.92	292	4249m	11.0004 ng
40) Cl3 (22)		17.00	256	21945m	34.4913 ng
41) Cl4 (46)		17.18	292	3781m	10.7971 ng
42) Cl4 (43)		0.00	292	0	N.D.
43) Cl4 (52)		17.63	292	191630m	425.9237 ng
44) Cl4 (48)		0.00	292	0	N.D.
45) Cl4 (49)		17.84	292	178404m	409.6637 ng
46) Cl5 (104)		0.00	326	0	N.D.
47) Cl4 (47) -S1	(0.174)	0.00	289	0	N.D.
48) Cl4 (47)		18.03	292	58814m	106.4983 ng
Corrected Values:				58814	106.4983 ng
49) Cl4 (75)		18.10	292	3666m	6.2002 ng
50) Cl4 (44)		18.47	292	42112m	99.7709 ng
51) Cl4 (42)		18.68	292	28434m	68.2636 ng
52) Cl4 (71)		18.90	292	39648m	66.2174 ng
53) Cl4 (41)		0.00	292	0	N.D. d
54) Cl4 (64)		19.29	292	41767m	66.0072 ng
55) Cl4 (40)		19.42	292	12460m	36.5639 ng
56) Cl3 (37) -S1	(0.135)	19.37	255	2207	No Calib
57) Cl3 (37)		19.35	256	23252m	35.7371 ng
Corrected Values:				22954	35.2897 ng
58) Cl5 (100)		19.73	326	2721m	6.8375 ng
59) Cl4 (67)		20.01	292	12962m	22.0171 ng
60) Cl4 (63)		20.41	292	3424m	6.5419 ng
61) Cl5 (95)		20.55	326	54177m	142.4959 ng
62) Cl4 (74)		20.62	292	34046m	53.4363 ng
63) Cl4 (70)		20.76	292	35119m	56.3763 ng
64) Cl5 (91) -S1	(0.220)	0.00	323	0	N.D.
65) Cl5 (91)		20.93tw	326	29954m	70.7234 ng
Corrected Values:				29954	70.7234 ng
66) Cl4 (66) -S1	(0.174)	20.92tw	289	7087	No Calib
67) Cl4 (66) -S2	(0.650)	0.00	288	0	N.D. d
68) Cl4 (66)		20.95	292	45911m	75.8724 ng
Corrected Values:				44678	73.8635 ng
69) Cl6 (155)		0.00	360	0	N.D. d
70) Cl4 (80)		21.26	292	1456m	3.2507 ng
71) Cl5 (92)		21.56Tw	326	16804m	43.6158 ng
72) Cl5 (84)		21.57t	326	12973m	39.1012 ng
73) Cl4 (56) -S1	(0.174)	21.57t	289	9671	No Calib
74) Cl4 (56)		21.61	292	13215m	22.5663 ng
Corrected Values:				11532	19.8094 ng
75) Cl4 (60) -S1	(0.174)	21.85t	289	8159	No Calib
76) Cl4 (60)		21.87	292	7586m	13.5273 ng
Corrected Values:				6166	11.1388 ng
77) Cl5 (101)		21.85t	326	62028m	137.7264 ng
79) Cl5 (99)		22.13	326	60695m	129.3477 ng
80) Cl5 (83)		22.51	326	13848m	41.7632 ng
81) Cl5 (125)		0.00	326	0	N.D. d
82) Cl5 (97)		22.81	326	17994m	46.7451 ng
83) Cl5 (87)		23.26	326	6637m	17.7723 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9225.D MF0782.M Mon Mar 02 14:12:48 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9225.D

Vial: 45

Acq On : 19 Feb 2015 10:19 pm

Operator: RR/BL

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Sample : L0064-P(2)

Inst : Inst. F

Misc : S-14N-PCC15-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 16:12:35 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 16:12:29 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	9043m	20.1995 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.54	360	2801m	7.5834 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.51	326	5351m	13.9504 ng
Corrected Values:				5351	13.9504 ng
89) Cl5(110)		23.79	326	114482m	197.3188 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.22t	323	1437	No Calib
92) Cl5(82)		24.22t	326	2161m	6.8615 ng
Corrected Values:				1845	5.9483 ng
93) Cl6(151)		24.22t	360	6662m	19.8469 ng
94) Cl6(135)		24.32	360	5767m	17.5734 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.42	292	6226m	11.7279 ng
Corrected Values:				6226	11.7279 ng
97) Cl6(144)		24.47	360	785m	3.1448 ng
98) Cl6(149)		24.69	360	53312m	140.4994 ng
99) Cl6(139)		24.81	360	959m	3.0440 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.85	326	2243m	4.7572 ng
Corrected Values:				2243	4.7572 ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		25.06	326	6544m	12.9225 ng
104) Cl6(134)		25.15	360	2840m	10.5893 ng
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.28	326	74217m	130.9019 ng
Corrected Values:				74217	130.9019 ng
109) Cl6(131)		25.35	360	1555m	5.9503 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.63	360	7567m	20.1661 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.89	360	60335m	146.1582 ng
116) Cl7(179)		26.11	394	1915m	5.6444 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		26.23	326	10895m	21.5813 ng
Corrected Values:				10895	21.5813 ng
119) Cl6(141)		26.28	360	2373m	8.1235 ng
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.49	360	1692m	5.9568 ng
124) Cl6(130)		26.63	360	1950m	6.8250 ng
125) Cl6(164)		26.69	360	3970m	9.4466 ng
126) Cl6(138)		26.82	360	19839m	49.8538 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9225.D MF0782.M Mon Mar 02 14:12:49 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9225.D

Vial: 45

Acq On : 19 Feb 2015 10:19 pm

Operator: RR/BL

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Sample : L0064-P(2)

Inst : Inst. F

Misc : S-14N-PCC15-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 16:12:35 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 16:12:29 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	16038m	38.2038 ng
Corrected Values:				16038	38.2038 ng
129) Cl7(178)		26.92	394	904m	4.2505 ng
130) Cl6(158)		26.96	360	6267m	13.4945 ng
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		27.18	394	5487m	17.5120 ng
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		27.36	394	1998m	7.2315 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.67	360	5091m	16.2674 ng
Corrected Values:				5091	16.2674 ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		27.81	394	1645m	6.6535 ng
141) Cl6(167)		27.90	360	3818m	8.9393 ng
142) Cl8(202)		27.98	428	545	2.1898 ng
143) Cl7(177)		28.08	394	1402m	5.6439 ng
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.21	394	895m	3.7550 ng
Corrected Values:				895	3.7550 ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.52	360	4744m	11.1740 ng
Corrected Values:				4744	11.1740 ng
151) Cl7(172)		28.55	394	611m	3.2517 ng
152) Cl6(157)		28.60	360	1124m	3.3094 ng
153) Cl7(180)		28.75	394	6196m	20.2058 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.80	394	520m	1.9618 ng
Corrected Values:				520	1.9618 ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170) -S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		29.46	394	2879m	11.0622 ng
Corrected Values:				2879	11.0622 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.52	428	641m	4.0442 ng
162) Cl7(190)		29.57	394	1054m	3.1657 ng
163) Cl6(169) -S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.69	428	999m	4.5192 ng
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9225.D MF0782.M Mon Mar 02 14:12:49 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9225.D

Vial: 45

Acq On : 19 Feb 2015 10:19 pm

Operator: RR/BL

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Sample : L0064-P(2)

Inst : Inst. F

Misc : S-14N-PCC15-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 24 16:12:35 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Feb 24 16:12:29 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		30.89	428	874m	4.2752 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9225.D MF0782.M Mon Mar 02 14:12:49 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9226.D

Vial: 46

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Acq On : 19 Feb 2015 11:07 pm

Operator: RR/BL

Sample : L0067-P(2)

Inst : Inst. F

Misc : S-14N-PV5-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 11:27:10 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 11:27:05 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	71229m	95.0000	ng
78) Cl6(161)	25.74	360	43734m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.30t	255	1504m	0.0000	ng
27) Cl3(34)	15.29tw	256	293746m	327.6316	ng
Spiked Amount	379.8670			Recovery	= 86.19%
Corrected Values:			293543	327.4065	ng
114) Cl6(152)	22.43	360	167936m	344.3125	ng
Spiked Amount	381.3865			Recovery	= 90.28%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	34188m	13.9864	ng
3) Cl1(1)		9.93	188	39785m	22.0744	ng
4) Cl1(3)		11.13	188	38623m	22.3801	ng
5) Cl2(4)		11.42	222E	658906m	771.5195	ng
6) Cl2(7)		12.31	222	45940m	36.3089	ng
7) Cl2(9)		12.26	222	115827m	75.5157	ng
8) Cl2(6)		12.55	222E	2609239m	2120.6881	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.84	222E	2188044m	1650.7713	ng
11) Cl3(19)		13.30	256	188372m	323.5521	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		14.16t	221E	999553	No Calib	
14) Cl2(11)		14.15tw	222	434224m	328.1785	ng
Corrected Values:				299284	226.1337	ng
15) Cl3(18)		14.16t	256E	2013393m	3456.1999	ng
16) Cl3(17)		14.27	256E	940838m	1551.2026	ng
17) Cl2(12)		14.36	222	2977m	2.7594	ng
18) Cl2(13)-S1 (0.135)		14.51t	221e	24276	No Calib	
19) Cl2(13)		14.50tw	222E	991975m	855.9795	ng
Corrected Values:				988698	852.8476	ng
20) Cl3(27)		14.51t	256e	536301m	606.7216	ng
21) Cl3(24)		14.63	256	7060m	8.3248	ng
22) Cl3(16)		14.83	256	45109m	88.8289	ng
23) Cl2(15)		14.89	222e	736912m	514.0068	ng
24) Cl3(32)		14.96	256E	936231m	1021.4816	ng
25) Cl4(54)		15.30t	292	11237m	12.5049	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		15.84t	255	11919	No Calib	
30) Cl3(26)		15.84t	256E	3596286m	3600.1647	ng
Corrected Values:				3594677	3598.5821	ng
31) Cl4(50)		15.89	292	8946m	14.6104	ng
32) Cl3(25)		15.96	256E	2372585m	2148.3606	ng
33) Cl3(31)-S1 (0.135)		16.34t	255e	156367	No Calib	
34) Cl3(31)		16.31	256E	3981023m	3831.9015	ng
Corrected Values:				3959913	3812.6801	ng
35) Cl4(53)		16.34t	292e	437611m	721.4938	ng
36) Cl3(28)		16.42	256E	3603209m	3851.2971	ng
37) Cl3(33)		16.53	256	183040m	206.6203	ng
38) Cl4(51)		16.60	292	203075m	308.4194	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9226.D MF0782.M Mon Mar 02 14:12:52 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9226.D

Vial: 46

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Acq On : 19 Feb 2015 11:07 pm

Operator: RR/BL

Sample : L0067-P(2)

Inst : Inst. F

Misc : S-14N-PV5-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 11:27:10 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 11:27:05 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.92	292	88887m	162.2634 ng
40) Cl3(22)		17.01	256	265831m	300.5039 ng
41) Cl4(46)		17.19	292	86807m	173.3328 ng
42) Cl4(43)		17.51	292	35268m	68.1045 ng
43) Cl4(52)		17.64	292E	2946981m	3577.5118 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.86	292E	2712837m	4594.4404 ng
46) Cl5(104)		18.04t	326	1432m	1.6285 ng
47) Cl4(47)-S1	(0.174)	18.02	289	1103	No Calib
48) Cl4(47)		18.04t	292E	890350m	1242.4909 ng
Corrected Values:				890158	1242.2083 ng
49) Cl4(75)		18.11	292	59866m	68.7182 ng
50) Cl4(44)		18.48	292E	682655m	1097.4782 ng
51) Cl4(42)		18.68	292E	446503m	767.3557 ng
52) Cl4(71)		18.91	292E	653120m	794.3928 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.29	292e	632033m	754.0341 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	19.37t	255	23850	No Calib
57) Cl3(37)		19.37t	256	174182m	195.3154 ng
Corrected Values:				170962	191.6968 ng
58) Cl5(100)		19.73	326	35844m	61.4568 ng
59) Cl4(67)		20.02	292	162210m	194.3441 ng
60) Cl4(63)		20.43	292	31685m	40.8062 ng
61) Cl5(95)		20.56	326E	665644m	1207.8276 ng
62) Cl4(74)		20.63	292e	335622m	379.9094 ng
63) Cl4(70)		20.77	292	251294m	291.9057 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.94t	326e	383639m	661.4944 ng
Corrected Values:				383639	661.4944 ng
66) Cl4(66)-S1	(0.174)	20.94t	289e	86901	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.96	292e	357665m	425.8091 ng
Corrected Values:				342544	408.2238 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		21.27	292	11507m	15.0830 ng
71) Cl5(92)		21.58T	326e	205114m	399.2119 ng
72) Cl5(84)		21.58T	326	133523m	362.5808 ng
73) Cl4(56)-S1	(0.174)	21.58t	289	110272	No Calib
74) Cl4(56)		21.62	292	101458m	123.7352 ng
Corrected Values:				82271	100.5568 ng
75) Cl4(60)-S1	(0.174)	21.86tw	289E	79759	No Calib
76) Cl4(60)		21.87t	292	56663m	71.2741 ng
Corrected Values:				42785	54.0195 ng
77) Cl5(101)		21.87t	326E	578718m	908.0023 ng
79) Cl5(99)		22.14	326E	627260m	1058.2758 ng
80) Cl5(83)		22.52	326	158551m	420.4535 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.81	326	181744m	423.0472 ng
83) Cl5(87)		23.28	326	41688m	104.9889 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9226.D MF0782.M Mon Mar 02 14:12:53 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9226.D

Vial: 46

Acq On : 19 Feb 2015 11:07 pm

Operator: RR/BL

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Sample : L0067-P(2)

Inst : Inst. F

Misc : S-14N-PV5-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 11:27:10 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 11:27:05 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.36	360	100514m	210.6460 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.56	360	31763m	74.6832 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.52	326	33809m	88.2249 ng
Corrected Values:				33809	88.2249 ng
89) Cl5(110)		23.80	326E	1157885m	1508.8454 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.24t	323	14691	No Calib
92) Cl5(82)		24.24t	326	13347m	38.3609 ng
Corrected Values:				10115	29.2775 ng
93) Cl6(151)		24.24t	360	71581m	193.7379 ng
94) Cl6(135)		24.34	360	60782m	171.4426 ng
95) Cl4(77)-S2	(0.650)	24.46	288	3576	No Calib
96) Cl4(77)		24.42	292	40727m	70.8627 ng
Corrected Values:				38403	66.9389 ng
97) Cl6(144)		24.48	360	6826m	19.5523 ng
98) Cl6(149)		24.70	360E	556625m	1082.6810 ng
99) Cl6(139)		24.82	360	10450m	28.4536 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		24.87	326	22327m	38.1115 ng
Corrected Values:				22327	38.1115 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.07	326	59818m	107.2740 ng
104) Cl6(134)		25.17	360	28593m	94.1056 ng
105) Cl7(188)		25.27	394	1235m	3.8126 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.30	326E	596826m	863.2969 ng
Corrected Values:				596826	863.2969 ng
109) Cl6(131)		25.35	360	6428m	20.1887 ng
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		25.64	360	72958m	172.3969 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.67	326	11565m	21.2884 ng
Corrected Values:				11565	21.2884 ng
115) Cl6(153)		25.90	360E	541982m	1018.1537 ng
116) Cl7(179)		26.13	394	21716m	55.3497 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.24	326	54224m	101.9325 ng
Corrected Values:				54224	101.9325 ng
119) Cl6(141)		26.29	360	17655m	52.1748 ng
120) Cl7(176)		26.38	394	3521m	9.7291 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.51	360	14758m	42.6449 ng
124) Cl6(130)		26.63	360	13539m	40.6592 ng
125) Cl6(164)		26.69	360	38576m	84.0634 ng
126) Cl6(138)		26.83	360	111356m	262.6678 ng
127) Cl6(163)-S1	(0.265)	26.92t	357	2038	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9226.D MF0782.M Mon Mar 02 14:12:53 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9226.D

Vial: 46

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Acq On : 19 Feb 2015 11:07 pm

Operator: RR/BL

Sample : L0067-P(2)

Inst : Inst. F

Misc : S-14N-PV5-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 11:27:10 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 11:27:05 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.88	360	160771m	329.4031 ng
Corrected Values:				160231	328.4307 ng
129) Cl7(178)		26.92t	394	8425m	29.4099 ng
130) Cl6(158)		26.98	360	58882m	116.9824 ng
131) Cl7(175)		27.11	394	1764m	6.5774 ng
132) Cl7(187)		27.20	394	57405m	167.7938 ng
133) Cl6(166)-S1	(0.265)	27.37t	357	1675	No Calib
134) Cl6(166)		27.37t	360	5381m	12.3707 ng
Corrected Values:				4937	11.4060 ng
135) Cl7(183)		27.37t	394	20081m	63.0135 ng
136) Cl5(126)		27.52	326	3283m	7.1462 ng
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.68	360	37677m	111.6462 ng
Corrected Values:				37677	111.6462 ng
139) Cl7(185)		27.71	394	2226m	8.6534 ng
140) Cl7(174)		27.82	394	15395m	54.0355 ng
141) Cl6(167)		27.91	360	36523m	78.5959 ng
142) Cl8(202)		27.99	428	3541m	11.3348 ng
143) Cl7(177)		28.09	394	10526m	39.3515 ng
144) Cl8(201)		28.22t	428	1507m	5.4977 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.22t	394	7873m	27.4192 ng
Corrected Values:				7873	27.4192 ng
147) Cl7(173)		28.30	394	623m	2.9918 ng
148) Cl8(197)		28.43	428	407m	1.8308 ng
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.53	360	39451m	86.6457 ng
Corrected Values:				39451	86.6457 ng
151) Cl7(172)		28.56	394	4778m	18.0264 ng
152) Cl6(157)		28.62	360	8110m	19.2193 ng
153) Cl7(180)		28.76	394	57978m	174.5118 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.81	394	3076m	8.8109 ng
Corrected Values:				3076	8.8109 ng
156) Cl8(200)		28.84	428	1196m	4.2049 ng
157) Cl7(191)		28.93	394	2447m	6.8048 ng
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		29.47	394	27485m	100.4405 ng
Corrected Values:				27485	100.4405 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.53	428	7994m	35.5590 ng
162) Cl7(190)		29.58	394	10348m	27.6466 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.71	428	10287m	40.6754 ng
166) Cl9(208)		30.21	464	1991m	7.1607 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		30.40	464	696m	3.0750 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9226.D MF0782.M Mon Mar 02 14:12:53 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9226.D

Vial: 46

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Acq On : 19 Feb 2015 11:07 pm

Operator: RR/BL

Sample : L0067-P(2)

Inst : Inst. F

Misc : S-14N-PV5-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 11:27:10 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 11:27:05 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.42	428	2598m	11.5809 ng
Corrected Values:				2598	11.5809 ng
171) Cl8(194)		30.91	428	8116m	35.5555 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.56	464	4473m	21.3839 ng
174) Cl10(209)		32.06	498	1328m	5.2358 ng

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9226.D MF0782.M Mon Mar 02 14:12:53 2015

040221CFS

Page 5

G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9227.D

Vial: 47

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Acq On : 19 Feb 2015 11:54 pm

Operator: RR/BL

Sample : L0075-P(2)

Inst : Inst. F

Misc : S-14N-RBB22-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 10:36:23 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 10:36:16 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	50685m	95.0000	ng
78) Cl6(161)	25.73	360	40322m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	753m	0.0000	ng
27) Cl3(34)	15.28tw	256	248069m	388.4168	ng
Spiked Amount	379.8670			Recovery	= 102.21%
Corrected Values:			247967	388.2581	ng
114) Cl6(152)	22.42	360	164479m	364.1921	ng
Spiked Amount	381.3865			Recovery	= 95.49%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	8680m	5.0095	ng
3) Cl1(1)		9.93	188	1986m	1.5669	ng
4) Cl1(3)		11.13	188	4320m	3.7970	ng
5) Cl2(4)		11.42	222	39907m	64.1455	ng
6) Cl2(7)		12.31	222	3162m	4.1301	ng
7) Cl2(9)		12.26	222	5858m	5.8333	ng
8) Cl2(6)		12.54	222	186803m	185.9082	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.84	222	152862m	143.1450	ng
11) Cl3(19)		13.30	256	18074m	43.8127	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		14.15t	221	87830	No Calib	
14) Cl2(11)		14.14tw	222	35902m	38.4067	ng
Corrected Values:				24045	25.8560	ng
15) Cl3(18)		14.15t	256	178730m	378.9907	ng
16) Cl3(17)		14.27	256	76344m	161.4066	ng
17) Cl2(12)		0.00	222	0	N.D. d	
18) Cl2(13)-S1 (0.135)		14.50t	221	3028	No Calib	
19) Cl2(13)		14.49tw	222	69757m	78.4490	ng
Corrected Values:				69348	77.9905	ng
20) Cl3(27)		14.50t	256	67947m	102.5116	ng
21) Cl3(24)		0.00	256	0	N.D. d	
22) Cl3(16)		14.83	256	2712m	7.9851	ng
23) Cl2(15)		14.88	222	50437m	49.9334	ng
24) Cl3(32)		14.95	256	89117m	136.2873	ng
25) Cl4(54)		15.29t	292	1833m	2.9508	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D. d	
30) Cl3(26)		15.83	256	331638m	474.1983	ng
Corrected Values:				331638	474.1983	ng
31) Cl4(50)		15.88	292	814m	2.4978	ng
32) Cl3(25)		15.95	256	207547m	312.5698	ng
33) Cl3(31)-S1 (0.135)		16.32t	255	16976	No Calib	
34) Cl3(31)		16.29	256	342180m	487.6776	ng
Corrected Values:				339888	484.4392	ng
35) Cl4(53)		16.32t	292	48941m	106.3360	ng
36) Cl3(28)		16.40	256	297614m	436.7662	ng
37) Cl3(33)		16.51	256	12681m	20.6410	ng
38) Cl4(51)		16.59	292	21295m	45.4797	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9227.D MF0782.M Mon Mar 02 14:12:56 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9227.D

Vial: 47

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Acq On : 19 Feb 2015 11:54 pm

Operator: RR/BL

Sample : L0075-P(2)

Inst : Inst. F

Misc : S-14N-RBB22-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 10:36:23 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 10:36:16 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	4470m	11.9823 ng
40) Cl3(22)		17.00	256	13493m	22.3239 ng
41) Cl4(46)		17.19	292	5419m	15.7589 ng
42) Cl4(43)		17.50	292	4133m	11.7909 ng
43) Cl4(52)		17.63	292e	282467m	637.9812 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.84	292e	249088m	594.9169 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.02	292	74377m	140.0608 ng
Corrected Values:				74377	140.0608 ng
49) Cl4(75)		18.10	292	5935m	10.0480 ng
50) Cl4(44)		18.47	292	38898m	95.9323 ng
51) Cl4(42)		18.66	292	27935m	69.7562 ng
52) Cl4(71)		18.90	292	49399m	85.7236 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.29	292	35036m	57.6780 ng
55) Cl4(40)		19.41	292	12021m	36.7000 ng
56) Cl3(37)-S1	(0.135)	19.36t	255	1579	No Calib
57) Cl3(37)		19.36t	256	14480m	23.4513 ng
Corrected Values:				14267	23.1188 ng
58) Cl5(100)		19.72	326	2896m	7.5078 ng
59) Cl4(67)		20.01	292	8356m	15.0375 ng
60) Cl4(63)		20.42	292	2058m	4.3414 ng
61) Cl5(95)		20.55	326	48443m	132.7086 ng
62) Cl4(74)		20.61	292	19732m	32.5543 ng
63) Cl4(70)		20.76	292	18564m	31.3362 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.92t	326	26112m	64.2270 ng
Corrected Values:				26112	64.2270 ng
66) Cl4(66)-S1	(0.174)	20.92t	289	5970	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.95	292	24117m	41.8920 ng
Corrected Values:				23078	40.1241 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		21.26	292	1360	3.1820 ng
71) Cl5(92)		21.56T	326	13423m	36.3866 ng
72) Cl5(84)		21.56T	326	10452m	32.7576 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	7825	No Calib
74) Cl4(56)		21.60	292	7209m	13.2042 ng
Corrected Values:				5847	10.8820 ng
75) Cl4(60)-S1	(0.174)	21.85t	289	4850	No Calib
76) Cl4(60)		21.86tw	292	4696m	8.9854 ng
Corrected Values:				3852	7.5081 ng
77) Cl5(101)		21.85t	326	35559m	82.6861 ng
79) Cl5(99)		22.12	326	36178m	83.4789 ng
80) Cl5(83)		22.51	326	11012m	35.6049 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.81	326	10106m	28.4217 ng
83) Cl5(87)		23.26	326	5054m	14.5329 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9227.D MF0782.M Mon Mar 02 14:12:57 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9227.D

Acq On : 19 Feb 2015 11:54 pm

Sample : L0075-P(2)

Misc : S-14N-RBB22-05-10 5-315 15-0039

MS Integration Params: rteint.p

Vial: 47

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 25 10:36:23 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 10:36:16 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	7766m	18.5152 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.54	360	2402m	7.0220 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.51	326	3682m	10.0781 ng
Corrected Values:				3682	10.0781 ng
89) Cl5(110)		23.78	326	77347m	144.2243 ng
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	24.23t	323	1301	No Calib
92) Cl5(82)		24.23t	326	1419m	4.9954 ng
Corrected Values:				1133	4.1121 ng
93) Cl6(151)		24.23t	360	5045m	16.2529 ng
94) Cl6(135)		24.32	360	4287m	14.0774 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.42	292	2652m	5.6738 ng
Corrected Values:				2652	5.6738 ng
97) Cl6(144)		24.46	360	695m	3.0261 ng
98) Cl6(149)		24.68	360	43127m	122.1894 ng
99) Cl6(139)		24.82	360	976m	3.2726 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		24.85	326	1550m	3.7580 ng
Corrected Values:				1550	3.7580 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.06	326	3738m	8.1846 ng
104) Cl6(134)		25.15	360	2140m	8.7262 ng
105) Cl7(188)		25.25	394	226m	1.4787 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.28	326	40769m	78.0737 ng
Corrected Values:				40769	78.0737 ng
109) Cl6(131)		25.37	360	954m	4.3452 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.63	360	5111m	14.8417 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.89	360	41860m	109.6115 ng
116) Cl7(179)		26.11	394	1787m	5.6272 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.23	326	5785m	12.3910 ng
Corrected Values:				5785	12.3910 ng
119) Cl6(141)		26.28	360	1676m	6.3949 ng
120) Cl7(176)		26.37	394	394m	1.5975 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.48	360	1100m	4.4698 ng
124) Cl6(130)		26.63	360	1429m	5.5550 ng
125) Cl6(164)		26.68	360	2679m	6.9731 ng
126) Cl6(138)		26.82	360	11273m	30.6509 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9227.D MF0782.M Mon Mar 02 14:12:57 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9227.D

Vial: 47

Acq On : 19 Feb 2015 11:54 pm

Operator: RR/BL

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Sample : L0075-P(2)

Inst : Inst. F

Misc : S-14N-RBB22-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 10:36:23 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 10:36:16 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	
128) Cl6(163)		26.86	360	11832m	30.2631 ng	
Corrected Values:				11832	30.2631 ng	
129) Cl7(178)		26.92	394	660m	3.5697 ng	
130) Cl6(158)		26.97	360	4682m	10.8705 ng	
131) Cl7(175)		0.00	394	0	N.D.	
132) Cl7(187)		27.18	394	4251m	14.5846 ng	
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d	
134) Cl6(166)		0.00	360	0	N.D. d	
Corrected Values:				0	ng	
135) Cl7(183)		27.35	394	1638m	6.4383 ng	
136) Cl5(126)		0.00	326	0	N.D. d	
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d	
138) Cl6(128)		27.67	360	3842m	13.2538 ng	
Corrected Values:				3842	13.2538 ng	
139) Cl7(185)		0.00	394	0	N.D. d	
140) Cl7(174)		27.81	394	1260m	5.5880 ng	
141) Cl6(167)		27.90	360	2716m	6.8936 ng	
142) Cl8(202)		27.98	428	471	2.0589 ng	#
143) Cl7(177)		28.08	394	1072m	4.6658 ng	
144) Cl8(201)		28.20tw	428	164m	1.5684 ng	
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.	
146) Cl7(171)		28.21tw	394	864m	3.8509 ng	
Corrected Values:				864	3.8509 ng	
147) Cl7(173)		0.00	394	0	N.D. d	
148) Cl8(197)		0.00	428	0	N.D.	
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d	
150) Cl6(156)		28.52	360	3442m	8.7338 ng	
Corrected Values:				3442	8.7338 ng	
151) Cl7(172)		28.55	394	557m	3.1931 ng	
152) Cl6(157)		28.61	360	768	2.6010 ng	#
153) Cl7(180)		28.75	394	4844m	16.9308 ng	
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.	
155) Cl7(193)		0.00	394	0	N.D.	
Corrected Values:				0	ng	
156) Cl8(200)		0.00	428	0	N.D. d	
157) Cl7(191)		0.00	394	0	N.D. d	
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.	
159) Cl7(170)		29.46	394	2331m	9.5797 ng	
Corrected Values:				2331	9.5797 ng	
160) Cl8(198)		0.00	428	0	N.D.	
161) Cl8(199)		0.00	428	0	N.D.	
162) Cl7(190)		29.58	394	947m	3.0503 ng	
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d	
164) Cl6(169)		0.00	360	0	N.D. d	
Corrected Values:				0	ng	
165) Cl8(203)		29.70	428	883m	4.2944 ng	
166) Cl9(208)		30.20	464	206m	0.9403 ng	
167) Cl7(189)		0.00	394	0	N.D. d	
168) Cl9(207)		0.00	464	0	N.D. d	
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9227.D MF0782.M Mon Mar 02 14:12:57 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9227.D

Vial: 47

Acq On : 19 Feb 2015 11:54 pm

Operator: RR/BL

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Sample : L0075-P(2)

Inst : Inst. F

Misc : S-14N-RBB22-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 10:36:23 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 10:36:16 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		30.89	428	611m	3.2919 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.55	464	489	2.5349 ng
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9227.D MF0782.M Mon Mar 02 14:12:57 2015

040221CFS

Page 5

G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9228.D

Vial: 48

257 of 381

Acq On : 20 Feb 2015 12:42 am

Operator: RR/BL

Sample : L0104-P(2)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 11:28:11 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 11:27:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	81119m	95.0000	ng
78) Cl6(161)	25.74	360	40574m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.30t	255	2208m	0.0000	ng
27) Cl3(34)	15.29tw	256	267514m	262.3191	ng
Spiked Amount	379.8670			Recovery	= 68.98%
Corrected Values:			267216	262.0284	ng
114) Cl6(152)	22.43	360	165720m	364.6268	ng
Spiked Amount	381.3865			Recovery	= 95.61%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	41374m	14.8618	ng
3) Cl1(1)		9.93	188	17401m	8.4865	ng
4) Cl1(3)		11.13	188	9897m	5.2910	ng
5) Cl2(4)		11.42	222e	371743m	376.6685	ng
6) Cl2(7)		12.30	222	15706m	11.3507	ng
7) Cl2(9)		12.26	222	52061m	30.1589	ng
8) Cl2(6)		12.55	222E	1258588m	815.6976	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.84	222e	1102082m	671.4132	ng
11) Cl3(19)		13.30	256	140572m	211.7407	ng
12) Cl3(30)		13.70	256	1109m	1.6010	ng
13) Cl2(11)-S1 (0.135)		14.15tw	221E	595478	No Calib	
14) Cl2(11)		14.14tw	222	236093m	156.6770	ng
Corrected Values:				155703	103.4239	ng
15) Cl3(18)		14.16tw	256E	1202987m	1678.0931	ng
16) Cl3(17)		14.27	256E	520818m	711.4530	ng
17) Cl2(12)		14.35	222	1389m	1.4044	ng
18) Cl2(13)-S1 (0.135)		14.50t	221e	20100	No Calib	
19) Cl2(13)		14.50t	222	455674m	325.9613	ng
Corrected Values:				452960	323.9548	ng
20) Cl3(27)		14.51tw	256e	477679m	466.7899	ng
21) Cl3(24)		0.00	256	0	N.D. d	
22) Cl3(16)		14.83	256	44146m	76.3790	ng
23) Cl2(15)		14.89	222	292703m	179.5980	ng
24) Cl3(32)		14.96	256E	843335m	807.0195	ng
25) Cl4(54)		15.30t	292	17196m	16.7751	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		15.84t	255	9711	No Calib	
30) Cl3(26)		15.84t	256E	3263140m	2878.6437	ng
Corrected Values:				3261829	2877.5035	ng
31) Cl4(50)		15.89	292	5377m	8.0506	ng
32) Cl3(25)		15.96	256E	1610752m	1370.6776	ng
33) Cl3(31)-S1 (0.135)		16.33tw	255E	207296	No Calib	
34) Cl3(31)		16.30	256E	1955174m	1706.9831	ng
Corrected Values:				1927189	1683.1765	ng
35) Cl4(53)		16.34tw	292E	604032m	892.2957	ng
36) Cl3(28)		16.41	256E	1664941m	1537.1297	ng
37) Cl3(33)		16.53	256	90059m	89.4954	ng
38) Cl4(51)		16.60	292e	296783m	397.2958	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9228.D MF0782.M Mon Mar 02 14:13:01 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9228.D

Vial: 48

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Acq On : 20 Feb 2015 12:42 am

Operator: RR/BL

Sample : L0104-P(2)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 11:28:11 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 11:27:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.92	292	36575m	58.8114 ng
40) Cl3(22)		17.01	256	147228m	147.4201 ng
41) Cl4(46)		17.18	292	131874m	231.4703 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.63	292E	3278702m	3513.6297 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.85	292E	2786509m	4145.3529 ng
46) Cl5(104)		18.03t	326	2578m	2.7153 ng
47) Cl4(47)-S1	(0.174)	18.03t	289	892	No Calib
48) Cl4(47)		18.04tw	292E	827906m	1004.5114 ng
Corrected Values:				827751	1004.3152 ng
49) Cl4(75)		18.11	292	66600m	67.1361 ng
50) Cl4(44)		18.48	292E	678003m	967.1933 ng
51) Cl4(42)		18.68	292e	328758m	500.7758 ng
52) Cl4(71)		18.91	292E	857037m	913.4392 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.22	292	133021m	136.3067 ng
55) Cl4(40)		19.29	292E	367835m	682.1080 ng
56) Cl3(37)-S1	(0.135)	19.37tw	255	17480	No Calib
57) Cl3(37)		19.38tw	256	75274m	74.3470 ng
Corrected Values:				72914	72.0376 ng
58) Cl5(100)		19.73	326	61301m	91.9545 ng
59) Cl4(67)		20.02	292	122465m	129.8620 ng
60) Cl4(63)		20.42	292	24536m	27.9883 ng
61) Cl5(95)		20.56	326E	778344m	1237.9101 ng
62) Cl4(74)		20.63	292	135092m	136.1522 ng
63) Cl4(70)		20.77	292	179614m	184.5818 ng
64) Cl5(91)-S1	(0.220)	20.94t	323	291	No Calib
65) Cl5(91)		20.94t	326E	478283m	723.8560 ng
Corrected Values:				478219	723.7595 ng
66) Cl4(66)-S1	(0.174)	20.93tw	289e	107354	No Calib
67) Cl4(66)-S2	(0.650)	20.94t	288	6867	No Calib
68) Cl4(66)		20.96	292	265909m	280.4214 ng
Corrected Values:				242765	256.4128 ng
69) Cl6(155)		21.02	360	734m	1.9036 ng
70) Cl4(80)		21.27	292	3270m	4.3736 ng
71) Cl5(92)		21.56	326e	258505m	443.5029 ng
72) Cl5(84)		21.58t	326e	197354m	539.5289 ng
73) Cl4(56)-S1	(0.174)	21.58t	289e	144063	No Calib
74) Cl4(56)		21.61	292	59562m	64.3055 ng
Corrected Values:				34495	37.6464 ng
75) Cl4(60)-S1	(0.174)	21.86t	289E	89400	No Calib
76) Cl4(60)		21.86t	292	27651m	30.9972 ng
Corrected Values:				12095	13.9927 ng
77) Cl5(101)		21.86t	326E	649045m	894.8312 ng
79) Cl5(99)		22.14	326E	747645m	1295.4959 ng
80) Cl5(83)		22.51	326e	246677m	663.5495 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.81	326e	202857m	500.7685 ng
83) Cl5(87)		23.27	326	29103m	79.7542 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9228.D MF0782.M Mon Mar 02 14:13:02 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9228.D

Vial: 48

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Acq On : 20 Feb 2015 12:42 am

Operator: RR/BL

Sample : L0104-P(2)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 11:28:11 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 11:27:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.36	360	129799m	286.7360 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.56	360	50837m	127.2120 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.52	326	28148m	79.3365 ng
Corrected Values:				28148	79.3365 ng
89) Cl5(110)		23.80	326E	1127095m	1567.0473 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.23tw	323	17631	No Calib
92) Cl5(82)		24.24t	326	11466m	35.5880 ng
Corrected Values:				7587	23.8158 ng
93) Cl6(151)		24.24t	360	82369m	238.0527 ng
94) Cl6(135)		24.34	360	73539m	221.1443 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.43	292	13125m	25.3790 ng
Corrected Values:				13125	25.3790 ng
97) Cl6(144)		24.47	360	4567m	14.3819 ng
98) Cl6(149)		24.70	360E	649738m	1290.9717 ng
99) Cl6(139)		24.82	360	8513m	25.0619 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.86	326	14629m	27.2440 ng
Corrected Values:				14629	27.2440 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.07	326	58448m	112.7592 ng
104) Cl6(134)		25.17	360	33057m	116.4796 ng
105) Cl7(188)		25.27t	394	1700m	5.2203 ng
106) Cl5(118)-S1	(0.220)	25.37t	323	5826	No Calib
107) Cl5(118)-S2	(1.080)	25.27t	322	1767	No Calib
108) Cl5(118)		25.29	326E	557086m	867.7093 ng
Corrected Values:				553896	863.5497 ng
109) Cl6(131)		25.37t	360	11554m	37.7555 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.64	360	85440m	213.8773 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.66	326	8266m	16.6552 ng
Corrected Values:				8266	16.6552 ng
115) Cl6(153)		25.90	360E	588906m	1154.4240 ng
116) Cl7(179)		26.12	394	21934m	60.1339 ng
117) Cl5(105)-S1	(0.220)	26.29t	323	1789	No Calib
118) Cl5(105)		26.24	326	37090m	75.8760 ng
Corrected Values:				36696	75.0924 ng
119) Cl6(141)		26.29t	360	13518m	43.3300 ng
120) Cl7(176)		26.38	394	2361m	7.1674 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.51	360	11887m	37.1981 ng
124) Cl6(130)		26.63	360	10095m	32.9226 ng
125) Cl6(164)		26.69	360	33859m	79.6363 ng
126) Cl6(138)		26.83	360	94278m	240.6285 ng
127) Cl6(163)-S1	(0.265)	26.92t	357	1915	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9228.D MF0782.M Mon Mar 02 14:13:02 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9228.D

Vial: 48

Acq On : 20 Feb 2015 12:42 am

Operator: RR/BL

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Sample : L0104-P(2)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 11:28:11 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 11:27:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.88	360	191866m	409.9029 ng
Corrected Values:				191359	408.9737 ng
129) Cl7(178)		26.92t	394	8621m	32.3041 ng
130) Cl6(158)		26.98	360	38841m	84.1846 ng
131) Cl7(175)		27.10	394	1232m	5.1623 ng
132) Cl7(187)		27.20	394	61840m	193.2438 ng
133) Cl6(166)-S1	(0.265)	27.37t	357	1593	No Calib
134) Cl6(166)		27.37t	360	3520m	8.9209 ng
Corrected Values:				3098	7.9310 ng
135) Cl7(183)		27.37t	394	15386m	52.3417 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.68	360	27702m	89.0900 ng
Corrected Values:				27702	89.0900 ng
139) Cl7(185)		27.71	394	1484m	6.4722 ng
140) Cl7(174)		27.82	394	10793m	41.1822 ng
141) Cl6(167)		27.91	360	31967m	74.2963 ng
142) Cl8(202)		27.99	428	3052m	10.5668 ng
143) Cl7(177)		28.09	394	7307m	29.6118 ng
144) Cl8(201)		28.21tw	428	1011m	4.2646 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.22tw	394	5885m	22.2402 ng
Corrected Values:				5885	22.2402 ng
147) Cl7(173)		28.30	394	440m	2.4132 ng
148) Cl8(197)		28.42	428	390m	1.8720 ng
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.53	360	29001m	69.1982 ng
Corrected Values:				29001	69.1982 ng
151) Cl7(172)		28.56	394	3653m	15.0508 ng
152) Cl6(157)		28.62	360	5959m	15.3830 ng
153) Cl7(180)		28.76	394	42952m	140.9943 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		28.80	394	4538m	13.6706 ng
Corrected Values:				4538	13.6706 ng
156) Cl8(200)		28.84	428	703m	2.8378 ng
157) Cl7(191)		28.93	394	1699m	5.2782 ng
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		29.47	394	20149m	79.8968 ng
Corrected Values:				20149	79.8968 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.52	428	5921m	28.6837 ng
162) Cl7(190)		29.58	394	8114m	23.4462 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.70	428	8866m	37.8593 ng
166) Cl9(208)		30.21	464	1794m	6.9595 ng
167) Cl7(189)		30.34	394	2361m	7.3020 ng
168) Cl9(207)		30.41t	464	760m	3.4693 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9228.D MF0782.M Mon Mar 02 14:13:03 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9228.D
 Acq On : 20 Feb 2015 12:42 am
 Sample : L0104-P(2)
 Misc : S-14N-OI18-00-05 5-315 15-0039
 MS Integration Params: rteint.p

Vial: 48
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 25 11:28:11 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Feb 25 11:27:08 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.41t	428	2168m	10.4462 ng
Corrected Values:				2168	10.4462 ng
171) Cl8(194)		30.91	428	7094m	33.5418 ng
172) Cl8(205)		31.05	428	1127m	4.1695 ng
173) Cl9(206)		31.56	464	4005m	20.6416 ng
174) Cl10(209)		32.06	498	1308m	5.6004 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9228.D MF0782.M Mon Mar 02 14:13:03 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0782\F9232.D

Vial: 52

Acq On : 20 Feb 2015 3:54 am

Operator: RR/BL

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Sample : L0118-P(2)

Inst : Inst. F

Misc : S-14N-RM26-00-05-REP 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 14:11:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 14:11:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.12	326	71708m	95.0000	ng
78) Cl6(161)	25.77	360	46619m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.30t	255	2392m	0.0000	ng
27) Cl3(34)	15.30t	256	274601m	304.3621	ng
Spiked Amount	379.8670			Recovery	= 80.03%
Corrected Values:			274278	304.0061	ng
114) Cl6(152)	22.45	360	154482m	300.0087	ng
Spiked Amount	381.3865			Recovery	= 78.66%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	61873m	25.1479	ng
3) Cl1(1)		9.94	188	37347m	20.5836	ng
4) Cl1(3)		11.14	188	23295m	13.5365	ng
5) Cl2(4)		11.43	222e	384359m	441.6001	ng
6) Cl2(7)		12.31	222	56646m	44.3679	ng
7) Cl2(9)		12.26	222	114336m	74.0600	ng
8) Cl2(6)		12.55	222E	2255409m	1772.9552	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.85	222E	1969064m	1449.5421	ng
11) Cl3(19)		13.31	256	100222m	170.7379	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		14.16t	221E	890099	No Calib	
14) Cl2(11)		14.16t	222	411786m	309.1173	ng
Corrected Values:				291623	218.8736	ng
15) Cl3(18)		14.17tw	256E	1800801m	3009.6210	ng
16) Cl3(17)		14.28	256E	935319m	1529.4176	ng
17) Cl2(12)		14.37	222	6426m	5.3854	ng
18) Cl2(13)-S1 (0.135)		14.51t	221	12797	No Calib	
19) Cl2(13)		14.51t	222E	1087984m	941.7659	ng
Corrected Values:				1086256	940.0883	ng
20) Cl3(27)		14.52tw	256	258080m	279.3999	ng
21) Cl3(24)		14.64	256	22823m	25.9303	ng
22) Cl3(16)		14.84	256e	241773m	476.7426	ng
23) Cl2(15)		14.89	222e	1064267m	737.2531	ng
24) Cl3(32)		14.97	256e	636392m	688.4950	ng
25) Cl4(54)		15.30t	292	4946m	5.5259	ng
28) Cl3(29)		15.53	256	12255m	14.1019	ng
29) Cl3(26)-S1 (0.135)		15.85t	255	12649	No Calib	
30) Cl3(26)		15.85t	256E	3488571m	3471.2119	ng
Corrected Values:				3486863	3469.5410	ng
31) Cl4(50)		15.90	292	8175m	13.3282	ng
32) Cl3(25)		15.97	256E	2238799m	2033.4059	ng
33) Cl3(31)-S1 (0.135)		16.35tw	255e	94074	No Calib	
34) Cl3(31)		16.32	256E	5109842m	4814.7287	ng
Corrected Values:				5097142	4803.5540	ng
35) Cl4(53)		16.36tw	292e	238932m	376.3145	ng
36) Cl3(28)		16.44	256E	4513917m	4826.5458	ng
37) Cl3(33)		16.54	256E	874274m	987.5904	ng
38) Cl4(51)		16.61	292	118777m	178.3607	ng

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9232.D MF0782.M Mon Mar 02 14:13:07 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9232.D

Vial: 52

Acq On : 20 Feb 2015 3:54 am

Operator: RR/BL

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Sample : L0118-P(2)

Inst : Inst. F

Misc : S-14N-RM26-00-05-REP 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 14:11:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 14:11:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.94	292	182875m	332.9517 ng
40) Cl3(22)		17.03	256E	1107354m	1197.0540 ng
41) Cl4(46)		17.20	292	71708m	142.1929 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.65	292E	2894060m	3509.6340 ng
44) Cl4(48)		17.81	292	174057m	252.0233 ng
45) Cl4(49)		17.87	292E	2920795m	4912.3323 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.05	292E	1051577m	1471.8452 ng
Corrected Values:				1051577	1471.8452 ng
49) Cl4(75)		18.13	292	62326	71.0518 ng
50) Cl4(44)		18.50	292E	1137715m	1729.5406 ng
51) Cl4(42)		18.70	292E	834185m	1394.6078 ng
52) Cl4(71)		18.93	292e	543009m	657.6275 ng
53) Cl4(41)		19.03	292	21343m	44.8193 ng
54) Cl4(64)		19.31	292E	1406870m	1740.4923 ng
55) Cl4(40)		19.39t	292	119595m	253.9770 ng
56) Cl3(37)-S1	(0.135)	19.39t	255	88650	No Calib
57) Cl3(37)		19.39t	256e	529475m	596.2871 ng
Corrected Values:				517507	582.5471 ng
58) Cl5(100)		19.75	326	37124m	63.2077 ng
59) Cl4(67)		20.05	292	273268m	320.9893 ng
60) Cl4(63)		20.44	292	119641m	149.9040 ng
61) Cl5(95)		20.59	326E	931130m	1636.4683 ng
62) Cl4(74)		20.66	292E	968979m	1058.0499 ng
63) Cl4(70)		20.79	292E	1158532m	1263.5593 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.96t	326E	552113m	944.0617 ng
Corrected Values:				552113	944.0617 ng
66) Cl4(66)-S1	(0.174)	20.96t	289E	126772	No Calib
67) Cl4(66)-S2	(0.650)	20.96t	288	11318	No Calib
68) Cl4(66)		20.99	292E	1322513m	1478.5255 ng
Corrected Values:				1293098	1447.9059 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		21.29	292	26529m	33.4545 ng
71) Cl5(92)		21.60T	326e	295515m	580.6685 ng
72) Cl5(84)		21.60T	326e	227081m	Below Cal
73) Cl4(56)-S1	(0.174)	21.60t	289e	168514	No Calib
74) Cl4(56)		21.64	292e	537623m	640.3461 ng
Corrected Values:				508302	605.9129 ng
75) Cl4(60)-S1	(0.174)	21.89tw	289E	170139	No Calib
76) Cl4(60)		21.91tw	292	242677m	299.6476 ng
Corrected Values:				213073	263.3370 ng
77) Cl5(101)		21.90tw	326E	1274397m	1886.3066 ng
79) Cl5(99)		22.17	326E	1115152m	1589.0394 ng
80) Cl5(83)		22.55	326e	209863m	510.2590 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.84	326E	414143m	832.8458 ng
83) Cl5(87)		23.30	326	108754m	245.0524 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9232.D MF0782.M Mon Mar 02 14:13:08 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9232.D

Vial: 52

Acq On : 20 Feb 2015 3:54 am

Operator: RR/BL

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Sample : L0118-P(2)

Inst : Inst. F

Misc : S-14N-RM26-00-05-REP 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 14:11:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 14:11:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.39	360	120054m	234.3813 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.59	360	34469m	75.9994 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.56	326	89345m	211.1335 ng
Corrected Values:				89345	211.1335 ng
89) Cl5(110)		23.82	326E	2013999m	2196.2170 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.25tw	323	23301	No Calib
92) Cl5(82)		24.26t	326	39430m	103.7257 ng
Corrected Values:				34304	90.5811 ng
93) Cl6(151)		24.26t	360	106875m	267.2256 ng
94) Cl6(135)		24.36	360	85800m	224.4012 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.45	292	128933m	200.7299 ng
Corrected Values:				128933	200.7299 ng
97) Cl6(144)		24.50	360	12087m	31.7769 ng
98) Cl6(149)		24.72	360E	754199m	1300.9543 ng
99) Cl6(139)		24.84	360	14102m	35.8270 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.90	326	46871m	73.6790 ng
Corrected Values:				46871	73.6790 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.09	326	144482m	233.4464 ng
104) Cl6(134)		25.19	360	43461m	132.6911 ng
105) Cl7(188)		25.29	394	1291m	3.7563 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.32	326E	1284713m	1518.9615 ng
Corrected Values:				1284713	1518.9615 ng
109) Cl6(131)		25.36	360	8417m	24.4816 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.67	360	119350m	255.6794 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.69	326	28162m	47.0543 ng
Corrected Values:				28162	47.0543 ng
115) Cl6(153)		25.92	360E	831858m	1355.4571 ng
116) Cl7(179)		26.15	394	27680m	65.8943 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		26.27	326	178954m	296.0222 ng
Corrected Values:				178954	296.0222 ng
119) Cl6(141)		26.31	360	40814m	110.5078 ng
120) Cl7(176)		26.40	394	5564m	14.1783 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.52	360	29599m	78.8414 ng
124) Cl6(130)		26.66	360	21919m	60.9828 ng
125) Cl6(164)		26.72	360	62832m	126.9910 ng
126) Cl6(138)		26.85	360e	253762m	536.8225 ng
127) Cl6(163)-S1	(0.265)	26.94tw	357	2357	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9232.D MF0782.M Mon Mar 02 14:13:08 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9232.D

Vial: 52

Acq On : 20 Feb 2015 3:54 am

Operator: RR/BL

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Sample : L0118-P(2)

Inst : Inst. F

Misc : S-14N-RM26-00-05-REP 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 14:11:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 14:11:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.90	360e	251875m	459.1703 ng
Corrected Values:				251250	458.2062 ng
129) Cl7(178)		26.95tw	394	10969m	35.6297 ng
130) Cl6(158)		26.99	360	89441m	164.0523 ng
131) Cl7(175)		27.13	394	2412m	8.1948 ng
132) Cl7(187)		27.22	394	75189m	203.8060 ng
133) Cl6(166) -S1	(0.265)	27.39t	357	2651	No Calib
134) Cl6(166)		27.39t	360	7614m	16.1946 ng
Corrected Values:				6911	14.7639 ng
135) Cl7(183)		27.39t	394	28726m	83.7934 ng
136) Cl5(126)		27.54	326	6969m	13.8450 ng
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.70	360	68153m	185.7732 ng
Corrected Values:				68153	185.7732 ng
139) Cl7(185)		27.73	394	3356m	11.8605 ng
140) Cl7(174)		27.83	394	26446m	85.7871 ng
141) Cl6(167)		27.94	360	54004m	107.6483 ng
142) Cl8(202)		28.00	428	4145m	12.3962 ng
143) Cl7(177)		28.11	394	17819m	61.8761 ng
144) Cl8(201)		28.24t	428	1957m	6.4694 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		28.24t	394	12978m	41.9280 ng
Corrected Values:				12978	41.9280 ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		28.45	428	747m	2.7373 ng
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.54	360	74849m	150.1755 ng
Corrected Values:				74849	150.1755 ng
151) Cl7(172)		28.59	394	7671m	26.5564 ng
152) Cl6(157)		28.64	360	15534m	33.8284 ng
153) Cl7(180)		28.78	394	90360m	248.8072 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.81	394	6040m	15.7394 ng
Corrected Values:				6040	15.7394 ng
156) Cl8(200)		28.85	428	1868m	5.9392 ng
157) Cl7(191)		28.95	394	3509m	8.8974 ng
158) Cl7(170) -S1	(0.309)	29.54tw	391	2161	No Calib
159) Cl7(170)		29.49	394	45914m	154.7282 ng
Corrected Values:				45246	152.5792 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.55tw	428	11100m	45.8334 ng
162) Cl7(190)		29.60	394	14519m	36.1923 ng
163) Cl6(169) -S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.72	428	14372m	52.9317 ng
166) Cl9(208)		30.22	464	2918m	9.7811 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		30.42tw	464	1062m	4.0362 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9232.D MF0782.M Mon Mar 02 14:13:09 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9232.D

Vial: 52

Acq On : 20 Feb 2015 3:54 am

Operator: RR/BL

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Sample : L0118-P(2)

Inst : Inst. F

Misc : S-14N-RM26-00-05-REP 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 14:11:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 14:11:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.43tw	428	3997m	16.5787 ng
Corrected Values:				3997	16.5787 ng
171) Cl8(194)		30.93	428	11640m	47.5298 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.58	464	5626m	25.2062 ng
174) Cl10(209)		32.08	498	1270m	4.6274 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9232.D MF0782.M Mon Mar 02 14:13:09 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9233.D

Vial: 53

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Acq On : 20 Feb 2015 4:41 am

Operator: RR/BL

Sample : L0126-P(2)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 14:42:56 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 14:42:50 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	79366m	95.0000	ng
78) Cl6(161)	25.75	360	41711m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.30t	255	2704m	0.0000	ng
27) Cl3(34)	15.30t	256	321772m	322.1275	ng
Spiked Amount	379.8670			Recovery	= 84.70%
Corrected Values:			321407	321.7642	ng
114) Cl6(152)	22.43	360	166248m	356.4462	ng
Spiked Amount	381.3865			Recovery	= 93.46%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	31122m	11.4301	ng
3) Cl1(1)		9.93	188	53101m	26.4420	ng
4) Cl1(3)		11.13	188	49182m	25.5329	ng
5) Cl2(4)		11.42	222E	872011m	921.5771	ng
6) Cl2(7)		12.31	222	73399m	51.8822	ng
7) Cl2(9)		12.26	222	167278m	97.6359	ng
8) Cl2(6)		12.55	222E	3519815m	2685.3936	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.84	222E	3086954m	2197.8244	ng
11) Cl3(19)		13.31	256e	330073m	510.2949	ng
12) Cl3(30)		13.71	256	2961m	3.4287	ng
13) Cl2(11)-S1 (0.135)		14.16tw	221E	1497800	No Calib	
14) Cl2(11)		14.15tw	222e	621695m	421.8972	ng
Corrected Values:				419492	284.4930	ng
15) Cl3(18)		14.17tw	256E	2990065m	4939.1927	ng
16) Cl3(17)		14.28	256E	1401735m	2170.4712	ng
17) Cl2(12)		14.35	222	2856m	2.4404	ng
18) Cl2(13)-S1 (0.135)		14.51t	221E	40923	No Calib	
19) Cl2(13)		14.50tw	222E	1362207m	1083.0126	ng
Corrected Values:				1356682	1077.9834	ng
20) Cl3(27)		14.51t	256E	975565m	1045.6271	ng
21) Cl3(24)		14.63	256	8390m	8.8542	ng
22) Cl3(16)		14.83	256	74432m	131.4689	ng
23) Cl2(15)		14.89	222e	985087m	616.5979	ng
24) Cl3(32)		14.97	256E	1549496m	1521.5051	ng
25) Cl4(54)		15.30t	292	25193m	25.0952	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		15.84t	255	18458	No Calib	
30) Cl3(26)		15.84t	256E	5306301m	4740.8011	ng
Corrected Values:				5303809	4738.6250	ng
31) Cl4(50)		15.90	292	13846m	20.0167	ng
32) Cl3(25)		15.96	256E	3369093m	2630.7988	ng
33) Cl3(31)-S1 (0.135)		16.34tw	255E	280393	No Calib	
34) Cl3(31)		16.32	256E	5601326m	4771.6068	ng
Corrected Values:				5563473	4741.4701	ng
35) Cl4(53)		16.35tw	292E	786620m	1239.2687	ng
36) Cl3(28)		16.43	256E	4925074m	4755.5854	ng
37) Cl3(33)		16.54	256	237015m	240.1162	ng
38) Cl4(51)		16.61	292e	381006m	524.3316	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9233.D MF0782.M Mon Mar 02 14:13:14 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9233.D

Vial: 53

Acq On : 20 Feb 2015 4:41 am

Operator: RR/BL

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Sample : L0126-P(2)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 14:42:56 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 14:42:50 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.93	292	100887m	165.2935 ng
40) Cl3(22)		17.02	256e	334700m	338.9392 ng
41) Cl4(46)		17.19	292	135089m	242.4141 ng
42) Cl4(43)		17.52	292	59310m	102.2612 ng
43) Cl4(52)		17.65	292E	4373900m	4444.5191 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.86	292E	4020936m	6104.2215 ng
46) Cl5(104)		18.04t	326	3139m	3.4386 ng
47) Cl4(47)-S1	(0.174)	18.04t	289	1008	No Calib
48) Cl4(47)		18.04t	292E	1256538m	1597.5497 ng
Corrected Values:				1256363	1597.3109 ng
49) Cl4(75)		18.12	292	97110m	99.9180 ng
50) Cl4(44)		18.49	292E	887012m	1263.0896 ng
51) Cl4(42)		18.69	292E	580341m	891.3499 ng
52) Cl4(71)		18.92	292E	924203m	1005.1922 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.29	292E	708863m	759.1527 ng
55) Cl4(40)		19.43	292	103571m	199.1067 ng
56) Cl3(37)-S1	(0.135)	19.38tw	255	31851	No Calib
57) Cl3(37)		19.37tw	256	177064m	178.1617 ng
Corrected Values:				172764	173.8301 ng
58) Cl5(100)		19.74	326	54353m	83.3984 ng
59) Cl4(67)		20.03	292	149147m	160.9979 ng
60) Cl4(63)		20.43	292	43261m	49.8164 ng
61) Cl5(95)		20.57	326E	836136m	1350.1691 ng
62) Cl4(74)		20.64	292e	344654m	350.6240 ng
63) Cl4(70)		20.78	292	230852m	241.4805 ng
64) Cl5(91)-S1	(0.220)	20.95t	323	286	No Calib
65) Cl5(91)		20.95t	326E	489916m	757.6835 ng
Corrected Values:				489853	757.5865 ng
66) Cl4(66)-S1	(0.174)	20.94tw	289e	110587	No Calib
67) Cl4(66)-S2	(0.650)	20.95t	288	7334	No Calib
68) Cl4(66)		20.96tw	292e	328455m	352.4610 ng
Corrected Values:				304446	327.1973 ng
69) Cl6(155)		21.02	360	654m	1.8244 ng
70) Cl4(80)		21.27	292	11609m	13.7344 ng
71) Cl5(92)		21.58T	326e	258102m	452.9714 ng
72) Cl5(84)		21.58T	326e	190496m	526.6616 ng
73) Cl4(56)-S1	(0.174)	21.58t	289e	143871	No Calib
74) Cl4(56)		21.62	292	114901m	125.7428 ng
Corrected Values:				89867	98.6017 ng
75) Cl4(60)-S1	(0.174)	21.86tw	289E	91732	No Calib
76) Cl4(60)		21.88tw	292	61879m	69.8718 ng
Corrected Values:				45918	52.0610 ng
77) Cl5(101)		21.87tw	326E	669187m	940.6286 ng
79) Cl5(99)		22.15	326E	644842m	1125.0308 ng
80) Cl5(83)		22.52	326e	216466m	578.3355 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.82	326e	201061m	484.4418 ng
83) Cl5(87)		23.28	326	44335m	116.5829 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9233.D MF0782.M Mon Mar 02 14:13:15 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9233.D

Vial: 53

Acq On : 20 Feb 2015 4:41 am

Operator: RR/BL

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Sample : L0126-P(2)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 14:42:56 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 14:42:50 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.37	360	138890m	297.5214 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.56	360	46785m	114.1903 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.53	326	34483m	94.2087 ng
Corrected Values:				34483	94.2087 ng
89) Cl5(110)		23.81	326E	1383369m	1798.4008 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.24t	323	20182	No Calib
92) Cl5(82)		24.24t	326	15778m	47.3078 ng
Corrected Values:				11338	34.2647 ng
93) Cl6(151)		24.24t	360	96404m	269.2946 ng
94) Cl6(135)		24.34	360	78791m	230.0383 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.43	292	38253m	69.8190 ng
Corrected Values:				38253	69.8190 ng
97) Cl6(144)		24.48	360	8416m	24.9709 ng
98) Cl6(149)		24.70	360E	749807m	1407.8672 ng
99) Cl6(139)		24.82	360	14226m	40.2845 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.87	326	17185m	30.9772 ng
Corrected Values:				17185	30.9772 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.07	326	58689m	110.2366 ng
104) Cl6(134)		25.17	360	38390m	131.0574 ng
105) Cl7(188)		25.28	394	1917m	5.6386 ng
106) Cl5(118)-S1	(0.220)	25.37	323	7596	No Calib
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.30	326e	542547m	829.2178 ng
Corrected Values:				540876	827.0680 ng
109) Cl6(131)		25.34	360	7319m	23.8326 ng
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		25.65	360	94107m	227.8514 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.67	326	11499m	22.1455 ng
Corrected Values:				11499	22.1455 ng
115) Cl6(153)		25.91	360E	649085m	1219.2175 ng
116) Cl7(179)		26.13	394	29819m	78.9680 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		26.25	326	51156m	100.8675 ng
Corrected Values:				51156	100.8675 ng
119) Cl6(141)		26.29	360	18119m	56.0152 ng
120) Cl7(176)		26.39	394	4462m	12.7618 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.51	360	15693m	47.3869 ng
124) Cl6(130)		26.64	360	15519m	48.5874 ng
125) Cl6(164)		26.69	360	41775m	95.1489 ng
126) Cl6(138)		26.84	360	108716m	268.6020 ng
127) Cl6(163)-S1	(0.265)	26.92tw	357	2296	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9233.D MF0782.M Mon Mar 02 14:13:15 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9233.D

Vial: 53

Acq On : 20 Feb 2015 4:41 am

Operator: RR/BL

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Sample : L0126-P(2)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 14:42:56 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 14:42:50 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.88	360	216965m	444.6351 ng
Corrected Values:				216357	443.5766 ng
129) Cl7(178)		26.93tw	394	11597m	41.8508 ng
130) Cl6(158)		26.98	360	67999m	140.5021 ng
131) Cl7(175)		27.11	394	2134m	8.1130 ng
132) Cl7(187)		27.20	394	78233m	234.7207 ng
133) Cl6(166) -S1	(0.265)	27.37t	357	2919	No Calib
134) Cl6(166)		27.37t	360	7017m	16.6597 ng
Corrected Values:				6243	14.8995 ng
135) Cl7(183)		27.38tw	394	26100m	85.0494 ng
136) Cl5(126)		27.52	326	3112m	7.1048 ng
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.69	360	40040m	123.9693 ng
Corrected Values:				40040	123.9693 ng
139) Cl7(185)		27.71	394	2824m	11.2095 ng
140) Cl7(174)		27.82	394	18869m	68.9119 ng
141) Cl6(167)		27.92	360	39561m	88.8532 ng
142) Cl8(202)		28.00	428	4852m	16.0547 ng
143) Cl7(177)		28.10	394	12673m	49.4392 ng
144) Cl8(201)		28.22t	428	1732m	6.4106 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		28.22t	394	9829m	35.6341 ng
Corrected Values:				9829	35.6341 ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		28.43	428	582m	2.4579 ng
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.53	360	41917m	96.1292 ng
Corrected Values:				41917	96.1292 ng
151) Cl7(172)		28.57	394	5914m	23.0508 ng
152) Cl6(157)		28.62	360	8514m	21.0737 ng
153) Cl7(180)		28.76	394	69245m	215.4962 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.79	394	6024m	17.4726 ng
Corrected Values:				6024	17.4726 ng
156) Cl8(200)		28.84	428	1458m	5.2422 ng
157) Cl7(191)		28.93	394	2901m	8.2781 ng
158) Cl7(170) -S1	(0.309)	29.53t	391	1737	No Calib
159) Cl7(170)		29.47	394	32503m	123.6227 ng
Corrected Values:				31966	121.6559 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.53t	428	10205m	47.0483 ng
162) Cl7(190)		29.59	394	13508m	37.6049 ng
163) Cl6(169) -S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.71	428	13699m	56.2922 ng
166) Cl9(208)		30.21	464	2793m	10.4511 ng
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		30.40tw	464	946m	4.0221 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9233.D MF0782.M Mon Mar 02 14:13:16 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9233.D

Vial: 53

Acq On : 20 Feb 2015 4:41 am

Operator: RR/BL

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Sample : L0126-P(2)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 14:42:56 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 14:42:50 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.41tw	428	3412m	15.8322 ng
Corrected Values:				3412	15.8322 ng
171) Cl8(194)		30.91	428	10110m	46.1703 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.57	464	5768m	28.8546 ng
174) Cl10(209)		32.06	498	1379m	5.7608 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9233.D MF0782.M Mon Mar 02 14:13:16 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9234.D

Vial: 54

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Acq On : 20 Feb 2015 5:29 am

Operator: RR/BL

Sample : L0132-P(2)

Inst : Inst. F

Misc : S-14N-RCC14-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 15:28:14 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 15:28:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	64963m	95.0000	ng
78) Cl6(161)	25.75	360	49112m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	1219m	0.0000	ng
27) Cl3(34)	15.29t	256	300527m	367.2669	ng
Spiked Amount	379.8670			Recovery	= 96.63%
Corrected Values:			300362	367.0666	ng
114) Cl6(152)	22.44	360	191491m	349.2412	ng
Spiked Amount	381.3865			Recovery	= 91.57%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	102433m	46.0454	ng
3) Cl1(1)		9.93	188	8995m	5.4848	ng
4) Cl1(3)		11.13	188	17062m	11.0068	ng
5) Cl2(4)		11.42	222	140597m	176.6811	ng
6) Cl2(7)		12.31	222	13679m	12.2844	ng
7) Cl2(9)		12.26	222	31829m	23.1458	ng
8) Cl2(6)		12.55	222e	842496m	675.2068	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.84	222e	660749m	495.5803	ng
11) Cl3(19)		13.30	256	45864m	86.3469	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		14.15tw	221E	356656	No Calib	
14) Cl2(11)		14.14tw	222	173855m	144.0858	ng
Corrected Values:				125706	104.2619	ng
15) Cl3(18)		14.16tw	256E	724185m	1238.7543	ng
16) Cl3(17)		14.27	256e	341344m	577.1188	ng
17) Cl2(12)		14.35	222	2213m	2.3350	ng
18) Cl2(13)-S1 (0.135)		14.50t	221	8166	No Calib	
19) Cl2(13)		14.50t	222	406449m	364.4749	ng
Corrected Values:				405347	363.4485	ng
20) Cl3(27)		14.51tw	256	186037m	220.9917	ng
21) Cl3(24)		14.64	256	5191m	6.7831	ng
22) Cl3(16)		14.83	256	57339m	123.7322	ng
23) Cl2(15)		14.89	222	359511m	275.1677	ng
24) Cl3(32)		14.96	256	284150m	338.8462	ng
25) Cl4(54)		15.30tw	292	3535m	4.3830	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		15.84t	255	4567	No Calib	
30) Cl3(26)		15.84t	256E	1803397m	1995.3453	ng
Corrected Values:				1802780	1994.6695	ng
31) Cl4(50)		15.88	292	3599m	6.8471	ng
32) Cl3(25)		15.96	256E	1136398m	1223.7620	ng
33) Cl3(31)-S1 (0.135)		16.33tw	255	52772	No Calib	
34) Cl3(31)		16.30	256E	1896253m	2056.0792	ng
Corrected Values:				1889129	2048.5922	ng
35) Cl4(53)		16.34tw	292	145067m	248.8519	ng
36) Cl3(28)		16.42	256E	1733535m	2005.0026	ng
37) Cl3(33)		16.53	256	241552m	299.0331	ng
38) Cl4(51)		16.60	292	66423m	110.0090	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9234.D MF0782.M Mon Mar 02 14:13:20 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9234.D

Vial: 54

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Acq On : 20 Feb 2015 5:29 am

Operator: RR/BL

Sample : L0132-P(2)

Inst : Inst. F

Misc : S-14N-RCC14-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 15:28:14 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 15:28:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.93	292	54731m	109.5482 ng
40) Cl3(22)		17.01	256	268925m	332.8063 ng
41) Cl4(46)		17.19	292	29914m	65.6741 ng
42) Cl4(43)		17.51	292	22449m	47.7814 ng
43) Cl4(52)		17.63	292E	1641988m	2418.8972 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.85	292E	1527210m	2840.0059 ng
46) Cl5(104)		18.04t	326	603m	0.6212 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.04t	292e	490997m	735.8099 ng
Corrected Values:				490997	735.8099 ng
49) Cl4(75)		18.11	292	30188m	38.2012 ng
50) Cl4(44)		18.48	292E	488749m	877.0161 ng
51) Cl4(42)		18.67	292e	368724m	696.5031 ng
52) Cl4(71)		18.91	292	215544m	290.1178 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.29	292e	457332m	594.2879 ng
55) Cl4(40)		19.39tw	292	30372m	71.8533 ng
56) Cl3(37)-S1	(0.135)	19.38tw	255	26341	No Calib
57) Cl3(37)		19.37tw	256	159328m	195.8931 ng
Corrected Values:				155772	191.5114 ng
58) Cl5(100)		19.74	326	21745m	41.0890 ng
59) Cl4(67)		20.03	292	95653m	126.7118 ng
60) Cl4(63)		20.43	292	35905m	50.5005 ng
61) Cl5(95)		20.57	326E	524244m	1052.7730 ng
62) Cl4(74)		20.64	292	234938m	292.8341 ng
63) Cl4(70)		20.77	292	279849m	354.9978 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.94t	326e	281088m	531.8972 ng
Corrected Values:				281088	531.8972 ng
66) Cl4(66)-S1	(0.174)	20.94t	289e	64247	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.96	292e	335824m	438.0603 ng
Corrected Values:				324645	423.8262 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		21.28	292	19233m	26.9459 ng
71) Cl5(92)		21.57Tw	326	147441m	312.3337 ng
72) Cl5(84)		21.58t	326	113158m	328.9585 ng
73) Cl4(56)-S1	(0.174)	21.58t	289	92147	No Calib
74) Cl4(56)		21.62	292	111214m	148.4540 ng
Corrected Values:				95180	127.2395 ng
75) Cl4(60)-S1	(0.174)	21.86tw	289E	70141	No Calib
76) Cl4(60)		21.89	292	68585m	94.3072 ng
Corrected Values:				56380	77.6812 ng
77) Cl5(101)		21.87tw	326E	512494m	882.8674 ng
79) Cl5(99)		22.15	326E	474202m	759.7979 ng
80) Cl5(83)		22.53	326	109259m	268.6159 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.82	326	156636m	331.1345 ng
83) Cl5(87)		23.29	326	59437m	132.0211 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9234.D MF0782.M Mon Mar 02 14:13:20 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9234.D

Vial: 54

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Acq On : 20 Feb 2015 5:29 am

Operator: RR/BL

Sample : L0132-P(2)

Inst : Inst. F

Misc : S-14N-RCC14-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 15:28:14 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 15:28:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.36	360	73218m	139.5418 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.56	360	19714m	41.8805 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.53	326	43860m	101.5769 ng
Corrected Values:				43860	101.5769 ng
89) Cl5(110)		23.81	326E	969760m	1191.8699 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.24t	323	13057	No Calib
92) Cl5(82)		24.24t	326	16304m	41.6446 ng
Corrected Values:				13431	34.4680 ng
93) Cl6(151)		24.24t	360	61548m	149.8240 ng
94) Cl6(135)		24.34	360	50715m	128.6601 ng
95) Cl4(77)-S2	(0.650)	24.47tw	288	4539	No Calib
96) Cl4(77)		24.43	292	38139m	59.4143 ng
Corrected Values:				35189	54.9453 ng
97) Cl6(144)		24.48tw	360	6623m	17.0318 ng
98) Cl6(149)		24.70	360E	417769m	785.4814 ng
99) Cl6(139)		24.82	360	8365m	20.4521 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.87	326	20747m	31.7342 ng
Corrected Values:				20747	31.7342 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.08	326	57664m	92.5914 ng
104) Cl6(134)		25.17	360	25301m	74.6692 ng
105) Cl7(188)		25.27	394	846m	2.6772 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.31	326E	580005m	764.1776 ng
Corrected Values:				580005	764.1776 ng
109) Cl6(131)		25.37	360	12057m	32.7639 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.64	360	60450m	129.6223 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.67	326	12211m	20.0832 ng
Corrected Values:				12211	20.0832 ng
115) Cl6(153)		25.90	360E	449503m	794.8919 ng
116) Cl7(179)		26.13	394	15881m	36.4389 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.25	326	72839m	121.1119 ng
Corrected Values:				72839	121.1119 ng
119) Cl6(141)		26.30	360	20670m	54.3250 ng
120) Cl7(176)		26.39	394	3100m	7.7337 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.51	360	16256m	41.8556 ng
124) Cl6(130)		26.64	360	15185m	40.6103 ng
125) Cl6(164)		26.70	360	31460m	61.4995 ng
126) Cl6(138)		26.84	360	138921m	290.4161 ng
127) Cl6(163)-S1	(0.265)	26.92tw	357	1458	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9234.D MF0782.M Mon Mar 02 14:13:21 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9234.D

Vial: 54

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Acq On : 20 Feb 2015 5:29 am

Operator: RR/BL

Sample : L0132-P(2)

Inst : Inst. F

Misc : S-14N-RCC14-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 15:28:14 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 15:28:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.88	360	147309m	275.0463 ng
Corrected Values:				146923	274.4017 ng
129) Cl7(178)		26.93tw	394	6183m	19.6508 ng
130) Cl6(158)		26.98	360	50235m	89.7595 ng
131) Cl7(175)		27.11	394	1394m	4.8812 ng
132) Cl7(187)		27.20	394	41651m	110.5280 ng
133) Cl6(166)-S1	(0.265)	27.38t	357	1603	No Calib
134) Cl6(166)		27.37tw	360	4270m	8.9389 ng
Corrected Values:				3845	8.1153 ng
135) Cl7(183)		27.38t	394	15813m	44.6643 ng
136) Cl5(126)		27.53	326	3696m	7.1633 ng
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.69	360	41585m	109.7917 ng
Corrected Values:				41585	109.7917 ng
139) Cl7(185)		27.71	394	2041m	7.2313 ng
140) Cl7(174)		27.82	394	14015m	44.0840 ng
141) Cl6(167)		27.92	360	30057m	58.1677 ng
142) Cl8(202)		28.00	428	2699m	7.8566 ng
143) Cl7(177)		28.10	394	10098m	33.7214 ng
144) Cl8(201)		28.22tw	428	1149m	4.0679 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.23tw	394	7364m	22.9663 ng
Corrected Values:				7364	22.9663 ng
147) Cl7(173)		28.30	394	692m	2.9654 ng
148) Cl8(197)		28.44	428	318m	1.4485 ng
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.53	360	41387m	81.1416 ng
Corrected Values:				41387	81.1416 ng
151) Cl7(172)		28.57	394	3948m	13.5552 ng
152) Cl6(157)		28.63	360	8547m	18.0856 ng
153) Cl7(180)		28.76	394	48972m	133.1775 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.81	394	2623m	6.8245 ng
Corrected Values:				2623	6.8245 ng
156) Cl8(200)		28.84	428	801m	2.6991 ng
157) Cl7(191)		28.93	394	1736m	4.5701 ng
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		29.47	394	24532m	80.3534 ng
Corrected Values:				24532	80.3534 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.53	428	5956m	24.0709 ng
162) Cl7(190)		29.58	394	8046m	19.2900 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.70	428	7819m	27.8164 ng
166) Cl9(208)		30.21	464	1722m	5.5525 ng
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		30.40tw	464	791m	3.1018 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9234.D MF0782.M Mon Mar 02 14:13:21 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9234.D

Vial: 54

Acq On : 20 Feb 2015 5:29 am

Operator: RR/BL

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Sample : L0132-P(2)

Inst : Inst. F

Misc : S-14N-RCC14-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 15:28:14 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 15:28:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.41tw	428	2300m	9.1911 ng
Corrected Values:				2300	9.1911 ng
171) Cl8(194)		30.91	428	6492m	25.5166 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.57	464	3866m	16.4781 ng
174) Cl10(209)		32.06	498	1179m	3.9970 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9234.D MF0782.M Mon Mar 02 14:13:21 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9236.D

Vial: 56

Acq On : 20 Feb 2015 7:05 am

Operator: RR/BL

277 of 381

Sample : L0139-P(2)

Inst : Inst. F

Misc : S-14N-SO9-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 16:19:57 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 16:19:50 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	64842m	95.0000	ng
78) Cl6(161)	25.75	360	46907m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	1207m	0.0000	ng
27) Cl3(34)	15.29t	256	297095m	363.7726	ng
Spiked Amount	379.8670			Recovery	= 95.71%
Corrected Values:			296932	363.5742	ng
114) Cl6(152)	22.44	360	188242m	358.7187	ng
Spiked Amount	381.3865			Recovery	= 94.06%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	89494m	40.2796	ng
3) Cl1(1)		9.93	188	9650m	5.8936	ng
4) Cl1(3)		11.13	188	9818m	6.4859	ng
5) Cl2(4)		11.42	222	148872m	187.4912	ng
6) Cl2(7)		12.31	222	17852m	15.8541	ng
7) Cl2(9)		12.26	222	39322m	28.5261	ng
8) Cl2(6)		12.55	222e	976640m	790.4625	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.84	222e	741074m	559.7281	ng
11) Cl3(19)		13.30	256	41548m	78.3995	ng
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)		14.15tw	221E	387293	No Calib	
14) Cl2(11)		14.14tw	222	182504m	151.5240	ng
Corrected Values:				130219	108.1944	ng
15) Cl3(18)		14.16tw	256E	785181m	1351.8350	ng
16) Cl3(17)		14.27	256e	390794m	665.8258	ng
17) Cl2(12)		14.36	222	3274m	3.2371	ng
18) Cl2(13)-S1 (0.135)		14.51t	221	7678	No Calib	
19) Cl2(13)		14.50tw	222	457734m	413.3100	ng
Corrected Values:				456697	412.3316	ng
20) Cl3(27)		14.51t	256	129612m	153.3156	ng
21) Cl3(24)		14.63	256	9486m	12.1120	ng
22) Cl3(16)		14.83	256	103279m	223.5892	ng
23) Cl2(15)		14.89	222	377328m	289.3175	ng
24) Cl3(32)		14.96	256	276934m	330.8515	ng
25) Cl4(54)		15.30tw	292	3100m	3.8645	ng
28) Cl3(29)		15.52	256	3406m	4.7395	ng
29) Cl3(26)-S1 (0.135)		15.84t	255	4187	No Calib	
30) Cl3(26)		15.84t	256E	1682077m	1865.8065	ng
Corrected Values:				1681512	1865.1857	ng
31) Cl4(50)		15.89	292	3614m	6.8841	ng
32) Cl3(25)		15.96	256E	1086565m	1177.2912	ng
33) Cl3(31)-S1 (0.135)		16.34t	255	44274	No Calib	
34) Cl3(31)		16.31	256E	2120496m	2295.0321	ng
Corrected Values:				2114519	2288.7833	ng
35) Cl4(53)		16.34t	292	115634m	197.7527	ng
36) Cl3(28)		16.42	256E	1990891m	2311.9526	ng
37) Cl3(33)		16.53	256e	383626m	476.4864	ng
38) Cl4(51)		16.60	292	55026m	91.3419	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9236.D MF0782.M Mon Mar 02 14:13:28 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9236.D

Vial: 56

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Acq On : 20 Feb 2015 7:05 am

Operator: RR/BL

Sample : L0139-P(2)

Inst : Inst. F

Misc : S-14N-SO9-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 16:19:57 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 16:19:50 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.93	292	80345m	161.1150 ng
40) Cl3(22)		17.01	256e	442847m	543.8971 ng
41) Cl4(46)		17.19	292	31844m	70.0060 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.64	292E	1513872m	2266.2069 ng
44) Cl4(48)		17.79	292	47328m	77.9571 ng
45) Cl4(49)		17.86	292E	1456890m	2714.5754 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.04	292e	536940m	808.5227 ng
Corrected Values:				536940	808.5227 ng
49) Cl4(75)		18.12	292	36076m	45.6381 ng
50) Cl4(44)		18.48	292E	597370m	1058.2846 ng
51) Cl4(42)		18.69	292e	421041m	794.1447 ng
52) Cl4(71)		18.92	292	230067m	310.1173 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.30	292e	626271m	823.1483 ng
55) Cl4(40)		19.38t	292	54220m	127.9769 ng
56) Cl3(37)-S1	(0.135)	19.38t	255	42833	No Calib
57) Cl3(37)		19.37tw	256	217211m	267.9083 ng
Corrected Values:				211429	260.7350 ng
58) Cl5(100)		19.74	326	21958m	41.5617 ng
59) Cl4(67)		20.03	292	134640m	177.5423 ng
60) Cl4(63)		20.43	292	52599m	73.6704 ng
61) Cl5(95)		20.57	326E	581125m	1161.5447 ng
62) Cl4(74)		20.64	292e	420328m	519.3422 ng
63) Cl4(70)		20.78	292e	527822m	658.7308 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.95t	326e	315428m	597.7081 ng
Corrected Values:				315428	597.7081 ng
66) Cl4(66)-S1	(0.174)	20.95t	289e	72762	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.97	292E	648773m	829.7484 ng
Corrected Values:				636112	814.2328 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		21.28	292	17033m	24.0042 ng
71) Cl5(92)		21.58Tw	326	179601m	383.4651 ng
72) Cl5(84)		21.59t	326	112045m	325.5523 ng
73) Cl4(56)-S1	(0.174)	21.59t	289	103057	No Calib
74) Cl4(56)		21.63	292	215499m	286.4963 ng
Corrected Values:				197567	262.8641 ng
75) Cl4(60)-S1	(0.174)	21.87t	289E	99578	No Calib
76) Cl4(60)		21.88tw	292	106068m	145.5825 ng
Corrected Values:				88741	121.9706 ng
77) Cl5(101)		21.87t	326E	741010m	1253.6265 ng
79) Cl5(99)		22.15	326E	695810m	1087.8133 ng
80) Cl5(83)		22.53	326	125438m	318.5604 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.82	326e	229512m	491.0612 ng
83) Cl5(87)		23.29	326	54802m	127.6434 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9236.D MF0782.M Mon Mar 02 14:13:29 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9236.D

Vial: 56

Acq On : 20 Feb 2015 7:05 am

Operator: RR/BL

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Sample : L0139-P(2)

Inst : Inst. F

Misc : S-14N-SO9-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 16:19:57 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 16:19:50 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.37	360	73543m	146.4510 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.57	360	19705m	43.7749 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.53	326	48951m	118.1648 ng
Corrected Values:				48951	118.1648 ng
89) Cl5(110)		23.81	326E	1163853m	1433.1408 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.24t	323	14640	No Calib
92) Cl5(82)		24.24t	326	19056m	50.7239 ng
Corrected Values:				15835	42.3313 ng
93) Cl6(151)		24.24t	360	66203m	168.0195 ng
94) Cl6(135)		24.34	360	52918m	140.1725 ng
95) Cl4(77)-S2	(0.650)	24.47tw	288	3645	No Calib
96) Cl4(77)		24.44	292	59623m	95.7263 ng
Corrected Values:				57254	92.0561 ng
97) Cl6(144)		24.48tw	360	6813m	18.2658 ng
98) Cl6(149)		24.70	360E	430028m	834.7133 ng
99) Cl6(139)		24.83	360	8983m	22.9265 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		24.88	326	32023m	50.5365 ng
Corrected Values:				32023	50.5365 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.08	326	85107m	140.6760 ng
104) Cl6(134)		25.18	360	26918m	82.9169 ng
105) Cl7(188)		25.28	394	900m	2.8794 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.31	326E	837651m	1077.6292 ng
Corrected Values:				837651	1077.6292 ng
109) Cl6(131)		25.34	360	5226m	15.6310 ng
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		25.65	360	69697m	154.7279 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.67	326	15515m	26.3400 ng
Corrected Values:				15515	26.3400 ng
115) Cl6(153)		25.91	360E	514687m	922.7648 ng
116) Cl7(179)		26.13	394	16208m	38.8689 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		26.25	326	88980m	153.2150 ng
Corrected Values:				88980	153.2150 ng
119) Cl6(141)		26.30	360	23150m	63.3943 ng
120) Cl7(176)		26.39	394	3101m	8.0768 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.51	360	18432m	49.4286 ng
124) Cl6(130)		26.64	360	13799m	38.7013 ng
125) Cl6(164)		26.70	360	38761m	78.8757 ng
126) Cl6(138)		26.84	360	160886m	348.7062 ng
127) Cl6(163)-S1	(0.265)	26.92tw	357	1972	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9236.D MF0782.M Mon Mar 02 14:13:29 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9236.D

Vial: 56

Acq On : 20 Feb 2015 7:05 am

Operator: RR/BL

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Sample : L0139-P(2)

Inst : Inst. F

Misc : S-14N-SO9-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 16:19:57 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 16:19:50 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.88	360	137033m	268.6286 ng
Corrected Values:				136510	267.7095 ng
129) Cl7(178)		26.93tw	394	6263m	20.7670 ng
130) Cl6(158)		26.98	360	52038m	97.0853 ng
131) Cl7(175)		27.12	394	1409m	5.1160 ng
132) Cl7(187)		27.21	394	41667m	115.5633 ng
133) Cl6(166)-S1	(0.265)	27.38t	357	1756	No Calib
134) Cl6(166)		27.38t	360	5056m	10.9212 ng
Corrected Values:				4591	9.9786 ng
135) Cl7(183)		27.38t	394	15871m	46.8639 ng
136) Cl5(126)		27.52	326	3809m	7.6998 ng
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.69	360	42011m	115.9254 ng
Corrected Values:				42011	115.9254 ng
139) Cl7(185)		27.71	394	2011m	7.4314 ng
140) Cl7(174)		27.82	394	14332m	47.1023 ng
141) Cl6(167)		27.92	360	35189m	70.8571 ng
142) Cl8(202)		28.00	428	2530m	7.7202 ng
143) Cl7(177)		28.10	394	10003m	34.9496 ng
144) Cl8(201)		28.23t	428	1092m	4.0530 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.23t	394	7303m	23.8179 ng
Corrected Values:				7303	23.8179 ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		28.43	428	363m	1.6192 ng
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.53	360	45227m	92.3804 ng
Corrected Values:				45227	92.3804 ng
151) Cl7(172)		28.57	394	3974m	14.2273 ng
152) Cl6(157)		28.63	360	9740m	21.4235 ng
153) Cl7(180)		28.77	394	51489m	145.9432 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.80	394	3123m	8.3704 ng
Corrected Values:				3123	8.3704 ng
156) Cl8(200)		28.84	428	1053m	3.5368 ng
157) Cl7(191)		28.93	394	1875m	5.0720 ng
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		29.48	394	25680m	87.8526 ng
Corrected Values:				25680	87.8526 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.53	428	5985m	25.2541 ng
162) Cl7(190)		29.59	394	7628m	19.1507 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.71	428	8110m	30.1404 ng
166) Cl9(208)		30.21	464	1564m	5.2879 ng
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		30.41tw	464	686m	2.8944 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9236.D MF0782.M Mon Mar 02 14:13:29 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9236.D

Vial: 56

Acq On : 20 Feb 2015 7:05 am

Operator: RR/BL

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Sample : L0139-P(2)

Inst : Inst. F

Misc : S-14N-SO9-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 16:19:57 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 16:19:50 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.42tw	428	2185m	9.1436 ng
Corrected Values:				2185	9.1436 ng
171) Cl8(194)		30.91	428	6450m	26.5194 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.57	464	3412m	15.2309 ng
174) Cl10(209)		32.07	498	1150m	4.0964 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9236.D MF0782.M Mon Mar 02 14:13:30 2015

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Page 5

G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9237.D

Vial: 57

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Acq On : 20 Feb 2015 7:53 am

Operator: RR/BL

Sample : L0145-P(2)

Inst : Inst. F

Misc : S-14N-LBB16-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 16:40:18 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 16:40:10 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	58317m	95.0000	ng
78) Cl6(161)	25.73	360	45569m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.30t	255	961m	0.0000	ng
27) Cl3(34)	15.29tw	256	279995m	381.0791	ng
Spiked Amount	379.8670			Recovery	= 100.27%
Corrected Values:			279865	380.9033	ng
114) Cl6(152)	22.42	360	185839m	364.1136	ng
Spiked Amount	381.3865			Recovery	= 95.47%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	31035m	15.5064	ng
3) Cl1(1)		9.94	188	16668m	11.3017	ng
4) Cl1(3)		11.13	188	11190m	8.1305	ng
5) Cl2(4)		11.42	222	47187m	65.9194	ng
6) Cl2(7)		12.31	222	5719m	6.0918	ng
7) Cl2(9)		12.26	222	8908m	7.5537	ng
8) Cl2(6)		12.54	222	198388m	171.4718	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.84	222	218464m	178.1983	ng
11) Cl3(19)		13.30	256	18759m	39.5652	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		14.15t	221	117089	No Calib	
14) Cl2(11)		14.14tw	222	57321m	53.1416	ng
Corrected Values:				41514	38.5963	ng
15) Cl3(18)		14.15t	256	236848m	437.3916	ng
16) Cl3(17)		14.27	256	117018m	215.5703	ng
17) Cl2(12)		14.35	222	694m	1.1176	ng
18) Cl2(13)-S1 (0.135)		14.50t	221	3248	No Calib	
19) Cl2(13)		14.49tw	222	163986m	160.7496	ng
Corrected Values:				163548	160.3152	ng
20) Cl3(27)		14.50t	256	73558m	96.4377	ng
21) Cl3(24)		0.00	256	0	N.D. d	
22) Cl3(16)		14.83	256	11140m	27.1206	ng
23) Cl2(15)		14.89	222	184069m	157.1703	ng
24) Cl3(32)		14.96	256	132373m	175.8695	ng
25) Cl4(54)		15.30t	292	2673m	3.7097	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		15.82tw	255	1773	No Calib	
30) Cl3(26)		15.83tw	256e	655841m	813.3488	ng
Corrected Values:				655602	813.0538	ng
31) Cl4(50)		15.88	292	1700m	3.9449	ng
32) Cl3(25)		15.96	256e	424804m	543.4653	ng
33) Cl3(31)-S1 (0.135)		16.32tw	255	30163	No Calib	
34) Cl3(31)		16.30	256e	728802m	896.5415	ng
Corrected Values:				724730	891.6040	ng
35) Cl4(53)		16.33tw	292	85164m	161.4229	ng
36) Cl3(28)		16.41	256E	738593m	944.7551	ng
37) Cl3(33)		16.52	256	63345m	87.5731	ng
38) Cl4(51)		16.59	292	40986m	75.7130	ng

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9237.D MF0782.M Mon Mar 02 14:13:59 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9237.D

Vial: 57

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Acq On : 20 Feb 2015 7:53 am

Operator: RR/BL

Sample : L0145-P(2)

Inst : Inst. F

Misc : S-14N-LBB16-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 16:40:18 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 16:40:10 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	14806m	33.3574 ng
40) Cl3(22)		17.00	256	72641m	101.5837 ng
41) Cl4(46)		17.18	292	13070m	32.2856 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.63	292E	676216m	1244.3420 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.84	292E	641266m	1330.1152 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	18.03t	289	248	No Calib
48) Cl4(47)		18.03t	292	212135m	348.9609 ng
Corrected Values:				212092	348.8893 ng
49) Cl4(75)		18.10	292	14110m	20.1523 ng
50) Cl4(44)		18.47	292	141912m	297.9489 ng
51) Cl4(42)		18.67	292	100565m	215.5571 ng
52) Cl4(71)		18.90	292	143004m	214.7682 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.29	292	147960m	211.1732 ng
55) Cl4(40)		19.41	292	30432m	80.1317 ng
56) Cl3(37)-S1	(0.135)	19.37tw	255	7148	No Calib
57) Cl3(37)		19.36tw	256	77198m	105.8033 ng
Corrected Values:				76233	104.4868 ng
58) Cl5(100)		19.73	326	10365m	22.1008 ng
59) Cl4(67)		20.02	292	40993m	61.2693 ng
60) Cl4(63)		20.42	292	11091m	17.8599 ng
61) Cl5(95)		20.56	326	175585m	409.0273 ng
62) Cl4(74)		20.63	292	110822m	155.1312 ng
63) Cl4(70)		20.76	292	104574m	149.9075 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.93t	326	102167m	216.1818 ng
Corrected Values:				102167	216.1818 ng
66) Cl4(66)-S1	(0.174)	20.93t	289	23238	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.96	292	143914m	212.0801 ng
Corrected Values:				139871	206.2091 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		21.26	292	5996m	9.8970 ng
71) Cl5(92)		21.56T	326	50807m	118.3837 ng
72) Cl5(84)		21.56T	326	45660m	129.9891 ng
73) Cl4(56)-S1	(0.174)	21.57tw	289	30740	No Calib
74) Cl4(56)		21.61	292	43810m	65.7699 ng
Corrected Values:				38461	57.8605 ng
75) Cl4(60)-S1	(0.174)	21.85tw	289	24926	No Calib
76) Cl4(60)		21.87tw	292	26188m	40.5868 ng
Corrected Values:				21851	33.9954 ng
77) Cl5(101)		21.86tw	326	183757m	363.1826 ng
79) Cl5(99)		22.13	326	184663m	350.9738 ng
80) Cl5(83)		22.51	326	47884m	131.9275 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.81	326	54237m	129.4904 ng
83) Cl5(87)		23.27	326	21190m	52.3040 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9237.D MF0782.M Mon Mar 02 14:13:59 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9237.D

Vial: 57

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Acq On : 20 Feb 2015 7:53 am

Operator: RR/BL

Sample : L0145-P(2)

Inst : Inst. F

Misc : S-14N-LBB16-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 16:40:18 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 16:40:10 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	28717m	60.3199 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.54	360	10302m	24.0455 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.52	326	17146m	43.2338 ng
Corrected Values:				17146	43.2338 ng
89) Cl5(110)		23.79	326e	365120m	549.6031 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.22tw	323	4600	No Calib
92) Cl5(82)		24.23t	326	6160m	17.4099 ng
Corrected Values:				5148	14.6585 ng
93) Cl6(151)		24.23t	360	21880m	59.0357 ng
94) Cl6(135)		24.33	360	18849m	52.7009 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.42	292	21736m	36.9954 ng
Corrected Values:				21736	36.9954 ng
97) Cl6(144)		24.46	360	2283m	6.9459 ng
98) Cl6(149)		24.69	360	174251m	397.5103 ng
99) Cl6(139)		24.81	360	3286m	8.9263 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.85	326	7017m	12.2056 ng
Corrected Values:				7017	12.2056 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.07	326	20954m	37.3163 ng
104) Cl6(134)		25.15	360	8971m	29.4413 ng
105) Cl7(188)		25.26	394	476m	1.9780 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.29	326	217171m	341.8009 ng
Corrected Values:				217171	341.8009 ng
109) Cl6(131)		25.37	360	4837m	14.9555 ng
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		25.63	360	23884m	57.3797 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.66	326	3416m	6.8007 ng
Corrected Values:				3416	6.8007 ng
115) Cl6(153)		25.89	360	185673m	394.3612 ng
116) Cl7(179)		26.12	394	6494m	16.5182 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.23	326	32679m	59.9001 ng
Corrected Values:				32679	59.9001 ng
119) Cl6(141)		26.28	360	6893m	20.3590 ng
120) Cl7(176)		26.38	394	1193m	3.4871 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.50	360	4838m	14.2220 ng
124) Cl6(130)		26.63	360	4988m	15.0859 ng
125) Cl6(164)		26.69	360	12321m	26.4870 ng
126) Cl6(138)		26.82	360	55750m	129.3886 ng
127) Cl6(163)-S1	(0.265)	26.92t	357	1048	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9237.D MF0782.M Mon Mar 02 14:14:00 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9237.D

Acq On : 20 Feb 2015 7:53 am

Sample : L0145-P(2)

Misc : S-14N-LBB16-00-05 5-315 15-0039

MS Integration Params: rteint.p

Vial: 57

Operator: RR/BL

Inst : Inst. F

Multiplr: 1.00

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Quant Time: Feb 25 16:40:18 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 16:40:10 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	
128) Cl6(163)		26.87	360	55417m	119.5797 ng	
Corrected Values:				55139	119.0119 ng	
129) Cl7(178)		26.92t	394	2780m	10.1336 ng	
130) Cl6(158)		26.97	360	18378m	36.2901 ng	
131) Cl7(175)		27.10	394	640m	2.8442 ng	
132) Cl7(187)		27.19	394	18507m	54.1302 ng	
133) Cl6(166)-S1	(0.265)	27.36t	357	753	No Calib	
134) Cl6(166)		27.36t	360	1661m	4.1293 ng	
Corrected Values:				1461	3.7107 ng	
135) Cl7(183)		27.36t	394	5958m	18.7718 ng	
136) Cl5(126)		27.52	326	1823m	3.9782 ng	
137) Cl6(128)-S1	(0.265)	27.67tw	357	1161	No Calib	
138) Cl6(128)		27.68tw	360	15901m	46.3293 ng	
Corrected Values:				15593	45.4546 ng	
139) Cl7(185)		27.70	394	609m	2.9325 ng	
140) Cl7(174)		27.82	394	4798m	16.8968 ng	
141) Cl6(167)		27.90	360	12371m	26.3530 ng	
142) Cl8(202)		27.99	428	1268m	4.2235 ng	
143) Cl7(177)		28.08	394	3865m	14.1753 ng	
144) Cl8(201)		28.20tw	428	643m	2.8674 ng	
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.	
146) Cl7(171)		28.21tw	394	2649m	9.3250 ng	
Corrected Values:				2649	9.3250 ng	
147) Cl7(173)		0.00	394	0	N.D. d	
148) Cl8(197)		0.00	428	0	N.D. d	
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d	
150) Cl6(156)		28.52	360	13907m	30.1871 ng	
Corrected Values:				13907	30.1871 ng	
151) Cl7(172)		28.56	394	1741m	6.9977 ng	
152) Cl6(157)		28.61	360	3130m	7.5778 ng	
153) Cl7(180)		28.75	394	18924m	57.0909 ng	
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.	
155) Cl7(193)		28.80	394	1047m	3.2459 ng	
Corrected Values:				1047	3.2459 ng	
156) Cl8(200)		28.83	428	338	1.4851 ng	#
157) Cl7(191)		28.92	394	889m	2.8503 ng	
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d	
159) Cl7(170)		29.46	394	9057m	32.5081 ng	
Corrected Values:				9057	32.5081 ng	
160) Cl8(198)		0.00	428	0	N.D.	
161) Cl8(199)		29.52	428	2555m	11.8205 ng	
162) Cl7(190)		29.58	394	3285m	8.6933 ng	
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d	
164) Cl6(169)		0.00	360	0	N.D. d	
Corrected Values:				0	ng	
165) Cl8(203)		29.70	428	3251m	12.8087 ng	
166) Cl9(208)		30.20	464	701m	2.5236 ng	
167) Cl7(189)		30.34	394	1181m	3.3487 ng	
168) Cl9(207)		30.40	464	269	1.6729 ng	#
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9237.D MF0782.M Mon Mar 02 14:14:00 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9237.D

Vial: 57

Acq On : 20 Feb 2015 7:53 am

Operator: RR/BL

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Sample : L0145-P(2)

Inst : Inst. F

Misc : S-14N-LBB16-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 25 16:40:18 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Wed Feb 25 16:40:10 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		30.90	428	2414m	10.5074 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.55	464	1383m	6.3618 ng
174) Cl10(209)		0.00	498	0	N.D. d

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9237.D MF0782.M Mon Mar 02 14:14:00 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9238.D

Vial: 58

Acq On : 20 Feb 2015 8:40 am

Operator: RR/BL

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Sample : L0145MS-P(0)

Inst : Inst. F

Misc : Matrix Spike of S-14N-LBB16-00-05 5-315

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 08:56:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 08:56:02 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	60618m	100.0000	ng
78) Cl6(161)	25.73	360	49892m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	3880m	0.0000	ng
27) Cl3(34)	15.29t	256	300373m	413.9089	ng
Spiked Amount	400.0000			Recovery	= 103.30%
Corrected Values:			299849	413.1917	ng
114) Cl6(152)	22.42	360	203326m	383.0277	ng
Spiked Amount	401.6000			Recovery	= 95.38%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		9.93	188	96785m	66.4770	ng
4) Cl1(3)		11.13	188	89467m	63.6381	ng
5) Cl2(4)		11.42	222	70846m	100.2329	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.83	222	183754m	151.4561	ng
11) Cl3(19)		13.30	256	42515m	90.2961	ng
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.15	256	181455m	338.0064	ng
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		14.89	222	148048m	128.1465	ng
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		15.30tw	292	43312m	59.6088	ng
28) Cl3(29)		0.00	256	0	N.D.	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.	d
30) Cl3(26)		0.00	256	0	N.D.	d
Corrected Values:				0	ng	
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		0.00	256	0	N.D.	d
33) Cl3(31)-S1 (0.135)		16.32	255	19086	No Calib	
34) Cl3(31)		16.29	256e	487399m	610.3962	ng
Corrected Values:				484822	607.2008	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.41	256e	489479m	632.7335	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

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(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9238.D MF0782.M Thu Mar 05 12:07:21 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9238.D

Vial: 58

Acq On : 20 Feb 2015 8:40 am

Operator: RR/BL

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Sample : L0145MS-P(0)

Inst : Inst. F

Misc : Matrix Spike of S-14N-LBB16-00-05 5-315

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 08:56:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 08:56:02 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.63	292E	451564m	878.6406 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.84	292e	428050m	899.5336 ng
46) Cl5(104)		18.02	326	38521m	62.0892 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.47	292	115566m	247.1434 ng
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	19.36tw	255	3923	No Calib
57) Cl3(37)		19.35tw	256	85998m	119.3233 ng
Corrected Values:				85468	118.5907 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		20.62	292	115755m	164.0812 ng
63) Cl4(70)		20.76	292	115469m	167.4924 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	20.92	289	15173	No Calib
67) Cl4(66)-S2	(0.650)	20.99tw	288	17086	No Calib
68) Cl4(66)		20.95	292	150110m	224.0031 ng
Corrected Values:				136364	203.7761 ng
69) Cl6(155)		21.00tw	360	38892m	67.4683 ng
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D.
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.86	326	158765m	318.9499 ng
79) Cl5(99)		22.12	326	158194m	294.2943 ng
80) Cl5(83)		22.51	326	56371m	148.8885 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		23.26	326	42790m	99.8077 ng

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9238.D MF0782.M Thu Mar 05 12:07:21 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9238.D

Vial: 58

Acq On : 20 Feb 2015 8:40 am

Operator: RR/BL

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Sample : L0145MS-P(0)

Inst : Inst. F

Misc : Matrix Spike of S-14N-LBB16-00-05 5-315

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 08:56:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 08:56:02 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.78	326	271963m	407.7101 ng
90) Cl4(81)		23.88	292	45908m	71.3304 ng
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		24.23	360	38872m	99.4951 ng
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.42	292	57602m	91.8349 ng
Corrected Values:				57602	91.8349 ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.69	360	136743m	310.2756 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.06	326	54808m	91.3948 ng
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		25.25t	394	28495m	62.3757 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	25.25t	322	10371	No Calib
108) Cl5(118)		25.28	326	212938m	324.9915 ng
Corrected Values:				201737	309.1163 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.66	326	42077m	68.4753 ng
Corrected Values:				42077	68.4753 ng
115) Cl6(153)		25.89	360	154312m	323.2198 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.23	326	66746m	115.4562 ng
Corrected Values:				66746	115.4562 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D. d
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.82	360	69701m	154.9563 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9238.D MF0782.M Thu Mar 05 12:07:22 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9238.D

Vial: 58

Acq On : 20 Feb 2015 8:40 am

Operator: RR/BL

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Sample : L0145MS-P(0)

Inst : Inst. F

Misc : Matrix Spike of S-14N-LBB16-00-05 5-315

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 08:56:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 08:56:02 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D.
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		26.97	360	48055m	89.1435 ng
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		27.18	394	34459m	95.4367 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		27.36	394	28431m	81.7746 ng
136) Cl5(126)		27.52	326	40675m	76.1195 ng
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.67	360	35749m	98.2841 ng
Corrected Values:				35749	98.2841 ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		27.90	360	41401m	82.2252 ng
142) Cl8(202)		27.98	428	21848m	61.6531 ng
143) Cl7(177)		28.08	394	21564m	73.4279 ng
144) Cl8(201)		28.21	428	21669m	59.7915 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.52	360	44798m	90.8000 ng
Corrected Values:				44798	90.8000 ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		28.61	360	35492m	74.3177 ng
153) Cl7(180)		28.75	394	34574m	98.8293 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		29.46	394	27898m	94.3971 ng
Corrected Values:				27898	94.3971 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	29.69t	356	8324	No Calib
164) Cl6(169)		29.65	360	44228m	99.7961 ng
Corrected Values:				30826	70.5561 ng
165) Cl8(203)		29.69t	428	19597m	70.5057 ng
166) Cl9(208)		30.20	464	19425m	62.3519 ng
167) Cl7(189)		30.33	394	25883m	65.6591 ng
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9238.D MF0782.M Thu Mar 05 12:07:22 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9238.D

Vial: 58

Acq On : 20 Feb 2015 8:40 am

Operator: RR/BL

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Sample : L0145MS-P(0)

Inst : Inst. F

Misc : Matrix Spike of S-14N-LBB16-00-05 5-315

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 08:56:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 08:56:02 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40	428	15835m	63.2835 ng
Corrected Values:				15835	63.2835 ng
171) Cl8(194)		30.90	428	17037m	67.9229 ng
172) Cl8(205)		31.04	428	20078m	62.6413 ng
173) Cl9(206)		31.55	464	15405m	67.1513 ng
174) Cl10(209)		32.06	498	13565m	54.5322 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9238.D MF0782.M Thu Mar 05 12:07:23 2015

040221CFS

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Data File : G:\F\DATA\SF0782\F9239.D

Vial: 59

Acq On : 20 Feb 2015 9:28 am

Operator: RR/BL

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Sample : L0145MSD-P(0)

Inst : Inst. F

Misc : Matrix Spike Duplicate of S-14N-LBB16-00 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 09:29:17 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 09:29:12 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	60784m	100.0000	ng
78) Cl6(161)	25.73t	360	53383m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	15.29tw	255	232m	0.0000	ng
27) Cl3(34)		15.28tw	256	7685m	10.9534	ng
Spiked Amount	400.0000			Recovery	=	2.73%
Corrected Values:				7654	10.9106	ng
114) Cl6(152)		22.41	360	6470m	12.4244	ng
Spiked Amount	401.6000			Recovery	=	3.09%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		9.94	188	5163m	3.5500	ng
4) Cl1(3)		11.13	188	4349m	3.4117	ng
5) Cl2(4)		11.42	222	4731m	6.8645	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.83	222	9053m	7.7653	ng
11) Cl3(19)		13.30	256	2613m	5.9926	ng
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.15	256	6943m	13.5835	ng
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		14.88	222	8579m	7.9637	ng
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		15.30tw	292	2654m	3.7254	ng
28) Cl3(29)		0.00	256	0	N.D.	
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	
30) Cl3(26)		0.00	256	0	N.D.	d
Corrected Values:				0	ng	
31) Cl4(50)		0.00	292	0	N.D.	
32) Cl3(25)		0.00	256	0	N.D.	d
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		16.29	256	14157m	18.3854	ng
Corrected Values:				14157	18.3854	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.40	256	15627m	20.6982	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9239.D MF0782.M Mon Mar 02 14:14:22 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9239.D

Vial: 59

Acq On : 20 Feb 2015 9:28 am

Operator: RR/BL

293 of 381

Sample : L0145MSD-P(0)

Inst : Inst. F

Misc : Matrix Spike Duplicate of S-14N-LBB16-00 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 09:29:17 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 09:29:12 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.62	292	11792m	24.9713 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.83	292	11815m	24.9827 ng
46) Cl5(104)		18.02	326	1047m	1.4321 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		0.00	292	0	N.D. d
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.47	292	4798m	10.9162 ng
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		19.35	256	4603m	7.2125 ng
Corrected Values:				4603	7.2125 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		20.62	292	2863m	4.8596 ng
63) Cl4(70)		20.75	292	3113m	5.1943 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	20.93	289	569	No Calib
67) Cl4(66)-S2	(0.650)	20.98	288	195	No Calib
68) Cl4(66)		20.95	292	4514m	7.5783 ng
Corrected Values:				4288	7.2395 ng
69) Cl6(155)		21.00	360	569m	2.0360 ng
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D. d
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.85	326	3151m	7.1514 ng
79) Cl5(99)		22.11	326	3364m	6.7300 ng
80) Cl5(83)		22.51	326	2116m	5.9533 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		23.26	326	1494m	3.7120 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9239.D MF0782.M Mon Mar 02 14:14:23 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9239.D

Vial: 59

Acq On : 20 Feb 2015 9:28 am

Operator: RR/BL

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Sample : L0145MSD-P(0)

Inst : Inst. F

Misc : Matrix Spike Duplicate of S-14N-LBB16-00 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 09:29:17 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 09:29:12 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.78	326	12625m	19.6457 ng
90) Cl4(81)		23.88	292	2271m	4.3228 ng
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		24.23	360	1001m	3.4676 ng
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		24.42	292	3558m	6.0437 ng
Corrected Values:				3558	6.0437 ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		24.68	360	3722m	8.9232 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D.
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		25.06	326	1527m	3.2055 ng
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		25.25	394	540m	2.0463 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D.
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.28	326	5178m	8.4502 ng
Corrected Values:				5178	8.4502 ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	25.73t	323	670	No Calib
113) Cl5(114)		25.66	326	1335m	3.1233 ng
Corrected Values:				1188	2.9007 ng
115) Cl6(153)		25.88	360	3311m	7.5052 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		26.23	326	2864m	5.0661 ng
Corrected Values:				2864	5.0661 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.81	360	1850m	4.7267 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9239.D MF0782.M Mon Mar 02 14:14:23 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9239.D

Vial: 59

Acq On : 20 Feb 2015 9:28 am

Operator: RR/BL

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Sample : L0145MSD-P(0)

Inst : Inst. F

Misc : Matrix Spike Duplicate of S-14N-LBB16-00 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 09:29:17 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 09:29:12 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		26.96	360	1694m	3.4955 ng
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		27.17	394	726m	2.4273 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		27.35	394	628m	2.6008 ng
136) Cl5(126)		27.51	326	3057m	5.8302 ng
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		27.67	360	2058m	6.0894 ng
Corrected Values:				2058	6.0894 ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		27.89	360	923m	2.1832 ng
142) Cl8(202)		27.98	428	509m	1.8642 ng
143) Cl7(177)		28.08	394	1044m	3.6989 ng
144) Cl8(201)		28.20	428	451m	2.2475 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D.
150) Cl6(156)		28.51	360	1378m	3.0071 ng
Corrected Values:				1378	3.0071 ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		28.61	360	1235m	3.1699 ng
153) Cl7(180)		28.75	394	686m	2.1552 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		29.45	394	1010m	3.3615 ng
Corrected Values:				1010	3.3615 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D.
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		29.65	360	2630m	6.9545 ng
Corrected Values:				2630	6.9545 ng
165) Cl8(203)		29.69	428	380m	1.8309 ng
166) Cl9(208)		30.19	464	426m	1.4557 ng
167) Cl7(189)		30.33	394	590m	1.6037 ng
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9239.D MF0782.M Mon Mar 02 14:14:24 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9239.D

Vial: 59

Acq On : 20 Feb 2015 9:28 am

Operator: RR/BL

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Sample : L0145MSD-P(0)

Inst : Inst. F

Misc : Matrix Spike Duplicate of S-14N-LBB16-00 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 09:29:17 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 09:29:12 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40	428	539m	2.3111 ng
Corrected Values:				539	2.3111 ng
171) Cl8(194)		30.89	428	401m	1.9265 ng
172) Cl8(205)		31.05	428	475m	1.3947 ng
173) Cl9(206)		31.55	464	341m	1.3976 ng
174) Cl10(209)		32.06	498	272m	0.3249 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9239.D MF0782.M Mon Mar 02 14:14:24 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9241.D

Vial: 61

Acq On : 20 Feb 2015 11:04 am

Operator: RR/BL

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Sample : L0031-P-D(4)

Inst : Inst. F

Misc : S-14N-RN06-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:29:43 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Feb 16 09:23:51 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	66882m	95.0000	ng
78) Cl6(161)	25.73	360	54051m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	420m	0.0000	ng
27) Cl3(34)	15.29t	256	161365m	192.2039	ng
Spiked Amount	189.9967			Recovery	= 101.13%
Corrected Values:			161308	192.1363	ng
114) Cl6(152)	22.41	360	103959m	178.8913	ng
Spiked Amount	190.7567			Recovery	= 93.78%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	9467m	4.1468	ng
3) Cl1(1)		9.93	188	4709m	2.7990	ng
4) Cl1(3)		11.13	188	2086m	1.6017	ng
5) Cl2(4)		11.42	222	60674m	73.9017	ng
6) Cl2(7)		12.31	222	5893m	5.5442	ng
7) Cl2(9)		12.26	222	11793m	8.6445	ng
8) Cl2(6)		12.54	222	303555m	229.4955	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.83	222	243033m	172.7905	ng
11) Cl3(19)		13.30	256	13703m	25.3651	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		14.14tw	221	110956	No Calib	
14) Cl2(11)		14.13tw	222	50182m	40.6588	ng
Corrected Values:				35203	28.6426	ng
15) Cl3(18)		14.15tw	256	225307m	361.8465	ng
16) Cl3(17)		14.27	256	109487m	175.5258	ng
17) Cl2(12)		14.35	222	715m	1.0511	ng
18) Cl2(13)-S1 (0.135)		14.50t	221	2237	No Calib	
19) Cl2(13)		14.49tw	222	119030m	101.4283	ng
Corrected Values:				118728	101.1705	ng
20) Cl3(27)		14.50t	256	43336m	49.6968	ng
21) Cl3(24)		14.62	256	2331m	3.1682	ng
22) Cl3(16)		14.83	256	17194m	36.3208	ng
23) Cl2(15)		14.88	222	92127m	68.9037	ng
24) Cl3(32)		14.95	256	74655m	86.6428	ng
25) Cl4(54)		15.29t	292	1167m	1.4828	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		15.83t	255	1215	No Calib	
30) Cl3(26)		15.83t	256e	491735m	532.6306	ng
Corrected Values:				491571	532.4536	ng
31) Cl4(50)		15.88	292	923m	2.2480	ng
32) Cl3(25)		15.95	256	292123m	332.7275	ng
33) Cl3(31)-S1 (0.135)		16.32t	255	11470	No Calib	
34) Cl3(31)		16.29	256e	512709m	553.1158	ng
Corrected Values:				511161	551.4617	ng
35) Cl4(53)		16.32t	292	30199m	49.8086	ng
36) Cl3(28)		16.40	256e	461915m	513.8927	ng
37) Cl3(33)		16.52	256	55347m	66.8508	ng
38) Cl4(51)		16.59	292	14865m	24.3667	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9241.D MF0782.M Mon Mar 02 14:22:37 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9241.D
 Acq On : 20 Feb 2015 11:04 am
 Sample : L0031-P-D(4)
 Misc : S-14N-RN06-00-05 5-315 15-0039
 MS Integration Params: rteint.p

Vial: 61
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 26 10:29:43 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Feb 16 09:23:51 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	17964m	35.2559 ng
40) Cl3(22)		17.00	256	79749m	97.2886 ng
41) Cl4(46)		17.18	292	8273m	18.1239 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.62	292e	409633m	696.6447 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.84	292e	403442m	730.0971 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.03	292	120856m	172.5121 ng
Corrected Values:				120856	172.5121 ng
49) Cl4(75)		18.10	292	8087m	10.3569 ng
50) Cl4(44)		18.47	292	116814m	215.4896 ng
51) Cl4(42)		18.67	292	88116m	165.1458 ng
52) Cl4(71)		18.90	292	58669m	77.1947 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.29	292	138246m	171.8883 ng
55) Cl4(40)		19.39	292	9836m	22.9317 ng
56) Cl3(37)-S1	(0.135)	19.36tw	255	7183	No Calib
57) Cl3(37)		19.35tw	256	35875m	43.2971 ng
Corrected Values:				34905	42.1483 ng
58) Cl5(100)		19.72	326	5095m	9.8123 ng
59) Cl4(67)		20.01	292	28582m	37.6400 ng
60) Cl4(63)		20.41	292	8110m	11.6343 ng
61) Cl5(95)		20.55	326	122527m	251.6732 ng
62) Cl4(74)		20.61	292	73735m	90.5648 ng
63) Cl4(70)		20.76	292	75847m	95.3381 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.92t	326	75246m	139.1863 ng
Corrected Values:				75246	139.1863 ng
66) Cl4(66)-S1	(0.174)	20.92t	289	16821	No Calib
67) Cl4(66)-S2	(0.650)	20.93tw	288	1427	No Calib
68) Cl4(66)		20.95	292	87678m	113.6239 ng
Corrected Values:				83823	108.6910 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		21.26	292	2734m	4.4237 ng
71) Cl5(92)		21.56T	326	37827m	76.9016 ng
72) Cl5(84)		21.56T	326	25447m	60.9046 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	20236	No Calib
74) Cl4(56)		21.61	292	34777m	45.8226 ng
Corrected Values:				31256	41.2794 ng
75) Cl4(60)-S1	(0.174)	21.84tw	289	16159	No Calib
76) Cl4(60)		21.86tw	292	17365m	23.7952 ng
Corrected Values:				14553	20.0670 ng
77) Cl5(101)		21.85tw	326	124569m	216.7126 ng
79) Cl5(99)		22.12	326	104951m	175.9046 ng
80) Cl5(83)		22.51	326	25143m	59.8718 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.80	326	37452m	76.5547 ng
83) Cl5(87)		23.26	326	8407m	17.9301 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9241.D MF0782.M Mon Mar 02 14:22:37 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9241.D

Vial: 61

Acq On : 20 Feb 2015 11:04 am

Operator: RR/BL

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Sample : L0031-P-D(4)

Inst : Inst. F

Misc : S-14N-RN06-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:29:43 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Feb 16 09:23:51 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	16003m	28.4998 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.53tw	360	4662m	9.7556 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.52tw	326	6473m	13.4209 ng
Corrected Values:				6473	13.4209 ng
89) Cl5(110)		23.78	326	230367m	308.2625 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.21tw	323	2868	No Calib
92) Cl5(82)		24.22t	326	3392m	8.4246 ng
Corrected Values:				2761	6.9729 ng
93) Cl6(151)		24.22t	360	12853m	29.9085 ng
94) Cl6(135)		24.32	360	10463m	25.1081 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.42	292	8919m	13.2926 ng
Corrected Values:				8919	13.2926 ng
97) Cl6(144)		24.46	360	1261m	3.7533 ng
98) Cl6(149)		24.68	360	96300m	198.0796 ng
99) Cl6(139)		24.80	360	1791m	4.3282 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.85	326	4177m	6.6003 ng
Corrected Values:				4177	6.6003 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.06	326	11585m	17.8929 ng
104) Cl6(134)		25.15	360	5168m	14.8735 ng
105) Cl7(188)		25.25	394	231m	1.3414 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.28	326	110404m	154.0910 ng
Corrected Values:				110404	154.0910 ng
109) Cl6(131)		25.36	360	1723m	5.4046 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.62	360	12295m	25.7652 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.66	326	2785m	5.0028 ng
Corrected Values:				2785	5.0028 ng
115) Cl6(153)		25.88	360	88094m	168.7795 ng
116) Cl7(179)		26.11	394	3359m	7.6085 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.23	326	12941m	20.4437 ng
Corrected Values:				12941	20.4437 ng
119) Cl6(141)		26.27	360	3591m	9.5684 ng
120) Cl7(176)		26.38	394	665m	1.8892 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.49	360	3000m	7.9620 ng
124) Cl6(130)		26.63	360	2712m	7.4554 ng
125) Cl6(164)		26.69	360	6560m	12.2448 ng
126) Cl6(138)		26.82	360	23348m	46.8127 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9241.D MF0782.M Mon Mar 02 14:22:37 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9241.D

Vial: 61

Acq On : 20 Feb 2015 11:04 am

Operator: RR/BL

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Sample : L0031-P-D(4)

Inst : Inst. F

Misc : S-14N-RN06-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:29:43 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Feb 16 09:23:51 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	30850m	57.8767 ng
Corrected Values:				30850	57.8767 ng
129) Cl7(178)		26.91	394	1417m	5.0190 ng
130) Cl6(158)		26.96	360	10158m	17.2669 ng
131) Cl7(175)		27.10	394	280m	1.5842 ng
132) Cl7(187)		27.18	394	9086m	22.9096 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		27.36tw	360	959m	2.3447 ng
Corrected Values:				959	2.3447 ng
135) Cl7(183)		27.35tw	394	3350m	9.3686 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.67	360	6654m	16.9071 ng
Corrected Values:				6654	16.9071 ng
139) Cl7(185)		27.70	394	396m	2.0107 ng
140) Cl7(174)		27.81	394	2787m	8.6984 ng
141) Cl6(167)		27.90	360	5476m	10.1515 ng
142) Cl8(202)		27.98	428	582m	1.9364 ng
143) Cl7(177)		28.08	394	1732m	5.5595 ng
144) Cl8(201)		28.21t	428	273m	1.6956 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.21t	394	1374m	4.4470 ng
Corrected Values:				1374	4.4470 ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.51	360	7339m	13.6875 ng
Corrected Values:				7339	13.6875 ng
151) Cl7(172)		28.54	394	907m	3.6563 ng
152) Cl6(157)		28.60	360	1426m	3.3375 ng
153) Cl7(180)		28.75	394	9643m	24.9497 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.80	394	618m	1.8861 ng
Corrected Values:				618	1.8861 ng
156) Cl8(200)		28.83	428	310m	1.2554 ng
157) Cl7(191)		28.92	394	472m	1.6793 ng
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		29.45	394	4511m	13.7772 ng
Corrected Values:				4511	13.7772 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.51	428	1248m	5.5956 ng
162) Cl7(190)		29.57	394	1653m	3.8755 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.69	428	1619m	5.6848 ng
166) Cl9(208)		30.19	464	380m	1.2365 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		30.39tw	464	149m	1.2321 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9241.D MF0782.M Mon Mar 02 14:22:38 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9241.D

Vial: 61

Acq On : 20 Feb 2015 11:04 am

Operator: RR/BL

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Sample : L0031-P-D(4)

Inst : Inst. F

Misc : S-14N-RN06-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:29:43 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Feb 16 09:23:51 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	481m	1.9671 ng
Corrected Values:				481	1.9671 ng
171) Cl8(194)		30.89	428	1830m	6.8642 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9241.D MF0782.M Mon Mar 02 14:22:38 2015

040221CFS

Page 5

G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9242.D

Vial: 62

Acq On : 20 Feb 2015 11:52 am

Operator: RR/BL

302 of 381

Sample : L0031-P-D(5)

Inst : Inst. F

Misc : S-14N-RN06-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:29:50 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:29:43 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	66003m	100.0000	ng
78) Cl6(161)	25.73	360	55562m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	10.0000			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	10.0400			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		0.00	256	0	N.D.	d
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	
30) Cl3(26)		15.83	256	25556m	30.0447	ng
Corrected Values:				25556	30.0447	ng
31) Cl4(50)		0.00	292	0	N.D.	
32) Cl3(25)		0.00	256	0	N.D.	d
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		16.29	256	27187m	32.0761	ng
Corrected Values:				27187	32.0761	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.41	256	24201m	29.2418	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9242.D MF0782.M Mon Mar 02 14:22:47 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9242.D

Vial: 62

Acq On : 20 Feb 2015 11:52 am

Operator: RR/BL

303 of 381

Sample : L0031-P-D(5)

Inst : Inst. F

Misc : S-14N-RN06-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:29:50 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:29:43 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.62	292	22018m	42.9306 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.83	292	21419m	41.5673 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		0.00	292	0	N.D. d
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D.
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D.
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		0.00	326	0	N.D. d
79) Cl5(99)		0.00	326	0	N.D. d
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9242.D MF0782.M Mon Mar 02 14:22:47 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9242.D

Vial: 62

Acq On : 20 Feb 2015 11:52 am

Operator: RR/BL

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Sample : L0031-P-D(5)

Inst : Inst. F

Misc : S-14N-RN06-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:29:50 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:29:43 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		0.00	326	0	N.D. d
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		0.00	360	0	N.D. d
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D.
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D.
108) Cl5(118)		0.00	326	0	N.D. d
Corrected Values:				0	ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D.
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D. d
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9242.D MF0782.M Mon Mar 02 14:22:47 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9242.D

Vial: 62

Acq On : 20 Feb 2015 11:52 am

Operator: RR/BL

305 of 381

Sample : L0031-P-D(5)

Inst : Inst. F

Misc : S-14N-RN06-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:29:50 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:29:43 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9242.D MF0782.M Mon Mar 02 14:22:47 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9242.D

Vial: 62

Acq On : 20 Feb 2015 11:52 am

Operator: RR/BL

306 of 381

Sample : L0031-P-D(5)

Inst : Inst. F

Misc : S-14N-RN06-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:29:50 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:29:43 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D.
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9242.D MF0782.M Mon Mar 02 14:22:48 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9245.D

Vial: 65

Acq On : 20 Feb 2015 2:15 pm

Operator: RR/BL

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Sample : L0067-P-D(4)

Inst : Inst. F

Misc : S-14N-PV5-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:08 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	61623m	95.0000	ng
78) Cl6(161)	25.73	360	49581m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		11.42	222	38271m	50.6170	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.54	222	155982m	127.3409	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.83	222	130024m	99.9280	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.15	256	122176m	212.0429	ng
16) Cl3(17)		14.26	256	55247m	95.9221	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		14.49tw	222	56489m	52.4059	ng
Corrected Values:				56489	52.4059	ng
20) Cl3(27)		14.50tw	256	31707m	39.5966	ng
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		14.88	222	40791m	33.4039	ng
24) Cl3(32)		14.95	256	54368m	68.5599	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.83	256	217242m	255.9739	ng
Corrected Values:				217242	255.9739	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.95	256	140470m	176.4223	ng
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		16.29	256	245314m	288.6871	ng
Corrected Values:				245314	288.6871	ng
35) Cl4(53)		16.32	292	25254m	45.2527	ng
36) Cl3(28)		16.40	256	217342m	262.2721	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9245.D MF0782.M Mon Mar 02 14:22:51 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9245.D

Vial: 65

Acq On : 20 Feb 2015 2:15 pm

Operator: RR/BL

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Sample : L0067-P-D(4)

Inst : Inst. F

Misc : S-14N-PV5-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:08 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.62	292	180378m	346.1807 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.83	292	164962m	324.2205 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.02	292	51046m	79.2179 ng
Corrected Values:				51046	79.2179 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.46	292	39766m	80.8463 ng
51) Cl4(42)		18.67	292	25110m	51.8045 ng
52) Cl4(71)		18.90	292	37601m	53.8060 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.29	292	35272m	47.8616 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.55	326	38971m	88.3563 ng
62) Cl4(74)		20.61	292	17612m	24.1112 ng
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.92	326	22535m	45.8455 ng
Corrected Values:				22535	45.8455 ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.95	292	20257m	29.1988 ng
Corrected Values:				20257	29.1988 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.56	326	11489m	25.8746 ng
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.85	326	32660m	62.7082 ng
79) Cl5(99)		22.11	326	36008m	67.9291 ng
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9245.D MF0782.M Mon Mar 02 14:22:52 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9245.D

Vial: 65

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Acq On : 20 Feb 2015 2:15 pm

Operator: RR/BL

Sample : L0067-P-D(4)

Inst : Inst. F

Misc : S-14N-PV5-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:08 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D.
Corrected Values:				0	ng
89) Cl5(110)		23.77	326	66753m	102.3342 ng
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.68	360	32247m	75.6238 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.27	326	33946m	53.3650 ng
Corrected Values:				33946	53.3650 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.88	360	31091m	67.2402 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D. d
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9245.D MF0782.M Mon Mar 02 14:22:52 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9245.D

Vial: 65

Acq On : 20 Feb 2015 2:15 pm

Operator: RR/BL

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Sample : L0067-P-D(4)

Inst : Inst. F

Misc : S-14N-PV5-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:08 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9245.D MF0782.M Mon Mar 02 14:22:52 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9245.D

Vial: 65

Acq On : 20 Feb 2015 2:15 pm

Operator: RR/BL

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Sample : L0067-P-D(4)

Inst : Inst. F

Misc : S-14N-PV5-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:08 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9245.D MF0782.M Mon Mar 02 14:22:52 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9247.D

Vial: 67

312 of 381

Acq On : 20 Feb 2015 3:51 pm

Operator: RR/BL

Sample : L0075-P-D(4)

Inst : Inst. F

Misc : S-14N-RBB22-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:19 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:14 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	70177m	95.0000	ng
78) Cl6(161)	25.73	360	59263m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		0.00	256	0	N.D.	d
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	
22) Cl3(16)		0.00	256	0	N.D.	
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	
30) Cl3(26)		0.00	256	0	N.D.	d
Corrected Values:				0	ng	
31) Cl4(50)		0.00	292	0	N.D.	
32) Cl3(25)		0.00	256	0	N.D.	d
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		0.00	256	0	N.D.	d
Corrected Values:				0	ng	
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		0.00	256	0	N.D.	d
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9247.D MF0782.M Mon Mar 02 14:22:56 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9247.D

Vial: 67

Acq On : 20 Feb 2015 3:51 pm

Operator: RR/BL

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Sample : L0075-P-D(4)

Inst : Inst. F

Misc : S-14N-RBB22-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:19 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:14 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.62	292	19499m	33.9801 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.83	292	16666m	28.9526 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		0.00	292	0	N.D. d
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		0.00	326	0	N.D. d
79) Cl5(99)		0.00	326	0	N.D. d
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9247.D MF0782.M Mon Mar 02 14:22:56 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9247.D

Vial: 67

Acq On : 20 Feb 2015 3:51 pm

Operator: RR/BL

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Sample : L0075-P-D(4)

Inst : Inst. F

Misc : S-14N-RBB22-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:19 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:14 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		0.00	326	0	N.D. d
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		0.00	360	0	N.D. d
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		0.00	326	0	N.D. d
Corrected Values:				0	ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D. d
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D. d
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D. d
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9247.D MF0782.M Mon Mar 02 14:22:57 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9247.D

Vial: 67

Acq On : 20 Feb 2015 3:51 pm

Operator: RR/BL

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Sample : L0075-P-D(4)

Inst : Inst. F

Misc : S-14N-RBB22-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:19 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:14 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D.
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		0.00	360	0	N.D.
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D.
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D.
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D.
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D.
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D.
166) Cl9(208)		0.00	464	0	N.D.
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9247.D MF0782.M Mon Mar 02 14:22:57 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9247.D

Vial: 67

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Acq On : 20 Feb 2015 3:51 pm

Operator: RR/BL

Sample : L0075-P-D(4)

Inst : Inst. F

Misc : S-14N-RBB22-05-10 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:19 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:14 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D.
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9247.D MF0782.M Mon Mar 02 14:22:57 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9252.D

Vial: 72

Acq On : 20 Feb 2015 7:50 pm

Operator: RR/BL

317 of 381

Sample : L0109-P-D(4)

Inst : Inst. F

Misc : S-14N-OP10-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:44 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:37 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	63635m	95.0000	ng
78) Cl6(161)	25.73	360	45666m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29tw	255	826m	0.0000	ng
27) Cl3(34)	15.28tw	256	154497m	193.4076	ng
Spiked Amount	189.9967			Recovery	= 101.72%
Corrected Values:			154385	193.2681	ng
114) Cl6(152)	22.41	360	93390m	189.7452	ng
Spiked Amount	190.7567			Recovery	= 99.47%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	3507m	1.6375	ng
3) Cl1(1)		9.94	188	12262m	7.6252	ng
4) Cl1(3)		11.13	188	5495m	3.8424	ng
5) Cl2(4)		11.42	222	300624m	388.4642	ng
6) Cl2(7)		12.30	222	12886m	11.8400	ng
7) Cl2(9)		12.26	222	36498m	27.0077	ng
8) Cl2(6)		12.54	222e	908721m	747.1890	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.83	222e	806388m	623.8310	ng
11) Cl3(19)		13.30	256	80888m	155.2814	ng
12) Cl3(30)		13.69	256	805m	1.5221	ng
13) Cl2(11)-S1 (0.135)		14.14tw	221E	360702	No Calib	
14) Cl2(11)		14.13tw	222	135822m	114.9706	ng
Corrected Values:				87127	73.8745	ng
15) Cl3(18)		14.15tw	256E	732747m	1281.8075	ng
16) Cl3(17)		14.26	256e	324276m	559.0449	ng
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1 (0.135)		14.49t	221	7941	No Calib	
19) Cl2(13)		14.49t	222	289347m	262.2118	ng
Corrected Values:				288275	261.2157	ng
20) Cl3(27)		14.50tw	256	185990m	225.6503	ng
21) Cl3(24)		14.62	256	2058m	2.9667	ng
22) Cl3(16)		14.83	256	19197m	42.5351	ng
23) Cl2(15)		14.88	222	184037m	144.0564	ng
24) Cl3(32)		14.95	256e	366741m	446.6143	ng
25) Cl4(54)		15.30tw	292	6122m	7.6648	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		15.82t	255	3161	No Calib	
30) Cl3(26)		15.82t	256E	1203487m	1363.7610	ng
Corrected Values:				1203060	1363.2805	ng
31) Cl4(50)		15.87	292	2325m	4.7614	ng
32) Cl3(25)		15.95	256e	652001m	749.3384	ng
33) Cl3(31)-S1 (0.135)		16.32t	255	73571	No Calib	
34) Cl3(31)		16.29	256E	1050617m	1179.0411	ng
Corrected Values:				1040685	1168.0989	ng
35) Cl4(53)		16.32t	292	213270m	378.6045	ng
36) Cl3(28)		16.40	256E	955595m	1121.4725	ng
37) Cl3(33)		16.51	256	38098m	48.5285	ng
38) Cl4(51)		16.59	292	91755m	155.1815	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9252.D MF0782.M Mon Mar 02 14:23:03 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9252.D

Vial: 72

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Acq On : 20 Feb 2015 7:50 pm

Operator: RR/BL

Sample : L0109-P-D(4)

Inst : Inst. F

Misc : S-14N-OP10-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:44 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:37 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	24259m	49.8053 ng
40) Cl3(22)		17.00	256	77881m	99.8290 ng
41) Cl4(46)		17.18	292	46196m	103.2724 ng
42) Cl4(43)		17.50	292	7621m	17.0098 ng
43) Cl4(52)		17.62	292E	1072278m	1723.0585 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.83	292E	898667m	1707.6670 ng
46) Cl5(104)		18.02t	326	526m	0.5266 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.02t	292	262602m	396.5399 ng
Corrected Values:				262602	396.5399 ng
49) Cl4(75)		18.10	292	21044m	27.3398 ng
50) Cl4(44)		18.46	292e	227167m	431.9475 ng
51) Cl4(42)		18.67	292	110644m	217.3222 ng
52) Cl4(71)		18.89	292	291044m	399.0618 ng
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		19.28	292	145543m	190.2663 ng
55) Cl4(40)		19.41	292	32156m	77.6142 ng
56) Cl3(37)-S1	(0.135)	19.35t	255	6158	No Calib
57) Cl3(37)		19.35t	256	28918m	36.8064 ng
Corrected Values:				28087	35.7725 ng
58) Cl5(100)		19.71	326	15686m	30.4190 ng
59) Cl4(67)		20.01	292	26937m	37.2924 ng
60) Cl4(63)		20.41	292	7000m	10.6170 ng
61) Cl5(95)		20.55	326e	212919m	453.2074 ng
62) Cl4(74)		20.61	292	47382m	61.4898 ng
63) Cl4(70)		20.75	292	54591m	72.3721 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.92t	326	133192m	258.0598 ng
Corrected Values:				133192	258.0598 ng
66) Cl4(66)-S1	(0.174)	20.92t	289	34759	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.94	292	82946m	112.9847 ng
Corrected Values:				76898	104.8487 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.56T	326	59198m	126.4348 ng
72) Cl5(84)		21.56T	326	51303m	134.1768 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	35378	No Calib
74) Cl4(56)		21.60	292	18023m	25.3843 ng
Corrected Values:				11867	17.0279 ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.85	326	155507m	283.0734 ng
79) Cl5(99)		22.12	326	184224m	349.5215 ng
80) Cl5(83)		22.50	326	63144m	171.5665 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.80	326	37245m	89.7285 ng
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9252.D MF0782.M Mon Mar 02 14:23:03 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9252.D

Vial: 72

Acq On : 20 Feb 2015 7:50 pm

Operator: RR/BL

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Sample : L0109-P-D(4)

Inst : Inst. F

Misc : S-14N-OP10-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:44 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:37 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.34	360	33297m	69.6247 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.55	360	19845m	45.2430 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.51	326	5889m	14.5007 ng
Corrected Values:				5889	14.5007 ng
89) Cl5(110)		23.78	326e	307231m	469.5005 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.68	360	168367m	384.8535 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.28	326	120676m	196.9712 ng
Corrected Values:				120676	196.9712 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		25.62	360	22131m	53.2169 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.88	360	151540m	327.4730 ng
116) Cl7(179)		26.11	394	6683m	16.9426 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.23	326	8932m	16.7709 ng
Corrected Values:				8932	16.7709 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D. d
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.81	360	23596m	55.7629 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9252.D MF0782.M Mon Mar 02 14:23:04 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9252.D

Vial: 72

Acq On : 20 Feb 2015 7:50 pm

Operator: RR/BL

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Sample : L0109-P-D(4)

Inst : Inst. F

Misc : S-14N-OP10-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:44 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:37 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	49439m	107.0904 ng
Corrected Values:				49439	107.0904 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		26.96	360	14586m	28.9076 ng
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		27.17	394	21644m	62.9155 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.67	360	14448m	42.1126 ng
Corrected Values:				14448	42.1126 ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.50	360	9344m	20.4187 ng
Corrected Values:				9344	20.4187 ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		28.74	394	11816m	35.9321 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		28.80	428	7181m	21.8437 ng
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		29.45	394	6234m	22.4243 ng
Corrected Values:				6234	22.4243 ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		29.56	394	2487m	6.6490 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.69	428	3363m	13.2037 ng
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9252.D MF0782.M Mon Mar 02 14:23:04 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9252.D

Vial: 72

Acq On : 20 Feb 2015 7:50 pm

Operator: RR/BL

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Sample : L0109-P-D(4)

Inst : Inst. F

Misc : S-14N-OP10-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:44 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:37 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		30.88	428	2233m	9.7313 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9252.D MF0782.M Mon Mar 02 14:23:04 2015

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9253.D
 Acq On : 20 Feb 2015 8:38 pm
 Sample : L0109-P-D(5)
 Misc : S-14N-OP10-00-05 5-315 15-0039
 MS Integration Params: rteint.p

Vial: 73
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 26 10:30:50 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Feb 26 10:30:43 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	57587m	100.0000	ng
78) Cl6(161)	25.73	360	47285m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)	0.00	256	0d	0.0000	ng
Spiked Amount	10.0000			Recovery	= 0.00%
Corrected Values:			0	0.0000	ng
114) Cl6(152)	0.00	360	0d	0.0000	ng
Spiked Amount	10.0400			Recovery	= 0.00%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	0.00	154	0	N.D.	d
3) Cl1(1)	0.00	188	0	N.D.	d
4) Cl1(3)	0.00	188	0	N.D.	d
5) Cl2(4)	0.00	222	0	N.D.	d
6) Cl2(7)	0.00	222	0	N.D.	d
7) Cl2(9)	0.00	222	0	N.D.	d
8) Cl2(6)	12.54	222	49666m	45.7763	ng
9) Cl2(5)	0.00	222	0	N.D.	d
10) Cl2(8)	12.83	222	43313m	37.5802	ng
11) Cl3(19)	0.00	256	0	N.D.	d
12) Cl3(30)	0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)	0.00	221	0	N.D.	d
14) Cl2(11)	0.00	222	0	N.D.	d
Corrected Values:			0	ng	
15) Cl3(18)	14.14	256	40620m	79.5478	ng
16) Cl3(17)	14.26	256	17900m	35.3063	ng
17) Cl2(12)	0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)	0.00	221	0	N.D.	d
19) Cl2(13)	0.00	222	0	N.D.	d
Corrected Values:			0	ng	
20) Cl3(27)	0.00	256	0	N.D.	d
21) Cl3(24)	0.00	256	0	N.D.	d
22) Cl3(16)	0.00	256	0	N.D.	d
23) Cl2(15)	0.00	222	0	N.D.	d
24) Cl3(32)	14.95	256	20093m	28.7888	ng
25) Cl4(54)	0.00	292	0	N.D.	d
28) Cl3(29)	0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)	0.00	255	0	N.D.	d
30) Cl3(26)	15.82	256	66560m	88.7311	ng
Corrected Values:			66560	88.7311	ng
31) Cl4(50)	0.00	292	0	N.D.	d
32) Cl3(25)	15.95	256	35262m	50.5830	ng
33) Cl3(31)-S1 (0.135)	0.00	255	0	N.D.	d
34) Cl3(31)	16.28	256	58077m	77.6665	ng
Corrected Values:			58077	77.6665	ng
35) Cl4(53)	0.00	292	0	N.D.	d
36) Cl3(28)	16.40	256	53188m	72.6824	ng
37) Cl3(33)	0.00	256	0	N.D.	d
38) Cl4(51)	0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9253.D MF0782.M Mon Mar 02 14:23:10 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9253.D

Vial: 73

Acq On : 20 Feb 2015 8:38 pm

Operator: RR/BL

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Sample : L0109-P-D(5)

Inst : Inst. F

Misc : S-14N-OP10-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:50 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:43 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.62	292	60874m	134.8808 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.83	292	50620m	112.2272 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.46	292	12307m	28.6518 ng
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.54	326	11535m	30.2085 ng
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D.
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D.
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D.
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		0.00	326	0	N.D. d
79) Cl5(99)		0.00	326	0	N.D. d
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9253.D MF0782.M Mon Mar 02 14:23:10 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9253.D

Vial: 73

Acq On : 20 Feb 2015 8:38 pm

Operator: RR/BL

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Sample : L0109-P-D(5)

Inst : Inst. F

Misc : S-14N-OP10-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:50 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:43 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.77	326	16615m	28.9241 ng
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		0.00	360	0	N.D. d
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D.
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D.
108) Cl5(118)		0.00	326	0	N.D. d
Corrected Values:				0	ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D.
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D. d
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.
122) Cl5(127)		0.00	326	0	N.D.
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9253.D MF0782.M Mon Mar 02 14:23:10 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9253.D

Vial: 73

Acq On : 20 Feb 2015 8:38 pm

Operator: RR/BL

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Sample : L0109-P-D(5)

Inst : Inst. F

Misc : S-14N-OP10-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:50 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:43 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9253.D MF0782.M Mon Mar 02 14:23:11 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9253.D

Vial: 73

Acq On : 20 Feb 2015 8:38 pm

Operator: RR/BL

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Sample : L0109-P-D(5)

Inst : Inst. F

Misc : S-14N-OP10-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:50 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:43 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9253.D MF0782.M Mon Mar 02 14:23:11 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9254.D

Vial: 74

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Acq On : 20 Feb 2015 9:26 pm

Operator: RR/BL

Sample : L0117-P-D(4)

Inst : Inst. F

Misc : S-14N-RM26-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:56 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:49 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	56705m	95.0000	ng
78) Cl6(161)	25.73	360	46238m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.28t	255	628m	0.0000	ng
27) Cl3(34)	15.28t	256	138881m	195.0984	ng
Spiked Amount	189.9967			Recovery	= 102.62%
Corrected Values:			138796	194.9795	ng
114) Cl6(152)	22.41	360	87707m	176.5223	ng
Spiked Amount	190.7567			Recovery	= 92.54%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	6528m	3.3795	ng
3) Cl1(1)		9.93	188	5122m	3.5851	ng
4) Cl1(3)		11.13	188	2832m	2.3634	ng
5) Cl2(4)		11.42	222	45741m	65.7160	ng
6) Cl2(7)		12.30	222	7231m	7.7119	ng
7) Cl2(9)		12.26	222	13432m	11.4456	ng
8) Cl2(6)		12.54	222	258866m	230.8521	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.83	222	231944m	194.7906	ng
11) Cl3(19)		13.30	256	11279m	24.6386	ng
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1 (0.135)		14.14tw	221	99655	No Calib	
14) Cl2(11)		14.13tw	222	46509m	44.4088	ng
Corrected Values:				33056	31.6793	ng
15) Cl3(18)		14.15tw	256	203396m	385.5935	ng
16) Cl3(17)		14.26	256	105857m	200.3991	ng
17) Cl2(12)		14.35	222	763m	1.2030	ng
18) Cl2(13)-S1 (0.135)		14.49t	221	1540	No Calib	
19) Cl2(13)		14.49t	222	118341m	119.0063	ng
Corrected Values:				118133	118.7960	ng
20) Cl3(27)		14.50tw	256	26532m	36.0714	ng
21) Cl3(24)		14.62	256	2508m	3.9204	ng
22) Cl3(16)		14.83	256	29627m	73.3427	ng
23) Cl2(15)		14.88	222	111363m	98.0011	ng
24) Cl3(32)		14.95	256	72831m	99.6432	ng
25) Cl4(54)		15.29tw	292	961m	1.4435	ng
28) Cl3(29)		15.52	256	1070m	2.0770	ng
29) Cl3(26)-S1 (0.135)		15.82tw	255	1084	No Calib	
30) Cl3(26)		15.83tw	256e	398538m	509.2368	ng
Corrected Values:				398392	509.0509	ng
31) Cl4(50)		15.86	292	966m	2.6056	ng
32) Cl3(25)		15.95	256	255035m	342.2906	ng
33) Cl3(31)-S1 (0.135)		16.32t	255	10116	No Calib	
34) Cl3(31)		16.29	256e	567047m	719.4838	ng
Corrected Values:				565681	717.7711	ng
35) Cl4(53)		16.32t	292	25667m	49.9304	ng
36) Cl3(28)		16.40	256e	511873m	672.2404	ng
37) Cl3(33)		16.52	256	95010m	134.8194	ng
38) Cl4(51)		16.58	292	12285m	23.7688	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9254.D MF0782.M Mon Mar 02 14:23:17 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9254.D
 Acq On : 20 Feb 2015 9:26 pm
 Sample : L0117-P-D(4)
 Misc : S-14N-RM26-00-05 5-315 15-0039
 MS Integration Params: rteint.p

Vial: 74
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 26 10:30:56 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Feb 26 10:30:49 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	20421m	47.0792 ng
40) Cl3(22)		17.00	256	123001m	175.8468 ng
41) Cl4(46)		17.18	292	8316m	21.3601 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.62	292e	323474m	652.0291 ng
44) Cl4(48)		17.77	292	13404m	26.2182 ng
45) Cl4(49)		17.83	292e	321349m	685.9421 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.02	292	111682m	188.0743 ng
Corrected Values:				111682	188.0743 ng
49) Cl4(75)		18.10	292	7558m	11.3577 ng
50) Cl4(44)		18.46	292	129258m	279.5627 ng
51) Cl4(42)		18.67	292	90689m	200.0738 ng
52) Cl4(71)		18.89	292	58459m	90.6515 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.29	292	151595m	222.5808 ng
55) Cl4(40)		19.36t	292	13337m	36.3989 ng
56) Cl3(37)-S1	(0.135)	19.36t	255	9716	No Calib
57) Cl3(37)		19.35tw	256	50824m	71.8341 ng
Corrected Values:				49512	69.9977 ng
58) Cl5(100)		19.72	326	3938m	8.9976 ng
59) Cl4(67)		20.01	292	28923m	44.7426 ng
60) Cl4(63)		20.41	292	11536m	19.0563 ng
61) Cl5(95)		20.54	326	97466m	236.4076 ng
62) Cl4(74)		20.61	292	98611m	142.1049 ng
63) Cl4(70)		20.75	292	102308m	150.8166 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.92t	326	59286m	129.4129 ng
Corrected Values:				59286	129.4129 ng
66) Cl4(66)-S1	(0.174)	20.92t	289	13528	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.95	292	121657m	184.7505 ng
Corrected Values:				119303	181.2251 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		21.25	292	2339m	4.4565 ng
71) Cl5(92)		21.56T	326	29316m	70.3361 ng
72) Cl5(84)		21.56T	326	25301m	71.7756 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	17716	No Calib
74) Cl4(56)		21.60	292	50627m	77.9728 ng
Corrected Values:				47544	73.2873 ng
75) Cl4(60)-S1	(0.174)	21.85t	289	15831	No Calib
76) Cl4(60)		21.86tw	292	21086m	33.7438 ng
Corrected Values:				18331	29.4369 ng
77) Cl5(101)		21.85t	326	125929m	257.6738 ng
79) Cl5(99)		22.12	326	109171m	211.8604 ng
80) Cl5(83)		22.51	326	21164m	58.9362 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.80	326	40603m	96.4138 ng
83) Cl5(87)		23.26	326	9788m	24.2262 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9254.D MF0782.M Mon Mar 02 14:23:18 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9254.D

Vial: 74

Acq On : 20 Feb 2015 9:26 pm

Operator: RR/BL

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Sample : L0117-P-D(4)

Inst : Inst. F

Misc : S-14N-RM26-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:56 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:49 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	12323m	25.6538 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.53tw	360	3605m	8.9070 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.52tw	326	7112m	17.4136 ng
Corrected Values:				7112	17.4136 ng
89) Cl5(110)		23.78	326	209601m	326.5144 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.22t	323	2400	No Calib
92) Cl5(82)		24.22t	326	3483m	9.9870 ng
Corrected Values:				2955	8.5679 ng
93) Cl6(151)		24.22t	360	11075m	30.1173 ng
94) Cl6(135)		24.33	360	8843m	24.8146 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.41	292	10492m	18.0253 ng
Corrected Values:				10492	18.0253 ng
97) Cl6(144)		24.45	360	1232m	4.1488 ng
98) Cl6(149)		24.68	360	78811m	190.0346 ng
99) Cl6(139)		24.79	360	1406m	4.0059 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		24.84	326	4160m	7.5284 ng
Corrected Values:				4160	7.5284 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.06	326	12720m	22.7216 ng
104) Cl6(134)		25.14	360	4441m	14.9360 ng
105) Cl7(188)		25.25	394	182m	1.3065 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.28	326	119045m	192.1604 ng
Corrected Values:				119045	192.1604 ng
109) Cl6(131)		25.35	360	2154m	7.2993 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.62	360	12254m	29.8125 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.88	360	83094m	185.1421 ng
116) Cl7(179)		26.10	394	2794m	7.4176 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.23	326	15788m	28.9586 ng
Corrected Values:				15788	28.9586 ng
119) Cl6(141)		26.27	360	3851m	11.7158 ng
120) Cl7(176)		26.36	394	562m	1.8720 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.49	360	2826m	8.6565 ng
124) Cl6(130)		26.62	360	2032m	6.6523 ng
125) Cl6(164)		26.68	360	6181m	13.4247 ng
126) Cl6(138)		26.82	360	24770m	57.7658 ng
127) Cl6(163)-S1	(0.265)	26.91t	357	276	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9254.D MF0782.M Mon Mar 02 14:23:18 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9254.D

Vial: 74

Acq On : 20 Feb 2015 9:26 pm

Operator: RR/BL

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Sample : L0117-P-D(4)

Inst : Inst. F

Misc : S-14N-RM26-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:30:56 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:49 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	26348m	57.7859 ng
Corrected Values:				26275	57.6307 ng
129) Cl7(178)		26.91t	394	1165m	4.8688 ng
130) Cl6(158)		26.96	360	8809m	17.4962 ng
131) Cl7(175)		27.10	394	255m	1.6317 ng
132) Cl7(187)		27.18	394	7557m	22.2917 ng
133) Cl6(166) -S1	(0.265)	27.34tw	357	390	No Calib
134) Cl6(166)		27.35t	360	870m	2.4471 ng
Corrected Values:				767	2.2345 ng
135) Cl7(183)		27.35t	394	2829m	9.2595 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		27.67	360	6288m	18.5970 ng
Corrected Values:				6288	18.5970 ng
139) Cl7(185)		27.69	394	340m	2.0148 ng
140) Cl7(174)		27.81	394	2639m	9.5413 ng
141) Cl6(167)		27.89	360	5230m	11.2817 ng
142) Cl8(202)		27.98	428	459m	1.8236 ng
143) Cl7(177)		28.07	394	1706m	6.3537 ng
144) Cl8(201)		28.20t	428	182m	1.5514 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.20t	394	1241m	4.6588 ng
Corrected Values:				1241	4.6588 ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.51	360	7277m	15.8038 ng
Corrected Values:				7277	15.8038 ng
151) Cl7(172)		28.55	394	772m	3.6431 ng
152) Cl6(157)		28.60	360	1609m	4.1819 ng
153) Cl7(180)		28.74	394	8535m	25.7979 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.78	394	722m	2.3788 ng
Corrected Values:				722	2.3788 ng
156) Cl8(200)		28.83	428	204m	1.0746 ng
157) Cl7(191)		28.91	394	322m	1.4870 ng
158) Cl7(170) -S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		29.45	394	4498m	16.0345 ng
Corrected Values:				4498	16.0345 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.51	428	1048m	5.5154 ng
162) Cl7(190)		29.57	394	1397m	3.8326 ng
163) Cl6(169) -S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.68	428	1392m	5.7110 ng
166) Cl9(208)		30.20	464	250m	0.9862 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		30.39	464	133m	1.2489 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9254.D MF0782.M Mon Mar 02 14:23:18 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9254.D
 Acq On : 20 Feb 2015 9:26 pm
 Sample : L0117-P-D(4)
 Misc : S-14N-RM26-00-05 5-315 15-0039
 MS Integration Params: rteint.p

Vial: 74
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 26 10:30:56 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Feb 26 10:30:49 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		30.89	428	1062m	4.7855 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.54	464	526m	2.3769 ng
174) Cl10(209)		32.04	498	167m	0.0191 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9254.D MF0782.M Mon Mar 02 14:23:18 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0782\F9255.D
 Acq On : 20 Feb 2015 10:14 pm
 Sample : L0117-P-D(5)
 Misc : S-14N-RM26-00-05 5-315 15-0039
 MS Integration Params: rteint.p

Vial: 75
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 26 10:31:02 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Feb 26 10:30:55 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	56416m	100.0000	ng
78) Cl6(161)	25.73	360	47033m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	0.00	256	0d	0.0000	ng
Spiked Amount	10.0000		Recovery	=	0.00%
Corrected Values:			0	0.0000	ng
114) Cl6(152)	0.00	360	0d	0.0000	ng
Spiked Amount	10.0400		Recovery	=	0.00%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	0.00	154	0	N.D.	d
3) Cl1(1)	0.00	188	0	N.D.	d
4) Cl1(3)	0.00	188	0	N.D.	d
5) Cl2(4)	0.00	222	0	N.D.	d
6) Cl2(7)	0.00	222	0	N.D.	d
7) Cl2(9)	0.00	222	0	N.D.	d
8) Cl2(6)	0.00	222	0	N.D.	d
9) Cl2(5)	0.00	222	0	N.D.	d
10) Cl2(8)	0.00	222	0	N.D.	d
11) Cl3(19)	0.00	256	0	N.D.	d
12) Cl3(30)	0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)	0.00	221	0	N.D.	d
14) Cl2(11)	0.00	222	0	N.D.	d
Corrected Values:			0	ng	
15) Cl3(18)	0.00	256	0	N.D.	d
16) Cl3(17)	0.00	256	0	N.D.	d
17) Cl2(12)	0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)	0.00	221	0	N.D.	d
19) Cl2(13)	0.00	222	0	N.D.	d
Corrected Values:			0	ng	
20) Cl3(27)	0.00	256	0	N.D.	d
21) Cl3(24)	0.00	256	0	N.D.	d
22) Cl3(16)	0.00	256	0	N.D.	d
23) Cl2(15)	0.00	222	0	N.D.	d
24) Cl3(32)	0.00	256	0	N.D.	d
25) Cl4(54)	0.00	292	0	N.D.	d
28) Cl3(29)	0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)	0.00	255	0	N.D.	d
30) Cl3(26)	15.82	256	21886m	30.1016	ng
Corrected Values:			21886	30.1016	ng
31) Cl4(50)	0.00	292	0	N.D.	d
32) Cl3(25)	0.00	256	0	N.D.	d
33) Cl3(31)-S1 (0.135)	0.00	255	0	N.D.	d
34) Cl3(31)	16.28	256	31373m	43.1007	ng
Corrected Values:			31373	43.1007	ng
35) Cl4(53)	0.00	292	0	N.D.	d
36) Cl3(28)	16.40	256	27943m	39.2730	ng
37) Cl3(33)	0.00	256	0	N.D.	d
38) Cl4(51)	0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9255.D MF0782.M Mon Mar 02 14:23:25 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9255.D

Vial: 75

Acq On : 20 Feb 2015 10:14 pm

Operator: RR/BL

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Sample : L0117-P-D(5)

Inst : Inst. F

Misc : S-14N-RM26-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:55 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.62	292	17855m	40.7341 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.83	292	18034m	40.9487 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		0.00	292	0	N.D. d
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		0.00	292	0	N.D. d
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D. d
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		0.00	326	0	N.D. d
79) Cl5(99)		0.00	326	0	N.D. d
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9255.D MF0782.M Mon Mar 02 14:23:25 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9255.D

Vial: 75

Acq On : 20 Feb 2015 10:14 pm

Operator: RR/BL

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Sample : L0117-P-D(5)

Inst : Inst. F

Misc : S-14N-RM26-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:55 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D.
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		0.00	326	0	N.D. d
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		0.00	360	0	N.D. d
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D.
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D.
108) Cl5(118)		0.00	326	0	N.D. d
Corrected Values:				0	ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D.
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D. d
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9255.D MF0782.M Mon Mar 02 14:23:25 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9255.D

Vial: 75

Acq On : 20 Feb 2015 10:14 pm

Operator: RR/BL

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Sample : L0117-P-D(5)

Inst : Inst. F

Misc : S-14N-RM26-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:55 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D.
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		0.00	360	0	N.D.
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D.
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D.
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D.
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D.
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D.
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D.
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D.
166) Cl9(208)		0.00	464	0	N.D.
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9255.D MF0782.M Mon Mar 02 14:23:25 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9255.D

Vial: 75

Acq On : 20 Feb 2015 10:14 pm

Operator: RR/BL

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Sample : L0117-P-D(5)

Inst : Inst. F

Misc : S-14N-RM26-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:30:55 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9255.D MF0782.M Mon Mar 02 14:23:26 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9256.D

Vial: 76

Acq On : 20 Feb 2015 11:02 pm

Operator: RR/BL

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Sample : L0118-P-D(4)

Inst : Inst. F

Misc : S-14N-RM26-00-05-REP 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:07 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	55564m	95.0000	ng
78) Cl6(161)	25.73	360	44714m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		11.42	222	20597m	30.2761	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.54	222	125506m	113.5847	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.83	222	107282m	91.4140	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.14	256	98142m	188.8222	ng
16) Cl3(17)		14.26	256	50647m	97.5237	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		14.49	222	57575m	59.1639	ng
Corrected Values:				57575	59.1639	ng
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		14.83	256	12518m	31.8923	ng
23) Cl2(15)		14.88	222	53656m	48.4725	ng
24) Cl3(32)		14.95	256	34442m	48.2821	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.82	256	192791m	251.9468	ng
Corrected Values:				192791	251.9468	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.95	256	122795m	171.1341	ng
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		16.29	256	283256m	369.0690	ng
Corrected Values:				283256	369.0690	ng
35) Cl4(53)		16.32	292	12526m	25.1686	ng
36) Cl3(28)		16.40	256	258712m	346.2436	ng
37) Cl3(33)		16.51	256	47969m	69.7162	ng
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9256.D MF0782.M Thu Mar 05 12:04:56 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9256.D

Vial: 76

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Acq On : 20 Feb 2015 11:02 pm

Operator: RR/BL

Sample : L0118-P-D(4)

Inst : Inst. F

Misc : S-14N-RM26-00-05-REP 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:07 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		16.99	256	59914m	88.0788 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.62	292	158807m	338.3175 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.83	292	164985m	359.5933 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.02	292	56733m	97.5302 ng
Corrected Values:				56733	97.5302 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.46	292	61768m	138.2400 ng
51) Cl4(42)		18.67	292	44097m	100.0044 ng
52) Cl4(71)		18.89	292	28935m	45.9689 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.28	292	75082m	112.3328 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		19.35	256	26902m	39.1603 ng
Corrected Values:				26902	39.1603 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.55	326	49147m	122.9564 ng
62) Cl4(74)		20.61	292	49877m	73.9337 ng
63) Cl4(70)		20.75	292	61486m	93.0571 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.91	326	28740m	64.4802 ng
Corrected Values:				28740	64.4802 ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.94	292	68840m	107.4611 ng
Corrected Values:				68840	107.4611 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.56T	326	15265m	37.7151 ng
72) Cl5(84)		21.56T	326	11645m	33.2919 ng
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		21.61	292	27768m	44.0771 ng
Corrected Values:				27768	44.0771 ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.85	326	67663m	142.5231 ng
79) Cl5(99)		22.11	326	57660m	118.6973 ng
80) Cl5(83)		22.51	326	10486m	30.6895 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.80	326	20635m	51.4980 ng
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9256.D MF0782.M Thu Mar 05 12:04:56 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9256.D

Vial: 76

Acq On : 20 Feb 2015 11:02 pm

Operator: RR/BL

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Sample : L0118-P-D(4)

Inst : Inst. F

Misc : S-14N-RM26-00-05-REP 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:07 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.77	326	105189m	175.5146 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.68	360	37791m	97.4486 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.27	326	65271m	111.5110 ng
Corrected Values:				65271	111.5110 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.88	360	42330m	100.2776 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D. d
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.81	360	11482m	28.2266 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9256.D MF0782.M Thu Mar 05 12:04:56 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9256.D

Vial: 76

Acq On : 20 Feb 2015 11:02 pm

Operator: RR/BL

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Sample : L0118-P-D(4)

Inst : Inst. F

Misc : S-14N-RM26-00-05-REP 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:07 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	11659m	26.9606 ng
Corrected Values:				11659	26.9606 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9256.D MF0782.M Thu Mar 05 12:04:56 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9256.D

Vial: 76

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Acq On : 20 Feb 2015 11:02 pm

Operator: RR/BL

Sample : L0118-P-D(4)

Inst : Inst. F

Misc : S-14N-RM26-00-05-REP 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:07 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9256.D MF0782.M Thu Mar 05 12:04:56 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9258.D
 Acq On : 21 Feb 2015 12:37 am
 Sample : L0126-P-D(4)
 Misc : S-14N-LS03-00-05 5-315 15-0039
 MS Integration Params: rteint.p

Vial: 78
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 26 10:31:19 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Feb 26 10:31:13 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	59940m	95.0000	ng
78) Cl6(161)	25.73	360	48291m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng	
27) Cl3(34)	0.00	256	0d	0.0000	ng	
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:			0	0.0000	ng	
114) Cl6(152)	0.00	360	0d	0.0000	ng	
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		11.42	222	51884m	70.5154	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.54	222	217746m	183.2173	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.83	222	188641m	149.4306	ng
11) Cl3(19)		13.30	256	19303m	39.6097	ng
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	d
14) Cl2(11)		14.13tw	222	37260m	33.7542	ng
Corrected Values:				37260	33.7542	ng
15) Cl3(18)		14.14tw	256	188828m	338.1180	ng
16) Cl3(17)		14.26	256	85294m	152.4315	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	d
19) Cl2(13)		14.49tw	222	80123m	76.2014	ng
Corrected Values:				80123	76.2014	ng
20) Cl3(27)		14.50tw	256	58310m	74.3884	ng
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		14.88	222	57407m	48.0795	ng
24) Cl3(32)		14.95	256	94687m	122.4778	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.	d
30) Cl3(26)		15.82	256	335236m	405.5333	ng
Corrected Values:				335236	405.5333	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.95	256	208714m	267.0163	ng
33) Cl3(31)-S1 (0.135)		0.00	255	0	N.D.	d
34) Cl3(31)		16.28	256	357923m	431.7916	ng
Corrected Values:				357923	431.7916	ng
35) Cl4(53)		16.32	292	49325m	90.5750	ng
36) Cl3(28)		16.40	256	316815m	393.0960	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		16.58	292	22773m	41.1857	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9258.D MF0782.M Mon Mar 02 14:23:34 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9258.D

Vial: 78

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Acq On : 21 Feb 2015 12:37 am

Operator: RR/BL

Sample : L0126-P-D(4)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:19 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:13 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		16.99	256	19478m	27.0927 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.62	292e	280937m	542.2594 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.83	292e	256470m	518.0256 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.02	292	75768m	120.6663 ng
Corrected Values:				75768	120.6663 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.46	292	53493m	111.3314 ng
51) Cl4(42)		18.67	292	34387m	72.5707 ng
52) Cl4(71)		18.89	292	55109m	80.8894 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.28	292	40816m	56.8269 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.55	326	49969m	115.9879 ng
62) Cl4(74)		20.61	292	19117m	26.8146 ng
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.91	326	29002m	60.3747 ng
Corrected Values:				29002	60.3747 ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.94	292	19103m	28.3333 ng
Corrected Values:				19103	28.3333 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.56Tw	326	14772m	33.9194 ng
72) Cl5(84)		21.57Tw	326	11552m	30.6181 ng
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.84	326	40157m	79.0082 ng
79) Cl5(99)		22.11	326	38440m	74.2885 ng
80) Cl5(83)		22.50	326	12658m	34.2074 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.80	326	11544m	27.1472 ng
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9258.D MF0782.M Mon Mar 02 14:23:35 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9258.D

Vial: 78

Acq On : 21 Feb 2015 12:37 am

Operator: RR/BL

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Sample : L0126-P-D(4)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:19 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:13 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D.
Corrected Values:				0	ng
89) Cl5(110)		23.77	326	82819m	129.4284 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.67	360	44663m	106.2843 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.27	326	31550m	50.9764 ng
Corrected Values:				31550	50.9764 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.88	360	37976m	83.7922 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9258.D MF0782.M Mon Mar 02 14:23:35 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9258.D

Vial: 78

Acq On : 21 Feb 2015 12:37 am

Operator: RR/BL

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Sample : L0126-P-D(4)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:19 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:13 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9258.D MF0782.M Mon Mar 02 14:23:35 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9258.D
 Acq On : 21 Feb 2015 12:37 am
 Sample : L0126-P-D(4)
 Misc : S-14N-LS03-00-05 5-315 15-0039
 MS Integration Params: rteint.p

Vial: 78
 Operator: RR/BL
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 26 10:31:19 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Feb 26 10:31:13 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9258.D MF0782.M Mon Mar 02 14:23:35 2015 040221CFS

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Data File : G:\F\DATA\SF0782\F9259.D

Vial: 79

Acq On : 21 Feb 2015 1:25 am

Operator: RR/BL

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Sample : L0126-P-D(5)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:27 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:19 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	57475m	100.0000	ng
78) Cl6(161)	25.73	360	47198m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	1.0000			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	1.0040			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	d
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	d
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		0.00	256	0	N.D.	d
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		0.00	256	0	N.D.	d
Corrected Values:				0	ng	
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		0.00	256	0	N.D.	d
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		0.00	256	0	N.D.	d
Corrected Values:				0	ng	
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		0.00	256	0	N.D.	d
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9259.D MF0782.M Mon Mar 02 14:23:39 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9259.D

Vial: 79

Acq On : 21 Feb 2015 1:25 am

Operator: RR/BL

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Sample : L0126-P-D(5)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:27 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:19 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.62	292	13668m	30.6154 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.82	292	12263m	27.4022 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		0.00	292	0	N.D. d
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D.
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D.
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D.
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D.
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		0.00	326	0	N.D. d
79) Cl5(99)		0.00	326	0	N.D. d
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9259.D MF0782.M Mon Mar 02 14:23:39 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9259.D

Vial: 79

Acq On : 21 Feb 2015 1:25 am

Operator: RR/BL

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Sample : L0126-P-D(5)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:27 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:19 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D.
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D.
Corrected Values:				0	ng
89) Cl5(110)		0.00	326	0	N.D. d
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D.
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		0.00	360	0	N.D. d
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D.
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D.
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D.
108) Cl5(118)		0.00	326	0	N.D. d
Corrected Values:				0	ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D.
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D. d
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D.
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.
122) Cl5(127)		0.00	326	0	N.D.
123) Cl6(137)		0.00	360	0	N.D.
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D.
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9259.D MF0782.M Mon Mar 02 14:23:39 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9259.D

Vial: 79

Acq On : 21 Feb 2015 1:25 am

Operator: RR/BL

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Sample : L0126-P-D(5)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:27 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:19 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D.
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		0.00	360	0	N.D.
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D.
136) Cl5(126)		0.00	326	0	N.D.
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D.
141) Cl6(167)		0.00	360	0	N.D.
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D.
144) Cl8(201)		0.00	428	0	N.D.
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D.
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D.
152) Cl6(157)		0.00	360	0	N.D.
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D.
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D.
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D.
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D.
166) Cl9(208)		0.00	464	0	N.D.
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9259.D MF0782.M Mon Mar 02 14:23:40 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9259.D

Vial: 79

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Acq On : 21 Feb 2015 1:25 am

Operator: RR/BL

Sample : L0126-P-D(5)

Inst : Inst. F

Misc : S-14N-LS03-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:27 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:19 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D.
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9259.D MF0782.M Mon Mar 02 14:23:40 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9261.D

Vial: 81

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Acq On : 21 Feb 2015 3:00 am

Operator: RR/BL

Sample : L0132-P-D(4)

Inst : Inst. F

Misc : S-14N-RCC14-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:34 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:26 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	61139m	95.0000	ng
78) Cl6(161)	25.73	360	49849m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)	0.00	256	0d	0.0000	ng
Spiked Amount 18.9997				Recovery =	0.00%
Corrected Values:			0	0.0000	ng
114) Cl6(152)	0.00	360	0d	0.0000	ng
Spiked Amount 19.0757				Recovery =	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	d
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		12.54	222	45234m	37.3644	ng
9) Cl2(5)		0.00	222	0	N.D.	d
10) Cl2(8)		12.83	222	35189m	27.3968	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.14	256	39702m	69.6212	ng
16) Cl3(17)		14.26	256	18242m	32.2189	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.	d
30) Cl3(26)		15.82	256	99959m	119.0327	ng
Corrected Values:				99959	119.0327	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.94	256	60779m	77.7455	ng
33) Cl3(31)-S1 (0.135)		0.00	255	0	N.D.	d
34) Cl3(31)		16.28	256	103930m	123.9010	ng
Corrected Values:				103930	123.9010	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.40	256	94469m	115.1317	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9261.D MF0782.M Mon Mar 02 14:23:44 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9261.D

Vial: 81

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Acq On : 21 Feb 2015 3:00 am

Operator: RR/BL

Sample : L0132-P-D(4)

Inst : Inst. F

Misc : S-14N-RCC14-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:34 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:26 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.61	292	90908m	179.2115 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.83	292	83892m	166.3075 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.01	292	26216m	41.3295 ng
Corrected Values:				26216	41.3295 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.46	292	26079m	53.7273 ng
51) Cl4(42)		18.65	292	19200m	40.1177 ng
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.28	292	23414m	32.2353 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.54	326	27995m	64.3156 ng
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.91	326	15040m	31.1256 ng
Corrected Values:				15040	31.1256 ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.94	292	17397m	25.3834 ng
Corrected Values:				17397	25.3834 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D. d
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.85	326	26904m	52.2165 ng
79) Cl5(99)		22.11	326	24882m	47.0808 ng
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9261.D MF0782.M Mon Mar 02 14:23:45 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9261.D

Vial: 81

Acq On : 21 Feb 2015 3:00 am

Operator: RR/BL

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Sample : L0132-P-D(4)

Inst : Inst. F

Misc : S-14N-RCC14-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:34 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:26 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.77	326	51193m	78.5874 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.67	360	21435m	50.5184 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.27	326	29522m	46.3084 ng
Corrected Values:				29522	46.3084 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.87	360	23211m	50.2940 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D. d
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D. d
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9261.D MF0782.M Mon Mar 02 14:23:45 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9261.D

Vial: 81

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Acq On : 21 Feb 2015 3:00 am

Operator: RR/BL

Sample : L0132-P-D(4)

Inst : Inst. F

Misc : S-14N-RCC14-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:34 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:26 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9261.D MF0782.M Mon Mar 02 14:23:45 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9261.D

Vial: 81

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Acq On : 21 Feb 2015 3:00 am

Operator: RR/BL

Sample : L0132-P-D(4)

Inst : Inst. F

Misc : S-14N-RCC14-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:31:34 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:26 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

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040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9263.D

Vial: 83

Acq On : 21 Feb 2015 4:36 am

Operator: RR/BL

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Sample : L0138-P-D(4)

Inst : Inst. F

Misc : S-14N-SO2-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 13:39:13 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 13:39:00 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	58071m	95.0000	ng
78) Cl6(161)	25.73t	360	47560m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	15.27tw	255	344m	0.0000	ng
27) Cl3(34)		15.28tw	256	142883m	195.9947	ng
Spiked Amount	189.9967			Recovery	=	103.12%
Corrected Values:				142837	195.9319	ng
114) Cl6(152)		22.40	360	92868m	181.5087	ng
Spiked Amount	190.7567			Recovery	=	95.15%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	3450m	1.7623	ng
3) Cl1(1)		9.93	188	1063m	0.7432	ng
4) Cl1(3)		11.13	188	1282m	1.2316	ng
5) Cl2(4)		11.42	222	12042m	17.0231	ng
6) Cl2(7)		12.30	222	3024m	3.5634	ng
7) Cl2(9)		12.26	222	5549m	4.9067	ng
8) Cl2(6)		12.54	222	95219m	82.4247	ng
9) Cl2(5)		12.75	222	1000m	1.0081	ng
10) Cl2(8)		12.83	222	95655m	77.9651	ng
11) Cl3(19)		13.29	256	5029m	10.9910	ng
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	14.14t	221	50565	No Calib	
14) Cl2(11)		14.13tw	222	19642m	18.5522	ng
Corrected Values:				12816	12.2475	ng
15) Cl3(18)		14.14t	256	103454m	190.4545	ng
16) Cl3(17)		14.26	256	54459m	100.3367	ng
17) Cl2(12)		14.35	222	444m	0.8839	ng
18) Cl2(13)-S1	(0.135)	14.50t	221	576	No Calib	
19) Cl2(13)		14.49tw	222	49335m	48.6144	ng
Corrected Values:				49257	48.5385	ng
20) Cl3(27)		14.50t	256	11537m	15.7765	ng
21) Cl3(24)		14.61	256	1586m	2.5632	ng
22) Cl3(16)		14.82	256	22885m	55.4213	ng
23) Cl2(15)		14.88	222	56251m	48.6212	ng
24) Cl3(32)		14.95	256	38046m	51.0098	ng
25) Cl4(54)		15.29tw	292	775m	1.1611	ng
28) Cl3(29)		15.51	256	1186m	2.1999	ng
29) Cl3(26)-S1	(0.135)	15.83tw	255	438	No Calib	
30) Cl3(26)		15.82tw	256	156789m	196.2054	ng
Corrected Values:				156730	196.1318	ng
31) Cl4(50)		15.88	292	674m	2.0055	ng
32) Cl3(25)		15.94	256	104359m	139.6173	ng
33) Cl3(31)-S1	(0.135)	16.32t	255	5532	No Calib	
34) Cl3(31)		16.29	256	295228m	368.0685	ng
Corrected Values:				294481	367.1439	ng
35) Cl4(53)		16.32t	292	15149m	29.0217	ng
36) Cl3(28)		16.40	256	294114m	376.6565	ng
37) Cl3(33)		16.50	256	93192m	129.1466	ng
38) Cl4(51)		16.58	292	6720m	13.0177	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9263.D MF0782.M Mon Mar 02 14:23:49 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9263.D

Vial: 83

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Acq On : 21 Feb 2015 4:36 am

Operator: RR/BL

Sample : L0138-P-D(4)

Inst : Inst. F

Misc : S-14N-SO2-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 13:39:13 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 13:39:00 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	11977m	27.2085 ng
40) Cl3(22)		16.99	256	87204m	122.2197 ng
41) Cl4(46)		17.17	292	4448m	11.4869 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.62	292	172360m	350.8412 ng
44) Cl4(48)		17.78	292	16974m	32.1070 ng
45) Cl4(49)		17.83	292	175657m	366.3195 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.02	292	68772m	113.0655 ng
Corrected Values:				68772	113.0655 ng
49) Cl4(75)		18.10	292	4024m	6.1821 ng
50) Cl4(44)		18.46	292	88144m	187.7796 ng
51) Cl4(42)		18.66	292	57497m	124.4711 ng
52) Cl4(71)		18.89	292	33605m	51.0466 ng
53) Cl4(41)		18.99	292	874m	2.5081 ng
54) Cl4(64)		19.28	292	85102m	121.8160 ng
55) Cl4(40)		19.36tw	292	9852m	26.3843 ng
56) Cl3(37)-S1	(0.135)	19.35t	255	7632	No Calib
57) Cl3(37)		19.35t	256	44963m	62.1532 ng
Corrected Values:				43933	60.7464 ng
58) Cl5(100)		19.71	326	2297m	5.3798 ng
59) Cl4(67)		20.01	292	17069m	26.1635 ng
60) Cl4(63)		20.40	292	9134m	14.8895 ng
61) Cl5(95)		20.54	326	72026m	171.5345 ng
62) Cl4(74)		20.61	292	80930m	114.1683 ng
63) Cl4(70)		20.74	292	129252m	185.5314 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.92tw	326	38209m	81.7816 ng
Corrected Values:				38209	81.7816 ng
66) Cl4(66)-S1	(0.174)	20.91tw	289	8470	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.94	292	137522m	203.6428 ng
Corrected Values:				136048	201.4918 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		21.25	292	2148m	4.0799 ng
71) Cl5(92)		21.55Tw	326	23664m	55.5693 ng
72) Cl5(84)		21.56t	326	17330m	47.5322 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	13353	No Calib
74) Cl4(56)		21.60	292	54296m	81.6072 ng
Corrected Values:				51973	78.1604 ng
75) Cl4(60)-S1	(0.174)	21.84tw	289	15559	No Calib
76) Cl4(60)		21.86tw	292	21547m	33.6721 ng
Corrected Values:				18840	29.5398 ng
77) Cl5(101)		21.85tw	326	121214m	242.4393 ng
79) Cl5(99)		22.11	326	101575m	192.6176 ng
80) Cl5(83)		22.51	326	14520m	39.6958 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.80	326	36557m	84.6969 ng
83) Cl5(87)		23.25	326	7184m	17.4259 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9263.D MF0782.M Mon Mar 02 14:23:49 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9263.D

Vial: 83

Acq On : 21 Feb 2015 4:36 am

Operator: RR/BL

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Sample : L0138-P-D(4)

Inst : Inst. F

Misc : S-14N-SO2-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 13:39:13 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 13:39:00 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	8890m	17.9655 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.53	360	2166m	5.5838 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.51	326	5273m	12.3773 ng
Corrected Values:				5273	12.3773 ng
89) Cl5(110)		23.77	326	157592m	243.2707 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.22t	323	1694	No Calib
92) Cl5(82)		24.21tw	326	2525m	7.2228 ng
Corrected Values:				2152	6.2471 ng
93) Cl6(151)		24.22t	360	8190m	21.9683 ng
94) Cl6(135)		24.31	360	6135m	16.9489 ng
95) Cl4(77)-S2	(0.650)	24.44tw	288	705	No Calib
96) Cl4(77)		24.42	292	11532m	19.2126 ng
Corrected Values:				11074	18.4779 ng
97) Cl6(144)		24.45tw	360	1011m	3.5060 ng
98) Cl6(149)		24.67	360	52534m	126.0130 ng
99) Cl6(139)		24.80	360	1030m	2.9713 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		24.84	326	4485m	7.8452 ng
Corrected Values:				4485	7.8452 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.05	326	12312m	21.4336 ng
104) Cl6(134)		25.14	360	3207m	10.8027 ng
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.27	326	125333m	196.4537 ng
Corrected Values:				125333	196.4537 ng
109) Cl6(131)		25.35	360	1449m	5.2228 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.61	360	8870m	21.3337 ng
112) Cl5(114)-S1	(0.220)	25.73t	323	654	No Calib
113) Cl5(114)		25.65	326	2413m	4.9422 ng
Corrected Values:				2269	4.7098 ng
115) Cl6(153)		25.87	360	67616m	148.2000 ng
116) Cl7(179)		26.11	394	1811m	4.9333 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	727	No Calib
118) Cl5(105)		26.22	326	13477m	24.1173 ng
Corrected Values:				13317	23.8364 ng
119) Cl6(141)		26.27t	360	3165m	9.5824 ng
120) Cl7(176)		26.36	394	385m	1.4043 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.49	360	2259m	6.9719 ng
124) Cl6(130)		26.62	360	1543m	5.1683 ng
125) Cl6(164)		26.68	360	5035m	10.7583 ng
126) Cl6(138)		26.81	360	18154m	41.4924 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9263.D MF0782.M Mon Mar 02 14:23:49 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9263.D

Vial: 83

Acq On : 21 Feb 2015 4:36 am

Operator: RR/BL

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Sample : L0138-P-D(4)

Inst : Inst. F

Misc : S-14N-SO2-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 13:39:13 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 13:39:00 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	
128) Cl6(163)		26.86	360	16471m	35.5838 ng	
Corrected Values:				16471	35.5838 ng	
129) Cl7(178)		26.90	394	763m	3.5218 ng	
130) Cl6(158)		26.96	360	7144m	13.9104 ng	
131) Cl7(175)		27.10	394	169m	1.3528 ng	
132) Cl7(187)		27.17	394	4597m	13.4162 ng	
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D. d	
134) Cl6(166)		27.34tw	360	615m	1.8855 ng	
Corrected Values:				615	1.8855 ng	
135) Cl7(183)		27.35tw	394	1905m	6.3602 ng	
136) Cl5(126)		27.51	326	526m	1.3570 ng	
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D.	
138) Cl6(128)		27.66	360	5189m	15.0694 ng	
Corrected Values:				5189	15.0694 ng	
139) Cl7(185)		27.70	394	233m	1.6400 ng	
140) Cl7(174)		27.81	394	1835m	6.7117 ng	
141) Cl6(167)		27.89	360	4228m	8.9614 ng	
142) Cl8(202)		27.98	428	330m	1.4227 ng	
143) Cl7(177)		28.07	394	1089m	4.0615 ng	
144) Cl8(201)		28.20t	428	129m	1.3931 ng	
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.	
146) Cl7(171)		28.20t	394	858m	3.3451 ng	
Corrected Values:				858	3.3451 ng	
147) Cl7(173)		0.00	394	0	N.D. d	
148) Cl8(197)		0.00	428	0	N.D.	
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d	
150) Cl6(156)		28.51	360	5807m	12.3453 ng	
Corrected Values:				5807	12.3453 ng	
151) Cl7(172)		28.54	394	554m	2.8549 ng	
152) Cl6(157)		28.60	360	1180m	3.1797 ng	
153) Cl7(180)		28.74	394	5954m	17.6284 ng	
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.	
155) Cl7(193)		28.77	394	420m	1.5793 ng	
Corrected Values:				420	1.5793 ng	
156) Cl8(200)		28.82	428	115	0.8023 ng	#
157) Cl7(191)		28.91	394	267m	1.3402 ng	
158) Cl7(170) -S1	(0.309)	0.00	391	0	N.D.	
159) Cl7(170)		29.45	394	3076m	10.7046 ng	
Corrected Values:				3076	10.7046 ng	
160) Cl8(198)		0.00	428	0	N.D.	
161) Cl8(199)		29.50	428	703m	4.0243 ng	
162) Cl7(190)		29.56	394	977m	2.7079 ng	
163) Cl6(169) -S2	(1.610)	0.00	356	0	N.D. d	
164) Cl6(169)		0.00	360	0	N.D. d	
Corrected Values:				0	ng	
165) Cl8(203)		29.68	428	798m	3.4098 ng	
166) Cl9(208)		30.19	464	165m	0.6875 ng	
167) Cl7(189)		0.00	394	0	N.D. d	
168) Cl9(207)		0.00	464	0	N.D.	
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9263.D MF0782.M Mon Mar 02 14:23:50 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9263.D

Vial: 83

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Acq On : 21 Feb 2015 4:36 am

Operator: RR/BL

Sample : L0138-P-D(4)

Inst : Inst. F

Misc : S-14N-SO2-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 13:39:13 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 13:39:00 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40	428	233m	1.2042 ng
Corrected Values:				233	1.2042 ng
171) Cl8(194)		30.89	428	601m	2.8107 ng
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		31.55	464	425m	1.8638 ng
174) Cl10(209)		0.00	498	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9263.D MF0782.M Mon Mar 02 14:23:50 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9265.D

Vial: 85

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Acq On : 21 Feb 2015 6:11 am

Operator: RR/BL

Sample : L0139-P-D(4)

Inst : Inst. F

Misc : S-14N-SO9-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:32:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:53 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	58298m	95.0000	ng
78) Cl6(161)	25.73	360	47761m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)	0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	= 0.00%
Corrected Values:			0	0.0000	ng
114) Cl6(152)	0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	= 0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	d
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		12.54	222	52971m	45.7949	ng
9) Cl2(5)		0.00	222	0	N.D.	d
10) Cl2(8)		12.83	222	40190m	32.7492	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.14	256	42934m	78.8748	ng
16) Cl3(17)		14.26	256	21448m	39.5970	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.	d
30) Cl3(26)		15.82	256	92508m	115.5434	ng
Corrected Values:				92508	115.5434	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.94	256	58483m	78.4481	ng
33) Cl3(31)-S1 (0.135)		0.00	255	0	N.D.	d
34) Cl3(31)		16.28	256	117751m	147.0644	ng
Corrected Values:				117751	147.0644	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.40	256	110031m	140.5194	ng
37) Cl3(33)		16.51	256	20405m	28.6267	ng
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9265.D MF0782.M Mon Mar 02 14:23:55 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9265.D

Vial: 85

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Acq On : 21 Feb 2015 6:11 am

Operator: RR/BL

Sample : L0139-P-D(4)

Inst : Inst. F

Misc : S-14N-SO9-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:32:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:53 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		16.99	256	23392m	33.2829 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.62	292	85835m	177.4914 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.83	292	82006m	170.4854 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.02	292	28814m	47.5287 ng
Corrected Values:				28814	47.5287 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.46	292	32353m	69.6609 ng
51) Cl4(42)		18.66	292	22446m	48.9967 ng
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.28	292	33570m	48.1465 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.54	326	31661m	76.0610 ng
62) Cl4(74)		20.61	292	21731m	31.2047 ng
63) Cl4(70)		20.74	292	28229m	41.2002 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.92	326	16605m	35.9014 ng
Corrected Values:				16605	35.9014 ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.94	292	34286m	51.5702 ng
Corrected Values:				34286	51.5702 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D. d
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.84	326	39637m	80.1659 ng
79) Cl5(99)		22.11	326	36896m	72.1491 ng
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.80	326	11898m	28.2548 ng
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9265.D MF0782.M Mon Mar 02 14:23:55 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9265.D

Vial: 85

Acq On : 21 Feb 2015 6:11 am

Operator: RR/BL

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Sample : L0139-P-D(4)

Inst : Inst. F

Misc : S-14N-SO9-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:32:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:53 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.77	326	61539m	98.0510 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.67	360	22693m	55.6968 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.27	326	43708m	70.8452 ng
Corrected Values:				43708	70.8452 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.87	360	26767m	60.2671 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D. d
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D. d
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9265.D MF0782.M Mon Mar 02 14:23:56 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9265.D

Vial: 85

Acq On : 21 Feb 2015 6:11 am

Operator: RR/BL

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Sample : L0139-P-D(4)

Inst : Inst. F

Misc : S-14N-SO9-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:32:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:53 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D.
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D.
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9265.D MF0782.M Mon Mar 02 14:23:56 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9265.D

Vial: 85

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Acq On : 21 Feb 2015 6:11 am

Operator: RR/BL

Sample : L0139-P-D(4)

Inst : Inst. F

Misc : S-14N-SO9-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:32:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:31:53 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9265.D MF0782.M Mon Mar 02 14:23:56 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0782\F9267.D

Vial: 87

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Acq On : 21 Feb 2015 7:47 am

Operator: RR/BL

Sample : L0145-P-D(4)

Inst : Inst. F

Misc : S-14N-LBB16-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:32:15 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:32:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	56988m	95.0000	ng
78) Cl6(161)	25.73	360	46929m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		0.00	256	0	N.D.	d
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	
30) Cl3(26)		15.82	256	33734m	43.3974	ng
Corrected Values:				33734	43.3974	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.94	256	21301m	29.4104	ng
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		16.29	256	37132m	47.8785	ng
Corrected Values:				37132	47.8785	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.40	256	37698m	49.6240	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9267.D MF0782.M Mon Mar 02 14:23:59 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9267.D

Vial: 87

Acq On : 21 Feb 2015 7:47 am

Operator: RR/BL

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Sample : L0145-P-D(4)

Inst : Inst. F

Misc : S-14N-LBB16-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:32:15 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:32:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.62	292	35531m	75.9985 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.82	292	32841m	69.9678 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		0.00	292	0	N.D. d
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D.
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D.
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		0.00	326	0	N.D. d
79) Cl5(99)		0.00	326	0	N.D. d
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9267.D MF0782.M Mon Mar 02 14:24:00 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9267.D

Vial: 87

Acq On : 21 Feb 2015 7:47 am

Operator: RR/BL

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Sample : L0145-P-D(4)

Inst : Inst. F

Misc : S-14N-LBB16-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:32:15 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:32:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.77	326	18288m	30.4095 ng
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		0.00	360	0	N.D. d
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D.
108) Cl5(118)		0.00	326	0	N.D. d
Corrected Values:				0	ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D.
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D. d
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.
122) Cl5(127)		0.00	326	0	N.D.
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9267.D MF0782.M Mon Mar 02 14:24:00 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9267.D

Vial: 87

Acq On : 21 Feb 2015 7:47 am

Operator: RR/BL

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Sample : L0145-P-D(4)

Inst : Inst. F

Misc : S-14N-LBB16-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:32:15 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:32:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9267.D MF0782.M Mon Mar 02 14:24:00 2015 040221CFS

Data File : G:\F\DATA\SF0782\F9267.D

Vial: 87

Acq On : 21 Feb 2015 7:47 am

Operator: RR/BL

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Sample : L0145-P-D(4)

Inst : Inst. F

Misc : S-14N-LBB16-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 26 10:32:15 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Feb 26 10:32:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D.
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9267.D MF0782.M Mon Mar 02 14:24:00 2015

040221CFS

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Data File : G:\F\DATA\SF0783\F9273.D

Vial: 4

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Acq On : 26 Feb 2015 6:11 pm

Operator: DMS

Sample : L0104-P-D(4)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 14:07:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 14:06:53 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	64130m	95.0000	ng
78) Cl6(161)	25.73	360	50908m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	0.00	256	0d	0.0000	ng
Spiked Amount 18.9997			Recovery	=	0.00%
Corrected Values:			0	0.0000	ng
114) Cl6(152)	0.00	360	0d	0.0000	ng
Spiked Amount 19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		11.42	222	23015m	29.3173	ng
6) Cl2(7)		0.00	222	0	N.D.	d
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		12.54	222	79596m	62.4341	ng
9) Cl2(5)		0.00	222	0	N.D.	d
10) Cl2(8)		12.83	222	68882m	50.8716	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.14	256	78429m	130.6965	ng
16) Cl3(17)		14.26	256	32603m	54.5254	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		14.50	256	30213m	36.3152	ng
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		14.95	256	53793m	65.2014	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.	d
30) Cl3(26)		15.82	256	217215m	245.9664	ng
Corrected Values:				217215	245.9664	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.95	256	103438m	125.4960	ng
33) Cl3(31)-S1 (0.135)		0.00	255	0	N.D.	d
34) Cl3(31)		16.28	256	126142m	143.2398	ng
Corrected Values:				126142	143.2398	ng
35) Cl4(53)		16.32	292	39780m	68.2896	ng
36) Cl3(28)		16.40	256	107527m	124.8893	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		16.58	292	18658m	31.6898	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9273.D MF0782.M Mon Mar 02 14:07:21 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9273.D

Vial: 4

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Acq On : 26 Feb 2015 6:11 pm

Operator: DMS

Sample : L0104-P-D(4)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 14:07:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 14:06:53 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.62	292e	224064m	410.2377 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.83	292	185946m	351.1519 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.02	292	53263m	79.4257 ng
Corrected Values:				53263	79.4257 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.46	292	43535m	84.9936 ng
51) Cl4(42)		18.67	292	20505m	40.8312 ng
52) Cl4(71)		18.89	292	54478m	74.7686 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		19.41	292	6193m	15.2116 ng
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.55	326	49876m	108.3197 ng
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.92tw	326	29914m	58.2363 ng
Corrected Values:				29914	58.2363 ng
66) Cl4(66)-S1	(0.174)	20.91tw	289	6684	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.56T	326	15792m	33.8930 ng
72) Cl5(84)		21.56T	326	12203m	30.2316 ng
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.85	326	41131m	75.6816 ng
79) Cl5(99)		22.11	326	46787m	85.4546 ng
80) Cl5(83)		22.50	326	14845m	37.9570 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.80	326	12507m	27.8766 ng
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9273.D MF0782.M Mon Mar 02 14:07:21 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9273.D

Vial: 4

Acq On : 26 Feb 2015 6:11 pm

Operator: DMS

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Sample : L0104-P-D(4)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 14:07:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 14:06:53 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.77	326	71710m	106.9347 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.67	360	40332m	91.5519 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.28	326	33925m	51.9731 ng
Corrected Values:				33925	51.9731 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.88	360	37063m	77.7486 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D. d
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D. d
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9273.D MF0782.M Mon Mar 02 14:07:22 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9273.D

Vial: 4

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Acq On : 26 Feb 2015 6:11 pm

Operator: DMS

Sample : L0104-P-D(4)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 14:07:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 14:06:53 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9273.D MF0782.M Mon Mar 02 14:07:22 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9273.D

Vial: 4

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Acq On : 26 Feb 2015 6:11 pm

Operator: DMS

Sample : L0104-P-D(4)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 14:07:02 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 14:06:53 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9273.D MF0782.M Mon Mar 02 14:07:22 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0783\F9274.D
 Acq On : 26 Feb 2015 6:59 pm
 Sample : L0104-P-D(5)
 Misc : S-14N-OI18-00-05 5-315 15-0039
 MS Integration Params: rteint.p

Vial: 5
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

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Quant Time: Feb 27 14:07:09 2015 Quant Results File: MF0782.RES
 Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Fri Feb 27 14:07:01 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	61099m	100.0000	ng
78) Cl6(161)	25.73	360	49740m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)	0.00	256	0d	0.0000	ng
Spiked Amount	1.0000			Recovery	= 0.00%
Corrected Values:			0	0.0000	ng
114) Cl6(152)	0.00	360	0d	0.0000	ng
Spiked Amount	1.0040			Recovery	= 0.00%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	0.00	154	0	N.D.	d
3) Cl1(1)	0.00	188	0	N.D.	
4) Cl1(3)	0.00	188	0	N.D.	
5) Cl2(4)	0.00	222	0	N.D.	d
6) Cl2(7)	0.00	222	0	N.D.	
7) Cl2(9)	0.00	222	0	N.D.	
8) Cl2(6)	0.00	222	0	N.D.	d
9) Cl2(5)	0.00	222	0	N.D.	
10) Cl2(8)	0.00	222	0	N.D.	d
11) Cl3(19)	0.00	256	0	N.D.	d
12) Cl3(30)	0.00	256	0	N.D.	
13) Cl2(11)-S1 (0.135)	0.00	221	0	N.D.	d
14) Cl2(11)	0.00	222	0	N.D.	d
Corrected Values:			0	ng	
15) Cl3(18)	0.00	256	0	N.D.	d
16) Cl3(17)	0.00	256	0	N.D.	d
17) Cl2(12)	0.00	222	0	N.D.	
18) Cl2(13)-S1 (0.135)	0.00	221	0	N.D.	
19) Cl2(13)	0.00	222	0	N.D.	d
Corrected Values:			0	ng	
20) Cl3(27)	0.00	256	0	N.D.	d
21) Cl3(24)	0.00	256	0	N.D.	
22) Cl3(16)	0.00	256	0	N.D.	d
23) Cl2(15)	0.00	222	0	N.D.	d
24) Cl3(32)	0.00	256	0	N.D.	d
25) Cl4(54)	0.00	292	0	N.D.	d
28) Cl3(29)	0.00	256	0	N.D.	
29) Cl3(26)-S1 (0.135)	0.00	255	0	N.D.	
30) Cl3(26)	0.00	256	0	N.D.	d
Corrected Values:			0	ng	
31) Cl4(50)	0.00	292	0	N.D.	
32) Cl3(25)	0.00	256	0	N.D.	d
33) Cl3(31)-S1 (0.135)	0.00	255	0	N.D.	d
34) Cl3(31)	0.00	256	0	N.D.	d
Corrected Values:			0	ng	
35) Cl4(53)	0.00	292	0	N.D.	d
36) Cl3(28)	0.00	256	0	N.D.	d
37) Cl3(33)	0.00	256	0	N.D.	d
38) Cl4(51)	0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9274.D MF0782.M Mon Mar 02 14:08:06 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9274.D

Vial: 5

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Acq On : 26 Feb 2015 6:59 pm

Operator: DMS

Sample : L0104-P-D(5)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 14:07:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 14:07:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.62	292	11843m	24.9500 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		0.00	292	0	N.D.
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		0.00	292	0	N.D. d
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		0.00	292	0	N.D. d
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D.
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D.
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D.
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D.
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D.
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		0.00	326	0	N.D. d
79) Cl5(99)		0.00	326	0	N.D. d
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9274.D MF0782.M Mon Mar 02 14:08:06 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9274.D

Vial: 5

Acq On : 26 Feb 2015 6:59 pm

Operator: DMS

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Sample : L0104-P-D(5)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 14:07:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 14:07:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D.
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D.
Corrected Values:				0	ng
89) Cl5(110)		0.00	326	0	N.D. d
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D.
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D.
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		0.00	360	0	N.D. d
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D.
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D.
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D.
108) Cl5(118)		0.00	326	0	N.D. d
Corrected Values:				0	ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D.
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D. d
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D.
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.
122) Cl5(127)		0.00	326	0	N.D.
123) Cl6(137)		0.00	360	0	N.D.
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9274.D MF0782.M Mon Mar 02 14:08:07 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9274.D

Vial: 5

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Acq On : 26 Feb 2015 6:59 pm

Operator: DMS

Sample : L0104-P-D(5)

Inst : Inst. F

Misc : S-14N-OI18-00-05 5-315 15-0039

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Feb 27 14:07:09 2015

Quant Results File: MF0782.RES

Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Fri Feb 27 14:07:01 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D.
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		0.00	360	0	N.D.
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D.
136) Cl5(126)		0.00	326	0	N.D.
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D.
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D.
144) Cl8(201)		0.00	428	0	N.D.
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D.
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D.
152) Cl6(157)		0.00	360	0	N.D.
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D.
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		0.00	394	0	N.D.
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D.
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D.
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D.
166) Cl9(208)		0.00	464	0	N.D.
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9274.D MF0782.M Mon Mar 02 14:08:07 2015 040221CFS

Data File : G:\F\DATA\SF0783\F9274.D
Acq On : 26 Feb 2015 6:59 pm
Sample : L0104-P-D(5)
Misc : S-14N-OI18-00-05 5-315 15-0039
MS Integration Params: rteint.p

Vial: 5
Operator: DMS
Inst : Inst. F
Multiplr: 1.00

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Quant Time: Feb 27 14:07:09 2015 Quant Results File: MF0782.RES
Quant Method : G:\F\DATA\MF0782.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Fri Feb 27 14:07:01 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D.
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9274.D MF0782.M Mon Mar 02 14:08:07 2015 040221CFS

Page 5

USACE / NAE New Bedford Harbor Task Order 10
Project No 100043429
Pesticide / PCB by GC / MS SIM

SED, SEDIMENT

Batch 15-0072

Package DP-15-0093

Submitted to:
USACE / NAE
696 Virginia Road
Concord, MA 01742 USA

Submitted by:
Battelle Norwell Operations
141 Longwater Drive Suite 202
Norwell, MA 02061

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USACE/NAE New Bedford Harbor Task Order 10
Project No 100043429
Pesticide/PCB by GC/MS SIM
SED, SEDIMENT
Batch 15-0072
Package DP-15-0093

Submitted to:
USACE/NAE
696 Virginia Road
Concord, MA 01742 USA

Submitted by:
Battelle Norwell Operations
141 Longwater Drive Suite 202
Norwell, MA 02061

 restucci@battelle.org
2015.03.25 10:18:44 -04'00'

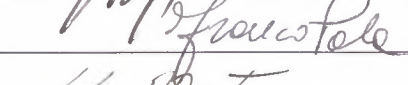
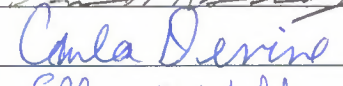
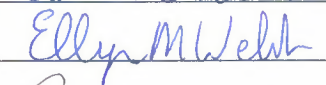
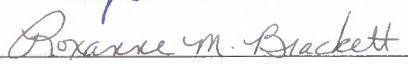
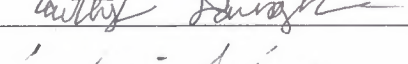
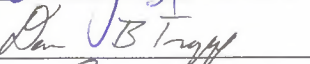
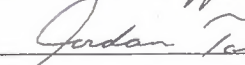
Analyst Approval:

QC Chemist Approval:  Carla Devine
2015.03.27 11:03:28 -04'00'

Project Manager Approval:  Carole McCarthy
2015.03.27 11:05:38 -04'00'

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2015 Signature Page

Name (print)	Name (signature)	Initials
Jonathan Thorn		JRT
Robert Lizotte, Jr.		RL
Mark J. Benotti		MB
FRANCO PALA		FP
Kevan McTernan		KM
Carla Devine		CRD
Ellyn M Webb		EMW
Roxanne M. Brackett		RMB
Lauren M. Griffith		LMG
Michael MORA		MM
Rich Restucci		RR
Jeannine Seyfert		JS
Christie Usher		CU
Weidong Li		W.L.
Caitlyn Farragher		CNF
Denise Schumitz		DS
Matt Schumitz		MS
Sam Guimaraes		SAG
Kayla Willis		KAW
Stephanie Hart		SAH
Emily Fraser		EF
Dawn Trapp		DT
Jordan Tower		JCT
Crimin Brown		CB
Carlee S. Pewen McLarty		CSM

USACE / NAE New Bedford Harbor Task Order 10
Project No 100043429
Pesticide / PCB by GC / MS SIM
SED, SEDIMENT
Batch 15-0072
Package DP-15-0093

1	<i>Work Plan</i> Laboratory Work Plan, Addendums To Work Plan, Memos From Project Manager, Special Instructions, Chain-of-Custody Reports.	1
2	<i>Tables</i> Analytical Data Tables, Qualifier Definitions.	96
3	<i>Miscellaneous Documentation</i> Case Narrative, Miscellaneous Documentation Form, Quality Control Summary, Example Calculations, Internal Standard Recovery Report, Retention Time Window Report.	142
4	<i>Sample Preparation Records</i> Sample Preparation Records, Dilution Worksheets, Standard Preparation Records, Certificates Of Analysis, GPC Check Report.	157
5	<i>Analytical Calibrations</i> Analytical Sequence, Analytical Method, Tune Report, Initial Calibration, Pesticide Degradation Report, RF Summary, Calibration Verifications, Independent Calibration Verification Check.	191
6	<i>Analytical Data</i> Raw Data Quantification Reports.	388
7	<i>Chromatograms</i> Sample And Standard Chromatograms.	N/A
8	<i>Unused Data</i>	N/A



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WORK/QUALITY ASSURANCE PROJECT PLAN

1.0 GENERAL PROJECT INFORMATION

Project Title: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429
Client: USACE/NAE
 696 Virginia Road
 Concord, MA 01742
 USA
Client Contact Information: Peter Hugh
 Engineering Technical Lead
 (978) 318-8452(V)
 NA
 NA
Effective Date of QAPP: 3/5/2015
Version Number: 100043429(S)-06
Project Manager: Peven-McCarthy, Carole
Laboratory Task Manager: Peven-McCarthy, Carole
Deliverable Due Date: 3/27/2015

2.0 SCOPE OF WORK

Overview: Analysis of sediment samples for PCB congeners. Workpackage - 14LABBATSSED
Matrix: Soil/Sediment

2.1 TECHNICAL APPROACH

2.1.1 Sample Receipt, Storage, and Handling

The list of samples for this project plan are presented in Attachment 1.

Storage Directions: Store frozen.
Sub_Sampling: None
Procedures: NA
Contact: NA
Comment: NA
Archiving: Store frozen.
Disposal: Retain for 6 months from delivery of final data.

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2.1.2 Sample Preparation

37 Samples selected for analysis. This batch will also include 3 sediments from the Intertidal Pilot study.

Samples Expected:	Samples Per Batch:	Batches Expected:
37	20	2

Batch quality control samples are defined in Table 1.

Target samples are presented in Attachment 1.

Table 1: Quality Control Samples

Type:	Description:	Count:	Rgt:	Reference:	Comment:
PB	Laboratory control reagent blank.	1 per batch	--	NA	
LCS	Laboratory Control Sample	1 per batch	No	NA	
LCSD	Laboratory Control Sample Duplicate	1 per batch	No	NA	
MS	Spiked field sample for determining method accuracy in the presence of matrix.	1 per batch	--	NA	Use samples identified as "4" for background for MS/MSD
MSD	Spiked field sample for determining method accuracy and precision in the presence of matrix.	1 per batch	--	NA	

2.1.3 Extraction/Preparation

2.1.3.1 Extraction

SOP No.-Rev: **5-192-14**

SOP Title: *Soil/Sediment Extraction for Trace Level Semi-Volatile Organic Contaminant Analysis*

Sample Size: 10 g

SIS and LCS/MS Compounds: Defined in Table 2.

Deviations: NA

Comments: Samples must be air dried to <50% moisture prior to extraction. Homogenize, remove ~30 g from original sample jar, place on labeled foil, loosely fold over foil and leave in hood overnight.

Sample weight: use attached spreadsheet to determine sample size for extraction.

"1" = 1 g

"2" = 2 g

"3" = 5 g

"4" = 10 g

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"5" = 1 g - these samples will have a 1:10 dilution on raw extract prior to cleanup. Spike SIS at 10x

Place one "4" for the MS/MSD in each batch.

Pre-dilutions: in addition to the un-diluted extract, prepare dilutions of 1:500 and 1:1000 for "1" and "2" samples. 1:100 for others.

Table 2: SIS and LCS/MS Spiking Level

Standard Type	Standard Contents		Spike Amount (ng)	Volume (uL)	Comment
PCB Surrogate NBH	IG96	SIS	~ 400 ng	200 uL	NA
PCB Surrogate NBH	IG96	SIS	~ 4000 ng	2000 uL	Add to "category 5" samples.
GCMS PCB/Pesticide LCS Solution	IE22	LCS/MS	~ 63 - 750 ng	125 uL	MS spike
GCMS PCB/Pesticide LCS Solution	IE22	LCS/MS	~ 38 - 450 ng	75 uL	LCS samples

2.1.3.2 Cleanup

- 1) SOP No.-Rev: **5-328-04**
 SOP Title: *Removal (cleanup) of Sulfur from Environmental Sample Extracts*
 Deviations: NA
 Comments: NA
- 2) SOP No.-Rev: **5-327-04**
 SOP Title: *Florisil Cleanup of Environmental Sample Extracts*
 Deviations: Elute with Hexane only
 Comments: NA

RIS spiking levels are presented in Table 3.

Extract PIV (uL): 1000

Table 3: RIS Spiking Level

Standard Type	Standard Contents		Spike Amount (ng)	Volume (uL)	Comment
PCB IS	IE11	RIS	~ 100 ng	100 uL	NA

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2.1.4 Instrumental Analysis

The list of analytes along with data quality criteria are presented in Attachment 2.

- 1) SOP_No-Rev: **5-315-10**
 SOP_Title: *Identification and Quantification of Polychlorinated Biphenyl Congeners (PCBs), PCB Homologues, and Chlorinated Pesticides by Gas Chromatography / Mass Spectroscopy in the Selected Ion Monitoring (SIM) Mode*
 Deviations: NA
 Comments: Note: for non-detects, "U" is the qualifier and the ssRL will be reported.

2.2. DELIVERABLES

Deliverables Due: 3/27/2015

LIMS Reports: Yes

Histograms: No

Excel Tables: Yes

EICs: No

Chromatograms: No

EDDs: Yes

Comments: New Bedford Harbor EDD required.
 Full data package (pdf) required for external validation.
 Detailed quant reports are not required.

3.0 QUALITY

The Method Quality Objectives are defined in Attachment 3.

4.0 ORGANIZATION AND COMMUNICATION

4.1 ORGANIZATION

The project team is defined in Table 4. Supervisors may make substitutions with Project Manager concurrence.

Table 4: Project Team and Roles

Staff Member	Role	Comment
Carole S. Peven-McCarthy	Project Manager	NA

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WORK/QUALITY ASSURANCE PROJECT PLAN

Staff Member	Role	Comment
Samuel A. Guimaraes	Sample Preparation	NA
Richard P. Restucci Jr	GC/MS Analysis	NA
Matt D. Schumitz	Sample Custody	NA
Carla R. Devine	Quality Control Officer	NA

4.2 COMMUNICATION

A kick-off meeting will be held to discuss project scope and goals.

5.0 SCHEDULE

The project schedule is presented in Table 5.

Table 5. Schedule of Laboratory Activities

Activity:	Start Date:	End Date:	TAT (days):	Comment:
Sample Receipt	03/04/2015	NA	0	NA
Sample Preparation	03/09/2015	03/16/2015	7	NA
Instrument Analysis	03/12/2015	03/23/2015	11	NA
Quality Control Review	03/19/2015	03/26/2015	7	NA
Final Data Reporting	03/26/2015	03/27/2015	1	NA

6.0 BUDGET

The labor budget for the analytical task is presented in Table 6.

Table 6. Labor Budget (Laboratory Analytical Task)

Labor Activity:	Hours/ Batch:	Batches:	Total Hours:	Comment:
Sample Receipt	1	2	2	NA
Sample Preparation	33	2	66	Pre-processing = drying
<i>Extraction</i>	27			
<i>glassware</i>	5			
<i>Sample pre-processing</i>	1			
Instrument Analysis	40	2	80	NA

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Labor Activity:	Hours/ Batch:	Batches:	Total Hours:	Comment:
Quality Control Review	4	2	8	NA
Final Data Reporting	1	2	2	NA

7.0 STAFF DEVELOPMENT

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Attachment 1: Target Samples

Shipment: SHP-140805-01
Status: Pending
Description: New Bedford Harbor
Range: M4934-M5096
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	M4934	S-14L-35-5-20-30	07/25/2014 12:00 am	SED	F0113 (NA)			
2	M5061	S-14L-34-24-30-43	07/31/2014 12:00 am	SED	F0113 (NA)			
3	M5096	S-14L-34-29-30-34	07/31/2014 12:00 am	SED	F0113 (NA)			

Shipment: SHP-140806-02
Status: Approved
Description: New Bedford Harbor
Range: M5362-M5362
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	M5362	S-14G-34-37-35-47	08/04/2014 12:00 am	SED	F0113 (NA)			

Shipment: SHP-141125-04
Status: Approved
Description: New Bedford Harbor(POST)
Range: L0122-L0133
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	L0122	S-14N-PCC15-00-05	11/18/2014 1:45 pm	SEDIMENT	F0113 (NA)			
2	L0125	S-14N-PV5-00-05	11/18/2014 2:20 pm	SEDIMENT	F0113 (NA)			
3	L0133	S-14N-RBB22-00-05	11/19/2014 11:05 am	SEDIMENT	F0113 (NA)			

Shipment: SHP-141215-02
Status: Approved
Description: New Bedford Harbor
Range: L0208-L0316
Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility:	Location:	No:	Comments:
1	L0208	S-14D-2014-36-63-00-10	12/10/2014 10:58 am	SEDIMENT	F0113 (NA)			
2	L0217	S-14D-2014-36-69-00-10	12/10/2014 12:31 pm	SEDIMENT	F0113 (NA)			
3	L0229	S-14D-2014-36-72-00-10	12/10/2014 1:07 pm	SEDIMENT	F0113 (NA)			
4	L0239	S-14D-2014-36-75-00-10	12/10/2014 2:17 pm	SEDIMENT	F0113 (NA)			
5	L0243	S-14D-2014-36-76-00-10	12/10/2014 3:05 pm	SEDIMENT	F0113 (NA)			
6	L0246	S-14D-2014-36-76-00-10-REP	12/10/2014 2:51 pm	SEDIMENT	F0113 (NA)			

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Shipment: SHP-141215-02

Status: Approved

Description: New Bedford Harbor

Range: L0208-L0316

Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility: Location:	No:	Comments:
7	L0256	S-14D-2014-34-41-10-20	12/11/2014 9:52 am	SEDIMENT	F0113 (NA)		
8	L0257	S-14D-2014-34-41-20-30	12/11/2014 9:52 am	SEDIMENT	F0113 (NA)		
9	L0266	S-14D-2014-33-43-00-10	12/11/2014 9:06 am	SEDIMENT	F0113 (NA)		
10	L0302	S-14D-2014-35-74-00-10	12/12/2014 8:41 am	SEDIMENT	F0113 (NA)		
11	L0308	S-14D-2014-35-76-00-10	12/12/2014 9:11 am	SEDIMENT	F0113 (NA)		
12	L0314	S-14D-2014-35-77-20-30	12/12/2014 9:01 am	SEDIMENT	F0113 (NA)		
13	L0316	S-14D-2014-35-79-10-20	12/12/2014 9:19 am	SEDIMENT	F0113 (NA)		

Shipment: SHP-141217-02

Status: Approved

Description: New Bedford Harbor

Range: L0357-L0443

Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility: Location:	No:	Comments:
1	L0357	S-14D-2014-35-70-20-30	12/16/2014 9:07 am	SEDIMENT	F0113 (NA)		
2	L0376	S-14D-2014-36-57-10-20	12/12/2014 1:13 pm	SEDIMENT	F0113 (NA)		
3	L0387	S-14D-2014-36-78-00-10	12/15/2014 12:29 pm	SEDIMENT	F0113 (NA)		
4	L0403	S-14D-2014-35-68-00-10	12/16/2014 8:31 am	SEDIMENT	F0113 (NA)		
5	L0406	S-14D-2014-35-68-00-10-REP	12/16/2014 8:40 am	SEDIMENT	F0113 (NA)		
6	L0423	S-14D-2014-37-33-10-20	12/16/2014 1:29 pm	SEDIMENT	F0113 (NA)		
7	L0435	S-14D-2014-37-37-10-20	12/16/2014 2:59 pm	SEDIMENT	F0113 (NA)		
8	L0437	S-14D-2014-37-37-30-40	12/16/2014 2:59 pm	SEDIMENT	F0113 (NA)		
9	L0440	S-14D-2014-36-90-00-10	12/17/2014 8:57 am	SEDIMENT	F0113 (NA)		
10	L0443	S-14D-2014-35-7-10-20	12/17/2014 8:40 am	SEDIMENT	F0113 (NA)		

Shipment: SHP-141223-01

Status: Approved

Description: New Bedford Harbor

Range: L0472-L0537

Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility: Location:	No:	Comments:
1	L0472	S-14D-2014-25-1-00-10	12/19/2014 2:28 pm	SEDIMENT	F0113 (NA)		
2	L0473	S-14D-2014-25-1-10-20	12/19/2014 2:28 pm	SEDIMENT	F0113 (NA)		
3	L0477	S-14D-2014-26-1-00-10	12/19/2014 2:04 pm	SEDIMENT	F0113 (NA)		
4	L0504	S-14D-2014-30-6-00-10	12/19/2014 7:55 am	SEDIMENT	F0113 (NA)		
5	L0515	S-14D-2014-31-1-10-20	12/18/2014 8:59 am	SEDIMENT	F0113 (NA)		
6	L0523	S-14D-2014-31-4-20-30	12/19/2014 10:14 am	SEDIMENT	F0113 (NA)		



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Shipment: SHP-141223-01

Status: Approved

Description: New Bedford Harbor

Range: L0472-L0537

Comment: NA

No:	BDO Id:	Client Sample ID:	Collection Date:	Matrix:	Storage Facility: Location:	No:	Comments:
7	L0528	S-14D-2014-31-6-00-10	12/19/2014 11:00 am	SEDIMENT	F0113 (NA)		
8	L0531	S-14D-2014-31-7A-00-10	12/19/2014 2:28 pm	SEDIMENT	F0113 (NA)		
9	L0534	S-14D-2014-31-7B-00-10	12/19/2014 1:28 pm	SEDIMENT	F0113 (NA)		
10	L0537	S-14D-2014-31-8-00-10	12/18/2014 10:02 am	SEDIMENT	F0113 (NA)		

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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name:	Master_315
SOP Reference:	5-315 - Identification and Quantification of Polychlorinated Biphenyl Congeners (PCBs), PCB Homologues, and Chlorinated Pesticides by Gas Chromatography / Mass Specroscopy in the Selected Ion Monitoring (SIM) Mode
Description:	Pesticide/PCB by GC/MS SIM
Matrix:	S - Solid Samples, like soil or sediment, prepared and anlyzed under the same class of detection limits.
Detection Limit Study:	RL-NA-MS
Instrument:	GCMS
MQO Criteria	USACE/NBH
Standard Report:	Standard Result Report

Method Specific Reporting				Holding Times (days)	Data Flags
Result Units:	ug/Kg	Unit Conversion:	(none)	Sample: 14	DL_Flag: U
Weight Basis:	DRY	Result Format:	Significant Figure	Frozen: 365	RL_Flag: J
Standard Basis:	RIS	# of Figures/Digits:	3	Extract: 40	PB_Flag: B
Oil Weight Basis:	No	Oil Weight Source:	Oil Weight		DIL_Flag: D
U-Value Substitution:	ND=MDL	Histograms:	No		HT_Flag: T
ECD_Reporting:	No				

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
1	Cl1(1)	Cl1(1)	T	Cl5(96)	Cl3(34)	No	No
2	Cl1(3)	Cl1(3)	T	Cl5(96)	Cl3(34)	No	No
3	Cl2(4)	Cl2(4)	T	Cl5(96)	Cl3(34)	No	No
4	Cl2(5)	Cl2(5)	T	Cl5(96)	Cl3(34)	No	No
5	Cl2(6)	Cl2(6)	T	Cl5(96)	Cl3(34)	No	No
6	Cl2(7)	Cl2(7)	T	Cl5(96)	Cl3(34)	No	No
7	Cl2(8)	Cl2(8)	T	Cl5(96)	Cl3(34)	No	No
8	Cl2(9)	Cl2(9)	T	Cl5(96)	Cl3(34)	No	No
9	Cl2(11)	Cl2(11)	T	Cl5(96)	Cl3(34)	No	No
10	Cl2(12)	Cl2(12)	T	Cl5(96)	Cl3(34)	No	No
11	Cl2(13)	Cl2(13)	T	Cl5(96)	Cl3(34)	No	No
12	Cl2(15)	Cl2(15)	T	Cl5(96)	Cl3(34)	No	No
13	Cl3(16)	Cl3(16)	T	Cl5(96)	Cl3(34)	No	No
14	Cl3(17)	Cl3(17)	T	Cl5(96)	Cl3(34)	No	No
15	Cl3(18)	Cl3(18)	T	Cl5(96)	Cl3(34)	No	No
16	Cl3(19)	Cl3(19)	T	Cl5(96)	Cl3(34)	No	No
17	Cl3(22)	Cl3(22)	T	Cl5(96)	Cl3(34)	No	No

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Attachment 2: Test Codes

Project Test Code Name: Master_315

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
18	CI3(24)	CI3(24)	T	CI5(96)	CI3(34)	No	No
19	CI3(25)	CI3(25)	T	CI5(96)	CI3(34)	No	No
20	CI3(26)	CI3(26)	T	CI5(96)	CI3(34)	No	No
21	CI3(27)	CI3(27)	T	CI5(96)	CI3(34)	No	No
22	CI3(28)	CI3(28)	T	CI5(96)	CI3(34)	No	No
23	CI3(29)	CI3(29)	T	CI5(96)	CI3(34)	No	No
24	CI3(30)	CI3(30)	T	CI5(96)	CI3(34)	No	No
25	CI3(31)	CI3(31)	T	CI5(96)	CI3(34)	No	No
26	CI3(32)	CI3(32)	T	CI5(96)	CI3(34)	No	No
27	CI3(33)	CI3(33)	T	CI5(96)	CI3(34)	No	No
28	CI3(37)	CI3(37)	T	CI5(96)	CI3(34)	No	No
29	CI4(40)	CI4(40)	T	CI5(96)	CI3(34)	No	No
30	CI4(41)	CI4(41)	T	CI5(96)	CI3(34)	No	No
31	CI4(42)	CI4(42)	T	CI5(96)	CI3(34)	No	No
32	CI4(43)	CI4(43)	T	CI5(96)	CI3(34)	No	No
33	CI4(44)	CI4(44)	T	CI5(96)	CI3(34)	No	No
34	CI4(45)	CI4(45)	T	CI5(96)	CI3(34)	No	No
35	CI4(46)	CI4(46)	T	CI5(96)	CI3(34)	No	No
36	CI4(47)	CI4(47)	T	CI5(96)	CI3(34)	No	No
37	CI4(48)	CI4(48)	T	CI5(96)	CI3(34)	No	No
38	CI4(49)	CI4(49)	T	CI5(96)	CI3(34)	No	No
39	CI4(50)	CI4(50)	T	CI5(96)	CI3(34)	No	No
40	CI4(51)	CI4(51)	T	CI5(96)	CI3(34)	No	No
41	CI4(52)	CI4(52)	T	CI5(96)	CI3(34)	No	No
42	CI4(53)	CI4(53)	T	CI5(96)	CI3(34)	No	No
43	CI4(54)	CI4(54)	T	CI5(96)	CI3(34)	No	No
44	CI4(56)	CI4(56)	T	CI5(96)	CI3(34)	No	No
45	CI4(60)	CI4(60)	T	CI6(161)	CI6(152)	No	No
46	CI4(63)	CI4(63)	T	CI5(96)	CI3(34)	No	No
47	CI4(64)	CI4(64)	T	CI5(96)	CI3(34)	No	No
48	CI4(66)	CI4(66)	T	CI5(96)	CI3(34)	No	No
49	CI4(67)	CI4(67)	T	CI5(96)	CI3(34)	No	No
50	CI4(70)	CI4(70)	T	CI5(96)	CI3(34)	No	No
51	CI4(71)	CI4(71)	T	CI5(96)	CI3(34)	No	No
52	CI4(74)	CI4(74)	T	CI5(96)	CI3(34)	No	No
53	CI4(75)	CI4(75)	T	CI5(96)	CI3(34)	No	No
54	CI4(77)	CI4(77)	T	CI6(161)	CI6(152)	No	No
55	CI4(80)	CI4(80)	T	CI5(96)	CI3(34)	No	No
56	CI4(81)	CI4(81)	T	CI6(161)	CI6(152)	No	No
57	CI5(82)	CI5(82)	T	CI6(161)	CI6(152)	No	No
58	CI5(83)	CI5(83)	T	CI6(161)	CI6(152)	No	No
59	CI5(84)	CI5(84)	T	CI5(96)	CI3(34)	No	No
60	CI5(85)	CI5(85)	T	CI6(161)	CI6(152)	No	No

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Attachment 2: Test Codes

Project Test Code Name: Master_315

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
61	CI5(87)	CI5(87)	T	CI6(161)	CI6(152)	No	No
62	CI5(91)	CI5(91)	T	CI5(96)	CI3(34)	No	No
63	CI5(92)	CI5(92)	T	CI5(96)	CI3(34)	No	No
64	CI5(95)	CI5(95)	T	CI5(96)	CI3(34)	No	No
65	CI5(97)	CI5(97)	T	CI6(161)	CI6(152)	No	No
66	CI5(99)	CI5(99)	T	CI6(161)	CI6(152)	No	No
67	CI5(100)	CI5(100)	T	CI5(96)	CI3(34)	No	No
68	CI5(101)	CI5(101)	T	CI5(96)	CI3(34)	No	No
69	CI5(104)	CI5(104)	T	CI5(96)	CI3(34)	No	No
70	CI5(105)	CI5(105)	T	CI6(161)	CI6(152)	No	No
71	CI5(110)	CI5(110)	T	CI6(161)	CI6(152)	No	No
72	CI5(114)	CI5(114)	T	CI6(161)	CI6(152)	No	No
73	CI5(115)	CI5(115)	T	CI6(161)	CI6(152)	No	No
74	CI5(118)	CI5(118)	T	CI6(161)	CI6(152)	No	No
75	CI5(123)	CI5(123)	T	CI6(161)	CI6(152)	No	No
76	CI5(124)	CI5(124)	T	CI6(161)	CI6(152)	No	No
77	CI5(125)	CI5(125)	T	CI6(161)	CI6(152)	No	No
78	CI5(126)	CI5(126)	T	CI6(161)	CI6(152)	No	No
79	CI5(127)	CI5(127)	T	CI6(161)	CI6(152)	No	No
80	CI6(128)	CI6(128)	T	CI6(161)	CI6(152)	No	No
81	CI6(130)	CI6(130)	T	CI6(161)	CI6(152)	No	No
82	CI6(131)	CI6(131)	T	CI6(161)	CI6(152)	No	No
83	CI6(134)	CI6(134)	T	CI6(161)	CI6(152)	No	No
84	CI6(135)	CI6(135)	T	CI6(161)	CI6(152)	No	No
85	CI6(136)	CI6(136)	T	CI6(161)	CI6(152)	No	No
86	CI6(137)	CI6(137)	T	CI6(161)	CI6(152)	No	No
87	CI6(138)	CI6(138)	T	CI6(161)	CI6(152)	No	No
88	CI6(139)	CI6(139)	T	CI6(161)	CI6(152)	No	No
89	CI6(140)	CI6(140)	T	CI6(161)	CI6(152)	No	No
90	CI6(141)	CI6(141)	T	CI6(161)	CI6(152)	No	No
91	CI6(144)	CI6(144)	T	CI6(161)	CI6(152)	No	No
92	CI6(146)	CI6(146)	T	CI6(161)	CI6(152)	No	No
93	CI6(149)	CI6(149)	T	CI6(161)	CI6(152)	No	No
94	CI6(151)	CI6(151)	T	CI6(161)	CI6(152)	No	No
95	CI6(153)	CI6(153)	T	CI6(161)	CI6(152)	No	No
96	CI6(154)	CI6(154)	T	CI6(161)	CI6(152)	No	No
97	CI6(155)	CI6(155)	T	CI5(96)	CI3(34)	No	No
98	CI6(156)	CI6(156)	T	CI6(161)	CI6(152)	No	No
99	CI6(157)	CI6(157)	T	CI6(161)	CI6(152)	No	No
100	CI6(158)	CI6(158)	T	CI6(161)	CI6(152)	No	No
101	CI6(163)	CI6(163)	T	CI6(161)	CI6(152)	No	No
102	CI6(164)	CI6(164)	T	CI6(161)	CI6(152)	No	No
103	CI6(166)	CI6(166)	T	CI6(161)	CI6(152)	No	No

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Attachment 2: Test Codes

Project Test Code Name: Master_315

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
104	CI6(167)	CI6(167)	T	CI6(161)	CI6(152)	No	No
105	CI6(169)	CI6(169)	T	CI6(161)	CI6(152)	No	No
106	CI7(170)	CI7(170)	T	CI6(161)	CI6(152)	No	No
107	CI7(171)	CI7(171)	T	CI6(161)	CI6(152)	No	No
108	CI7(172)	CI7(172)	T	CI6(161)	CI6(152)	No	No
109	CI7(173)	CI7(173)	T	CI6(161)	CI6(152)	No	No
110	CI7(174)	CI7(174)	T	CI6(161)	CI6(152)	No	No
111	CI7(175)	CI7(175)	T	CI6(161)	CI6(152)	No	No
112	CI7(176)	CI7(176)	T	CI6(161)	CI6(152)	No	No
113	CI7(177)	CI7(177)	T	CI6(161)	CI6(152)	No	No
114	CI7(178)	CI7(178)	T	CI6(161)	CI6(152)	No	No
115	CI7(179)	CI7(179)	T	CI6(161)	CI6(152)	No	No
116	CI7(180)	CI7(180)	T	CI6(161)	CI6(152)	No	No
117	CI7(183)	CI7(183)	T	CI6(161)	CI6(152)	No	No
118	CI7(184)	CI7(184)	T	CI6(161)	CI6(152)	No	No
119	CI7(185)	CI7(185)	T	CI6(161)	CI6(152)	No	No
120	CI7(187)	CI7(187)	T	CI6(161)	CI6(152)	No	No
121	CI7(188)	CI7(188)	T	CI6(161)	CI6(152)	No	No
122	CI7(189)	CI7(189)	T	CI6(161)	CI6(152)	No	No
123	CI7(190)	CI7(190)	T	CI6(161)	CI6(152)	No	No
124	CI7(191)	CI7(191)	T	CI6(161)	CI6(152)	No	No
125	CI7(193)	CI7(193)	T	CI6(161)	CI6(152)	No	No
126	CI8(194)	CI8(194)	T	CI6(161)	CI6(152)	No	No
127	CI8(195)	CI8(195)	T	CI6(161)	CI6(152)	No	No
128	CI8(197)	CI8(197)	T	CI6(161)	CI6(152)	No	No
129	CI8(198)	CI8(198)	T	CI6(161)	CI6(152)	No	No
130	CI8(199)	CI8(199)	T	CI6(161)	CI6(152)	No	No
131	CI8(200)	CI8(200)	T	CI6(161)	CI6(152)	No	No
132	CI8(201)	CI8(201)	T	CI6(161)	CI6(152)	No	No
133	CI8(202)	CI8(202)	T	CI6(161)	CI6(152)	No	No
134	CI8(203)	CI8(203)	T	CI6(161)	CI6(152)	No	No
135	CI8(205)	CI8(205)	T	CI6(161)	CI6(152)	No	No
136	CI9(206)	CI9(206)	T	CI6(161)	CI6(152)	No	No
137	CI9(207)	CI9(207)	T	CI6(161)	CI6(152)	No	No
138	CI9(208)	CI9(208)	T	CI6(161)	CI6(152)	No	No
139	CI10(209)	CI10(209)	T	CI6(161)	CI6(152)	No	No
140	LOC 1	LOC 1	T	CI5(96)	CI3(34)	No	No
141	LOC 2	LOC 2	T	CI5(96)	CI3(34)	No	No
142	LOC 3	LOC 3	T	CI5(96)	CI3(34)	No	No
143	LOC 4	LOC 4	T	CI5(96)	CI3(34)	No	No
144	LOC 5	LOC 5	T	CI5(96)	CI3(34)	No	No
145	LOC 6	LOC 6	T	CI6(161)	CI6(152)	No	No
146	LOC 7	LOC 7	T	CI6(161)	CI6(152)	No	No

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Attachment 2: Test Codes

Project Test Code Name: Master_315

No:	Analyte:	Report Name:	Type	RIS	SIS	Hidden:	Graph:
147	LOC 8	LOC 8	T	Cl6(161)	Cl6(152)	No	No
148	LOC 9	LOC 9	T	Cl6(161)	Cl6(152)	No	No
149	LOC 10	LOC 10	T			No	No
1	Cl3(34)	Cl3(34)	SIS	Cl5(96)		No	No
2	Cl6(152)	Cl6(152)	SIS	Cl6(161)		No	No
Total Analytes:		151					

Subtract Peaks:

None

Sum Peaks:

Compound:		LOC 1				
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl1(1)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl1(3)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Compound:		LOC 2				
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl2(4)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(5)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(6)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(7)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(8)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(9)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(11)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(12)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(13)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl2(15)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Compound:		LOC 3				
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl3(16)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(17)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(18)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(19)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(22)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(24)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(25)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(26)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(27)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(28)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(29)	1.000	No	FIXED-ZERO	Replace a non-detect with 0		
Cl3(30)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		



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Attachment 2: Test Codes

Project Test Code Name: Master_315

Compound: LOC 3						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl3(31)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(32)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(33)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(37)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl3(38)	1.000	No	FIXED-ZERO	Replace a non-detect with 0		
Compound: LOC 4						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl4(40)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(41)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(42)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(43)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(44)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(45)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(46)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(47)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(48)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(49)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(50)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(51)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(52)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(53)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(54)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(56)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(60)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(63)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(64)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(66)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(67)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(70)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(71)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(74)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(75)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(77)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(80)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(81)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl4(61)	1.000	No	FIXED-ZERO	Replace a non-detect with 0		
Compound: LOC 5						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl5(82)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl5(83)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl5(84)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_315

Compound: LOC 5						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl5(85)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(87)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(91)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(92)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(95)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(97)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(99)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(100)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(101)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(104)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(105)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(110)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(114)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(115)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(118)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(123)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(124)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(125)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(126)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl5(127)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Compound: LOC 6						
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl6(128)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(130)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(131)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(134)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(135)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(136)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(137)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(138)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(139)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(140)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(141)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(144)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(146)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(149)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(151)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(153)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(154)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(155)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl6(156)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_315

Compound: LOC 6						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl6(157)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(158)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(163)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(164)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(166)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(167)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl6(169)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Compound: LOC 7						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl7(170)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(171)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(172)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(173)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(174)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(175)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(176)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(177)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(178)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(179)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(180)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(183)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(184)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(185)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(187)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(188)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(189)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(190)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(191)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(193)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl7(186)	1.000	No	FIXED-ZERO	Replace a non-detect with 0		
Compound: LOC 8						
Sum_Peak:	Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:	
Cl8(194)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(195)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(197)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(198)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(199)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(200)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(201)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(202)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		
Cl8(203)	1.000	Yes	FIXED-ZERO	Replace a non-detect with 0		



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name:		Master_315				
Compound:	LOC 8					
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl8(205)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Compound:	LOC 9					
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl9(206)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl9(207)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Cl9(208)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	
Compound:	LOC 10					
Sum_Peak:		Multiplier:	Include:	ND-Rule:	ND-Description:	Comment:
Cl10(209)		1.000	Yes	FIXED-ZERO	Replace a non-detect with 0	



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 2: Test Codes

Project Test Code Name: Master_315

ICAL Acceptance Criteria:

Curve Fit:	Limit Mean(%):	Mean Qual:	Limit Ind.:	Ind. Qual:	Min Points:	Points Qual:	Comments:
Linear	NA	NA	0.995	N	5	N	y = Bx + C
Average RF	15	N	25	N	5	N	y = Bx
Linear (0,0)	NA	NA	0.995	N	5	N	y = Bx + 0
Quadratic	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + C
Quadratic (0,0)	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + 0

Continuing Calibration Verification Criteria:

CCV Name: 5-315

Frequency Hrs:	Mean PD(%):	Individual PD(%):	RIS/SIS RT Window (min):	Area Limit Low(%):	Area Limit High(%):	Comment:
24 (N)	15 (N)	25 (N)	0.25 (N)	-50	100 (N)	NA

Independent Calibration Verification:

ICC Name: 5-315

Mean PD Limit(%):	Ind. PD Limit(%):	RIS/SIS Window Limit (Secs):	Area Limit High(%):	Area Limit Low(%):	Comment:
25 (N)	25 (N)	0.25 (N)	-50	100 (N)	NA

Mass Discrimination Criteria:

None

Degradation Check Criteria:

Degradation Check Name: 5-315

DDT Breakdown Limit (%):	Endrin Breakdown Limit(%):	Total Breakdown Limit(%):	Comment:
20 (N)	20 (N)	20 (N)	



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 3: Method Quality Objectives

MQO Application	USACE/NBH		
MQO	Acceptance Criteria	Qual:	Corrective Action:
Procedural Blank	Samples must be greater than five times the blank concentration (>5xPB).	B	Review with Project Manager; re-analyze or justify results in project records.
PB Measurement Quality Objective	Organic results in the Procedural Blank are less than the ssRL (<ssRL)	N	
Laboratory Control Sample	Recovery values 40-120%.	N	Review with project manager; re-analyze or justify reporting the results in project records.
Matrix Spike Recovery	Organics 40-120%. Analyte concentration in MS must be greater than five times reported background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Matrix Spike/Spike Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Spike must be >5x background concentration.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the Original	n	
Standard Reference Material Accuracy	Organics Percent Difference less than 30% from a range of certified values on average. Analyte concentration must be greater than five times the Method Detection Limit (>5xMDL).	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Target is less than 5 times the MDL	n	
Analytical Duplicate Precision	Organics results less than 30% Relative Percent Difference (RPD). Concentration must be >10X the MDL.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Original is less than 10 times the MDL	n	
Analytical Triplicate Precision	Organics results less than 30% Relative Standard Deviation (RSD). Concentration must be >10X the MDL.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
	Organics Results in the Original is less than 10 times the MDL	n	



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WORK/QUALITY ASSURANCE PROJECT PLAN

Attachment 3: Method Quality Objectives

MQO Application	USACE/NBH		
MQO	Acceptance Criteria	Qual:	Corrective Action:
Surrogate Compound Recovery	Recovery results between 40% and 120%.	N	Review with Project Manager; re-analyze or justify reporting results in the project records.
Control Oil	RPD < 30% for at least 90% of analytes	N	Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
		n	
Instrument Calibration	5-315-10: R-squared greater than or equal to 0.995 Mean RSD less than or equal to 15%, Individual RSD less than or equal to 25%	N	Results examined by project manager, task leader, or subcontractor lab manager. Reextraction, reanalysis, or justification documented.
Independent Calibration Check Solution	5-315-10: Individual PD less than or equal to 25%. Mean Percent Difference less than or equal to 25%.	N	Review with Project Manager; re-analyze or justify in project records.
Continuing Calibration Verification	5-315-10: Individual PD less than or equal to 25%. Mean Percent Difference less than or equal to 15%.	N	

Battelle*The Business of Innovation*ShpNo SHP-140805-01**Battelle Project No: 100043429****Sample Receipt Form**Approved: ☐ Authorized ☐Project Number: 100043429Client: USACEReceived by: Schumitz, MattDate/Time Received: Friday, August 01, 2014 12:00 AMNo. of Shipping Containers: 1**SHIPMENT**Method of Delivery: Hand DeliveredTracking Number: NACOC Forms: ☒ Shipped with samples ☐ No Forms**Cooler(s)/Box(es)**

Cntr	Type	Tracking No.	Seal	Seal Condition	Container Condition	Temp C	Smps
1 of 1	Cooler	NA	None	Intact	Intact	1.0	239

Samples

Sample Labels: ☐ Sample labels agree with COC forms
☒ Discrepancies (see Sample Custody Corrective Action Form)

Container Seals: ☐ Tape ☐ Custody Seals ☒ Other Seals (See sample Log)
☒ Seals intact for each shipping container
☐ Seals broken (See sample log for impacted samples)

Condition of Samples: ☐ Sample containers intact
☒ Sample containers broken/leaking (See Custody Corrective Action Form)

Temperature upon receipt (°C): 1 Temperature Blank used ☐ Yes ☒ No
(Note: If temperature upon receipt differs from required conditions, see sample log comment field)

Samples Acidified: ☐ Yes ☐ No ☒ Unknown

Initial pH 5-9?: ☐ Yes ☐ No ☒ NA
If no, individual sample adjustments on the Auxiliary Sample Receipt Form

Total Residual Chlorine Present?: ☐ Yes ☐ No ☒ NA
If yes, individual sample adjustments on the Auxiliary Sample Receipt Form

Head Space <1% in samples for water VOC analysis: ☐ Yes ☐ No ☒ NA
Individual sample deviations noted on sample log

Samples Containers:
 Samples returned in PC-grade jars: ☒ Yes ☐ No ☒ Unknown /Lot No.: Unknown

Storage Location: Sample Custody: Freezer - F0113 (NA) BDO IDs Assigned: M4894 - M5143

Samples logged in by: Schumitz, Matt Date/Time: 08/01/2014 12:00 AM

Approved By: _____ Approved On: _____

Authorized By: _____ Authorized On: _____

COC-JAR

M4916

- S-14L-34-34-60-67
- S-14L-34-34-60-66

M4931

- S-14L-35-62-50-50
- S-14L-35-62-50-60

M4947

- S-14L-35-15-00-10
- S-14L-35-15-00-13

M4948

- S-14L-35-15-10-20
- S-14L-35-15-13-20

M4977

- S-14L-35-32-00-10
- S-14L-35-32-00-09

M4978

- S-14L-35-32-10-20
- S-14L-35-32-09-20

M4988

- S-14L-34-20-20-30
- S-14L-34-20-20-29

M5004

- S-14L-35-09-30-40
- S-14L-35-09-30-42

Battelle

The Business of Innovation

ShpNo: SHP-140805-01

Battelle Project No: 100043429

Report Corrective Actions

Corrective Action No: 1 of 1

Authorized ☐ Approved: ☐

COC Client: USACE

COC Project: New Bedford Harbor

COC Date: 8/5/2014 8:59:00 AM

Report Corrective Actions

Corrective Action No: 1 of 1Authorized ☐ Approved: ☐

Description of Problem:		Explanation:
Client Id	Either label or C-O-C cannot be verified	Samples from site 35-48(M5113-M5117) did not have any labels. The jars lid had enough identification on it to verify samples but there was no collection dates listed.
	Extra samples not listed on the C-O-C	S-14L-34-20-29-35 was not listed on the COC I used the information from the jar for log-in.
	Jars and C-O-C do not have matching Ids	Sample M4896 had 29 instead of 5 on the COC station ID. The Jar had the 59 on it so I used the information from the jar so that the
	Jars and C-O-C do not have matching Ids	There are a total of 8 samples that the label does not match the COC perfectly. They all have the cut depths off by an inch or two. See Attached
	Jars and C-O-C do not have matching Ids	Many of the stations that are single digits are written differently from the jar to the COC. I.E 35-3 on the COC but 35-03 on the jar. Used information from the COC for log-in.
	Other	Sample M4985 was missing the 11 from the station ID. The Jar had the 11 on it so I used the information from the jar so that the sample would match the rest from the station.
	Other	ID's 35-08, 35-09 and 34-08 all were changed per field teams field logs. Email attached to SHP records.
Custody	Other	There are 42 samples that have the year listed as 2104 on the COC. Entered into LIMS as 2014

Documentation of project manager notification

Sample Custodian	<u>Schumitz, Matt</u>	Date: <u>8/5/2014 10:48:00 AM</u>
Laboratory Manager:	<u>McInerney, Kevin</u>	Date: <u>8/28/2014 10:35:00 A</u>
Project Manager:	<u>Barrows, Elisabeth</u>	Date: <u>8/27/2014 1:33:00 PM</u>

Documentation of client notification (should be completed by project manager within 24 hrs):

On _____ I contacted _____ at _____

Results of communication with client (Describe any corrective action directed by the client):

Multiple instances of sample jar or lid information not matching COC information. Sample custodian used COC information for log-in. No additional corrective action was necessary.

Battelle

The Business of Innovation

ShpNo: SHP-140805-01

Battelle Project No: 100043429

Report Corrective Actions

Corrective Action No: 1 of 1

Authorized ☐ Approved: ☐

Date this form was received back to the custodian: _____

Reference Number: _____

Schumitz, Matthew

From: Dahlen, Deirdre T
Sent: Tuesday, December 09, 2014 9:18 AM
To: Schumitz, Matthew; Peven, Carole-Sue; Sokoloff, Paul D; Brennan, Sarah A
Subject: RE: NBH, Sediment PCB congener (139 congeners) data for Round 2 lower harbor sediment study

Matt – per our discussion just now. I confirmed that 34-09 should be 34-09 per field logs and 34-08 should be 34-8 per field log. So please also remove the '0' from 34-08 samples in LIMS. Note we didn't analyze any samples from these two stations which explains why it didn't come up in the EDD checks.

Thanks,
 Deirdre

From: Dahlen, Deirdre T
Sent: Monday, December 08, 2014 7:19 PM
To: Schumitz, Matthew; Peven, Carole-Sue; Sokoloff, Paul D; Brennan, Sarah A
Subject: RE: NBH, Sediment PCB congener (139 congeners) data for Round 2 lower harbor sediment study

I reviewed the core logs and COCs to confirm the correct SAMP_ID. The only stations where we included a '0' in the ID are 34-09 and 36-06 – so the ID used by the lab to report PCB data for station 35-06 is correct. According to the core logs (and field Collection EDDs), there should not be a '0' in the IDs for stations 35-8 and 35-9. Unfortunately, a '0' was included on the COCs and the lab logged samples into LIMS according to the COCs. As a result, the lab needs to correct these IDs to match the core logs (and field Collection EDDs).

See below for corrective actions:

SHP No.	Battelle ID	Batch	SAMP_ID		
			reported by Lab	reported by Field (per core log)	
SHP-140805-01	M4999	14-0453	S-14L-35-08-12-24	S-14L-35-8-12-24	Hand-correct ID on COC, up (Tables) and analytical EDD
SHP-140805-01	M4995	14-0454	S-14L-35-06-00-10	S-14L-35-6-00-10	No action for lab; correct ID
SHP-140805-01	M4998	14-0454	S-14L-35-08-00-12	S-14L-35-8-00-12	Hand-correct ID on COC, up (Tables) and analytical EDD
SHP-140805-01	M5001	14-0454	S-14L-35-09-00-10	S-14L-35-9-00-10	Hand-correct ID on COC, up (Tables) and analytical EDD
SHP-140805-01	M5002	14-0454	S-14L-35-09-10-20	S-14L-35-9-10-20	Hand-correct ID on COC, up (Tables) and analytical EDD

Thanks,
 Deirdre

From: Sokoloff, Paul D
Sent: Wednesday, December 03, 2014 10:00 AM
To: Dahlen, Deirdre T
Subject: RE: NBH, Sediment PCB congener (139 congeners) data for Round 2 lower harbor sediment study

I looked at the field EDD and all stations are reported without the 0. But I didn't know where to confirm whether the ID is correct with or without the 0. Looking at the field logs it wasn't consistent.

From: Dahlen, Deirdre T
Sent: Wednesday, December 03, 2014 9:55 AM
To: Peven, Carole-Sue; Sokoloff, Paul D; Tenzar, Jessica M
Cc: Brennan, Sarah A
Subject: RE: NBH, Sediment PCB congener (139 congeners) data for Round 2 lower harbor sediment study

The right samples were analyzed. Don't panic!

I will review this afternoon – but I suspect that the IDs on the COCs to the labs need to be updated to remove the '0' so that the IDs match the field EDD.

Stay tuned.

From: Peven, Carole-Sue
Sent: Wednesday, December 03, 2014 9:53 AM
To: Sokoloff, Paul D; Dahlen, Deirdre T; Tenzar, Jessica M
Cc: Brennan, Sarah A
Subject: RE: NBH, Sediment PCB congener (139 congeners) data for Round 2 lower harbor sediment study

From the looks of this I'm assuming we analyzed the correct samples in the lab and this is an issue with zeros in the IDs. Is that right, or should I start panicking now??

Thanks,
 Carole

From: Sokoloff, Paul D
Sent: Wednesday, December 03, 2014 9:47 AM
To: Dahlen, Deirdre T; Tenzar, Jessica M
Cc: Brennan, Sarah A; Peven, Carole-Sue
Subject: RE: NBH, Sediment PCB congener (139 congeners) data for Round 2 lower harbor sediment study

Hi Deirdre,

I am not really sure where to confirm these sample ID's. I didn't create the field EDD so I don't what the source of those ID's was but looking back at the field logs the ID's in question were recorded as: 35-06, 35-8, and 35-9. Please let me know if this helps.

Thanks,
 Paul

From: Dahlen, Deirdre T
Sent: Wednesday, December 03, 2014 9:19 AM
To: Sokoloff, Paul D; Tenzar, Jessica M
Cc: Brennan, Sarah A; Peven, Carole-Sue
Subject: FW: NBH, Sediment PCB congener (139 congeners) data for Round 2 lower harbor sediment study

Paul – see below. This pertains to the Round 2 LH PCB samples. I believe the IDs on the COC forms to our lab match the ID used for reporting, but don't agree w/ the field EDD.

Please confirm whether the ID from the field EDD is correct, and that we need to make updates to our lab COCs?

Thanks,
Deirdre

From: Brennan, Sarah A
Sent: Friday, November 21, 2014 11:09 AM
To: Dahlen, Deirdre T; Tenzar, Jessica M
Subject: RE: NBH, Sediment PCB congener (139 congeners) data for Round 2 lower harbor sediment study

Hi,

As I mentioned to Deirdre yesterday, there are some sample ID discrepancies between the sample collection EDDs and the Battelle lab data. Please see below for the lab batches and samples in question:

Batch 14-0453:
 S-14L-35-08-12-24 (collection- S-14L-35-8-12-24)

Batch 14-0454:
 S-14L-35-06-00-10 (collection- S-14L-35-6-00-10)
 S-14L-35-08-00-12 (collection- S-14L-35-8-00-12)
 S-14L-35-09-00-10 (collection- S-14L-35-9-00-10)
 S-14L-35-09-10-20 (collection- S-14L-35-9-10-20)

Please confirm which sample ID is correct.

Thanks.
Sarah

From: Dahlen, Deirdre T
Sent: Tuesday, November 18, 2014 12:44 PM
To: Brennan, Sarah A
Subject: NBH, Sediment PCB congener (139 congeners) data for Round 2 lower harbor sediment study

Deirdre Dahlen

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Note: I will be on vacation from November 24 through Tuesday December 2, 2014

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Sample Receipt Form Details

Approved: ☐ Authorized ☐Project Number: 100043429 Client: USACEReceived by: Schumitz, Matt Date/Time Received: Friday, August 01, 2014 12:00 AMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
M4894	S-14L-35-59-00-125	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4895	S-14L-35-59-125-25	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4896	S-14L-35-59-25-35	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4897	S-14L-35-59-35-45	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4898	S-14L-35-59-45-50	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4899	S-14L-35-59-50-55	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4900	S-14L-35-61-00-125	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4901	S-14L-35-61-125-25	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4902	S-14L-35-61-25-35	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4903	S-14L-35-61-35-45	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4904	S-14L-35-61-45-55	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4905	S-14L-35-60-00-125	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4906	S-14L-35-60-125-25	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4907	S-14L-35-60-25-35	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4908	S-14L-35-60-35-45	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4909	S-14L-35-60-45-55	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4910	S-14L-34-34-00-10	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4911	S-14L-34-34-10-20	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4912	S-14L-34-34-20-30	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4913	S-14L-34-34-30-40	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4914	S-14L-34-34-40-50	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4915	S-14L-34-34-50-60	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4916	S-14L-34-34-60-67	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4917	S-14L-35-2-00-10	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4918	S-14L-35-2-10-20	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4919	S-14L-35-2-20-30	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4920	S-14L-35-3-00-13	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4921	S-14L-35-3-13-22	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			

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M4922	S-14L-35-3-22-30	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4923	S-14L-35-1-00-10	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4924	S-14L-35-1-10-20	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4925	S-14L-35-1-20-30	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4926	S-14L-35-62-00-10	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4927	S-14L-35-62-10-20	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4928	S-14L-35-62-20-30	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4929	S-14L-35-62-30-40	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4930	S-14L-35-62-40-50	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4931	S-14L-35-62-50-60	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4932	S-14L-35-5-00-13	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4933	S-14L-35-5-13-20	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4934	S-14L-35-5-20-30	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4935	S-14L-35-30-00-10	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4936	S-14L-35-30-10-20	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4937	S14L-35-30-20-30	07/25/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4938	S-14L-35-11-00-10	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4939	S-14L-35-11-10-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4940	S-14L-35-11-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4941	S-14L-35-12-00-10	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4942	S-14L-35-12-10-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4943	S-14L-35-12-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4944	S-14L-35-13-00-10	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4945	S-14L-35-13-10-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4946	S-14L-35-13-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4947	S-14L-35-15-00-13	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4948	S-14L-35-15-13-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4949	S-14L-35-15-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			

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BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
M4950	S-14L-35-16-00-10	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4951	S-14L-35-16-10-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4952	S-14L-35-16-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4953	S-14L-35-17-00-09	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4954	S-14L-35-17-09-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4955	S-14L-35-17-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4956	S-14L-35-25-00-09	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4957	S-14L-35-25-09-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4958	S-14L-35-25-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4959	S-14L-35-26-00-07	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4960	S-14L-35-26-07-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4961	S-14L-35-26-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4962	S-14L-35-27-00-10	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4963	S-14L-35-27-10-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4964	S-14L-35-27-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4965	S-14L-35-27-DUP-00-13	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4966	S-14L-35-27-DUP-13-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4967	S-14L-35-27-DUP-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4968	S-14L-35-28-00-12	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4969	S-14L-35-28-12-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4970	S-14L-35-28-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4971	S-14L-35-29-00-10	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4972	S-14L-35-29-10-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4973	S-14L-35-29-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4974	S-14L-35-31-00-10	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4975	S-14L-35-31-10-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4976	S-14L-35-31-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4977	S-14L-35-32-00-10	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			

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M4978	S-14L-35-32-10-20	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4979	S-14L-35-32-20-30	07/28/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4980	S-14L-34-8-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4981	S-14L-34-8-10-19	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4982	S-14L-34-8-19-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4983	S-14L-34-11-00-17	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4984	S-14L-34-11-17-24	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4985	S-14L-34-11-24-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4986	S-14L-34-20-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4987	S-14L-34-20-10-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4988	S-14L-34-20-20-29	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4989	S-14L-34-21-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4990	S-14L-34-21-10-22	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4991	S-14L-34-21-22-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4992	S-14L-34-33-00-09	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4993	S-14L-34-33-09-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4994	S-14L-34-33-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4995	S-14L-35-06-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4996	S-14L-35-06-10-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4997	S0-14L-35-06-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4998	S-14L-35-8-00-12	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M4999	S-14L-35-8-12-24	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5000	S-14L-35-8-24-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5001	S-14L-35-9-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5002	S-14L-35-9-10-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5003	S-14L-35-9-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5004	S-14L-35-9-30-40	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5005	S-14L-35-14-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			

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M5006	S-14L-35-14-10-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5007	S-14L-35-14-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5008	S-14L-35-19-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5009	S-14L-35-19-10-23	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5010	S-14L-35-19-23-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5011	S-14L-35-19-30-40	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5012	S-14L-35-19-40-48	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5013	S-14L-35-22-00-09	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5014	S-14L-35-22-09-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5015	S-14L-35-22-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5016	S-14L-35-23-00-09	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5017	S-14L-35-23-09-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5018	S-14L-35-23-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5019	S-14L-35-24-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5020	S-14L-35-24-10-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5021	S-14L-35-24-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5022	S-14L-35-33-00-12	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5023	S-14L-35-33-12-25	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5024	S-14L-35-33-25-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5025	S-14L-35-33-30-38	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5026	S-14L-35-34-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5027	S-14L-35-34-10-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5028	S-14L-35-34-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5029	S-14L-35-37-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5030	S-14L-35-37-10-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5031	S-14L-35-37-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5032	S-14L-35-38-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5033	S-14L-35-38-10-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☐ Authorized ☐Project Number: 100043429 Client: USACEReceived by: Schumitz, Matt Date/Time Received: Friday, August 01, 2014 12:00 AMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
M5034	S-14L-35-38-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5035	S-14L-35-39-00-085	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5036	S-14L-35-39-085-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5037	S-14L-35-39-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5038	S-14L-35-40-00-08	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5039	S-14L-35-40-08-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5040	S-14L-35-40-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5041	S-14L-35-41-00-10	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5042	S-14L-35-41-10-20	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5043	S-14L-35-41-20-30	07/30/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5044	S-14L-34-28-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5045	S-14L-34-28-10-16	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5046	S-14L-34-28-16-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5047	S-14L-34-28-30-40	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5048	S-14L-34-28-40-45	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5049	S-14L-34-10-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5050	S-14L-34-10-10-18	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5051	S-14L-34-10-18-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5052	S-14L-34-10-30-40	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5053	S-14L-34-10-40-475	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5054	S-14L-34-13-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5055	S-14L-34-13-10-17	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5056	S-14L-34-13-17-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5057	S-14L-34-13-30-38	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5058	S-14L-34-24-00-14	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5059	S-14L-34-24-14-20	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5060	S-14L-34-24-20-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5061	S-14L-34-24-30-43	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

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BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
M5062	S-14L-34-09-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5063	S-14L-34-09-10-20	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5064	S-14L-34-09-20-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5065	S-14L-33-39-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5066	S-14L-33-39-10-20	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5067	S-14L-33-39-20-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5068	S-14L-36-45-00-07	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5069	S-14L-36-45-07-16	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5070	S-14L-36-45-16-25	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5071	S-14L-35-56-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5072	S-14L-35-56-10-20	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5073	S-14L-35-56-20-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5074	S-14L-35-56-30-40	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5075	S-14L-35-56-40-49	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5076	S-14L-37-17-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5077	S-14L-37-17-10-15	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5078	S-14L-37-17-15-22	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5079	S-14L-36-51-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5080	S-14L-36-51-10-20	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5081	S-14L-36-51-20-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5082	S-14L-33-38-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5083	S-14L-33-38-10-20	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5084	S-14L-33-38-20-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5085	S-14L-34-40-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5086	S-14L-34-40-10-21	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5087	S-14L-34-40-21-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5088	S-14L-34-27-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5089	S-14L-34-27-10-19	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

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BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
M5090	S-14L-34-27-19-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5091	S-14L-34-27-30-40	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5092	S-14L-34-27-40-45	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5093	S-14L-34-29-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5094	S-14L-34-29-10-20	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5095	S-14L-34-29-20-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5096	S-14L-34-29-30-34	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5097	S-14L-34-26-00-10	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5098	S-14L-34-26-10-20	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5099	S-14L-34-26-20-30	07/31/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5100	S-14G-35-35-00-10	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5101	S-14G-35-35-10-20	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5102	S-14G-35-35-20-30	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5103	S-14G-35-35-30-40	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5104	S-14G-35-35-40-46	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5105	S-14G-35-36-00-10	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5106	S-14G-35-36-10-20	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5107	S-14G-35-36-20-30	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5108	S-14G-35-36-30-32	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5109	S-14G-35-47-00-10	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5110	S-14G-35-47-10-20	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5111	S-14G-35-47-20-30	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5112	S-14G-35-47-30-40	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5113	S-14G-35-48-00-10	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5114	S-14G-35-48-10-20	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5115	S-14G-35-48-20-30	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5116	S-14G-35-48-30-40	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5117	S-14G-35-48-40-48	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			

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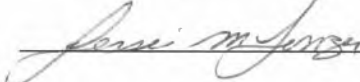
BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
M5118	S-14G-37-10-00-10	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5119	S-14G-37-10-10-20	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5120	S-14G-37-10-20-30	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5121	S-14G-37-29-00-10	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5122	S-14G-37-29-10-21	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5123	S-14G-37-29-21-25	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5124	S-14G-36-13-00-10	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5125	S-14G-36-13-10-20	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5126	S-14G-36-13-20-30	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5127	S-14G-34-40-DUP-00-10	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5128	S-14G-34-40-DUP-10-20	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5129	S-14G-34-40-DUP-20-30	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5130	S-14G-34-40-DUP-30-40	08/01/14 0:00	08/05/14 9:34	1	SED	1	NA	NA	NA	F0113 (NA)			
M5142	W-14G-EB	08/01/14 14:30	08/05/14 11:28	2	W	1	NA	NA	NA	R0118 (NA)			
M5143	S-14L-34-20-29-35	07/30/14 0:00	08/06/14 16:10	1	SED	1	NA	NA	NA	F0113 (NA)			

Total Samples: 239

 Chain of Custody							Project Manager: Deirdre Dahlen Phone: (781) 952-5253					
Ship to: Battelle Norwell 140 Longwater Place Norwell, Ma 02061			Ship From: Battelle Norwell 140 Longwater Place Norwell, Ma 02061				Site Contact: Matt Fitzpatrick Mobile: (781) 773-6797					
Date	Time	Sample ID	Lab ID(s)	Matrix	Station	Notes	Analyses (Record No. of containers / Preservative)					
							Planned Analysis	Number of Containers	Preservative			
7/25/2014		S-14L-35-59-00-125	M4894	SED	35-59		ARCH	1	ICE			
7/25/2014		S-14L-35-59-125-25	95	SED	35-59		ARCH	1	ICE			
7/25/2014		S-14L-35-29-25-35	96	SED	35-59		CONG	1	ICE			
7/25/2014		S-14L-35-59-35-45	97	SED	35-59		CONG	1	ICE			
7/25/2014		S-14L-35-59-45-50	98	SED	35-59		CONG	1	ICE			
7/25/2014		S-14L-35-59-50-55	99	SED	35-59		CONG	1	ICE			
7/25/2014		S-14L-35-61-00-125	00	SED	35-61		ARCH	1	ICE			
7/25/2014		S-14L-35-61-125-25	01	SED	35-61		ARCH	1	ICE			
7/25/2014		S-14L-35-61-25-35	02	SED	35-61		CONG	1	ICE			
7/25/2014		S-14L-35-61-35-45	03	SED	35-61		CONG	1	ICE			
7/25/2014		S-14L-35-61-45-55	04	SED	35-61		CONG	1	ICE			
7/25/2014		S-14L-35-60-00-125	05	SED	35-60		ARCH	1	ICE			
7/25/2014		S-14L-35-60-125-25	06	SED	35-60		ARCH	1	ICE			
7/25/2014		S-14L-35-60-25-35	07	SED	35-60		CONG	1	ICE			
7/25/2014		S-14L-35-60-35-45	08	SED	35-60		CONG	1	ICE			
7/25/2014		S-14L-35-60-45-55	09	SED	35-60		CONG	1	ICE			
7/25/2014		S-14L-34-34-00-10	10	SED	34-34		ARCH	1	ICE			
7/25/2014		S-14L-34-34-10-20	11	SED	34-34		ARCH	1	ICE			
7/25/2014		S-14L-34-34-20-30	12	SED	34-34		ARCH	1	ICE			
7/25/2014		S-14L-34-34-30-40	13	SED	34-34		ARCH	1	ICE			
7/25/2014		S-14L-34-34-40-50	14	SED	34-34		CONG	1	ICE			
7/25/2014		S-14L-34-34-50-60	15	SED	34-34		CONG	1	ICE			
7/25/2014		S-14L-34-34-60-67	16	SED	34-34		CONG	1	ICE			
7/25/2014		S-14L-35-2-00-10	17	SED	35-2		CONG	1	ICE			
7/25/2014		S-14L-35-2-10-20	18	SED	35-2		CONG	1	ICE			
7/25/2014		S-14L-35-2-20-30	19	SED	35-2		CONG	1	ICE			
7/25/2014		S-14L-35-3-00-13	20	SED	35-3		CONG	1	ICE			
7/25/2014		S-14L-35-3-13-22	21	SED	35-3		CONG	1	ICE			
7/25/2014		S-14L-35-3-22-30	22	SED	35-3		CONG	1	ICE			
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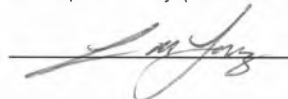
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 8/1/14 1700

 8-1-14 1700

 Chain of Custody <i>The Business of Innovation</i>							Project Manager: Deirdre Dahlen Phone: (781) 952-5253					
Ship to: Battelle Norwell 140 Longwater Place Norwell, Ma 02061			Ship From: Battelle Norwell 140 Longwater Place Norwell, Ma 02061				Site Contact: Matt Fitzpatrick Mobile: (781) 773-6797					
Date	Time	Sample ID	Lab ID(s)	Matrix	Station	Notes	Analyses (Record No. of containers / Preservative)					
							Planned Analysis	Number of Containers	Preservative			
7/25/2014		S-14L-35-1-10-20	M4924	SED	35-1		CONG	1	ICE			
7/25/2014		S-14L-35-1-20-30	25	SED	35-1		CONG	1	ICE			
7/25/2014		S-14L-35-62-00-10	26	SED	35-62		ARCH	1	ICE			
7/25/2014		S-14L-35-62-10-20	27	SED	35-62		ARCH	1	ICE			
7/25/2014		S-14L-35-62-20-30	28	SED	35-62		ARCH	1	ICE			
7/25/2014		S-14L-35-62-30-40	29	SED	35-62		CONG	1	ICE			
7/25/2014		S-14L-35-62-40-50	30	SED	35-62		CONG	1	ICE			
7/25/2014		S-14L-35-62-50-50	31	SED	35-62		CONG	1	ICE			
7/25/2014		S-14L-35-5-00-13	32	SED	35-5		CONG	1	ICE			
7/25/2014		S-14L-35-5-13-20	33	SED	35-5		CONG	1	ICE			
7/25/2014		S-14L-35-5-20-30	34	SED	35-5		CONG	1	ICE			
7/25/2014		S-14L-35-30-00-10	35	SED	35-30		CONG	1	ICE			
7/25/2014		S-14L-35-30-10-20	36	SED	35-30		CONG	1	ICE			
7/25/2014		S-14L-35-30-20-30	37	SED	35-30		CONG	1	ICE			
7/28/2104		S-14L-35-11-00-10	38	SED	35-11		CONG	1	ICE			
7/28/2104		S-14L-35-11-10-20	39	SED	35-11		CONG	1	ICE			
7/28/2104		S-14L-35-11-20-30	40	SED	35-11		CONG	1	ICE			
7/28/2104		S-14L-35-12-00-10	41	SED	35-12		CONG	1	ICE			
7/28/2104		S-14L-35-12-10-20	42	SED	35-12		CONG	1	ICE			
7/28/2104		S-14L-35-12-20-30	43	SED	35-12		CONG	1	ICE			
7/28/2104		S-14L-35-13-00-10	44	SED	35-13		CONG	1	ICE			
7/28/2104		S-14L-35-13-10-20	45	SED	35-13		CONG	1	ICE			
7/28/2104		S-14L-35-13-20-30	46	SED	35-13		CONG	1	ICE			
7/28/2104		S-14L-35-15-00-10	47	SED	35-15		CONG	1	ICE			
7/28/2104		S-14L-35-15-10-20	48	SED	35-15		CONG	1	ICE			
7/28/2104		S-14L-35-15-20-30	49	SED	35-15		CONG	1	ICE			
7/28/2104		S-14L-35-16-00-10	50	SED	35-16		CONG	1	ICE			
7/28/2104		S-14L-35-16-10-20	51	SED	35-16		CONG	1	ICE			
7/28/2104		S-14L-35-16-20-30	M4952	SED	35-16		CONG	1	ICE			

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 8-1-14 1700

 Chain of Custody							Project Manager: Deirdre Dahlen Phone: (781) 952-5253					
Ship to: Battelle Norwell 140 Longwater Place Norwell, Ma 02061			Ship From: Battelle Norwell 140 Longwater Place Norwell, Ma 02061				Site Contact: Matt Fitzpatrick Mobile: (781) 773-6797					
Date	Time	Sample ID	Lab ID(s)	Matrix	Station	Notes	Analyses (Record No. of containers / Preservative)					
							Planned Analysis	Number of Containers	Preservative			
7/28/2104		S-14L-35-17-00-09	M4953	SED	35-17		CONG	1	ICE			
7/28/2104		S-14L-35-17-09-20	54	SED	35-17		CONG	1	ICE			
7/28/2104		S-14L-35-17-20-30	55	SED	35-17		CONG	1	ICE			
7/28/2104		S-14L-35-25-00-09	56	SED	35-25		CONG	1	ICE			
7/28/2104		S-14L-35-25-09-20	57	SED	35-25		CONG	1	ICE			
7/28/2104		S-14L-35-25-20-30	58	SED	35-25		CONG	1	ICE			
7/28/2104		S-14L-35-26-00-07	59	SED	35-26		CONG	1	ICE			
7/28/2104		S-14L-35-26-07-20	60	SED	35-26		CONG	1	ICE			
7/28/2104		S-14L-35-26-20-30	61	SED	35-26		CONG	1	ICE			
7/28/2104		S-14L-35-27-00-10	62	SED	35-27		CONG	1	ICE			
7/28/2104		S-14L-35-27-10-20	63	SED	35-27		CONG	1	ICE			
7/28/2104		S-14L-35-27-20-30	64	SED	35-27		CONG	1	ICE			
7/28/2104		S-14L-35-27-DUP-00-13	65	SED	35-27-DUP		CONG	1	ICE			
7/28/2104		S-14L-35-27-DUP-13-20	66	SED	35-27-DUP		CONG	1	ICE			
7/28/2104		S-14L-35-27-DUP-20-30	67	SED	35-27-DUP		CONG	1	ICE			
7/28/2104		S-14L-35-28-00-12	68	SED	35-28		CONG	1	ICE			
7/28/2104		S-14L-35-28-12-20	69	SED	35-28		CONG	1	ICE			
7/28/2104		S-14L-35-28-20-30	70	SED	35-28		CONG	1	ICE			
7/28/2104		S-14L-35-29-00-10	71	SED	35-29		CONG	1	ICE			
7/28/2104		S-14L-35-29-10-20	72	SED	35-29		CONG	1	ICE			
7/28/2104		S-14L-35-29-20-30	73	SED	35-29		CONG	1	ICE			
7/28/2104		S-14L-35-31-00-10	74	SED	35-31		CONG	1	ICE			
7/28/2104		S-14L-35-31-10-20	75	SED	35-31		CONG	1	ICE			
7/28/2104		S-14L-35-31-20-30	76	SED	35-31		CONG	1	ICE			
7/28/2104		S-14L-35-32-00-10	77	SED	35-32		CONG	1	ICE			
7/28/2104		S-14L-35-32-10-20	78	SED	35-32		CONG	1	ICE			
7/28/2104		S-14L-35-32-20-30	79	SED	35-32		CONG	1	ICE			
7/30/2014		S-14L-34-08-00-10	80	SED	34-08		CONG	1	ICE			
7/30/2014		S-14L-34-08-10-19	81	SED	34-08		CONG	1	ICE			
7/30/2014		S-14L-34-08-19-30	M4982	SED	34-08		CONG	1	ICE			

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 Chain of Custody							Project Manager: Deirdre Dahlen Phone: (781) 952-5253					
Ship to: Battelle Norwell 140 Longwater Place Norwell, Ma 02061			Ship From: Battelle Norwell 140 Longwater Place Norwell, Ma 02061				Site Contact: Matt Fitzpatrick Mobile: (781) 773-6797					
Date	Time	Sample ID	Lab ID(s)	Matrix	Station	Notes	Analyses (Record No. of containers / Preservative)					
							Planned Analysis	Number of Containers	Preservative			
7/30/2014		S-14L-34-11-00-17	M4983	SED	34-11		CONG	1	ICE			
7/30/2014		S-14L-34-11-17-24	84	SED	34-11		CONG	1	ICE			
7/30/2014		S-14L-34-24-30	85	SED	34-11		CONG	1	ICE			
7/30/2014		S-14L-34-20-00-10	86	SED	34-20		CONG	1	ICE			
7/30/2014		S-14L-34-20-10-20	87	SED	34-20		CONG	1	ICE			
7/30/2014		S-14L-34-20-20-30	88	SED	34-20		CONG	1	ICE			
7/30/2014		S-14L-34-21-00-10	89	SED	34-21		CONG	1	ICE			
7/30/2014		S-14L-34-21-10-22	90	SED	34-21		CONG	1	ICE			
7/30/2014		S-14L-34-21-22-30	91	SED	34-21		CONG	1	ICE			
7/30/2014		S-14L-34-33-00-09	92	SED	34-33		CONG	1	ICE			
7/30/2014		S-14L-34-33-09-20	93	SED	34-33		CONG	1	ICE			
7/30/2014		S-14L-34-33-20-30	94	SED	34-33		CONG	1	ICE			
7/30/2014		S-14L-35-06-00-10	95	SED	35-06		CONG	1	ICE			
7/30/2014		S-14L-35-06-10-20	96	SED	35-06		CONG	1	ICE			
7/30/2014		S0-14L-35-06-20-30	97	SED	35-06		CONG	1	ICE			
7/30/2014		S-14L-35-08-00-12	98	SED	35-08		CONG	1	ICE			
7/30/2014		S-14L-35-08-12-24	99	SED	35-08		CONG	1	ICE			
7/30/2014		S-14L-35-08-24-30	M5000	SED	35-08		CONG	1	ICE			
7/30/2014		S-14L-35-09-00-10	01	SED	35-09		CONG	1	ICE			
7/30/2014		S-14L-35-09-10-20	02	SED	35-09		CONG	1	ICE			
7/30/2014		S-14L-35-09-20-30	03	SED	35-09		CONG	1	ICE			
7/30/2014		S-14L-35-09-30-40	04	SED	35-09		ARCH	1	ICE			
7/30/2014		S-14L-35-14-00-10	05	SED	35-14		CONG	1	ICE			
7/30/2014		S-14L-35-14-10-20	06	SED	35-14		CONG	1	ICE			
7/30/2014		S-14L-35-14-20-30	07	SED	35-14		CONG	1	ICE			
7/30/2014		S-14L-35-19-00-10	08	SED	35-19		CONG	1	ICE			
7/30/2014		S-14L-35-19-10-23	09	SED	35-19		CONG	1	ICE			
7/30/2014		S-14L-35-19-23-30	10	SED	35-19		CONG	1	ICE			
7/30/2014		S-14L-35-19-30-40	11	SED	35-19		ARCH	1	ICE			
7/30/2014		S-14L-35-19-40-48	M5012	SED	35-19		ARCH	1	ICE			

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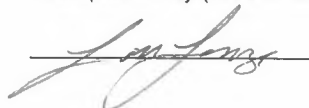
Received By(name/date/time):

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 Chain of Custody							Project Manager: Deirdre Dahlen Phone: (781) 952-5253					
Ship to: Battelle Norwell 140 Longwater Place Norwell, Ma 02061			Ship From: Battelle Norwell 140 Longwater Place Norwell, Ma 02061				Site Contact: Matt Fitzpatrick Mobile: (781) 773-6797					
Date	Time	Sample ID	Lab ID(s)	Matrix	Station	Notes	Analyses (Record No. of containers / Preservative)					
							Planned Analysis	Number of Containers	Preservative			
7/30/2014		S-14L-35-22-00-09	MS013	SED	35-22		CONG	1	ICE			
7/30/2014		S-14L-35-22-09-20	14	SED	35-22		CONG	1	ICE			
7/30/2014		S-14L-35-22-20-30	15	SED	35-22		CONG	1	ICE			
7/30/2014		S-14L-35-23-00-09	16	SED	35-23		CONG	1	ICE			
7/30/2014		S-14L-35-23-09-20	17	SED	35-23		CONG	1	ICE			
7/30/2014		S-14L-35-23-20-30	18	SED	35-23		CONG	1	ICE			
7/30/2014		S-14L-35-24-00-10	19	SED	35-24		CONG	1	ICE			
7/30/2014		S-14L-35-24-10-20	20	SED	35-24		CONG	1	ICE			
7/30/2014		S-14L-35-24-20-30	21	SED	35-24		CONG	1	ICE			
7/30/2014		S-14L-35-33-00-12	22	SED	35-33		CONG	1	ICE			
7/30/2014		S-14L-35-33-12-25	23	SED	35-33		CONG	1	ICE			
7/30/2014		S-14L-35-33-25-30	24	SED	35-33		CONG	1	ICE			
7/30/2014		S-14L-35-33-30-38	25	SED	35-33		ARCH	1	ICE			
7/30/2014		S-14L-35-34-00-10	26	SED	35-34		CONG	1	ICE			
7/30/2014		S-14L-35-34-10-20	27	SED	35-34		CONG	1	ICE			
7/30/2014		S-14L-35-34-20-30	28	SED	35-34		CONG	1	ICE			
7/30/2014		S-14L-35-37-00-10	29	SED	35-37		CONG	1	ICE			
7/30/2014		S-14L-35-37-10-20	30	SED	35-37		CONG	1	ICE			
7/30/2014		S-14L-35-37-20-30	31	SED	35-37		CONG	1	ICE			
7/30/2014		S-14L-35-38-00-10	32	SED	35-38		CONG	1	ICE			
7/30/2014		S-14L-35-38-10-20	33	SED	35-38		CONG	1	ICE			
7/30/2014		S-14L-35-38-20-30	34	SED	35-38		CONG	1	ICE			
7/30/2014		S-14L-35-39-00-085	35	SED	35-39		CONG	1	ICE			
7/30/2014		S-14L-35-39-085-20	36	SED	35-39		CONG	1	ICE			
7/30/2014		S-14L-35-39-20-30	37	SED	35-39		CONG	1	ICE			
7/30/2014		S-14L-35-40-00-08	38	SED	35-40		CONG	1	ICE			
7/30/2014		S-14L-35-40-08-20	39	SED	35-40		CONG	1	ICE			
7/30/2014		S-14L-35-40-20-30	40	SED	35-40		CONG	1	ICE			
7/30/2014		S-14L-35-41-00-10	41	SED	35-41		CONG	1	ICE			
7/30/2014		S-14L-35-41-10-20	MS042	SED	35-41		CONG	1	ICE			

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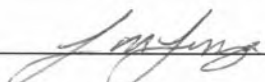
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 Chain of Custody							Project Manager: Deirdre Dahlen Phone: (781) 952-5253					
Ship to: Battelle Norwell 140 Longwater Place Norwell, Ma 02061			Ship From: Battelle Norwell 140 Longwater Place Norwell, Ma 02061			Site Contact: Matt Fitzpatrick Mobile: (781) 773-6797						
Date	Time	Sample ID	Lab ID(s)	Matrix	Station	Notes	Analyses (Record No. of containers / Preservative)					
							Planned Analysis	Number of Containers	Preservative			
7/30/2014		S-14L-35-41-20-30	M5043	SED	35-41		CONG	1	ICE			
7/31/2014		S-14L-34-28-00-10	44	SED	34-28		CONG	1	ICE			
7/31/2014		S-14L-34-28-10-16	45	SED	34-28		CONG	1	ICE			
7/31/2014		S-14L-34-28-16-30	46	SED	34-28		CONG	1	ICE			
7/31/2014		S-14L-34-28-30-40	47	SED	34-28		ARCH	1	ICE			
7/31/2014		S-14L-34-28-40-45	48	SED	34-28		ARCH	1	ICE			
7/31/2014		S-14L-34-10-00-10	49	SED	34-10		CONG	1	ICE			
7/31/2014		S-14L-34-10-10-18	50	SED	34-10		CONG	1	ICE			
7/31/2014		S-14L-34-10-18-30	51	SED	34-10		CONG	1	ICE			
7/31/2014		S-14L-34-10-30-40	52	SED	34-10		ARCH	1	ICE			
7/31/2014		S-14L-34-10-40-475	53	SED	34-10		ARCH	1	ICE			
7/31/2014		S-14L-34-13-00-10	54	SED	34-13		CONG	1	ICE			
7/31/2014		S-14L-34-13-10-17	55	SED	34-13		CONG	1	ICE			
7/31/2014		S-14L-34-13-17-30	56	SED	34-13		CONG	1	ICE			
7/31/2014		S-14L-34-13-30-38	57	SED	34-13		ARCH	1	ICE			
7/31/2014		S-14L-34-24-00-14	58	SED	34-24		CONG	1	ICE			
7/31/2014		S-14L-34-24-14-20	59	SED	34-24		CONG	1	ICE			
7/31/2014		S-14L-34-24-20-30	60	SED	34-24		CONG	1	ICE			
7/31/2014		S-14L-34-24-30-43	61	SED	34-24		ARCH	1	ICE			
7/31/2014		S-14L-34-09-00-10	62	SED	34-09		CONG	1	ICE			
7/31/2014		S-14L-34-09-10-20	63	SED	34-09		CONG	1	ICE			
7/31/2014		S-14L-34-09-20-30	64	SED	34-09		CONG	1	ICE			
7/31/2014		S-14L-33-39-00-10	65	SED	33-39		CONG	1	ICE			
7/31/2014		S-14L-33-39-10-20	66	SED	33-39		CONG	1	ICE			
7/31/2014		S-14L-33-39-20-30	67	SED	33-39		CONG	1	ICE			
7/31/2014		S-14L-36-45-00-07	68	SED	36-45		CONG	1	ICE			
7/31/2014		S-14L-36-45-07-16	69	SED	36-45		CONG	1	ICE			
7/31/2014		S-14L-36-45-16-25	70	SED	36-45		CONG	1	ICE			
7/31/2014		S-14L-35-56-00-10	71	SED	35-56		CONG	1	ICE			
7/31/2014		S-14L-35-56-10-20	M5072	SED	35-56		CONG	1	ICE			

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 Chain of Custody							Project Manager: Deirdre Dahlen Phone: (781) 952-5253					
Ship to: Battelle Norwell 140 Longwater Place Norwell, Ma 02061			Ship From: Battelle Norwell 140 Longwater Place Norwell, Ma 02061				Site Contact: Matt Fitzpatrick Mobile: (781) 773-6797					
Date	Time	Sample ID	Lab ID(s)	Matrix	Station	Notes	Analyses (Record No. of containers / Preservative)					
							Planned Analysis	Number of Containers	Preservative			
7/31/2014		S-14L-35-56-20-30	MS073	SED	35-56		CONG	1	ICE			
7/31/2014		S-14L-35-56-30-40	74	SED	35-56		CONG	1	ICE			
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7/31/2014		S-14L-37-17-00-10	76	SED	37-17		CONG	1	ICE			
7/31/2014		S-14L-37-17-10-15	77	SED	37-17		CONG	1	ICE			
7/31/2014		S-14L-37-17-15-22	78	SED	37-17		CONG	1	ICE			
7/31/2014		S-14L-36-51-00-10	79	SED	36-51		CONG	1	ICE			
7/31/2014		S-14L-36-51-10-20	80	SED	36-51		CONG	1	ICE			
7/31/2014		S-14L-36-51-20-30	81	SED	36-51		CONG	1	ICE			
7/31/2014		S-14L-33-38-00-10	82	SED	33-38		CONG	1	ICE			
7/31/2014		S-14L-33-38-10-20	83	SED	33-38		CONG	1	ICE			
7/31/2014		S-14L-33-38-20-30	84	SED	33-38		CONG	1	ICE			
7/31/2014		S-14L-34-40-00-10	85	SED	34-40		CONG	1	ICE			
7/31/2014		S-14L-34-40-10-21	86	SED	34-40		CONG	1	ICE			
7/31/2014		S-14L-34-40-21-30	87	SED	34-40		CONG	1	ICE			
7/31/2014		S-14L-34-27-00-10	88	SED	34-27		CONG	1	ICE			
7/31/2014		S-14L-34-27-10-19	89	SED	34-27		CONG	1	ICE			
7/31/2014		S-14L-34-27-19-30	90	SED	34-27		CONG	1	ICE			
7/31/2014		S-14L-34-27-30-40	91	SED	34-27		ARCH	1	ICE			
7/31/2014		S-14L-34-27-40-45	92	SED	34-27		ARCH	1	ICE			
7/31/2014		S-14L-34-29-00-10	93	SED	34-29		CONG	1	ICE			
7/31/2014		S-14L-34-29-10-20	94	SED	34-29		CONG	1	ICE			
7/31/2014		S-14L-34-29-20-30	95	SED	34-29		CONG	1	ICE			
7/31/2014		S-14L-34-29-30-34	96	SED	34-29		ARCH	1	ICE			
7/31/2014		S-14L-34-26-00-10	97	SED	34-26		CONG	1	ICE			
7/31/2014		S-14L-34-26-10-20	98	SED	34-26		CONG	1	ICE			
7/31/2014		S-14L-34-26-20-30	99	SED	34-26		CONG	1	ICE			
8/1/2014		S-14G-35-35-00-10	MS100	SED	35-35		CONG	1	ICE			
8/1/2014		S-14G-35-35-10-20	MS101	SED	35-35		CONG	1	ICE			
8/1/2014		S-14G-35-35-20-30	MS102	SED	35-35		CONG	1	ICE			

Relinquished By (name/date/time):

 8/1/14 1700

Received By(name/date/time):

 8-1-14 1700

Battelle The Business of Innovation Chain of Custody Project Manager: Deirdre Dahlen Phone: (781) 952-5253												
Ship to: Battelle Norwell 140 Longwater Place Norwell, Ma 02061			Ship From: Battelle Norwell 140 Longwater Place Norwell, Ma 02061			Site Contact: Matt Fitzpatrick Mobile: (781) 773-6797						
Date	Time	Sample ID	Lab ID(s)	Matrix	Station	Notes	Analyses (Record No. of containers / Preservative)					
							Planned Analysis	Number of Containers	Preservative			
8/1/2014		S-14G-35-35-30-40	MS103	SED	35-35		ARCH	1	ICE			
8/1/2014		S-14G-35-35-40-46	04	SED	35-35		ARCH	1	ICE			
8/1/2014		S-14G-35-36-00-10	05	SED	35-36		CONG	1	ICE			
8/1/2014		S-14G-35-36-10-20	06	SED	35-36		CONG	1	ICE			
8/1/2014		S-14G-35-36-20-30	07	SED	35-36		CONG	1	ICE			
8/1/2014		S-14G-35-36-30-32	08	SED	35-36		ARCH	1	ICE			
8/1/2014		S-14G-35-47-00-10	09	SED	35-47		CONG	1	ICE			
8/1/2014		S-14G-35-47-10-20	10	SED	35-47		CONG	1	ICE			
8/1/2014		S-14G-35-47-20-30	11	SED	35-47		CONG	1	ICE			
8/1/2014		S-14G-35-47-30-40	12	SED	35-47		ARCH	1	ICE			
8/1/2014		S-14G-35-48-00-10	13	SED	35-48		CONG	1	ICE			
8/1/2014		S-14G-35-48-10-20	14	SED	35-48		CONG	1	ICE			
8/1/2014		S-14G-35-48-20-30	15	SED	35-48		CONG	1	ICE			
8/1/2014		S-14G-35-48-30-40	16	SED	35-48		ARCH	1	ICE			
8/1/2014		S-14G-35-48-40-48	17	SED	35-48		ARCH	1	ICE			
8/1/2014		S-14G-37-10-00-10	18	SED	37-10		CONG	1	ICE			
8/1/2014		S-14G-37-10-00-10-20	19	SED	37-10		CONG	1	ICE			
8/1/2014		S-14G-37-10-00-10-20-30	20	SED	37-10		CONG	1	ICE			
8/1/2014		S-14G-37-29-00-10	21	SED	37-29		CONG	1	ICE			
8/1/2014		S-14G-37-29-10-21	22	SED	37-29		CONG	1	ICE			
8/1/2014		S-14G-37-29-21-25	23	SED	37-29		ARCH	1	ICE			
8/1/2014		S-14G-36-13-00-10	24	SED	36-13		CONG	1	ICE			
8/1/2014		S-14G-36-13-10-20	25	SED	36-13		CONG	1	ICE			
8/1/2014		S-14G-36-13-20-30	26	SED	36-13		CONG	1	ICE			
8/1/2014		S-14G-34-40-DUP-00-10	27	SED	34-40-DUP		CONG	1	ICE			
8/1/2014		S-14G-34-40-DUP-10-20	28	SED	34-40-DUP		CONG	1	ICE			
8/1/2014		S-14G-34-40-DUP-20-30	29	SED	34-40-DUP		CONG	1	ICE			
8/1/2014		S-14G-34-40-DUP-30-40	MS130	SED	34-40-DUP		ARCH	1	ICE			

Relinquished By (name/date/time):

[Signature] 8/1/14 1700

Received By (name/date/time):

[Signature] 8/1/14 1700

Battelle <i>The Business of Innovation</i>	Ship To: Company: Battelle Address:	Ship From: Battelle 397 Washington Street Duxbury, MA 02332 Attn:	Page ___ of ___
	Attn: Matt Shumitz Phone:	Attn: Phone: 781-952-5200	
	Project Number:	Project Name:	Samplers:

Field Sample ID	Analytical Lab Sample ID	Sample Date (ddmmyy)	Sample Time (local)	Station ID	Matrix	Analysis ¹	No. of Containers	Container Type	Preservative ²
W-146-EB	M5142	01/08/14	1430		W	PCB's	2	G	C

Relinquished by: <i>Nikhil Kulkarni</i>	Date/Time: 8/1/14 1508	Received by: <i>Jessie M. Jones</i>	Date/Time: 8/1/14 1508
Relinquished by: <i>Jessie M. Jones</i>	Date/Time: 8/1/14 1645	Received by: <i>MM</i>	Date/Time: 8/1/14 1700
Relinquished by:	Date/Time:	Received by:	Date/Time:
Comments:			

¹ If a sample consists of multiple containers for varying analysis, list analysis on separate lines. White – Original Yellow – Lab Copy Pink – Field Copy

² Preservation Codes: F = Frozen, C = Chilled, if preserving with acid note specific acid used (i.e HCl, HNO₃).

Battelle*The Business of Innovation*ShpNo **SHP-141125-04****Battelle Project No:** _____**Sample Receipt Form**Approved: ☒ Authorized ☐**Project Number:** 100043429**Client:** USACE**Received by:** Schumitz, Matt**Date/Time Received:** Tuesday, November 25, 2014 3:30 PM**No. of Shipping Containers:** 1**SHIPMENT****Method of Delivery:** Hand Delivered**Tracking Number:** NA**COC Forms:** ☒ Shipped with samples ☐ No Forms**Cooler(s)/Box(es)**

Cntr	Type	Tracking No.	Seal	Seal Condition	Container Condition	Temp C	Smps
1 of 1	No Container		None	Not Applicable	Not Applicable	-20.0	138

Samples

Sample Labels: ☒ Sample labels agree with COC forms
☐ Discrepancies (see Sample Custody Corrective Action Form)

Container Seals: ☐ Tape ☐ Custody Seals ☐ Other Seals (See sample Log)
☒ Seals intact for each shipping container
☐ Seals broken (See sample log for impacted samples)

Condition of Samples: ☒ Sample containers intact
☐ Sample containers broken/leaking (See Custody Corrective Action Form)

Temperature upon receipt (°C): -20 Temperature Blank used ☐ Yes ☒ No
(Note: If temperature upon receipt differs from required conditions, see sample log comment field)

Samples Acidified: ☐ Yes ☐ No ☒ Unknown

Initial pH 5-9?: ☐ Yes ☐ No ☒ NA
If no, individual sample adjustments on the Auxiliary Sample Receipt Form

Total Residual Chlorine Present?: ☐ Yes ☐ No ☒ NA
If yes, individual sample adjustments on the Auxiliary Sample Receipt Form

Head Space <1% in samples for water VOC analysis: ☐ Yes ☐ No ☒ NA
Individual sample deviations noted on sample log

Samples Containers:
 Samples returned in PC-grade jars: ☐ Yes ☐ No ☒ Unknown /Lot No.: UnKnown

Storage Location: Custody: Freezer - F0113 (NA) **BDO IDs Assigned:** L0031 - L0168

Samples logged in by: Schumitz, Matt **Date/Time:** 11/25/2014 3:30 PM

Approved By: Brackett, Roxanne **Approved On:** 12/5/2014 11:43:00 AM

Authorized By: _____ **Authorized On:** _____



The Business of Innovation

ShpNo: SHP-141125-04

Battelle Project No: 100043429

Report Corrective Actions

Corrective Action No: 1 of 1

Authorized ☐ Approved: ☐

COC Client: USACE

COC Project: New Bedford Harbor(POST)

COC Date: 11/25/2014 4:19

	Description of Problem:	Explanation:
Client Id	Missing samples listed on the C-O-C	There was a set of duplicate ID's on the COC that were not present.
	Other	Corrections made from the samplers are attached in an email.

Documentation of project manager notification

Sample Custodian Schumitz, Matt Date: 12/5/2014 3:21:00 PM

Laboratory Manager: Lizotte Jr, Robert Date: 3/2/2015 3:30:00 PM

Project Manager Peven-McCarthy, Carole Date: 3/2/2015 12:19:00 PM

Documentation of client notification (should be completed by project manager within 24 hrs):

On _____ I contacted _____ at _____

Results of communication with client (Describe any corrective action directed by the client):

Corrective actions resolved by field team. See emails included with custody records.

Date this form was received back to the custodian: _____

Reference Number: _____

Schumitz, Matthew

From: Fitzpatrick, Matthew R
Sent: Friday, December 05, 2014 11:55 AM
To: Schumitz, Matthew
Cc: Dahlen, Deirdre T; Tenzar, Jessica M
Subject: Sample ids for NBH post dredge cores

Hey Matt,

Here's a list of sample ids that had confused 0 and O in our field EDD. Additionally, station PV9 should be PU9. Can you please make sure this is how they appear in LIMs and if they don't then can you correct them?

Sample Id	Station	Date	Time
S-14N-LS03-00-05	LS03	11/19/2014	8:45
S-14N-LS03-07-12	LS03	11/19/2014	8:45
S-14N-PU9-00-05	PU9	11/18/2014	14:10
S-14N-PU9-00-05	PU9	11/18/2014	14:10
S-14N-S02-00-05	S02	11/19/2014	13:49
S-14N-S02-10-15	S02	11/19/2014	13:49
S-14N-S09-00-05	S09	11/19/2014	13:33
S-14N-S09-07-12	S09	11/19/2014	13:33

Jess- we should change the font on the labels to Consolas so that we can see the differences like above.

Matt Fitzpatrick

Battelle Energy & Environment

141 Longwater Dr.

Suite 202

Norwell, MA 02061

P: 781-681-5535 | C: 781-733-6797 | F: 614-458-6884

fitzpatrickm@battelle.org | www.battelle.org

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Sample Receipt Form Details

Approved: ☒ Authorized ☐Project Number: 100043429 Client: USACEReceived by: Schumitz, Matt Date/Time Received: Tuesday, November 25, 2014 3:30 PMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0031	S-14N-RN06-00-05	11/25/14 7:52	12/01/14 14:08	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0032	S-14N-RN06-10-15	11/25/14 7:52	12/01/14 14:08	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0033	S-14N-RR10-00-05	11/25/14 8:38	12/01/14 14:09	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0034	S-14N-RR10-05-10	11/25/14 8:38	12/01/14 14:09	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0035	S-14N-RM11-00-05	11/25/14 9:02	12/01/14 14:09	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0036	S-14N-RM11-05-10	11/25/14 9:02	12/01/14 14:09	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0037	S-14N-RS14-00-05	11/25/14 9:55	12/01/14 14:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0038	S-14N-RS14-05-10	11/25/14 9:55	12/01/14 14:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0039	S-14N-RM14-00-05	11/25/14 9:23	12/01/14 14:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0040	S-14N-RM14-05-10	11/25/14 9:23	12/01/14 14:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0041	S-14N-OI5-08-13	11/17/14 11:28	12/01/14 14:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0042	S-14N-OH10-09-14	11/17/14 11:42	12/01/14 14:11	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0043	S-14N-OH15-07-12	11/17/14 11:56	12/01/14 14:11	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0044	S-14N-OI18-05-10	11/17/14 12:15	12/01/14 14:12	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0045	S-14N-OP18-05-10	11/17/14 12:28	12/01/14 14:12	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0046	S-14N-OJ13-09-14	11/17/14 12:43	12/01/14 14:12	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0047	S-14N-OJ13-06-11-REP	11/17/14 12:58	12/01/14 14:13	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0048	S-14N-OL9-09-14	11/17/14 13:16	12/01/14 14:13	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0049	S-14N-OP10-05-10	11/17/14 13:30	12/01/14 14:13	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0050	S-14N-OP10-05-10-REP	11/17/14 13:50	12/01/14 14:14	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0051	S-14N-RDD02-06-11	11/18/14 8:15	12/01/14 14:19	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0052	S-14N-RG01-05-10	11/18/14 8:30	12/01/14 14:19	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0053	S-14N-RF07-07-12	11/18/14 9:00	12/01/14 14:19	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0054	S-14N-RF11-08-13	11/18/14 9:15	12/01/14 14:19	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0055	S-14N-RI22-12-17	11/18/14 9:25	12/01/14 14:20	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0056	S-14N-RI22-29-34	11/18/14 10:15	12/01/14 14:20	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0057	S-14N-RG24-05-10	11/18/14 10:30	12/01/14 14:20	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0058	S-14N-RG24-29-34	11/18/14 10:30	12/01/14 14:21	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☒ Authorized ☐Project Number: 100043429 Client: USACEReceived by: Schumitz, Matt Date/Time Received: Tuesday, November 25, 2014 3:30 PMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0059	S-14N-RM26-12-17	11/18/14 11:05	12/01/14 14:21	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0060	S-14N-RM26-10-15-REP	11/18/14 11:15	12/01/14 14:21	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0061	S-14N-PP2-11-16	11/18/14 12:50	12/01/14 14:22	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0062	S-14N-PQ5-05-10	11/18/14 13:05	12/01/14 14:22	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0063	S-14N-PR10-05-10	11/18/14 13:25	12/01/14 14:23	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0064	S-14N-PCC15-05-10	11/18/14 13:45	12/01/14 14:23	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0065	S-14N-PW13-05-10	11/18/14 14:00	12/01/14 14:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0066	S-14N-PU9-00-05	11/18/14 14:10	12/01/14 14:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0067	S-14N-PV5-05-10	11/18/14 14:20	12/01/14 14:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0068	S-14N-LS03-07-12	11/19/14 8:45	12/01/14 14:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0069	S-14N-LU07-07-12	11/19/14 8:59	12/01/14 14:25	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0070	S-14N-LZ02-05-10	11/19/14 9:17	12/01/14 14:25	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0071	S-14N-LY12-08-13	11/19/14 9:33	12/01/14 14:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0072	S-14N-REE06-05-10	11/19/14 10:20	12/01/14 14:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0073	S-14N-RCC10-08-13	11/19/14 10:34	12/01/14 14:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0074	S-14N-RCC14-09-14	11/19/14 10:49	12/01/14 14:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0075	S-14N-RBB22-05-10	11/19/14 11:05	12/01/14 14:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0076	S-14N-RW14-05-10	11/19/14 11:21	12/01/14 14:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0077	S-14N-RW18-05-10	11/19/14 14:36	12/01/14 14:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0078	S-14N-SL9-07-12	11/19/14 12:47	12/01/14 14:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0079	S-14N-SM6-07-12	11/19/14 13:19	12/01/14 14:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0080	S-14N-SO2-10-15	11/19/14 13:49	12/01/14 14:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0081	S-14N-SO9-07-12	11/19/14 13:33	12/01/14 14:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0082	S-14N-SL2-00-05	11/19/14 13:01	12/01/14 14:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0083	S-14N-RZ32-10-15	11/19/14 14:02	12/01/14 14:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0084	S-14N-RW30-15-20	11/19/14 14:24	12/01/14 14:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0085	S-14N-RV06-07-12	11/19/14 15:05	12/01/14 14:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0086	S-14N-RT02-05-10	11/19/14 15:14	12/01/14 14:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☒ Authorized ☐Project Number: 100043429 Client: USACEReceived by: Schumitz, Matt Date/Time Received: Tuesday, November 25, 2014 3:30 PMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0087	S-14N-LBB16-05-10	11/20/14 8:35	12/01/14 14:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0088	S-14N-RF31-09-14	11/20/14 8:55	12/01/14 14:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0089	S-14N-RH27-09-14	11/20/14 9:05	12/01/14 14:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0090	S-14N-LBB07-05-10	11/20/14 8:00	12/01/14 14:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0091	S-14N-RGG22-05-10	11/20/14 14:15	12/01/14 14:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0092	S-14N-RQ26-12-17	11/20/14 15:20	12/01/14 14:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0093	S-14N-RP30-07-12	11/20/14 14:45	12/01/14 14:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0094	S-14N-RS22-15-20	11/21/14 9:49	12/01/14 14:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0095	S-14N-RO32-08-13	11/21/14 7:56	12/01/14 14:55	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0096	S-14N-RU26-09-14	11/21/14 9:22	12/01/14 14:55	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0097	S-14N-RU32-05-15	11/21/14 8:37	12/01/14 14:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0098	S-14N-RK08-06-11	11/21/14 13:01	12/01/14 14:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0099	S-14N-RN18-07-12	11/21/14 13:27	12/01/14 14:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0100	S-14N-LU12-07-12	11/19/14 9:57	12/01/14 14:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0101	S-14N-OI5-00-05	11/17/14 11:28	12/01/14 14:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0102	S-14N-OH10-00-05	11/17/14 11:42	12/01/14 14:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0103	S-14N-OH15-00-05	11/17/14 11:56	12/01/14 14:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0104	S-14N-OI18-00-05	11/17/14 12:15	12/01/14 14:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0105	S-14N-OP18-00-05	11/17/14 12:28	12/01/14 14:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0106	S-14N-OJ13-00-05	11/17/14 12:43	12/01/14 14:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0107	S-14N-OJ13-00-05-REP	11/17/14 12:58	12/01/14 14:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0108	S-14N-OL9-00-05	11/17/14 13:16	12/01/14 14:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0109	S-14N-OP10-00-05	11/17/14 13:30	12/01/14 14:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0110	S-14N-OP10-00-05-REP	11/17/14 13:50	12/01/14 14:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0111	S-14N-RDD02-00-05	11/18/14 8:15	12/01/14 15:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0112	S-14N-RG01-00-05	11/18/14 8:30	12/01/14 15:29	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0113	S-14N-RF07-00-05	11/18/14 9:00	12/01/14 15:29	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0114	S-14N-RF11-00-05	11/18/14 9:15	12/01/14 15:29	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☒ Authorized ☐Project Number: 100043429 Client: USACEReceived by: Schumitz, Matt Date/Time Received: Tuesday, November 25, 2014 3:30 PMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0115	S-14N-RI22-00-05	11/18/14 10:15	12/01/14 15:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0116	S-14N-RG24-00-05	11/18/14 10:30	12/01/14 15:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0117	S-14N-RM26-00-05	11/18/14 11:05	12/01/14 15:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0118	S-14N-RM26-00-05-REP	11/18/14 11:15	12/01/14 15:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0119	S-14N-PP2-00-05	11/18/14 12:50	12/01/14 15:31	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0120	S-14N-PQ5-00-05	11/18/14 13:05	12/01/14 15:31	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0121	S-14N-PR10-00-05	11/18/14 13:25	12/01/14 15:31	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0122	S-14N-PCC15-00-05	11/18/14 13:45	12/01/14 15:32	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0123	S-14N-PW13-00-05	11/18/14 14:00	12/01/14 15:32	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0124	S-14N-PU9-00-05	11/18/14 14:10	12/01/14 15:32	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0125	S-14N-PV5-00-05	11/18/14 14:20	12/01/14 15:32	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0126	S-14N-LS03-00-05	11/19/14 8:45	12/01/14 15:33	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0127	S-14N-LU07-00-05	11/19/14 8:59	12/01/14 15:33	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0128	S-14N-LZ02-00-05	11/19/14 9:17	12/01/14 15:33	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0129	S-14N-LY12-00-05	11/19/14 9:33	12/01/14 15:33	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0130	S-14N-REE06-00-05	11/19/14 10:20	12/01/14 15:34	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0131	S-14N-RCC10-00-05	11/19/14 10:34	12/01/14 15:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0132	S-14N-RCC14-00-05	11/19/14 10:49	12/01/14 15:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0133	S-14N-RBB22-00-05	11/19/14 11:05	12/01/14 15:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0134	S-14N-RW14-00-05	11/19/14 11:21	12/01/14 15:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0135	S-14N-RW18-00-05	11/19/14 14:36	12/01/14 15:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0136	S-14N-SL9-00-05	11/19/14 12:47	12/01/14 15:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0137	S-14N-SM6-00-05	11/19/14 13:19	12/01/14 15:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0138	S-14N-SO2-00-05	11/19/14 13:49	12/01/14 15:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0139	S-14N-SO9-00-05	11/19/14 13:33	12/01/14 15:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0140	S-14N-SL2-00-05	11/19/14 13:01	12/01/14 15:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0141	S-14N-RZ32-00-05	11/19/14 14:02	12/01/14 15:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0142	S-14N-RW30-00-05	11/19/14 14:24	12/01/14 15:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☒ Authorized ☐Project Number: 100043429 Client: USACEReceived by: Schumitz, Matt Date/Time Received: Tuesday, November 25, 2014 3:30 PMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0143	S-14N-RV06-00-05	11/19/14 15:05	12/01/14 15:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0144	S-14N-RT02-00-05	11/19/14 15:14	12/01/14 15:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0145	S-14N-LBB16-00-05	11/20/14 8:35	12/01/14 15:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0146	S-14N-RF31-00-05	11/20/14 8:55	12/01/14 15:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0147	S-14N-RH27-00-05	11/20/14 9:05	12/01/14 15:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0148	S-14N-LBB07-00-05	11/20/14 8:00	12/01/14 15:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0149	S-14N-RGG22-00-05	11/20/14 14:15	12/01/14 15:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0150	S-14N-RQ26-00-05	11/20/14 15:20	12/01/14 15:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0151	S-14N-RP30-00-05	11/20/14 14:45	12/01/14 15:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0152	S-14N-RS22-00-05	11/21/14 9:49	12/01/14 15:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0153	S-14N-RO32-00-05	11/21/14 7:56	12/01/14 15:47	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0154	S-14N-RU26-00-05	11/21/14 9:22	12/01/14 15:48	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0155	S-14N-RU32-00-05	11/21/14 8:37	12/01/14 15:48	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0156	S-14N-RK08-00-05	11/21/14 13:01	12/01/14 15:48	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0157	S-14N-RN18-00-05	11/21/14 13:27	12/01/14 15:49	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0158	S-14N-LU12-00-05	11/19/14 9:57	12/01/14 15:49	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0159	DELETE	11/25/14 7:52	12/01/14 15:49	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0160	DELETE	11/25/14 7:52	12/01/14 15:49	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0161	DELETE	11/25/14 8:38	12/01/14 15:50	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0162	DELETE	11/25/14 8:38	12/01/14 15:50	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0163	DELETE	11/25/14 9:02	12/01/14 15:50	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0164	DELETE	11/25/14 9:02	12/01/14 15:50	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0165	DELETE	11/25/14 9:55	12/01/14 15:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0166	DELETE	11/25/14 9:55	12/01/14 15:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0167	DELETE	11/25/14 9:23	12/01/14 15:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0168	DELETE	11/25/14 9:23	12/01/14 15:52	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Total Samples: 138

 Chain of Custody						Project Manager: Jeanine Boyle Phone: (781) 952-5327				
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord , MA 01742			Samplers Signature:			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797				
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)				
						PCB	4° C	TOC	4° C	Grain Size
11/25/2014	7:52	S-14N-RN06-00-05	20031	SEDIMENT	RN06	1	X			
11/25/2014	7:52	S-14N-RN06-10-15	32	SEDIMENT	RN06	1	X			
11/25/2014	8:38	S-14N-RR10-00-05	33	SEDIMENT	RR10	1	X			
11/25/2014	8:38	S-14N-RR10-05-10	34	SEDIMENT	RR10	1	X			
11/25/2014	9:02	S-14N-RM11-00-05	35	SEDIMENT	RM11	1	X			
11/25/2014	9:02	S-14N-RM11-05-10	36	SEDIMENT	RM11	1	X			
11/25/2014	9:55	S-14N-RS14-00-05	37	SEDIMENT	RS14	1	X			
11/25/2014	9:55	S-14N-RS14-05-10	38	SEDIMENT	RS14	1	X			
11/25/2014	9:23	S-14N-RM14-00-05	39	SEDIMENT	RM14	1	X			
11/25/2014	9:23	S-14N-RM14-05-10	40	SEDIMENT	RM14	1	X			
11/17/2014	11:28	S-14N-OI5-08-13	41	SEDIMENT	OI5	1	X			
11/17/2014	11:42	S-14N-OH10-09-14	42	SEDIMENT	OH10	1	X			
11/17/2014	11:56	S-14N-OH15-07-12	43	SEDIMENT	OH15	1	X			
11/17/2014	12:15	S-14N-OI18-05-10	44	SEDIMENT	OI18	1	X			
11/17/2014	12:28	S-14N-OP18-05-10	45	SEDIMENT	OP18	1	X			
11/17/2014	12:43	S-14N-OJ13-09-14	46	SEDIMENT	OJ13	1	X			
11/17/2014	12:58	S-14N-OJ13-06-11-REP	47	SEDIMENT	OJ13	1	X			
11/17/2014	13:16	S-14N-OL9-09-14	48	SEDIMENT	OL9	1	X			
11/17/2014	13:30	S-14N-OP10-05-10	49	SEDIMENT	OP10	1	X			
11/17/2014	13:50	S-14N-OP10-05-10-REP	50	SEDIMENT	OP10	1	X			

Relinquished By (name/date/time):

Received By(name/date/time)

PBC 11-25-14 1530

MJ 11-25-14 1530

Battelle <i>The Business of Innovation</i> Chain of Custody						Project Manager: Jeanine Boyle Phone: (781) 952-5327				
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord , MA 01742			Samplers Signature:			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797				
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)				
						PCB	4° C	TOC	4° C	Grain Size
11/18/2014	8:15	S-14N-RDD02-06-11	L0051	SEDIMENT	RDD02	1	X			
11/18/2014	8:30	S-14N-RG01-05-10	" " 52	SEDIMENT	RG01	1	X			
11/18/2014	9:00	S-14N-RF07-07-12	53	SEDIMENT	RF07	1	X			
11/18/2014	9:15	S-14N-RF11-08-13	54	SEDIMENT	RF11	1	X			
11/18/2014	9:25	S-14N-RI22-12-17	55	SEDIMENT	RI22	1	X			
11/18/2014	10:15	S-14N-RI22-29-34	56	SEDIMENT	RI22	1	X			
11/18/2014	10:30	S-14N-RG24-05-10	57	SEDIMENT	RG24	1	X			
11/18/2014	10:30	S-14N-RG24-29-34	58	SEDIMENT	RG24	1	X			
11/18/2014	11:05	S-14N-RM26-12-17	59	SEDIMENT	RM26	1	X			
11/18/2014	11:15	S-14N-RM26-10-15-REP	60	SEDIMENT	RM26	1	X			
11/18/2014	12:50	S-14N-PP2-11-16	61	SEDIMENT	PP2	1	X			
11/18/2014	13:05	S-14N-PQ5-05-10	62	SEDIMENT	PQ5	1	X			
11/18/2014	13:25	S-14N-PR10-05-10	63	SEDIMENT	PR10	1	X			
11/18/2014	13:45	S-14N-PCC15-05-10	64	SEDIMENT	PCC15	1	X			
11/18/2014	14:00	S-14N-PW13-05-10	65	SEDIMENT	PW13	1	X			
11/18/2014	14:10	S-14N-PV9-00-05	66	SEDIMENT	PV9	1	X			
11/18/2014	14:20	S-14N-PV5-05-10	67	SEDIMENT	PV5	1	X			
11/19/2014	8:45	S-14N-LSO3-07-12	68	SEDIMENT	LSO3	1	X			
11/19/2014	8:59	S-14N-LU07-07-12	69	SEDIMENT	LU07	1	X			
11/19/2014	9:17	S-14N-LZ02-05-10	70	SEDIMENT	LZ02	1	X			

Relinquished By (name/date/time):

PRC 11-25-14 1530

Received By(name/date/time)

MB 11-25-14 1530

 Chain of Custody						Project Manager: Jeanine Boyle Phone: (781) 952-5327				
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord , MA 01742			Samplers Signature:			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797				
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)				
						PCB	4° C	TOC	4° C	Grain Size
11/19/2014	9:33	S-14N-LY12-08-13	L0071	SEDIMENT	LY12	1	X			
11/19/2014	10:20	S-14N-REE06-05-10	" 72	SEDIMENT	REE06	1	X			
11/19/2014	10:34	S-14N-RCC10-08-13	73	SEDIMENT	RCC10	1	X			
11/19/2014	10:49	S-14N-RCC14-09-14	74	SEDIMENT	RCC14	1	X			
11/19/2014	11:05	S-14N-RBB22-05-10	75	SEDIMENT	RBB22	1	X			
11/19/2014	11:21	S-14N-RW14-05-10	76	SEDIMENT	RW14	1	X			
11/19/2014	14:36	S-14N-RW18-05-10	77	SEDIMENT	RW18	1	X			
11/19/2014	12:47	S-14N-SL9-07-12	78	SEDIMENT	SL9	1	X			
11/19/2014	13:19	S-14N-SM6-07-12	79	SEDIMENT	SM6	1	X			
11/19/2014	13:49	S-14N-S02-10-15	80	SEDIMENT	S02	1	X			
11/19/2014	13:33	S-14N-S09-07-12	81	SEDIMENT	S09	1	X			
11/19/2014	13:01	S-14N-SL2-00-05	82	SEDIMENT	SL2	1	X			
11/19/2014	14:02	S-14N-RZ32-10-15	83	SEDIMENT	RZ32	1	X			
11/19/2014	14:24	S-14N-RW30-15-20	84	SEDIMENT	RW30	1	X			
11/19/2014	15:05	S-14N-RV06-07-12	85	SEDIMENT	RV06	1	X			
11/19/2014	15:14	S-14N-RT02-05-10	86	SEDIMENT	RT02	1	X			
11/20/2014	8:35	S-14N-LBB16-05-10	87	SEDIMENT	LBB16	1	X			
11/20/2014	8:55	S-14N-RF31-09-14	88	SEDIMENT	RF31	1	X			
11/20/2014	9:05	S-14N-RH27-09-14	89	SEDIMENT	RH27	1	X			
11/20/2014	8:00	S-14N-LBB07-05-10	90	SEDIMENT	LBB07	1	X			

Relinquished By (name/date/time):

PBC 11-25-14 1530

Received By(name/date/time)

MJB 11-25-14 1530

Battelle <i>The Business of Innovation</i> Chain of Custody						Project Manager: Jeanine Boyle Phone: (781) 952-5327				
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord , MA 01742			Samplers Signature:		Site Contact: Matt Fitzpatrick Mobile: (781)733-6797					
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)				
						PCB	4° C	TOC	4° C	Grain Size
11/20/2014	14:15	S-14N-RGG22-05-10	10091	SEDIMENT	RGG22	1	X			
11/20/2014	15:20	S-14N-RQ26-12-17	10092	SEDIMENT	RQ26	1	X			
11/20/2014	14:45	S-14N-RP30-07-12	10093	SEDIMENT	RP30	1	X			
11/21/2014	9:49	S-14N-RS22-15-20	10094	SEDIMENT	RS22	1	X			
11/21/2014	7:56	S-14N-RO32-08-13	10095	SEDIMENT	RO32	1	X			
11/21/2014	9:22	S-14N-RU26-09-14	10096	SEDIMENT	RU26	1	X			
11/21/2014	8:37	S-14N-RU32-05-15	10097	SEDIMENT	RU32	1	X			
11/21/2014	13:01	S-14N-RK08-06-11	10098	SEDIMENT	RK08	1	X			
11/21/2014	13:27	S-14N-RN18-07-12	10099	SEDIMENT	RN18	1	X			
11/19/2104	9:57	S-14N-LU12-07-12	10100	SEDIMENT	LU12	1	X			
11/17/2014	11:28	S-14N-OI5-00-05	10101	SEDIMENT	OI5	1	X			
11/17/2014	11:42	S-14N-OH10-00-05	10102	SEDIMENT	OH10	1	X			
11/17/2014	11:56	S-14N-OH15-00-05	10103	SEDIMENT	OH15	1	X			
11/17/2014	12:15	S-14N-OI18-00-05	10104	SEDIMENT	OI18	1	X			
11/17/2014	12:28	S-14N-OP18-00-05	10105	SEDIMENT	OP18	1	X			
11/17/2014	12:43	S-14N-OJ13-00-05	10106	SEDIMENT	OJ13	1	X			
11/17/2014	12:58	S-14N-OJ13-00-05-REP	10107	SEDIMENT	OJ13	1	X			
11/17/2014	13:16	S-14N-OL9-00-05	10108	SEDIMENT	OL9	1	X			
11/17/2014	13:30	S-14N-OP10-00-05	10109	SEDIMENT	OP10	1	X			
11/17/2014	13:50	S-14N-OP10-00-05-REP	10110	SEDIMENT	OP10	1	X			

Relinquished By (name/date/time):

JBK 11-25-14 1530

Received By(name/date/time)

[Signature] 11-25-14 1530

Chain of Custody

Project Manager: Jeanine Boyle

Phone: (781) 952-5327

 Ship to:
 New England District, US Army Corps of
 Engineers
 696 Virginia Ave
 Concord, MA 01742

Samplers Signature:

 Site Contact: Matt Fitzpatrick
 Mobile: (781)733-6797

Analyses (Record No. of containers / Preservative)

Date	Time	Field ID	Lab ID(s)	Matrix	station	PCB	4° C	TOC	4° C	Grain Size
11/18/2014	8:15	S-14N-RDD02-00-05	L0111	SEDIMENT	RDD02	1	X			
11/18/2014	8:30	S-14N-RG01-00-05	"1" 12	SEDIMENT	RG01	1	X			
11/18/2014	9:00	S-14N-RF07-00-05	13	SEDIMENT	RF07	1	X			
11/18/2014	9:15	S-14N-RF11-00-05	14	SEDIMENT	RF11	1	X			
11/18/2014	10:15	S-14N-RI22-00-05	15	SEDIMENT	RI22	1	X			
11/18/2014	10:30	S-14N-RG24-00-05	16	SEDIMENT	RG24	1	X			
11/18/2014	11:05	S-14N-RM26-00-05	17	SEDIMENT	RM26	1	X			
11/18/2014	11:15	S-14N-RM26-00-05-REP	18	SEDIMENT	RM26	1	X			
11/18/2014	12:50	S-14N-PP2-00-05	19	SEDIMENT	PP2	1	X			
11/18/2014	13:05	S-14N-PQ5-00-05	20	SEDIMENT	PQ5	1	X			
11/18/2014	13:25	S-14N-PR10-00-05	21	SEDIMENT	PR10	1	X			
11/18/2014	13:45	S-14N-PCC15-00-05	22	SEDIMENT	PCC15	1	X			
11/18/2014	14:00	S-14N-PW13-00-05	23	SEDIMENT	PW13	1	X			
11/18/2014	14:10	S-14N-PV9-00-05	24	SEDIMENT	PV9	1	X			
11/18/2014	14:20	S-14N-PV5-00-05	25	SEDIMENT	PV5	1	X			
11/19/2014	8:45	S-14N-LSO3-00-05	26	SEDIMENT	LSO3	1	X			
11/19/2014	8:59	S-14N-LU07-00-05	27	SEDIMENT	LU07	1	X			
11/19/2014	9:17	S-14N-LZ02-00-05	28	SEDIMENT	LZ02	1	X			
11/19/2014	9:33	S-14N-LY12-00-05	29	SEDIMENT	LY12	1	X			
11/19/2014	10:20	S-14N-REE06-00-05	30	SEDIMENT	REE06	1	X			

Relinquished By (name/date/time):

PBL 11-25-14 1530

Received By(name/date/time):

[Signature] 11-25-14 1530

Battelle

The Business of Innovation

Chain of Custody

Project Manager: Jeanine Boyle
Phone: (781) 952-5327Ship to:
New England District, US Army Corps of
Engineers
696 Virginia Ave
Concord, MA 01742

Samplers Signature:

Site Contact: Matt Fitzpatrick
Mobile: (781)733-6797

Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)				
						PCB	4° C	TOC	4° C	Grain Size
11/19/2014	10:34	S-14N-RCC10-00-05	LO31	SEDIMENT	RCC10	1	X			
11/19/2014	10:49	S-14N-RCC14-00-05	32	SEDIMENT	RCC14	1	X			
11/19/2014	11:05	S-14N-RBB22-00-05	33	SEDIMENT	RBB22	1	X			
11/19/2014	11:21	S-14N-RW14-00-05	34	SEDIMENT	RW14	1	X			
11/19/2014	14:36	S-14N-RW18-00-05	35	SEDIMENT	RW18	1	X			
11/19/2014	12:47	S-14N-SL9-00-05	36	SEDIMENT	SL9	1	X			
11/19/2014	13:19	S-14N-SM6-00-05	37	SEDIMENT	SM6	1	X			
11/19/2014	13:49	S-14N-S02-00-05	38	SEDIMENT	S02	1	X			
11/19/2014	13:33	S-14N-S09-00-05	39	SEDIMENT	S09	1	X			
11/19/2014	13:01	S-14N-SL2-00-05	40	SEDIMENT	SL2	1	X			
11/19/2014	14:02	S-14N-RZ32-00-05	41	SEDIMENT	RZ32	1	X			
11/19/2014	14:24	S-14N-RW30-00-05	42	SEDIMENT	RW30	1	X			
11/19/2014	15:05	S-14N-RV06-00-05	43	SEDIMENT	RV06	1	X			
11/19/2014	15:14	S-14N-RT02-00-05	44	SEDIMENT	RT02	1	X			
11/20/2014	8:35	S-14N-LBB16-00-05	45	SEDIMENT	LBB16	1	X			
11/20/2014	8:55	S-14N-RF31-00-05	46	SEDIMENT	RF31	1	X			
11/20/2014	9:05	S-14N-RH27-00-05	47	SEDIMENT	RH27	1	X			
11/20/2014	8:00	S-14N-LBB07-00-05	48	SEDIMENT	LBB07	1	X			
11/20/2014	14:15	S-14N-RGG22-00-05	49	SEDIMENT	RGG22	1	X			
11/20/2014	15:20	S-14N-RQ26-00-05	50	SEDIMENT	RQ26	1	X			

Relinquished By (name/date/time):

Received By(name/date/time):

PBC 11-25-14 1530

 11-25-14 1530

Battelle <i>The Business of Innovation</i>						Chain of Custody					Project Manager: Jeanine Boyle Phone: (781) 952-5327	
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord, MA 01742			Samplers Signature:			Site Contact: Matt Fitzpatrick Mobile: (781) 733-6797						
						Analyses (Record No. of containers / Preservative)						
Date	Time	Field ID	Lab ID(s)	Matrix	station	PCB	4° C	TOC	4° C	Grain Size		
11/20/2014	14:45	S-14N-RP30-00-05	10151	SEDIMENT	RP30	1	X					
11/21/2014	9:49	S-14N-RS22-00-05	52	SEDIMENT	RS22	1	X					
11/21/2014	7:56	S-14N-RO32-00-05	53	SEDIMENT	RO32	1	X					
11/21/2014	9:22	S-14N-RU26-00-05	54	SEDIMENT	RU26	1	X					
11/21/2014	8:37	S-14N-RU32-00-05	55	SEDIMENT	RU32	1	X					
11/21/2014	13:01	S-14N-RK08-00-05	56	SEDIMENT	RK08	1	X					
11/21/2014	13:27	S-14N-RN18-00-05	57	SEDIMENT	RN18	1	X					
11/19/2104	9:57	S-14N-LU12-00-05	58	SEDIMENT	LU12	1	X					
* 11/25/2014	7:52	S-14N-RN06-00-05	59	SEDIMENT	RN06	1	X					
* 11/25/2014	7:52	S-14N-RN06-10-15	60	SEDIMENT	RN06	1	X					
* 11/25/2014	8:38	S-14N-RR10-00-05	61	SEDIMENT	RR10	1	X					
* 11/25/2014	8:38	S-14N-RR10-05-10	62	SEDIMENT	RR10	1	X					
* 11/25/2014	9:02	S-14N-RM11-00-05	63	SEDIMENT	RM11	1	X					
* 11/25/2014	9:02	S-14N-RM11-05-10	64	SEDIMENT	RM11	1	X					
* 11/25/2014	9:55	S-14N-RS14-00-05	65	SEDIMENT	RS14	1	X					
* 11/25/2014	9:55	S-14N-RS14-05-10	66	SEDIMENT	RS14	1	X					
* 11/25/2014	9:23	S-14N-RM14-00-05	67	SEDIMENT	RM14	1	X					
* 11/25/2014	9:23	S-14N-RM14-05-10	68	SEDIMENT	RM14	1	X					

* Samples were duplicates.

Relinquished By (name/date/time): PBC 11-25-14 1530

Received By (name/date/time): [Signature] 11-25-14 1530

7 of 7

63-602

Battelle*The Business of Innovation*ShpNo SHP-141215-02**Battelle Project No:** _____**Sample Receipt Form**Approved: ☐ Authorized: ☐**Project Number:** 100043429**Client:** USACE**Received by:** Schumitz, Matt**Date/Time Received:** Monday, December 15, 2014 10:30 AM**No. of Shipping Containers:** 1**SHIPMENT****Method of Delivery:** Hand Delivered**Tracking Number:** Not Recorded**COC Forms:** ☒ **Shipped with samples** ☐ **No Forms****Cooler(s)/Box(es)**

Cntr	Type	Tracking No.	Seal	Seal Condition	Container Condition	Temp C	Sinps
1 of 1	No Container		None	Intact	Not Applicable	-20.0	125

Samples**Sample Labels:**

- ☒ Sample labels agree with COC forms
☐ Discrepancies (see Sample Custody Corrective Action Form)

Container Seals:

- ☐ Tape ☐ Custody Seals ☐ Other Seals (See sample Log)
☒ Seals intact for each shipping container
☐ Seals broken (See sample log for impacted samples)

Condition of Samples:

- ☒ Sample containers intact
☐ Sample containers broken/leaking (See Custody Corrective Action Form)

Temperature upon receipt (°C): -20 **Temperature Blank used** ☐ Yes ☒ No*(Note: If temperature upon receipt differs from required conditions, see sample log comment field)***Samples Acidified:**

- ☐ Yes ☐ No ☒ Unknown

Initial pH 5-9?:

- ☐ Yes ☐ No ☒ NA

*If no, individual sample adjustments on the Auxiliary Sample Receipt Form***Total Residual Chlorine Present?:** ☐ Yes ☐ No ☒ NA*If yes, individual sample adjustments on the Auxiliary Sample Receipt Form***Head Space <1% in samples for water VOC analysis:** ☐ Yes ☐ No ☒ NA*Individual sample deviations noted on sample log***Samples Containers:**Samples returned in PC-grade jars: ☐ Yes ☐ No ☒ Unknown /Lot No.: Unknown**Storage Location:** Custody: Freezer - F0113 (NA)**BDO IDs Assigned:** L0199 - L0323**Samples logged in by:** Schumitz, Matt**Date/Time:** 12/15/2014 10:30 AM**Approved By:** _____**Approved On:** _____**Authorized By:** _____**Authorized On:** _____

Sample Receipt Form Details

Approved: ☐ Authorized: ☐

Project Number: 100043429 Client: USACE

Received by: Schumitz, Matt Date/Time Received: Monday, December 15, 2014 10:30 AM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0199	S-14D-2014-36-55-00-10	12/10/14 9:55	12/15/14 10:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0200	S-14D-2014-36-55-10-20	12/10/14 9:55	12/15/14 10:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0201	S-14D-2014-36-55-20-30	12/10/14 9:55	12/15/14 10:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0202	S-14D-2014-36-56-00-10	12/10/14 10:29	12/15/14 10:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0203	S-14D-2014-36-56-10-20	12/10/14 10:29	12/15/14 10:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0204	S-14D-2014-36-56-20-30	12/10/14 10:29	12/15/14 10:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0205	S-14D-2014-36-62-00-10	12/10/14 10:44	12/15/14 10:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0206	S-14D-2014-36-62-10-20	12/10/14 10:44	12/15/14 10:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0207	S-14D-2014-36-62-20-30	12/10/14 10:44	12/15/14 10:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0208	S-14D-2014-36-63-00-10	12/10/14 10:58	12/15/14 10:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0209	S-14D-2014-36-63-10-20	12/10/14 10:58	12/15/14 10:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0210	S-14D-2014-36-63-20-30	12/10/14 10:58	12/15/14 10:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0211	S-14D-2014-36-70-00-10	12/10/14 11:10	12/15/14 10:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0212	S-14D-2014-36-70-10-20	12/10/14 11:10	12/15/14 10:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0213	S-14D-2014-36-70-20-30	12/10/14 11:10	12/15/14 10:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0214	S-14D-2014-36-68-00-10	12/10/14 12:17	12/15/14 10:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0215	S-14D-2014-36-68-10-20	12/10/14 12:17	12/15/14 11:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0216	S-14D-2014-36-68-20-30	12/10/14 12:17	12/15/14 11:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0217	S-14D-2014-36-69-00-10	12/10/14 12:31	12/15/14 11:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0218	S-14D-2014-36-69-10-20	12/10/14 12:31	12/15/14 11:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0219	S-14D-2014-36-69-20-30	12/10/14 12:31	12/15/14 11:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0220	S-14D-2014-36-60-00-10	12/10/14 12:44	12/15/14 11:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0221	S-14D-2014-36-60-10-20	12/10/14 12:44	12/15/14 11:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0222	S-14D-2014-36-60-20-30	12/10/14 12:44	12/15/14 11:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0223	S-14D-2014-36-61-00-10	12/10/14 13:00	12/15/14 11:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0224	S-14D-2014-36-61-10-20	12/10/14 13:00	12/15/14 11:02	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0225	S-14D-2014-36-61-20-30	12/10/14 13:00	12/15/14 11:02	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0226	S-14D-2014-36-73-00-10	12/10/14 14:03	12/15/14 11:02	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☐ Authorized: ☐

Project Number: 100043429 Client: USACE

Received by: Schumitz, Matt Date/Time Received: Monday, December 15, 2014 10:30 AM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0227	S-14D-2014-36-73-10-20	12/10/14 14:03	12/15/14 11:02	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0228	S-14D-2014-36-73-20-30	12/10/14 14:03	12/15/14 11:02	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0229	S-14D-2014-36-72-00-10	12/10/14 13:07	12/15/14 11:03	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0230	S-14D-2014-36-72-10-20	12/10/14 13:07	12/15/14 11:03	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0231	S-14D-2014-36-72-20-30	12/10/14 13:07	12/15/14 11:03	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0232	S-14D-2014-36-72-30-36	12/10/14 13:07	12/15/14 11:03	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0233	S-14D-2014-36-71-00-10	12/10/14 13:15	12/15/14 11:04	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0234	S-14D-2014-36-71-10-20	12/10/14 13:15	12/15/14 11:04	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0235	S-14D-2014-36-71-20-25	12/10/14 13:15	12/15/14 11:04	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0236	S-14D-2014-36-74-00-10	12/10/14 14:29	12/15/14 11:04	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0237	S-14D-2014-36-74-10-20	12/10/14 14:29	12/15/14 11:04	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0238	S-14D-2014-36-74-20-30	12/10/14 14:29	12/15/14 11:05	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0239	S-14D-2014-36-75-00-10	12/10/14 14:17	12/15/14 13:33	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0240	S-14D-2014-36-75-10-20	12/10/14 14:17	12/15/14 13:33	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0241	S-14D-2014-36-75-20-30	12/10/14 14:17	12/15/14 13:33	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0242	S-14D-2014-36-75-30-40	12/10/14 14:17	12/15/14 13:34	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0243	S-14D-2014-36-76-00-10	12/10/14 15:05	12/15/14 13:34	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0244	S-14D-2014-36-76-10-20	12/10/14 15:05	12/15/14 13:34	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0245	S-14D-2014-36-76-20-30	12/10/14 15:05	12/15/14 13:35	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0246	S-14D-2014-36-76-00-10-REP	12/10/14 14:51	12/15/14 13:35	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0247	S-14D-2014-36-76-10-20-REP	12/10/14 14:51	12/15/14 13:36	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0248	S-14D-2014-36-76-20-30-REP	12/10/14 14:51	12/15/14 13:36	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0249	S-14D-2014-36-84-00-10	12/10/14 14:44	12/15/14 13:36	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0250	S-14D-2014-36-84-10-20	12/10/14 14:44	12/15/14 13:36	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0251	S-14D-2014-36-84-20-30	12/10/14 14:44	12/15/14 13:36	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0252	S-14D-2014-33-40-00-10	12/11/14 8:35	12/15/14 13:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0253	S-14D-2014-33-40-10-20	12/11/14 8:35	12/15/14 13:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0254	S-14D-2014-33-40-20-30	12/11/14 8:35	12/15/14 13:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☐ Authorized: ☐

Project Number: 100043429 Client: USACE

Received by: Schumitz, Matt Date/Time Received: Monday, December 15, 2014 10:30 AM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0255	S-14D-2014-34-41-00-10	12/11/14 9:52	12/15/14 13:37	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0256	S-14D-2014-34-41-10-20	12/11/14 9:52	12/15/14 13:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0257	S-14D-2014-34-41-20-30	12/11/14 9:52	12/15/14 13:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0258	S-14D-2014-34-41-30-40	12/11/14 9:52	12/15/14 13:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0259	S-14D-2014-33-41-00-10	12/11/14 9:16	12/15/14 13:38	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0260	S-14D-2014-33-41-10-20	12/11/14 9:16	12/15/14 13:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0261	S-14D-2014-33-41-20-30	12/11/14 9:16	12/15/14 13:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0262	S-14D-2014-33-41-30-37	12/11/14 9:16	12/15/14 13:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0263	S-14D-2014-33-42-00-10	12/11/14 9:31	12/15/14 13:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0264	S-14D-2014-33-42-10-20	12/11/14 9:31	12/15/14 13:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0265	S-14D-2014-33-42-20-30	12/11/14 9:31	12/15/14 13:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0266	S-14D-2014-33-43-00-10	12/11/14 9:06	12/15/14 13:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0267	S-14D-2014-33-43-10-20	12/11/14 9:06	12/15/14 13:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0268	S-14D-2014-33-43-20-30	12/11/14 9:06	12/15/14 13:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0269	S-14D-2014-33-44-00-10	12/11/14 8:56	12/15/14 13:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0270	S-14D-2014-33-44-10-20	12/11/14 8:56	12/15/14 13:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0271	S-14D-2014-33-44-20-30	12/11/14 8:56	12/15/14 13:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0272	S-14D-2014-34-42-00-10	12/11/14 10:16	12/15/14 13:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0273	S-14D-2014-34-42-10-20	12/11/14 10:16	12/15/14 13:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0274	S-14D-2014-34-42-20-30	12/11/14 10:16	12/15/14 13:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0275	S-14D-2014-34-43-00-10	12/11/14 10:41	12/15/14 13:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0276	S-14D-2014-34-43-10-20	12/11/14 10:41	12/15/14 13:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0277	S-14D-2014-34-43-20-30	12/11/14 10:41	12/15/14 13:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0278	S-14D-2014-34-44-00-10	12/11/14 11:01	12/15/14 13:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0279	S-14D-2014-34-44-10-20	12/11/14 11:01	12/15/14 13:47	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0280	S-14D-2014-34-44-20-30	12/11/14 11:01	12/15/14 13:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0281	S-14D-2014-34-45-00-10	12/11/14 11:24	12/15/14 13:52	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0282	S-14D-2014-34-45-10-20	12/11/14 11:24	12/15/14 13:52	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☐ Authorized: ☐

Project Number: 100043429 Client: USACE

Received by: Schumitz, Matt Date/Time Received: Monday, December 15, 2014 10:30 AM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0283	S-14D-2014-34-45-20-30	12/11/14 11:24	12/15/14 13:52	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0284	S-14D-2014-34-46-20-30	12/11/14 12:44	12/15/14 13:52	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0285	S-14D-2014-34-46-00-10	12/11/14 12:44	12/15/14 13:53	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0286	S-14D-2014-34-46-10-20	12/11/14 12:44	12/15/14 13:53	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0287	S-14D-2014-34-46-20-30-REP	12/11/14 12:57	12/15/14 13:53	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0288	S-14D-2014-34-46-00-10-REP	12/11/14 12:57	12/15/14 13:53	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0289	S-14D-2014-34-46-10-20-REP	12/11/14 12:57	12/15/14 13:53	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0290	S-14D-2014-34-47-20-30	12/11/14 13:21	12/15/14 13:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0291	S-14D-2014-34-47-00-10	12/11/14 13:21	12/15/14 13:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0292	S-14D-2014-34-47-10-20	12/11/14 13:21	12/15/14 13:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0293	S-14D-2014-36-64-20-30	12/11/14 13:43	12/15/14 13:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0294	S-14D-2014-36-64-00-10	12/11/14 13:43	12/15/14 13:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0295	S-14D-2014-36-64-10-20	12/11/14 13:43	12/15/14 13:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0296	S-14D-2014-35-74-30-37	12/12/14 8:41	12/15/14 13:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0297	S-14D-2014-35-75-30-37	12/12/14 8:52	12/15/14 13:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0298	S-14D-2014-35-77-30-33	12/12/14 9:01	12/15/14 13:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0299	S-14D-2014-35-79-30-32	12/12/14 9:19	12/15/14 13:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0300	S-14D-2014-35-80-30-34	12/12/14 10:30	12/15/14 13:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0301	S-14D-2014-35-81-30-34	12/12/14 9:40	12/15/14 14:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0302	S-14D-2014-35-74-00-10	12/12/14 8:41	12/15/14 14:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0303	S-14D-2014-35-74-10-20	12/12/14 8:41	12/15/14 14:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0304	S-14D-2014-35-74-20-30	12/12/14 8:41	12/15/14 14:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0305	S-14D-2014-35-75-00-10	12/12/14 8:52	12/15/14 14:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0306	S-14D-2014-35-75-10-20	12/12/14 8:52	12/15/14 14:02	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0307	S-14D-2014-35-75-20-30	12/12/14 8:52	12/15/14 14:02	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0308	S-14D-2014-35-76-00-10	12/12/14 9:11	12/15/14 14:02	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0309	S-14D-2014-35-76-10-20	12/12/14 9:11	12/15/14 14:02	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0310	S-14D-2014-35-76-20-30	12/12/14 9:11	12/15/14 14:02	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☐ Authorized: ☐

Project Number: 100043429 Client: USACE

Received by: Schumitz, Matt Date/Time Received: Monday, December 15, 2014 10:30 AM

No. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0311	S-14D-2014-35-76-30-35	12/12/14 9:11	12/15/14 14:02	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0312	S-14D-2014-35-77-00-10	12/12/14 9:01	12/15/14 14:03	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0313	S-14D-2014-35-77-10-20	12/12/14 9:01	12/15/14 14:03	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0314	S-14D-2014-35-77-20-30	12/12/14 9:01	12/15/14 14:03	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0315	S-14D-2014-35-79-00-10	12/12/14 9:19	12/15/14 14:03	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0316	S-14D-2014-35-79-10-20	12/12/14 9:19	12/15/14 14:04	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0317	S-14D-2014-35-79-20-30	12/12/14 9:19	12/15/14 14:04	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0318	S-14D-2014-35-80-00-10	12/12/14 10:30	12/15/14 14:04	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0319	S-14D-2014-35-80-10-20	12/12/14 10:30	12/15/14 14:05	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0320	S-14D-2014-35-80-20-30	12/12/14 10:30	12/15/14 14:05	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0321	S-14D-2014-35-81-00-10	12/12/14 9:40	12/15/14 14:05	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0322	S-14D-2014-35-81-10-20	12/12/14 9:40	12/15/14 14:06	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0323	S-14D-2014-35-81-20-30	12/12/14 9:40	12/15/14 14:06	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Total Samples: 125

 Chain of Custody						Project Manager: Deirdre Dahlen Phone: (781) 681-5522							
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord, MA 01742			Samplers Signature: MRF, PS			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797							
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/10/2014	9:55	S-14D-2014-36-55-00-10	L0199	Sediment	2014-36-55	1	X						
12/10/2014	9:55	S-14D-2014-36-55-10-20	" 200		2014-36-55	1	X						
12/10/2014	9:55	S-14D-2014-36-55-20-30	01		2014-36-55	1	X						
12/10/2014	10:29	S-14D-2014-36-56-00-10	02		2014-36-56	1	X						
12/10/2014	10:29	S-14D-2014-36-56-10-20	03		2014-36-56	1	X						
12/10/2014	10:29	S-14D-2014-36-56-20-30	04		2014-36-56	1	X						
12/10/2014	10:44	S-14D-2014-36-62-00-10	05		2014-36-62	1	X						
12/10/2014	10:44	S-14D-2014-36-62-10-20	06		2014-36-62	1	X						
12/10/2014	10:44	S-14D-2014-36-62-20-30	07		2014-36-62	1	X						
12/10/2014	10:58	S-14D-2014-36-63-00-10	08		2014-36-63	1	X						
12/10/2014	10:58	S-14D-2014-36-63-10-20	09		2014-36-63	1	X						
12/10/2014	10:58	S-14D-2014-36-63-20-30	10		2014-36-63	1	X						
12/10/2014	11:10	S-14D-2014-36-70-00-10	11		2014-36-70	1	X						
12/10/2014	11:10	S-14D-2014-36-70-10-20	12		2014-36-70	1	X						
12/10/2014	11:10	S-14D-2014-36-70-20-30	13		2014-36-70	1	X						
12/10/2014	12:17	S-14D-2014-36-68-00-10	14		2014-36-68	1	X						
12/10/2014	12:17	S-14D-2014-36-68-10-20	15		2014-36-68	1	X						
12/10/2014	12:17	S-14D-2014-36-68-20-30	16		2014-36-68	1	X						
12/10/2014	12:31	S-14D-2014-36-69-00-10	17		2014-36-69	1	X						
12/10/2014	12:31	S-14D-2014-36-69-10-20	18		2014-36-69	1	X						

Relinquished By (name/date/time):

Sam Guimaraes 12/15/14 10:30 AM

Received By(name/date/time):

Mg 12/15/14 1030

 Chain of Custody						Project Manager: Deirdre Dahlen Phone: (781) 681-5522							
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord, MA 01742			Samplers Signature: MRF, PS			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797							
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/10/2014	12:31	S-14D-2014-36-69-20-30	60219	Sediment	2014-36-69	1	X						
12/10/2014	12:44	S-14D-2014-36-60-00-10	20		2014-36-60	1	X						
12/10/2014	12:44	S-14D-2014-36-60-10-20	21		2014-36-60	1	X						
12/10/2014	12:44	S-14D-2014-36-60-20-30	22		2014-36-60	1	X						
12/10/2014	13:00	S-14D-2014-36-61-00-10	23		2014-36-61	1	X						
12/10/2014	13:00	S-14D-2014-36-61-10-20	24		2014-36-61	1	X						
12/10/2014	13:00	S-14D-2014-36-61-20-30	25		2014-36-61	1	X						
12/10/2014	14:03	S-14D-2014-36-73-00-10	26		2014-36-73	1	X						
12/10/2014	14:03	S-14D-2014-36-73-10-20	27		2014-36-73	1	X						
12/10/2014	14:03	S-14D-2014-36-73-20-30	28		2014-36-73	1	X						
12/10/2014	13:07	S-14D-2014-36-72-00-10	29		2014-36-72	1	X						
12/10/2014	13:07	S-14D-2014-36-72-10-20	30		2014-36-72	1	X						
12/10/2014	13:07	S-14D-2014-36-72-20-30	31		2014-36-72	1	X						
12/10/2014	13:07	S-14D-2014-36-72-30-36	32		2014-36-72	1	X						
12/10/2014	13:15	S-14D-2014-36-71-00-10	33		2014-36-71	1	X						
12/10/2014	13:15	S-14D-2014-36-71-10-20	34		2014-36-71	1	X						
12/10/2014	13:15	S-14D-2014-36-71-20-25	35		2014-36-71	1	X						
12/10/2014	14:29	S-14D-2014-36-74-00-10	36		2014-36-74	1	X						
12/10/2014	14:29	S-14D-2014-36-74-10-20	37		2014-36-74	1	X						
12/10/2014	14:29	S-14D-2014-36-74-20-30	38		2014-36-74	1	X						

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Received By(name/date/time):

MM 12/15/14 1030

 Chain of Custody <i>The Business of Innovation</i>						Project Manager: Deirdre Dahlen Phone: (781) 681-5522								
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord, MA 01742			Samplers Signature: MRF, PS			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797								
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)								
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin	
12/10/2014	14:17	S-14D-2014-36-75-00-10	L0239	Sediment	2014-36-75	1	X							
12/10/2014	14:17	S-14D-2014-36-75-10-20	" "40		2014-36-75	1	X							
12/10/2014	14:17	S-14D-2014-36-75-20-30	41		2014-36-75	1	X							
12/10/2014	14:17	S-14D-2014-36-75-30-40	42		2014-36-75	1	X							
12/10/2014	15:05	S-14D-2014-36-76-00-10	43		2014-36-76	1	X							
12/10/2014	15:05	S-14D-2014-36-76-10-20	44		2014-36-76	1	X							
12/10/2014	15:05	S-14D-2014-36-76-20-30	45		2014-36-76	1	X							
12/10/2014	14:51	S-14D-2014-36-76-00-10-REP	46		2014-36-76	1	X							
12/10/2014	14:51	S-14D-2014-36-76-10-20-REP	47		2014-36-76	1	X							
12/10/2014	14:51	S-14D-2014-36-76-20-30-REP	48		2014-36-76	1	X							
12/10/2014	14:44	S-14D-2014-36-84-00-10	49		2014-36-84	1	X							
12/10/2014	14:44	S-14D-2014-36-84-10-20	50		2014-36-84	1	X							
12/10/2014	14:44	S-14D-2014-36-84-20-30	51		2014-36-84	1	X							
12/11/2014	8:35	S-14D-2014-33-40-00-10	52		2014-33-40	1	X							
12/11/2014	8:35	S-14D-2014-33-40-10-20	53		2014-33-40	1	X							
12/11/2014	8:35	S-14D-2014-33-40-20-30	54		2014-33-40	1	X							
12/11/2014	9:52	S-14D-2014-34-41-00-10	55		2014-34-41	1	X							
12/11/2014	9:52	S-14D-2014-34-41-10-20	56		2014-34-41	1	X							
12/11/2014	9:52	S-14D-2014-34-41-20-30	57		2014-34-41	1	X							
12/11/2014	9:52	S-14D-2014-34-41-30-40	58		2014-34-41	1	X							

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Received By(name/date/time):

MMA 12/15/14 1030

 Chain of Custody <i>The Business of Innovation</i>						Project Manager: Deirdre Dahlen Phone: (781) 681-5522							
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord, MA 01742			Samplers Signature: MRF, PS			Site Contact: Matt Fitzpatrick Mobile: (781) 733-6797							
Date	Time	Field ID	Lab ID(s)	Matrix	Station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/11/2014	9:16	S-14D-2014-33-41-00-10	60259	Sediment	2014-33-41	1	X						
12/11/2014	9:16	S-14D-2014-33-41-10-20	60		2014-33-41	1	X						
12/11/2014	9:16	S-14D-2014-33-41-20-30	61		2014-33-41	1	X						
12/11/2014	9:16	S-14D-2014-33-41-30-37	62		2014-33-41	1	X						
12/11/2014	9:31	S-14D-2014-33-42-00-10	63		2014-33-42	1	X						
12/11/2014	9:31	S-14D-2014-33-42-10-20	64		2014-33-42	1	X						
12/11/2014	9:31	S-14D-2014-33-42-20-30	65		2014-33-42	1	X						
12/11/2014	9:06	S-14D-2014-33-43-00-10	66		2014-33-43	1	X						
12/11/2014	9:06	S-14D-2014-33-43-10-20	67		2014-33-43	1	X						
12/11/2014	9:06	S-14D-2014-33-43-20-30	68		2014-33-43	1	X						
12/11/2014	8:56	S-14D-2014-33-44-00-10	69		2014-33-44	1	X						
12/11/2014	8:56	S-14D-2014-33-44-10-20	70		2014-33-44	1	X						
12/11/2014	8:56	S-14D-2014-33-44-20-30	71		2014-33-44	1	X						
12/11/2014	10:16	S-14D-2014-34-42-00-10	72		2014-34-42	1	X						
12/11/2014	10:16	S-14D-2014-34-42-10-20	73		2014-34-42	1	X						
12/11/2014	10:16	S-14D-2014-34-42-20-30	74		2014-34-42	1	X						
12/11/2014	10:41	S-14D-2014-34-43-00-10	75		2014-34-43	1	X						
12/11/2014	10:41	S-14D-2014-34-43-10-20	76		2014-34-43	1	X						
12/11/2014	10:41	S-14D-2014-34-43-20-30	77		2014-34-43	1	X						
12/11/2014	11:01	S-14D-2014-34-44-00-10	78		2014-34-44	1	X						

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MW 12/15/14 1030

 Chain of Custody <i>The Business of Innovation</i>						Project Manager: Deirdre Dahlen Phone: (781) 681-5522							
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord, MA 01742			Samplers Signature: MRF, PS			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797							
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/11/2014	11:01	S-14D-2014-34-44-10-20	L0279	Sediment	2014-34-44	1	X						
12/11/2014	11:01	S-14D-2014-34-44-20-30	80		2014-34-44	1	X						
12/11/2014	11:24	S-14D-2014-34-45-00-10	81		2014-34-45	1	X						
12/11/2014	11:24	S-14D-2014-34-45-10-20	82		2014-34-45	1	X						
12/11/2014	11:24	S-14D-2014-34-45-20-30	83		2014-34-45	1	X						
12/11/2014	12:44	S-14D-2014-34-46-20-30	84		2014-34-46	1	X						
12/11/2014	12:44	S-14D-2014-34-46-00-10	85		2014-34-46	1	X						
12/11/2014	12:44	S-14D-2014-34-46-10-20	86		2014-34-46	1	X						
12/11/2014	12:57	S-14D-2014-34-46-20-30-REP	87		2014-34-46	1	X						
12/11/2014	12:57	S-14D-2014-34-46-00-10-REP	88		2014-34-46	1	X						
12/11/2014	12:57	S-14D-2014-34-46-10-20-REP	89		2014-34-46	1	X						
12/11/2014	13:21	S-14D-2014-34-47-20-30	90		2014-34-47	1	X						
12/11/2014	13:21	S-14D-2014-34-47-00-10	91		2014-34-47	1	X						
12/11/2014	13:21	S-14D-2014-34-47-10-20	92		2014-34-47	1	X						
12/11/2014	13:43	S-14D-2014-36-64-20-30	93		2014-36-64	1	X						
12/11/2014	13:43	S-14D-2014-36-64-00-10	94		2014-36-64	1	X						
12/11/2014	13:43	S-14D-2014-36-64-10-20	95		2014-36-64	1	X						
12/12/2014	8:41	S-14D-2014-35-74-30-37	96		2014-35-74	1	X						
12/12/2014	8:52	S-14D-2014-35-75-30-37	97		2014-35-75	1	X						
12/12/2014	9:01	S-14D-2014-35-77-30-33	98		2014-35-77	1	X						

Relinquished By (name/date/time):

Sam Guimaraes 12/15/14 10:30 AM

Received By (name/date/time):

MA 12/15/14 1030

 Chain of Custody <i>The Business of Innovation</i>						Project Manager: Deirdre Dahlen Phone: (781) 681-5522							
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord, MA 01742			Samplers Signature: MRF, PS			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797							
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/12/2014	9:19 ✓	S-14D-2014-35-79-30-32	L0299	Sediment	2014-35-79	1	X						
12/12/2014	10:30	S-14D-2014-35-80-30-34	" 300		2014-35-80	1	X						
12/12/2014	9:40	S-14D-2014-35-81-30-34	01		2014-35-81	1	X						
12/12/2014	8:41	S-14D-2014-35-74-00-10	02		2014-35-74	1	X						
12/12/2014	8:41	S-14D-2014-35-74-10-20	03		2014-35-74	1	X						
12/12/2014	8:41	S-14D-2014-35-74-20-30	04		2014-35-74	1	X						
12/12/2014	8:52	S-14D-2014-35-75-00-10	05		2014-35-75	1	X						
12/12/2014	8:52	S-14D-2014-35-75-10-20	06		2014-35-75	1	X						
12/12/2014	8:52	S-14D-2014-35-75-20-30	07		2014-35-75	1	X						
12/12/2014	9:11	S-14D-2014-35-76-00-10	08		2014-35-76	1	X						
12/12/2014	9:11	S-14D-2014-35-76-10-20	09		2014-35-76	1	X						
12/12/2014	9:11	S-14D-2014-35-76-20-30	10		2014-35-76	1	X						
12/12/2014	9:11	S-14D-2014-35-76-30-35	11		2014-35-76	1	X						
12/12/2014	9:01	S-14D-2014-35-77-00-10	12		2014-35-77	1	X						
12/12/2014	9:01	S-14D-2014-35-77-10-20	13		2014-35-77	1	X						
12/12/2014	9:01	S-14D-2014-35-77-20-30	14		2014-35-77	1	X						
12/12/2014	9:19 ✓	S-14D-2014-35-79-00-10	15		2014-35-79	1	X						
12/12/2014	9:19 ✓	S-14D-2014-35-79-10-20	16		2014-35-79	1	X						
12/12/2014	9:19 ✓	S-14D-2014-35-79-20-30	17		2014-35-79	1	X						
12/12/2014	10:30	S-14D-2014-35-80-00-10	18		2014-35-80	1	X						

Relinquished By (name/date/time):

Sam Guimaraes 12/15/14 10:30 AM

Received By (name/date/time):

12/15/14 1030

Battelle <i>The Business of Innovation</i>						Chain of Custody								Project Manager: Deirdre Dahlen Phone: (781) 681-5522			
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord, MA 01742				Samplers Signature: MRF, PS		Site Contact: Matt Fitzpatrick Mobile: (781)733-6797											
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)											
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin				
12/12/2014	10:30	S-14D-2014-35-80-10-20	10319	Sediment	2014-35-80	1	X										
12/12/2014	10:30	S-14D-2014-35-80-20-30	20		2014-35-80	1	X										
12/12/2014	9:40	S-14D-2014-35-81-00-10	21		2014-35-81	1	X										
12/12/2014	9:40	S-14D-2014-35-81-10-20	22		2014-35-81	1	X										
12/12/2014	9:40	S-14D-2014-35-81-20-30	23		2014-35-81	1	X										

Relinquished By (name/date/time):
Sam Guimaraes 12/15/14 10:30 AM

Received By(name/date/time):
MA 12/15/14 1030

7 of 7

76 of 802

Battelle*The Business of Innovation*ShpNo SHP-141217-02**Battelle Project No: 100043429****Sample Receipt Form**Approved: ☐ *Authorized* ☐Project Number: 100043429Client: USACEReceived by: Schumitz, MattDate/Time Received: Wednesday, December 17, 2014 3:00 PMNo. of Shipping Containers: 2**SHIPMENT**Method of Delivery: Hand DeliveredTracking Number: NACOC Forms: ☒ Shipped with samples ☐ No Forms**Cooler(s)/Box(es)**

Cntr	Type	Tracking No.	Seal	Seal Condition	Container Condition	Temp C	Smgs
1 of 2	Cooler		None	Not Applicable	Not Applicable	1.0	1
2 of 2	Cardboard Box		None	Not Applicable	Not Applicable	-20.0	107

Samples

Sample Labels:

- ☒ Sample labels agree with COC forms
☐ Discrepancies (see Sample Custody Corrective Action Form)

Container Seals:

- ☐ Tape ☐ Custody Seals ☐ Other Seals (See sample Log)
☒ Seals intact for each shipping container
☐ Seals broken (See sample log for impacted samples)

Condition of Samples:

- ☒ Sample containers intact
☐ Sample containers broken/leaking (See Custody Corrective Action Form)

Temperature upon receipt (°C): 1 Temperature Blank used ☐ Yes ☒ No*(Note: If temperature upon receipt differs from required conditions, see sample log comment field)*

Samples Acidified:

- ☐ Yes ☐ No ☒ Unknown

Initial pH 5-9?:

- ☐ Yes ☐ No ☒ NA

*If no, individual sample adjustments on the Auxiliary Sample Receipt Form*Total Residual Chlorine Present?: ☐ Yes ☐ No ☒ NA*If yes, individual sample adjustments on the Auxiliary Sample Receipt Form*Head Space <1% in samples for water VOC analysis: ☐ Yes ☐ No ☒ NA*Individual sample deviations noted on sample log*

Samples Containers:

Samples returned in PC-grade jars: ☐ Yes ☐ No ☒ Unknown /Lot No.: UnKnownStorage Location: Custody: Freezer - F0113 (NA)BDO IDs Assigned: L0336 - L0443Samples logged in by: Schumitz, MattDate/Time: 12/17/2014 3:00 PM

Approved By: _____

Approved On: _____

Authorized By: _____

Authorized On: _____

Sample Receipt Form Details

Approved: ☐ ☒ ☐

Project Number: 100043429 Client: USACE

Received by: Schumitz, Matt Date/Time Received: Wednesday, December 17, 2014 3:00 PM

No. of Shipping Containers: 2

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0336	S-14D-EB1-00-00-EB	12/17/14 11:08	12/17/14 15:26	3	WATER	1	NA	NA	NA	R0118 (NA)			
L0337	S-14D-2014-35-69-20-30	12/12/14 14:39	12/18/14 10:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0338	S-14D-2014-35-72-20-30	12/12/14 14:17	12/18/14 10:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0339	S-14D-2014-35-73-20-30	12/12/14 11:39	12/18/14 10:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0340	S-14D-2014-36-57-20-30	12/12/14 13:13	12/18/14 10:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0341	S-14D-2014-36-58-20-30	12/12/14 13:34	12/18/14 10:24	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0342	S-14D-2014-36-65-20-30	12/12/14 13:50	12/18/14 10:25	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0343	S-14D-2014-36-66-20-28	12/15/14 8:39	12/18/14 10:25	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0344	S-14D-2014-36-67-20-30	12/15/14 9:27	12/18/14 10:25	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0345	S-14D-2014-36-77-20-28	12/15/14 12:39	12/18/14 10:26	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0346	S-14D-2014-36-78-20-28	12/15/14 12:29	12/18/14 10:26	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0347	S-14D-2014-36-81-20-30	12/15/14 12:19	12/18/14 10:26	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0348	S-14D-2014-36-86-20-30	12/15/14 14:27	12/18/14 10:26	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0349	S-14D-2014-36-85-20-30-REP	12/15/14 14:54	12/18/14 10:27	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0350	S-14D-2014-36-59-20-30	12/15/14 13:49	12/18/14 10:27	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0351	S-14D-2014-36-85-20-29	12/15/14 14:47	12/18/14 10:27	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0352	S-14D-2014-36-88-20-29	12/15/14 15:20	12/18/14 10:28	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0353	S-14D-2014-36-87-20-30	12/15/14 15:12	12/18/14 10:28	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0354	S-14D-2014-35-71-20-30	12/16/14 9:29	12/18/14 10:28	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0355	S-14D-2014-35-71-30-40	12/16/14 9:29	12/18/14 10:28	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0356	S-14D-2014-34-48-20-30	12/16/14 8:49	12/18/14 10:29	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0357	S-14D-2014-35-70-20-30	12/16/14 9:07	12/18/14 10:34	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0358	S-14D-2014-35-70-30-40	12/16/14 9:07	12/18/14 10:34	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0359	S-14D-2014-36-79-20-30	12/16/14 10:28	12/18/14 10:34	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0360	S-14D-2014-35-78-20-30	12/16/14 11:46	12/18/14 10:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0361	S-14D-2014-36-89-20-30	12/16/14 10:05	12/18/14 10:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0362	S-14D-2014-37-34-20-30	12/16/14 13:45	12/18/14 11:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0363	S-14D-2014-37-33-00-10	12/16/14 13:29	12/18/14 11:09	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☐ Authorized: ☐

Project Number: 100043429 Client: USACE

Received by: Schumitz, Matt Date/Time Received: Wednesday, December 17, 2014 3:00 PM

No. of Shipping Containers: 2

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0364	S-14D-2014-37-35-20-30	12/16/14 13:57	12/18/14 11:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0365	S-14D-2014-37-36-20-30	12/16/14 14:07	12/18/14 11:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0366	S-14D-2014-36-82-20-30	12/16/14 15:33	12/18/14 11:10	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0367	S-14D-2014-36-90-20-30	12/17/14 8:57	12/18/14 11:11	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0368	S-14D-2014-35-7-20-30	12/17/14 8:40	12/18/14 11:11	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0369	S-14D-2014-35-69-00-10	12/12/14 14:39	12/18/14 11:11	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0370	S-14D-2014-35-69-10-20	12/12/14 14:39	12/18/14 11:11	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0371	S-14D-2014-35-72-00-10	12/12/14 14:17	12/18/14 11:12	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0372	S-14D-2014-35-72-10-20	12/12/14 14:17	12/18/14 11:12	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0373	S-14D-2014-35-73-00-10	12/12/14 11:39	12/18/14 11:12	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0374	S-14D-2014-35-73-10-20	12/12/14 11:39	12/18/14 11:12	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0375	S-14D-2014-36-57-00-10	12/12/14 13:13	12/18/14 11:12	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0376	S-14D-2014-36-57-10-20	12/12/14 13:13	12/18/14 11:13	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0377	S-14D-2014-36-58-00-10	12/12/14 13:34	12/18/14 11:13	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0378	S-14D-2014-36-58-10-20	12/12/14 13:34	12/18/14 11:14	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0379	S-14D-2014-36-65-00-10	12/12/14 13:50	12/18/14 11:14	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0380	S-14D-2014-36-65-10-20	12/12/14 13:50	12/18/14 11:14	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0381	S-14D-2014-36-66-00-10	12/15/14 8:39	12/18/14 11:14	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0382	S-14D-2014-36-66-10-20	12/15/14 8:39	12/18/14 11:15	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0383	S-14D-2014-36-67-00-10	12/15/14 9:27	12/18/14 11:15	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0384	S-14D-2014-36-67-10-20	12/15/14 9:27	12/18/14 11:15	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0385	S-14D-2014-36-77-00-10	12/15/14 12:39	12/18/14 11:15	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0386	S-14D-2014-36-77-10-20	12/15/14 12:39	12/18/14 11:16	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0387	S-14D-2014-36-78-00-10	12/15/14 12:29	12/18/14 11:16	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0388	S-14D-2014-36-78-10-20	12/15/14 12:29	12/18/14 11:16	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0389	S-14D-2014-36-81-00-10	12/15/14 12:19	12/18/14 11:16	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0390	S-14D-2014-36-81-10-20	12/15/14 12:19	12/18/14 11:16	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0391	S-14D-2014-36-86-00-10	12/15/14 14:27	12/18/14 11:17	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☐ Authorized: ☐

Project Number: 100043429 **Client:** USACE

Received by: Schumitz, Matt **Date/Time Received:** Wednesday, December 17, 2014 3:00 PM

No. of Shipping Containers: 2

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0392	S-14D-2014-36-86-10-20	12/15/14 14:27	12/18/14 11:17	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0393	S-14D-2014-36-85-00-10-REP	12/15/14 14:54	12/18/14 11:17	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0394	S-14D-2014-36-85-10-20-REP	12/15/14 14:54	12/18/14 11:18	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0395	S-14D-2014-36-59-00-10	12/15/14 13:49	12/18/14 11:18	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0396	S-14D-2014-36-59-10-20	12/15/14 13:49	12/18/14 11:18	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0397	S-14D-2014-36-85-00-10	12/15/14 14:47	12/18/14 11:27	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0398	S-14D-2014-36-85-10-20	12/15/14 14:47	12/18/14 11:28	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0399	S-14D-2014-36-88-00-10	12/15/14 15:20	12/18/14 11:28	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0400	S-14D-2014-36-88-10-20	12/15/14 15:20	12/18/14 11:28	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0401	S-14D-2014-36-87-00-10	12/15/14 15:12	12/18/14 11:28	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0402	S-14D-2014-36-87-10-20	12/15/14 15:12	12/18/14 11:28	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0403	S-14D-2014-35-68-00-10	12/16/14 8:31	12/18/14 11:29	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0404	S-14D-2014-35-68-10-20	12/16/14 8:31	12/18/14 11:29	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0405	S-14D-2014-35-68-20-30	12/16/14 8:31	12/18/14 11:29	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0406	S-14D-2014-35-68-00-10-REP	12/16/14 8:40	12/18/14 11:29	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0407	S-14D-2014-35-68-10-20-REP	12/16/14 8:40	12/18/14 11:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0408	S-14D-2014-35-68-20-30-REP	12/16/14 8:40	12/18/14 11:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0409	S-14D-2014-35-71-00-10	12/16/14 9:29	12/18/14 11:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0410	S-14D-2014-35-71-10-20	12/16/14 9:29	12/18/14 11:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0411	S-14D-2014-34-48-00-10	12/16/14 8:49	12/18/14 11:30	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0412	S-14D-2014-34-48-10-20	12/16/14 8:49	12/18/14 11:31	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0413	S-14D-2014-35-70-00-10	12/16/14 9:07	12/18/14 11:31	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0414	S-14D-2014-35-70-10-20	12/16/14 9:07	12/18/14 11:31	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0415	S-14D-2014-36-79-00-10	12/16/14 10:28	12/18/14 11:31	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0416	S-14D-2014-36-79-10-20	12/16/14 10:28	12/18/14 11:32	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0417	S-14D-2014-35-78-00-10	12/16/14 11:46	12/18/14 11:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0418	S-14D-2014-35-78-10-20	12/16/14 11:46	12/18/14 11:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0419	S-14D-2014-36-89-00-10	12/16/14 10:05	12/18/14 11:39	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☐ authorized ☐

Project Number: 100043429 **Client:** USACE

Received by: Schumitz, Matt **Date/Time Received:** Wednesday, December 17, 2014 3:00 PM

No. of Shipping Containers: 2

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0420	S-14D-2014-36-89-10-20	12/16/14 10:05	12/18/14 11:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0421	S-14D-2014-37-34-00-10	12/16/14 13:45	12/18/14 11:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0422	S-14D-2014-37-34-10-20	12/16/14 13:45	12/18/14 11:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0423	S-14D-2014-37-33-10-20	12/16/14 13:29	12/18/14 11:40	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0424	S-14D-2014-37-33-20-30	12/16/14 13:29	12/18/14 11:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0425	S-14D-2014-37-33-30-36	12/16/14 13:29	12/18/14 11:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0426	S-14D-2014-37-35-00-10	12/16/14 13:57	12/18/14 11:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0427	S-14D-2014-37-35-10-20	12/16/14 13:57	12/18/14 11:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0428	S-14D-2014-37-36-00-10	12/16/14 14:07	12/18/14 11:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0429	S-14D-2014-37-36-10-20	12/16/14 14:07	12/18/14 11:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0430	S-14D-2014-36-80-00-10	12/16/14 15:59	12/18/14 11:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0431	S-14D-2014-36-80-10-20	12/16/14 15:59	12/18/14 11:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0432	S-14D-2014-36-82-00-10	12/16/14 15:33	12/18/14 11:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0433	S-14D-2014-36-82-10-20	12/16/14 15:33	12/18/14 11:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0434	S-14D-2014-37-37-00-10	12/16/14 14:59	12/18/14 11:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0435	S-14D-2014-37-37-10-20	12/16/14 14:59	12/18/14 11:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0436	S-14D-2014-37-37-20-30	12/16/14 14:59	12/18/14 11:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0437	S-14D-2014-37-37-30-40	12/16/14 14:59	12/18/14 11:45	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0438	S-14D-2014-37-37-40-50	12/16/14 14:59	12/18/14 11:45	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0439	S-14D-2014-37-37-50-60	12/16/14 14:59	12/18/14 11:45	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0440	S-14D-2014-36-90-00-10	12/17/14 8:57	12/18/14 11:45	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0441	S-14D-2014-36-90-10-20	12/17/14 8:57	12/18/14 11:45	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0442	S-14D-2014-35-7-00-10	12/17/14 8:40	12/18/14 11:46	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0443	S-14D-2014-35-7-10-20	12/17/14 8:40	12/18/14 11:46	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Total Samples: 108

Chain of Custody

Project Manager: Deirdre Dahlen
Phone: (781) 681-5522

Ship to:
New England District, US Army Corps of
Engineers
696 Virginia Ave
Concord , MA 01742

Samplers Signature: MRF, PDS

Site Contact: Matt Fitzpatrick
Mobile: (781)733-6797

							Analyses (Record No. of containers / Preservative)						
Date	Time	Field ID	Lab ID(s)	Matrix	station	PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/12/2014	14:39	S-14D-2014-35-69-20-30	L0337	Sediment	2014-35-69	1	X						
12/12/2014	14:17	S-14D-2014-35-72-20-30	" 38		2014-35-72	1	X						
12/12/2014	11:39	S-14D-2014-35-73-20-30	39		2014-35-73	1	X						
12/12/2014	13:13	S-14D-2014-36-57-20-30	40		2014-36-57	1	X						
12/12/2014	13:34	S-14D-2014-36-58-20-30	41		2014-36-58	1	X						
12/12/2014	13:50	S-14D-2014-36-65-20-30	42		2014-36-65	1	X						
12/15/2014	8:39	S-14D-2014-36-66-20-28	43		2014-36-66	1	X						
12/15/2014	9:27	S-14D-2014-36-67-20-30	44		2014-36-67	1	X						
12/15/2014	12:39	S-14D-2014-36-77-20-28	45		2014-36-77	1	X						
12/15/2014	12:29	S-14D-2014-36-78-20-28	46		2014-36-78	1	X						
12/15/2014	12:19	S-14D-2014-36-81-20-30	47		2014-36-81	1	X						
12/15/2014	14:27	S-14D-2014-36-86-20-30	48		2014-36-86	1	X						
12/15/2014	14:54	S-14D-2014-36-85-20-30-REP	49		2014-36-85	1	X						
12/15/2014	13:49	S-14D-2014-36-59-20-30	50		2014-36-59	1	X						
12/15/2014	14:47	S-14D-2014-36-85-20-29	51		2014-36-85	1	X						
12/15/2014	15:20	S-14D-2014-36-88-20-29	52		2014-36-88	1	X						
12/15/2014	15:12	S-14D-2014-36-87-20-30	53		2014-36-87	1	X						
12/16/2014	9:29	S-14D-2014-35-71-20-30	54		2014-35-71	1	X						
12/16/2014	9:29	S-14D-2014-35-71-30-40	55		2014-35-71	1	X						
12/16/2014	8:49	S-14D-2014-34-48-20-30	56		2014-34-48	1	X						

Relinquished By (name/date/time):

Paul S. [Signature] 17-Dec-14 1400

Received By(name/date/time)

MRF 12-17-14 1500

Battelle

The Business of Innovation

Chain of Custody

Project Manager: Deirdre Dahlen

Phone: (781) 681-5522

Ship to:
New England District, US Army Corps of
Engineers
696 Virginia Ave
Concord, MA 01742

Samplers Signature: MRF, PDS

Site Contact: Matt Fitzpatrick
Mobile: (781)733-6797

Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic infaunal enumeration	Room Temperature, 10% formalin
12/16/2014	9:07	S-14D-2014-35-70-20-30	L0357	Sediment	2014-35-70	1	X						
12/16/2014	9:07	S-14D-2014-35-70-30-40	" 58		2014-35-70	1	X						
12/16/2014	10:28	S-14D-2014-36-79-20-30	59		2014-36-79	1	X						
12/16/2014	11:46	S-14D-2104-35-78-20-30	60		2104-35-78	1	X						
12/16/2014	10:05	S-14D-2014-36-89-20-30	61		2014-36-89	1	X						
12/16/2014	13:45	S-14D-2014-37-34-20-30	62		2014-37-34	1	X						
12/16/2014	13:29	S-14D-2014-37-33-00-10	63		2014-37-33	1	X						
12/16/2014	13:57	S-14D-2014-37-35-20-30	64		2014-37-35	1	X						
12/16/2014	14:07	S-14D-2014-37-36-20-30	65		2014-37-36	1	X						
12/16/2014	15:33	S-14D-2014-36-82-20-30	66		2014-36-82	1	X						
12/17/2014	8:57	S-14D-2014-36-90-20-30	67		2014-36-90	1	X						
12/17/2014	8:40	S-14D-2014-35-7-20-30	68		2014-35-7	1	X						
12/12/2014	14:39	S-14D-2014-35-69-00-10	69		2014-35-69	1	X						
12/12/2014	14:39	S-14D-2014-35-69-10-20	70		2014-35-69	1	X						
12/12/2014	14:17	S-14D-2014-35-72-00-10	71		2014-35-72	1	X						
12/12/2014	14:17	S-14D-2014-35-72-10-20	72		2014-35-72	1	X						
12/12/2014	11:39	S-14D-2014-35-73-00-10	73		2014-35-73	1	X						
12/12/2014	11:39	S-14D-2014-35-73-10-20	74		2014-35-73	1	X						
12/12/2014	13:13	S-14D-2014-36-57-00-10	75		2014-36-57	1	X						
12/12/2014	13:13	S-14D-2014-36-57-10-20	76		2014-36-57	1	X						

Relinquished By (name/date/time):

Paul Schreff 12/17/14 1400

2 of 6

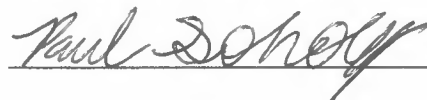
Received By (name/date/time):

MM 12-17-14 1500

83 of 602

 Chain of Custody <i>The Business of Innovation</i>						Project Manager: Deirdre Dahlen Phone: (781) 681-5522							
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord, MA 01742			Samplers Signature: MRF, PDS			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797							
Date	Time	Field ID	Lab ID(s)	Matrix	Station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/12/2014	13:34	S-14D-2014-36-58-00-10	L0377	Sediment	2014-36-58	1	X						
12/12/2014	13:34	S-14D-2014-36-58-10-20	" " 78		2014-36-58	1	X						
12/12/2014	13:50	S-14D-2014-36-65-00-10	79		2014-36-65	1	X						
12/12/2014	13:50	S-14D-2014-36-65-10-20	80		2014-36-65	1	X						
12/15/2014	8:39	S-14D-2014-36-66-00-10	81		2014-36-66	1	X						
12/15/2014	8:39	S-14D-2014-36-66-10-20	82		2014-36-66	1	X						
12/15/2014	9:27	S-14D-2014-36-67-00-10	83		2014-36-67	1	X						
12/15/2014	9:27	S-14D-2014-36-67-10-20	84		2014-36-67	1	X						
12/15/2014	12:39	S-14D-2014-36-77-00-10	85		2014-36-77	1	X						
12/15/2014	12:39	S-14D-2014-36-77-10-20	86		2014-36-77	1	X						
12/15/2014	12:29	S-14D-2014-36-78-00-10	87		2014-36-78	1	X						
12/15/2014	12:29	S-14D-2014-36-78-10-20	88		2014-36-78	1	X						
12/15/2014	12:19	S-14D-2014-36-81-00-10	89		2014-36-81	1	X						
12/15/2014	12:19	S-14D-2014-36-81-10-20	90		2014-36-81	1	X						
12/15/2014	14:27	S-14D-2014-36-86-00-10	91		2014-36-86	1	X						
12/15/2014	14:27	S-14D-2014-36-86-10-20	92		2014-36-86	1	X						
12/15/2014	14:54	S-14D-2014-36-85-00-10-REP	93		2014-36-85	1	X						
12/15/2014	14:54	S-14D-2014-36-85-10-20-REP	94		2014-36-85	1	X						
12/15/2014	13:49	S-14D-2014-36-59-00-10	95		2014-36-59	1	X						
12/15/2014	13:49	S-14D-2014-36-59-10-20	96		2014-36-59	1	X						

Relinquished By (name/date/time):

 12/17/14 1400

3 of 6

Received By (name/date/time)

 12-17-14 1500

Battelle

The Business of Innovation

Chain of Custody

Project Manager: Deirdre Dahlen

Phone: (781) 681-5522

Ship to:
New England District, US Army Corps of
Engineers
696 Virginia Ave
Concord, MA 01742

Samplers Signature: MRF, PDS

Site Contact: Matt Fitzpatrick
Mobile: (781)733-6797

Date	Time	Field ID	Lab ID(s)	Matrix	Station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/15/2014	14:47	S-14D-2014-36-85-00-10	60397	Sediment	2014-36-85	1	X						
12/15/2014	14:47	S-14D-2014-36-85-10-20	1198		2014-36-85	1	X						
12/15/2014	15:20	S-14D-2014-36-88-00-10	199		2014-36-88	1	X						
12/15/2014	15:20	S-14D-2014-36-88-10-20	60400		2014-36-88	1	X						
12/15/2014	15:12	S-14D-2014-36-87-00-10	1101		2014-36-87	1	X						
12/15/2014	15:12	S-14D-2014-36-87-10-20	02		2014-36-87	1	X						
12/16/2014	8:31	S-14D-2014-35-68-00-10	03		2014-35-68	1	X						
12/16/2014	8:31	S-14D-2014-35-68-10-20	04		2014-35-68	1	X						
12/16/2014	8:31	S-14D-2014-35-68-20-30	05		2014-35-68	1	X						
12/16/2014	8:40	S-14D-2014-35-68-00-10-REP	06		2014-35-68	1	X						
12/16/2014	8:40	S-14D-2014-35-68-10-20-REP	07		2014-35-68	1	X						
12/16/2014	8:40	S-14D-2014-35-68-20-30-REP	08		2014-35-68	1	X						
12/16/2014	9:29	S-14D-2014-35-71-00-10	09		2014-35-71	1	X						
12/16/2014	9:29	S-14D-2014-35-71-10-20	10		2014-35-71	1	X						
12/16/2014	8:49	S-14D-2014-34-48-00-10	11		2014-34-48	1	X						
12/16/2014	8:49	S-14D-2014-34-48-10-20	12		2014-34-48	1	X						
12/16/2014	9:07	S-14D-2014-35-70-00-10	13		2014-35-70	1	X						
12/16/2014	9:07	S-14D-2014-35-70-10-20	14		2014-35-70	1	X						
12/16/2014	10:28	S-14D-2014-36-79-00-10	15		2014-36-79	1	X						
12/16/2014	10:28	S-14D-2014-36-79-10-20	16		2014-36-79	1	X						

Relinquished By (name/date/time):

Paul Schoff 12/17/14 1400

4 of 6

Received By (name/date/time)

MW 12-17-14 1500

85 of 602

Battelle <i>The Business of Innovation</i>						Chain of Custody								Project Manager: Deirdre Dahlen Phone: (781) 681-5522			
Ship to: New England District, US Army Corps of Engineers 696 Virginia Ave Concord, MA 01742				Samplers Signature: MRF, PDS		Site Contact: Matt Fitzpatrick Mobile: (781)733-6797											
Date	Time	Field ID	Lab ID(s)	Matrix	Station	Analyses (Record No. of containers / Preservative)											
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin				
12/16/2014	11:46	S-14D-2014-35-78-00-10	20417	Sediment	2104-35-78	1	X										
12/16/2014	11:46	S-14D-2014-35-78-10-20	18		2104-35-78	1	X										
12/16/2014	10:05	S-14D-2014-36-89-00-10	19		2014-36-89	1	X										
12/16/2014	10:05	S-14D-2014-36-89-10-20	20		2014-36-89	1	X										
12/16/2014	13:45	S-14D-2014-37-34-00-10	21		2014-37-34	1	X										
12/16/2014	13:45	S-14D-2014-37-34-10-20	22		2014-37-34	1	X										
12/16/2014	13:29	S-14D-2014-37-33-10-20	23		2014-37-33	1	X										
12/16/2014	13:29	S-14D-2014-37-33-20-30	24		2014-37-33	1	X										
12/16/2014	13:29	S-14D-2014-37-33-30-36	25		2014-37-33	1	X										
12/16/2014	13:57	S-14D-2014-37-35-00-10	26		2014-37-35	1	X										
12/16/2014	13:57	S-14D-2014-37-35-10-20	27		2014-37-35	1	X										
12/16/2014	14:07	S-14D-2014-37-36-00-10	28		2014-37-36	1	X										
12/16/2014	14:07	S-14D-2014-37-36-10-20	29		2014-37-36	1	X										
12/16/2014	15:59	S-14D-2014-36-80-00-10	30		2014-36-80	1	X										
12/16/2014	15:59	S-14D-2014-36-80-10-20	31		2014-36-80	1	X										
12/16/2014	15:33	S-14D-2014-36-82-00-10	32		2014-36-82	1	X										
12/16/2014	15:33	S-14D-2014-36-82-10-20	33		2014-36-82	1	X										
12/16/2014	14:59	S-14D-2014-37-37-00-10	34		2014-37-37	1	X										
12/16/2014	14:59	S-14D-2014-37-37-10-20	35		2014-37-37	1	X										
12/16/2014	14:59	S-14D-2014-37-37-20-30	36		2014-37-37	1	X										

Relinquished By (name/date/time):

Paul S. [Signature] 12/17/14 1400

Received By(name/date/time)

[Signature] 12/17/14 1506



Project Manager: Deirdre Dahlen
Phone: (781) 681-5522

Ship to:
New England District, US Army Corps of
Engineers
696 Virginia Ave
Concord , MA 01742

Samplers Signature: MRF, PDS

Site Contact: Matt Fitzpatrick
Mobile: (781)733-6797

[illegible]

Relinquished By (name/date/time):

Paul Lopez 12/17/14 1400

Received By(name/date/time)

12/17/14 1500

Battelle*The Business of Innovation*ShpNo SHP-141223-01

Battelle Project No: _____

Sample Receipt FormApproved: ☒ Authorized ☐Project Number: 100043429Client: USACEReceived by: Schumitz, MattDate/Time Received: Monday, December 22, 2014 4:00 PMNo. of Shipping Containers: 1**SHIPMENT**Method of Delivery: Hand DeliveredTracking Number: NACOC Forms: ☒ Shipped with samples ☐ No Forms**Cooler(s)/Box(es)**

Cntr	Type	Tracking No.	Seal	Seal Condition	Container Condition	Temp C	Smps
1 of 1	Cardboard Box		None	Not Applicable	Intact	-20.0	75

Samples

Sample Labels: ☒ Sample labels agree with COC forms
☐ Discrepancies (see Sample Custody Corrective Action Form)

Container Seals: ☐ Tape ☐ Custody Seals ☐ Other Seals (See sample Log)
☒ Seals intact for each shipping container
☐ Seals broken (See sample log for impacted samples)

Condition of Samples: ☒ Sample containers intact
☐ Sample containers broken/leaking (See Custody Corrective Action Form)

Temperature upon receipt (°C): -20 Temperature Blank used ☐ Yes ☒ No
(Note: If temperature upon receipt differs from required conditions, see sample log comment field)

Samples Acidified: ☐ Yes ☐ No ☒ Unknown

Initial pH 5-9?: ☐ Yes ☐ No ☒ NA
If no, individual sample adjustments on the Auxiliary Sample Receipt Form

Total Residual Chlorine Present?: ☐ Yes ☐ No ☒ NA
If yes, individual sample adjustments on the Auxiliary Sample Receipt Form

Head Space <1% in samples for water VOC analysis: ☐ Yes ☐ No ☒ NA
Individual sample deviations noted on sample log

Samples Containers:
 Samples returned in PC-grade jars: ☐ Yes ☐ No ☒ Unknown /Lot No.: UnKnown

Storage Location: Custody: Freezer - F0113 (NA) BDO IDs Assigned: L0472 - L0546

Samples logged in by: Schumitz, Matt Date/Time: 12/22/2014 4:00 PM

Approved By: Brackett, Roxanne Approved On: 12/29/2014 11:04:00 AM

Authorized By: _____ Authorized On: _____

Sample Receipt Form Details

Approved: ☒ Authorized: ☐Project Number: 100043429 Client: USACEReceived by: Schumitz, Matt Date/Time Received: Monday, December 22, 2014 4:00 PMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0472	S-14D-2014-25-1-00-10	12/19/14 14:28	12/23/14 9:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0473	S-14D-2014-25-1-10-20	12/19/14 14:28	12/23/14 9:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0474	S-14D-2014-25-1-20-30	12/19/14 14:28	12/23/14 9:41	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0475	S-14D-2014-25-1-30-40	12/19/14 14:28	12/23/14 9:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0476	S-14D-2014-25-1-40-50	12/19/14 14:28	12/23/14 9:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0477	S-14D-2014-26-1-00-10	12/19/14 14:04	12/23/14 9:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0478	S-14D-2014-26-1-10-20	12/19/14 14:04	12/23/14 9:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0479	S-14D-2014-26-1-20-30	12/19/14 14:04	12/23/14 9:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0480	S-14D-2014-26-1-30-40	12/19/14 14:04	12/23/14 9:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0481	S-14D-2014-26-1-40-50	12/19/14 14:04	12/23/14 9:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0482	S-14D-2014-30-1-00-10	12/19/14 12:40	12/23/14 9:42	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0483	S-14D-2014-30-1-10-20	12/19/14 12:40	12/23/14 9:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0484	S-14D-2014-30-1-20-30	12/19/14 12:40	12/23/14 9:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0485	S-14D-2014-30-2-00-10	12/18/14 11:33	12/23/14 9:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0486	S-14D-2014-30-2-10-20	12/18/14 11:33	12/23/14 9:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0487	S-14D-2014-30-2-20-30	12/18/14 11:33	12/23/14 9:43	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0488	S-14D-2014-30-2-30-40	12/18/14 11:33	12/23/14 9:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0489	S-14D-2014-30-2-40-50	12/18/14 11:33	12/23/14 9:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0490	S-14D-2014-30-2-50-60	12/18/14 11:33	12/23/14 9:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0491	S-14D-2014-30-2-60-70	12/18/14 11:33	12/23/14 9:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0492	S-14D-2014-30-2-70-80	12/18/14 11:33	12/23/14 9:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0493	S-14D-2014-30-2-80-90	12/18/14 11:33	12/23/14 9:44	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0494	S-14D-2014-30-2-110-120	12/18/14 11:33	12/23/14 9:50	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0495	S-14D-2014-30-2-125-135	12/18/14 11:33	12/23/14 9:50	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0496	S-14D-2014-30-4-00-10	12/19/14 8:17	12/23/14 9:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0497	S-14D-2014-30-4-10-20	12/19/14 8:17	12/23/14 9:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0498	S-14D-2014-30-4-20-30	12/19/14 8:17	12/23/14 9:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0499	S-14D-2014-30-4-30-40	12/19/14 8:17	12/23/14 9:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☒ Authorized ☐Project Number: 100043429 Client: USACEReceived by: Schumitz, Matt Date/Time Received: Monday, December 22, 2014 4:00 PMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0500	S-14D-2014-30-5-00-10	12/19/14 9:04	12/23/14 9:51	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0501	S-14D-2014-30-5-10-20	12/19/14 9:04	12/23/14 9:52	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0502	S-14D-2014-30-5-20-30	12/19/14 9:04	12/23/14 9:52	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0503	S-14D-2014-30-5-30-40	12/19/14 9:04	12/23/14 9:52	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0504	S-14D-2014-30-6-00-10	12/19/14 7:55	12/23/14 9:53	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0505	S-14D-2014-30-6-10-20	12/19/14 7:55	12/23/14 9:53	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0506	S-14D-2014-30-6-20-30	12/19/14 7:55	12/23/14 9:53	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0507	S-14D-2014-30-7-00-10	12/17/14 14:09	12/23/14 9:53	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0508	S-14D-2014-30-7-10-20	12/17/14 14:09	12/23/14 9:53	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0509	S-14D-2014-30-7-20-30	12/17/14 14:09	12/23/14 9:53	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0510	S-14D-2014-30-7-30-40	12/17/14 14:09	12/23/14 9:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0511	S-14D-2014-30-8-00-10	12/18/14 13:19	12/23/14 9:54	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0512	S-14D-2014-30-8-10-20	12/18/14 13:19	12/23/14 9:55	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0513	S-14D-2014-30-8-20-30	12/18/14 13:19	12/23/14 9:55	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0514	S-14D-2014-31-1-00-10	12/18/14 8:59	12/23/14 9:55	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0515	S-14D-2014-31-1-10-20	12/18/14 8:59	12/23/14 9:55	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0516	S-14D-2014-31-1-20-30	12/18/14 8:59	12/23/14 9:55	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0517	S-14D-2014-31-1-30-40	12/18/14 8:59	12/23/14 9:55	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0518	S-14D-2014-31-3-00-10	12/18/14 10:46	12/23/14 9:55	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0519	S-14D-2014-31-3-10-20	12/18/14 10:46	12/23/14 9:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0520	S-14D-2014-31-3-20-30	12/18/14 10:46	12/23/14 9:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0521	S-14D-2014-31-4-00-10	12/19/14 10:14	12/23/14 9:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0522	S-14D-2014-31-4-10-20	12/19/14 10:14	12/23/14 9:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0523	S-14D-2014-31-4-20-30	12/19/14 10:14	12/23/14 9:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0524	S-14D-2014-31-4-30-40	12/19/14 10:14	12/23/14 9:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0525	S-14D-2014-31-5-00-10	12/19/14 10:39	12/23/14 9:56	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0526	S-14D-2014-31-5-10-20	12/19/14 10:39	12/23/14 9:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0527	S-14D-2014-31-5-20-30	12/19/14 10:39	12/23/14 9:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Sample Receipt Form Details

Approved: ☒ Authorized ☐Project Number: 100043429 Client: USACEReceived by: Schumitz, Matt Date/Time Received: Monday, December 22, 2014 4:00 PMNo. of Shipping Containers: 1

BDO Id:	Client Sample ID:	Collection Date:	Login Date:	Ctrs:	Matrix:	Temp:	pH:	TRC:	VOC:	Stored In:	Loc:	No:	Comments:
L0528	S-14D-2014-31-6-00-10	12/19/14 11:00	12/23/14 9:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0529	S-14D-2014-31-6-10-20	12/19/14 11:00	12/23/14 9:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0530	S-14D-2014-31-6-20-30	12/19/14 11:00	12/23/14 9:57	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0531	S-14D-2014-31-7A-00-10	12/19/14 14:28	12/23/14 9:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0532	S-14D-2014-31-7A-10-20	12/19/14 14:28	12/23/14 9:58	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0533	S-14D-2014-31-7A-20-29	12/19/14 14:28	12/23/14 9:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0534	S-14D-2014-31-7B-00-10	12/19/14 13:28	12/23/14 9:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0535	S-14D-2014-31-7B-10-20	12/19/14 13:28	12/23/14 9:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0536	S-14D-2014-31-7B-20-30	12/19/14 13:28	12/23/14 9:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0537	S-14D-2014-31-8-00-10	12/18/14 10:02	12/23/14 9:59	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0538	S-14D-2014-31-8-10-20	12/18/14 10:02	12/23/14 10:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0539	S-14D-2014-31-8-20-30	12/18/14 10:02	12/23/14 10:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0540	S-14D-2014-31-8-30-37	12/18/14 10:02	12/23/14 10:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0541	S-14D-2014-31-8-40-50	12/18/14 10:02	12/23/14 10:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0542	S-14D-2014-31-8-00-10-REP	12/18/14 9:26	12/23/14 10:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0543	S-14D-2014-31-8-10-20-REP	12/18/14 9:26	12/23/14 10:00	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0544	S-14D-2014-31-8-20-30-REP	12/18/14 9:26	12/23/14 10:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0545	S-14D-2014-31-8-30-38-REP	12/18/14 9:26	12/23/14 10:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			
L0546	S-14D-2014-31-8-40-50-REP	12/18/14 9:26	12/23/14 10:01	1	SEDIMENT	-20	NA	NA	NA	F0113 (NA)			

Total Samples: 75

 Chain of Custody The Business of Innovation						Project Manager: Deirdre Dahlen Phone: (781) 681-5522							
Ship to: Battelle 141 Longwater Place Suite 202 Norwell, Ma			Samplers Signature: MRF, PDS			Site Contact: Matt Fitzpatrick Mobile: (781) 733-6797							
Date	Time	Field ID	Lab ID(s)	Matrix	Station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/19/2014	14:28	S-14D-2014-25-1-00-10	L0472	Sediment	2014-25-1	1	X						
12/19/2014	14:28	S-14D-2014-25-1-10-20	" 73		2014-25-1	1	X						
12/19/2014	14:28	S-14D-2014-25-1-20-30	74		2014-25-1	1	X						
12/19/2014	14:28	S-14D-2014-25-1-30-40	75		2014-25-1	1	X						
12/19/2014	14:28	S-14D-2014-25-1-40-50	76		2014-25-1	1	X						
12/19/2014	14:04	S-14D-2014-26-1-00-10	77		2014-26-1	1	X						
12/19/2014	14:04	S-14D-2014-26-1-10-20	78		2014-26-1	1	X						
12/19/2014	14:04	S-14D-2014-26-1-20-30	79		2014-26-1	1	X						
12/19/2014	14:04	S-14D-2014-26-1-30-40	80		2014-26-1	1	X						
12/19/2014	14:04	S-14D-2014-26-1-40-50	81		2014-26-1	1	X						
12/19/2014	12:40	S-14D-2014-30-1-00-10	82		2014-30-1	1	X						
12/19/2014	12:40	S-14D-2014-30-1-10-20	83		2014-30-1	1	X						
12/19/2014	12:40	S-14D-2014-30-1-20-30	84		2014-30-1	1	X						
12/18/2014	11:33	S-14D-2014-30-2-00-10	85		2014-30-2	1	X						
12/18/2014	11:33	S-14D-2014-30-2-10-20	86		2014-30-2	1	X						
12/18/2014	11:33	S-14D-2014-30-2-20-30	87		2014-30-2	1	X						
12/18/2014	11:33	S-14D-2014-30-2-30-40	88		2014-30-2	1	X						
12/18/2014	11:33	S-14D-2014-30-2-40-50	89		2014-30-2	1	X						
12/18/2014	11:33	S-14D-2014-30-2-50-60	90		2014-30-2	1	X						
12/18/2014	11:33	S-14D-2014-30-2-60-70	91		2014-30-2	1	X						

Relinquished By (name/date/time):

 12/22/14 1600

Received By (name/date/time):

 12-22-14 1600

 Battelle The Business of Innovation Chain of Custody						Project Manager: Deirdre Dahlen Phone: (781) 681-5522							
Ship to: Battelle 141 Longwater Place Suite 202 Norwell, Ma			Samplers Signature: MRF, PDS			Site Contact: Matt Fitzpatrick Mobile: (781) 733-6797							
Date	Time	Field ID	Lab ID(s)	Matrix	Station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/18/2014	11:33	S-14D-2014-30-2-70-80	L0492	Sediment	2014-30-2	1	X						
12/18/2014	11:33	S-14D-2014-30-2-80-90	" " 93		2014-30-2	1	X						
12/18/2014	11:33	S-14D-2014-30-2-11-12	" 94		2014-30-2	1	X						
12/18/2014	11:33	S-14D-2014-30-2-12-13	" 95		2014-30-2	1	X						
12/19/2014	8:17	S-14D-2014-30-4-00-10	" 96		2014-30-4	1	X						
12/19/2014	8:17	S-14D-2014-30-4-10-20	" 97		2014-30-4	1	X						
12/19/2014	8:17	S-14D-2014-30-4-20-30	" 98		2014-30-4	1	X						
12/19/2014	8:17	S-14D-2014-30-4-30-40	" 99		2014-30-4	1	X						
12/19/2014	9:04	S-14D-2014-30-5-00-10	L0500		2014-30-5	1	X						
12/19/2014	9:04	S-14D-2014-30-5-10-20	" " 01		2014-30-5	1	X						
12/19/2014	9:04	S-14D-2014-30-5-20-30	" 02		2014-30-5	1	X						
12/19/2014	9:04	S-14D-2014-30-5-30-40	" 03		2014-30-5	1	X						
12/19/2014	7:55	S-14D-2014-30-6-00-10	" 04		2014-30-6	1	X						
12/19/2014	7:55	S-14D-2014-30-6-10-20	" 05		2014-30-6	1	X						
12/19/2014	7:55	S-14D-2014-30-6-20-30	" 06		2014-30-6	1	X						
12/17/2014	14:09	S-14D-2014-30-7-00-10	" 07		2014-30-7	1	X						
12/17/2014	14:09	S-14D-2014-30-7-10-20	" 08		2014-30-7	1	X						
12/17/2014	14:09	S-14D-2014-30-7-20-30	" 09		2014-30-7	1	X						
12/17/2014	14:09	S-14D-2014-30-7-30-40	" 10		2014-30-7	1	X						
12/18/2014	13:19	S-14D-2014-30-8-00-10	" 11		2014-30-8	1	X						

Relinquished By (name/date/time):

Matthew R. Galt 12/22/14 1600

Received By (name/date/time):

MW 12-22-14 1600

Battelle

The Business of Innovation

Chain of Custody

Project Manager: Deirdre Dahlen

Phone: (781) 681-5522

Ship to: Battelle 141 Longwater Place Suite 202 Norwell, Ma

Samplers Signature: MRF, PDS

Site Contact: Matt Fitzpatrick

Mobile: (781) 733-6797

Date	Time	Field ID	Lab ID(s)	Matrix	Station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/18/2014	13:19	S-14D-2014-30-8-10-20	LOS12	Sediment	2014-30-8	1	X						
12/18/2014	13:19	S-14D-2014-30-8-20-30	" " 13		2014-30-8	1	X						
12/18/2014	8:59	S-14D-2014-31-1-00-10	14		2014-31-1	1	X						
12/18/2014	8:59	S-14D-2014-31-1-10-20	15		2014-31-1	1	X						
12/18/2014	8:59	S-14D-2014-31-1-20-30	16		2014-31-1	1	X						
12/18/2014	8:59	S-14D-2014-31-1-30-40	17		2014-31-1	1	X						
12/18/2014	10:46	S-14D-2014-31-3-00-10	18		2014-31-3	1	X						
12/18/2014	10:46	S-14D-2014-31-3-10-20	19		2014-31-3	1	X						
12/18/2014	10:46	S-14D-2014-31-3-20-30	20		2014-31-3	1	X						
12/19/2014	10:14	S-14D-2014-31-4-00-10	21		2014-31-4	1	X						
12/19/2014	10:14	S-14D-2014-31-4-10-20	22		2014-31-4	1	X						
12/19/2014	10:14	S-14D-2014-31-4-20-30	23		2014-31-4	1	X						
12/19/2014	10:14	S-14D-2014-31-4-30-40	24		2014-31-4	1	X						
12/19/2014	10:39	S-14D-2014-31-5-00-10	25		2014-31-5	1	X						
12/19/2014	10:39	S-14D-2014-31-5-10-20	26		2014-31-5	1	X						
12/19/2014	10:39	S-14D-2014-31-5-20-30	27		2014-31-5	1	X						
12/19/2014	11:00	S-14D-2014-31-6-00-10	28		2014-31-6	1	X						
12/19/2014	11:00	S-14D-2014-31-6-10-20	29		2014-31-6	1	X						
12/19/2014	11:00	S-14D-2014-31-6-20-30	30		2014-31-6	1	X						
12/19/2014	14:28	S-14D-2014-31-7A-00-10	31		2014-31-7A	1	X						

Relinquished By (name/date/time):

M. R. R. 12/22/14 1600

3 of 4

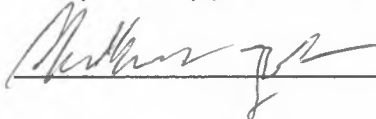
Received By (name/date/time):

M. R. 12-22-14 1600

9406602

 Chain of Custody						Project Manager: Deirdre Dahlen Phone: (781) 681-5522							
Ship to: Battelle 141 Longwater Place Suite 202 Norwell, Ma			Samplers Signature: MRF, PDS			Site Contact: Matt Fitzpatrick Mobile: (781)733-6797							
Date	Time	Field ID	Lab ID(s)	Matrix	station	Analyses (Record No. of containers / Preservative)							
						PCB	4° C	TOC	4° C	Grain Size	4° C	Benthic Infauna enumeration	Room Temperature, 10% formalin
12/19/2014	14:28	S-14D-2014-31-7A-10-20	L0532	Sediment	2014-31-7A	1	X						
12/19/2014	14:28	S-14D-2014-31-7A-20-29	" " 33		2014-31-7A	1	X						
12/19/2014	13:28	S-14D-2014-31-7B-00-10	34		2014-31-7B	1	X						
12/19/2014	13:28	S-14D-2014-31-7B-10-20	35		2014-31-7B	1	X						
12/19/2014	13:28	S-14D-2014-31-7B-20-30	36		2014-31-7B	1	X						
12/18/2014	10:02	S-14D-2014-31-8-00-10	37		2014-31-8	1	X						
12/18/2014	10:02	S-14D-2014-31-8-10-20	38		2014-31-8	1	X						
12/18/2014	10:02	S-14D-2014-31-8-20-30	39		2014-31-8	1	X						
12/18/2014	10:02	S-14D-2014-31-8-30-37	40		2014-31-8	1	X						
12/18/2014	10:02	S-14D-2014-31-8-40-50	41		2014-31-8	1	X						
12/18/2014	9:26	S-14D-2014-31-8-00-10-REP	42		2014-31-8	1	X						
12/18/2014	9:26	S-14D-2014-31-8-10-20-REP	43		2014-31-8	1	X						
12/18/2014	9:26	S-14D-2014-31-8-20-30-REP	44		2014-31-8	1	X						
12/18/2014	9:26	S-14D-2014-31-8-30-38-REP	45		2014-31-8	1	X						
12/18/2014	9:26	S-14D-2014-31-8-40-50-REP	46		2014-31-8	1	X						

Relinquished By (name/date/time):


12/22/14 1600

Received By(name/date/time)


12-22-14 1600



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID Procedural Blank

Battelle ID CF064PB-P
Sample Type PB
Collection Date 03/06/2015
Extraction Date 03/06/2015
Analysis Date 03/11/2015
Analytical Instrument MS
% Moisture 4.71
% Lipid NA
Matrix SEDIMENT
Sample Size 9.56
Size Unit-Basis G_DRY
Units UG/KG_DRY

Cl1(1)	0.262 U
Cl1(3)	0.262 U
Cl2(4)	0.262 U
Cl2(5)	0.262 U
Cl2(6)	0.262 U
Cl2(7)	0.262 U
Cl2(8)	0.262 U
Cl2(9)	0.262 U
Cl2(11)	0.262 U
Cl2(12)	0.262 U
Cl2(13)	0.262 U
Cl2(15)	0.262 U
Cl3(16)	0.262 U
Cl3(17)	0.262 U
Cl3(18)	0.262 U
Cl3(19)	0.262 U
Cl3(22)	0.262 U
Cl3(24)	0.262 U
Cl3(25)	0.262 U
Cl3(26)	0.262 U
Cl3(27)	0.262 U
Cl3(28)	0.262 U
Cl3(29)	0.262 U
Cl3(30)	0.262 U
Cl3(31)	0.262 U
Cl3(32)	0.262 U
Cl3(33)	0.262 U
Cl3(37)	0.262 U
Cl4(40)	0.262 U
Cl4(41)	0.262 U
Cl4(42)	0.262 U
Cl4(43)	0.262 U
Cl4(44)	0.262 U
Cl4(45)	0.262 U
Cl4(46)	0.262 U
Cl4(47)	0.262 U
Cl4(48)	0.262 U

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

3/27/2015

S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID Procedural Blank

Battelle ID CF064PB-P
Sample Type PB
Collection Date 03/06/2015
Extraction Date 03/06/2015
Analysis Date 03/11/2015
Analytical Instrument MS
% Moisture 4.71
% Lipid NA
Matrix SEDIMENT
Sample Size 9.56
Size Unit-Basis G_DRY
Units UG/KG_DRY

Cl4(49)	0.262 U
Cl4(50)	0.262 U
Cl4(51)	0.262 U
Cl4(52)	0.262 U
Cl4(53)	0.262 U
Cl4(54)	0.262 U
Cl4(56)	0.262 U
Cl4(60)	0.262 U
Cl4(63)	0.262 U
Cl4(64)	0.262 U
Cl4(66)	0.262 U
Cl4(67)	0.262 U
Cl4(70)	0.262 U
Cl4(71)	0.262 U
Cl4(74)	0.262 U
Cl4(75)	0.262 U
Cl4(77)	0.262 U
Cl4(80)	0.262 U
Cl4(81)	0.262 U
Cl5(82)	0.262 U
Cl5(83)	0.262 U
Cl5(84)	0.262 U
Cl5(85)	0.262 U
Cl5(87)	0.260 U
Cl5(91)	0.262 U
Cl5(92)	0.262 U
Cl5(95)	0.262 U
Cl5(97)	0.262 U
Cl5(99)	0.262 U
Cl5(100)	0.262 U
Cl5(101)	0.262 U
Cl5(104)	0.262 U
Cl5(105)	0.262 U
Cl5(110)	0.262 U
Cl5(114)	0.262 U
Cl5(115)	0.262 U
Cl5(118)	0.262 U

Analyzed By Restucci Jr, Richard

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3/27/2015

S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID Procedural Blank

Battelle ID CF064PB-P
Sample Type PB
Collection Date 03/06/2015
Extraction Date 03/06/2015
Analysis Date 03/11/2015
Analytical Instrument MS
% Moisture 4.71
% Lipid NA
Matrix SEDIMENT
Sample Size 9.56
Size Unit-Basis G_DRY
Units UG/KG_DRY

CI5(123)	0.262 U
CI5(124)	0.262 U
CI5(125)	0.262 U
CI5(126)	0.262 U
CI5(127)	0.262 U
CI6(128)	0.262 U
CI6(130)	0.262 U
CI6(131)	0.262 U
CI6(134)	0.262 U
CI6(135)	0.262 U
CI6(136)	0.262 U
CI6(137)	0.262 U
CI6(138)	0.262 U
CI6(139)	0.262 U
CI6(140)	0.262 U
CI6(141)	0.262 U
CI6(144)	0.262 U
CI6(146)	0.262 U
CI6(149)	0.262 U
CI6(151)	0.262 U
CI6(153)	0.262 U
CI6(154)	0.262 U
CI6(155)	0.262 U
CI6(156)	0.262 U
CI6(157)	0.262 U
CI6(158)	0.262 U
CI6(163)	0.262 U
CI6(164)	0.262 U
CI6(166)	0.262 U
CI6(167)	0.262 U
CI6(169)	0.262 U
CI7(170)	0.262 U
CI7(171)	0.262 U
CI7(172)	0.262 U
CI7(173)	0.262 U
CI7(174)	0.262 U
CI7(175)	0.262 U

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

3/27/2015

S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID Procedural Blank

Battelle ID CF064PB-P
Sample Type PB
Collection Date 03/06/2015
Extraction Date 03/06/2015
Analysis Date 03/11/2015
Analytical Instrument MS
% Moisture 4.71
% Lipid NA
Matrix SEDIMENT
Sample Size 9.56
Size Unit-Basis G_DRY
Units UG/KG_DRY

CI7(176)	0.262 U
CI7(177)	0.262 U
CI7(178)	0.262 U
CI7(179)	0.262 U
CI7(180)	0.262 U
CI7(183)	0.262 U
CI7(184)	0.262 U
CI7(185)	0.262 U
CI7(187)	0.262 U
CI7(188)	0.262 U
CI7(189)	0.262 U
CI7(190)	0.262 U
CI7(191)	0.262 U
CI7(193)	0.262 U
CI8(194)	0.262 U
CI8(195)	0.262 U
CI8(197)	0.262 U
CI8(198)	0.262 U
CI8(199)	0.262 U
CI8(200)	0.262 U
CI8(201)	0.262 U
CI8(202)	0.262 U
CI8(203)	0.262 U
CI8(205)	0.262 U
CI9(206)	0.262 U
CI9(207)	0.262 U
CI9(208)	0.262 U
CI10(209)	0.262 U
LOC 1	U
LOC 2	U
LOC 3	U
LOC 4	U
LOC 5	U
LOC 6	U
LOC 7	U
LOC 8	U
LOC 9	U

Analyzed By Restucci Jr, Richard

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S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID Procedural Blank

Battelle ID CF064PB-P
Sample Type PB
Collection Date 03/06/2015
Extraction Date 03/06/2015
Analysis Date 03/11/2015
Analytical Instrument MS
% Moisture 4.71
% Lipid NA
Matrix SEDIMENT
Sample Size 9.56
Size Unit-Basis G_DRY
Units UG/KG_DRY

LOC 10 U

Surrogate Recoveries (%)

Cl3(34) 97
 Cl6(152) 94



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	Laboratory Control Sample			Laboratory Control Sample Duplicate						
Battelle ID	CF065LCS-P			CF066LCSD-P						
Sample Type	LCS			LCSD						
Collection Date	03/06/2015			03/06/2015						
Extraction Date	03/06/2015			03/06/2015						
Analysis Date	03/11/2015			03/11/2015						
Analytical Instrument	MS			MS						
% Moisture	4.71			4.71						
% Lipid	NA			NA						
Matrix	SEDIMENT			SEDIMENT						
Sample Size	9.50			9.51						
Size Unit-Basis	G_DRY			G_DRY						
Units	UG/KG_DRY	Target	% REC	Qual	UG/KG_DRY	Target	% REC	Qual	RPD	Qual
Cl1(1)	3.64	4.03	90		3.68	4.02	92	2.2		
Cl1(3)	3.90	4.03	97		3.94	4.02	98	1.0		
Cl2(4)	3.81	3.95	96		3.66	3.94	93	3.2		
Cl2(5)	0.263 U				0.263 U					
Cl2(6)	0.263 U				0.263 U					
Cl2(7)	0.264 U				0.264 U					
Cl2(8)	3.62	4.03	90		3.63	4.02	90	0.0		
Cl2(9)	0.263 U				0.263 U					
Cl2(11)	0.264 U				0.264 U					
Cl2(12)	0.263 U				0.263 U					
Cl2(13)	0.264 U				0.264 U					
Cl2(15)	3.41	3.95	86		3.52	3.94	89	3.4		
Cl3(16)	0.264 U				0.264 U					
Cl3(17)	0.264 U				0.264 U					
Cl3(18)	3.72	4.03	92		3.70	4.02	92	0.0		
Cl3(19)	3.99	4.03	99		4.04	4.02	100	1.0		
Cl3(22)	0.264 U				0.264 U					
Cl3(24)	0.264 U				0.264 U					
Cl3(25)	0.263 U				0.263 U					
Cl3(26)	0.263 U				0.263 U					
Cl3(27)	0.263 U				0.263 U					
Cl3(28)	4.06	4.03	101		4.04	4.02	100	1.0		
Cl3(29)	0.263 U				0.263 U					
Cl3(30)	0.263 U				0.263 U					
Cl3(31)	4.19	4.03	104		4.07	4.02	101	2.9		
Cl3(32)	0.263 U				0.263 U					
Cl3(33)	0.264 U				0.264 U					
Cl3(37)	4.00	4.03	99		3.99	4.02	99	0.0		
Cl4(40)	0.264 U				0.264 U					
Cl4(41)	0.263 U				0.263 U					
Cl4(42)	0.264 U				0.264 U					
Cl4(43)	0.263 U				0.263 U					
Cl4(44)	4.14	4.03	103		4.17	4.02	104	1.0		
Cl4(45)	0.263 U				0.263 U					
Cl4(46)	0.264 U				0.264 U					
Cl4(47)	0.263 U				0.263 U					
Cl4(48)	0.263 U				0.263 U					

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

3/27/2015

S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	Laboratory Control Sample				Laboratory Control Sample Duplicate				
Battelle ID	CF065LCS-P				CF066LCSD-P				
Sample Type	LCS				LCSD				
Collection Date	03/06/2015				03/06/2015				
Extraction Date	03/06/2015				03/06/2015				
Analysis Date	03/11/2015				03/11/2015				
Analytical Instrument	MS				MS				
% Moisture	4.71				4.71				
% Lipid	NA				NA				
Matrix	SEDIMENT				SEDIMENT				
Sample Size	9.50				9.51				
Size Unit-Basis	G_DRY				G_DRY				
Units	UG/KG_DRY	Target	% REC	Qual	UG/KG_DRY	Target	% REC	Qual	RPD Qual
Cl4(49)	4.31	3.95	109		4.25	3.94	108	0.9	
Cl4(50)	0.264 U				0.264 U				
Cl4(51)	0.264 U				0.264 U				
Cl4(52)	4.42	4.03	110		4.32	4.02	107	2.8	
Cl4(53)	0.264 U				0.264 U				
Cl4(54)	3.64	4.03	90		3.55	4.02	88	2.2	
Cl4(56)	0.264 U				0.264 U				
Cl4(60)	0.264 U				0.264 U				
Cl4(63)	0.263 U				0.263 U				
Cl4(64)	0.264 U				0.264 U				
Cl4(66)	4.23	4.03	105		4.24	4.02	105	0.0	
Cl4(67)	0.264 U				0.264 U				
Cl4(70)	4.22	4.03	105		4.25	4.02	106	0.9	
Cl4(71)	0.263 U				0.263 U				
Cl4(74)	4.37	4.03	108		4.37	4.02	109	0.9	
Cl4(75)	0.264 U				0.264 U				
Cl4(77)	3.98	4.03	99		3.96	4.02	99	0.0	
Cl4(80)	0.264 U				0.264 U				
Cl4(81)	4.11	3.95	104		4.08	3.94	104	0.0	
Cl5(82)	0.263 U				0.263 U				
Cl5(83)	4.50	4.03	112		4.51	4.02	112	0.0	
Cl5(84)	0.264 U				0.264 U				
Cl5(85)	0.263 U				0.263 U				
Cl5(87)	4.11	4.03	102		4.08	4.02	101	1.0	
Cl5(91)	0.264 U				0.264 U				
Cl5(92)	0.264 U				0.264 U				
Cl5(95)	0.263 U				0.263 U				
Cl5(97)	0.264 U				0.264 U				
Cl5(99)	3.91	4.03	97		3.88	4.02	97	0.0	
Cl5(100)	0.264 U				0.264 U				
Cl5(101)	4.26	4.03	106		4.11	4.02	102	3.8	
Cl5(104)	3.96	4.03	98		3.89	4.02	97	1.0	
Cl5(105)	4.42	4.03	110		4.27	4.02	106	3.7	
Cl5(110)	4.35	4.03	108		4.10	4.02	102	5.7	
Cl5(114)	4.04	4.03	100		3.88	4.02	97	3.0	
Cl5(115)	0.264 U				0.264 U				
Cl5(118)	4.22	4.03	105		4.03	4.02	100	4.9	

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

3/27/2015

S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	Laboratory Control Sample				Laboratory Control Sample Duplicate				
Battelle ID	CF065LCS-P				CF066LCSD-P				
Sample Type	LCS				LCSD				
Collection Date	03/06/2015				03/06/2015				
Extraction Date	03/06/2015				03/06/2015				
Analysis Date	03/11/2015				03/11/2015				
Analytical Instrument	MS				MS				
% Moisture	4.71				4.71				
% Lipid	NA				NA				
Matrix	SEDIMENT				SEDIMENT				
Sample Size	9.50				9.51				
Size Unit-Basis	G_DRY				G_DRY				
Units	UG/KG_DRY	Target	% REC	Qual	UG/KG_DRY	Target	% REC	Qual	RPD Qual
CI5(123)	4.19	4.03	104		4.05	4.02	101	2.9	
CI5(124)	0.264 U				0.264 U				
CI5(125)	0.263 U				0.263 U				
CI5(126)	4.66	4.03	116		4.50	4.02	112	3.5	
CI5(127)	0.263 U				0.263 U				
CI6(128)	4.30	4.03	107		4.16	4.02	103	3.8	
CI6(130)	0.263 U				0.263 U				
CI6(131)	0.264 U				0.264 U				
CI6(134)	0.264 U				0.264 U				
CI6(135)	0.264 U				0.264 U				
CI6(136)	0.263 U				0.263 U				
CI6(137)	0.264 U				0.264 U				
CI6(138)	3.71	4.03	92		3.64	4.02	91	1.1	
CI6(139)	0.264 U				0.264 U				
CI6(140)	0.264 U				0.264 U				
CI6(141)	0.264 U				0.264 U				
CI6(144)	0.263 U				0.263 U				
CI6(146)	0.263 U				0.263 U				
CI6(149)	4.01	4.03	100		3.99	4.02	99	1.0	
CI6(151)	3.99	4.03	99		3.90	4.02	97	2.0	
CI6(153)	4.09	4.03	101		3.88	4.02	97	4.0	
CI6(154)	0.263 U				0.263 U				
CI6(155)	4.30	4.03	107		4.16	4.02	103	3.8	
CI6(156)	4.34	4.03	108		4.34	4.02	108	0.0	
CI6(157)	4.17	3.95	106		4.18	3.94	106	0.0	
CI6(158)	3.99	3.95	101		3.86	3.94	98	3.0	
CI6(163)	0.263 U				0.263 U				
CI6(164)	0.263 U				0.263 U				
CI6(166)	0.264 U				0.264 U				
CI6(167)	4.22	4.03	105		4.10	4.02	102	2.9	
CI6(169)	4.38	4.03	109		4.37	4.02	109	0.0	
CI7(170)	4.85	4.03	120		4.67	4.02	116	3.4	
CI7(171)	0.264 U				0.264 U				
CI7(172)	0.263 U				0.263 U				
CI7(173)	0.264 U				0.264 U				
CI7(174)	0.263 U				0.263 U				
CI7(175)	0.264 U				0.264 U				

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

3/27/2015

S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	Laboratory Control Sample				Laboratory Control Sample Duplicate				
Battelle ID	CF065LCS-P				CF066LCSD-P				
Sample Type	LCS				LCSD				
Collection Date	03/06/2015				03/06/2015				
Extraction Date	03/06/2015				03/06/2015				
Analysis Date	03/11/2015				03/11/2015				
Analytical Instrument	MS				MS				
% Moisture	4.71				4.71				
% Lipid	NA				NA				
Matrix	SEDIMENT				SEDIMENT				
Sample Size	9.50				9.51				
Size Unit-Basis	G_DRY				G_DRY				
Units	UG/KG_DRY	Target	% REC	Qual	UG/KG_DRY	Target	% REC	Qual	RPD Qual
CI7(176)	0.263 U				0.263 U				
CI7(177)	4.18	4.03	104		4.18	4.02	104	0.0	
CI7(178)	0.264 U				0.264 U				
CI7(179)	0.264 U				0.264 U				
CI7(180)	3.96	4.03	98		3.82	4.02	95	3.1	
CI7(183)	4.44	4.03	110		4.20	4.02	104	5.6	
CI7(184)	0.263 U				0.263 U				
CI7(185)	0.263 U				0.263 U				
CI7(187)	3.91	4.03	97		3.82	4.02	95	2.1	
CI7(188)	3.94	4.03	98		3.79	4.02	94	4.2	
CI7(189)	4.75	4.03	118		4.69	4.02	117	0.9	
CI7(190)	0.264 U				0.264 U				
CI7(191)	0.264 U				0.264 U				
CI7(193)	0.264 U				0.264 U				
CI8(194)	4.56	4.03	113		4.69	4.02	117	3.5	
CI8(195)	3.94	4.03	98		3.88	4.02	97	1.0	
CI8(197)	0.263 U				0.263 U				
CI8(198)	0.264 U				0.264 U				
CI8(199)	0.263 U				0.263 U				
CI8(200)	0.263 U				0.263 U				
CI8(201)	3.86	3.95	98		3.81	3.94	97	1.0	
CI8(202)	3.86	4.03	96		3.83	4.02	95	1.0	
CI8(203)	4.06	4.03	101		4.09	4.02	102	1.0	
CI8(205)	4.44	4.03	110		4.53	4.02	113	2.7	
CI9(206)	4.94	4.03	123 N		5.02	4.02	125 N	1.6	
CI9(207)	0.263 U				0.263 U				
CI9(208)	4.53	4.03	112		4.56	4.02	113	0.9	
CI10(209)	4.14	4.11	101		4.30	4.10	105	3.9	
LOC 1	7.54	8.05	94		7.62	8.04	95	1.1	
LOC 2	10.8	11.92	91		10.8	11.91	91	0.0	
LOC 3	20.0	20.13	99		19.8	20.11	98	1.0	
LOC 4	37.4	36.08	104		37.2	36.04	103	1.0	
LOC 5	46.6	44.29	105		45.3	44.24	102	2.9	
LOC 6	45.5	44.13	103		44.6	44.09	101	2.0	
LOC 7	30.0	27.00	111		29.2	26.97	108	2.7	
LOC 8	24.7	24.08	103		24.8	24.05	103	0.0	
LOC 9	9.47	8.05	118		9.58	8.04	119	0.8	

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Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	Laboratory Control Sample	Laboratory Control Sample Duplicate							
Battelle ID	CF065LCS-P	CF066LCSD-P							
Sample Type	LCS	LCSD							
Collection Date	03/06/2015	03/06/2015							
Extraction Date	03/06/2015	03/06/2015							
Analysis Date	03/11/2015	03/11/2015							
Analytical Instrument	MS	MS							
% Moisture	4.71	4.71							
% Lipid	NA	NA							
Matrix	SEDIMENT	SEDIMENT							
Sample Size	9.50	9.51							
Size Unit-Basis	G_DRY	G_DRY							
Units	UG/KG_DRY	Target	% REC	Qual	UG/KG_DRY	Target	% REC	Qual	RPD Qual
LOC 10	4.14	4.11	101		4.30	4.10	105		3.9
Surrogate Recoveries (%)									
Cl3(34)	103				100				
Cl6(152)	98				95				



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14N-PCC15-00-05	S-14N-PV5-00-05	S-14N-RBB22-00-05	S-14D-2014-36-63-00-10
Battelle ID	L0122-P	L0125-P	L0133-P	L0208-P
Sample Type	SA	SA	SA	SA
Collection Date	11/18/2014	11/18/2014	11/19/2014	12/10/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/11/2015	03/11/2015	03/12/2015	03/15/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	0.47	2.28	0.47	6.79
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	5.08	4.88	2.00	4.60
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl1(1)	0.476	J	6.29	5.02	11.4	U
Cl1(3)	1.34		6.12	8.77	11.4	U
Cl2(4)	8.57		298	225	16.4	D
Cl2(5)	0.518	U	0.540	1.32	11.4	U
Cl2(6)	30.3		731	662	44.1	D
Cl2(7)	0.961		10.5	7.07	11.5	U
Cl2(8)	29.5		573	524	61.2	D
Cl2(9)	1.50		19.5	16.8	11.4	U
Cl2(11)	0.520	U	0.542	1.32	11.5	U
Cl2(12)	0.508	J	0.540	1.84	11.4	U
Cl2(13)	25.0		296	294	35.4	D
Cl2(15)	26.2		207	154	67.2	D
Cl3(16)	5.11		30.3	50.1	66.7	D
Cl3(17)	37.2		553	574	89.6	D
Cl3(18)	80.4	D	1280	1250	182	D
Cl3(19)	6.24		126	94.2	13.2	D
Cl3(22)	18.8		128	111	123	D
Cl3(24)	0.533		2.42	2.61	11.5	U
Cl3(25)	97.8	D	1020	1000	366	D
Cl3(26)	140	D	1510	1480	717	D
Cl3(27)	14.7		237	262	21.0	D
Cl3(28)	159	D	1500	1540	393	D
Cl3(29)	0.518	U	0.843	1.32	11.4	U
Cl3(30)	0.518	U	0.758	1.32	11.4	U
Cl3(31)	158	D	1690	1700	434	D
Cl3(32)	27.3		381	369	57.5	D
Cl3(33)	16.6		91.7	129	164	D
Cl3(37)	18.9		49.0	94.7	129	D
Cl4(40)	13.4		17.9	22.6	88.0	D
Cl4(41)	0.518	U	0.540	1.32	11.4	U
Cl4(42)	38.5		321	312	518	D
Cl4(43)	0.518	U	0.540	1.32	11.4	U
Cl4(44)	53.9		488	444	864	D
Cl4(45)	6.08		43.7	50.3	71.3	D
Cl4(46)	5.83		46.1	40.2	33.4	D
Cl4(47)	59.2		447	480	726	D

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14N-PCC15-00-05	S-14N-PV5-00-05	S-14N-RBB22-00-05	S-14D-2014-36-63-00-10
Battelle ID	L0122-P	L0125-P	L0133-P	L0208-P
Sample Type	SA	SA	SA	SA
Collection Date	11/18/2014	11/18/2014	11/19/2014	12/10/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/11/2015	03/11/2015	03/12/2015	03/15/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	0.47	2.28	0.47	6.79
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	5.08	4.88	2.00	4.60
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl4(48)	0.518	U	51.7	D	115	11.4	U
Cl4(49)	223	D	1800	D	1790	2300	D
Cl4(50)	0.784		3.61		4.89	11.5	U
Cl4(51)	11.3		108	D	85.7	28.2	D
Cl4(52)	237	D	2020	D	2030	2680	D
Cl4(53)	25.1		252	D	260	65.2	D
Cl4(54)	0.672		3.15		4.32	5.28	DJ
Cl4(56)	11.0		49.0	D	52.4	188	D
Cl4(60)	6.22		13.9		26.3	96.5	D
Cl4(63)	3.49		12.3		15.9	69.4	D
Cl4(64)	38.5		328	D	351	1270	D
Cl4(66)	39.8		172	D	274	1010	D
Cl4(67)	12.6		42.8		53.9	124	D
Cl4(70)	31.1		132	D	239	1020	D
Cl4(71)	35.6		287	D	258	95.2	D
Cl4(74)	28.8		133	D	126	374	D
Cl4(75)	3.44		15.8		22.0	59.1	D
Cl4(77)	5.87		17.0		29.5	51.4	D
Cl4(80)	1.83		4.62		9.39	23.6	D
Cl4(81)	0.518	U	1.60		1.32	11.4	U
Cl5(82)	3.09		7.14		18.8	182	D
Cl5(83)	24.1		129	D	113	702	D
Cl5(84)	23.9		134	D	112	875	D
Cl5(85)	5.80		14.6		36.2	233	D
Cl5(87)	11.0		29.6		80.5	706	D
Cl5(91)	39.2		253	D	281	1380	D
Cl5(92)	21.5		148	D	116	816	D
Cl5(95)	89.9	D	510	D	648	3250	D
Cl5(97)	26.7		125	D	132	1280	D
Cl5(99)	81.4	D	368	D	427	2900	D
Cl5(100)	3.94		14.9		18.2	84.3	D
Cl5(101)	92.3	D	370	D	528	4070	D
Cl5(104)	0.400	J	0.713		1.33	11.4	U
Cl5(105)	13.2		25.1		73.1	628	D
Cl5(110)	123	D	570	D	721	3620	D
Cl5(114)	1.41		5.11		8.04	57.1	D

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14N-PCC15-00-05	S-14N-PV5-00-05	S-14N-RBB22-00-05	S-14D-2014-36-63-00-10
Battelle ID	L0122-P	L0125-P	L0133-P	L0208-P
Sample Type	SA	SA	SA	SA
Collection Date	11/18/2014	11/18/2014	11/19/2014	12/10/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/11/2015	03/11/2015	03/12/2015	03/15/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	0.47	2.28	0.47	6.79
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	5.08	4.88	2.00	4.60
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI5(115)	1.53	16.9	11.3	37.7	D
CI5(118)	79.0 D	289 D	454 D	3680	D
CI5(123)	7.69	26.5	41.0	380	D
CI5(124)	2.43	9.05	17.0	101	D
CI5(125)	0.518 U	0.540 U	1.32 U	11.4	U
CI5(126)	0.730	2.07	3.94	17.5	D
CI5(127)	0.518 U	0.540 U	1.32 U	11.4	U
CI6(128)	9.97	27.1	61.1	511	D
CI6(130)	3.46	11.4	22.3	134	D
CI6(131)	2.60	5.24	7.99	36.1	D
CI6(134)	5.42	22.8	29.0	216	D
CI6(135)	9.60	39.4	49.5	320	D
CI6(136)	10.7	50.7	62.4	379	D
CI6(137)	3.35	10.8	21.2	159	D
CI6(138)	25.9	93.8 D	156	1700	D
CI6(139)	2.00	7.46	9.36	37.2	D
CI6(140)	0.475 J	0.629	2.12	16.0	D
CI6(141)	4.54	12.8	30.8	290	D
CI6(144)	1.64	6.35	10.7	66.8	D
CI6(146)	11.5	41.0	55.2	419	D
CI6(149)	83.0 D	409 D	472 D	2340	D
CI6(151)	11.3	46.6	60.6	405	D
CI6(153)	82.5 D	362 D	495 D	3350	D
CI6(154)	3.84	16.3	18.2	80.3	D
CI6(155)	0.520 U	0.447 J	0.999 J	11.5	U
CI6(156)	6.90	22.4	41.9	315	D
CI6(157)	1.86	5.18	10.8	79.3	D
CI6(158)	7.26	26.7	44.1	257	D
CI6(163)	23.4	101 D	115	790	D
CI6(164)	5.34	20.5	30.3	194	D
CI6(166)	0.708	2.80	3.87	19.2	D
CI6(167)	5.61	19.1	28.8	183	D
CI6(169)	0.520 U	1.42	1.35	40.3	D
CI7(170)	7.52	27.2	47.2	297	D
CI7(171)	2.15	7.26	12.2	71.8	D
CI7(172)	1.39	4.73	7.94	43.7	D

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14N-PCC15-00-05	S-14N-PV5-00-05	S-14N-RBB22-00-05	S-14D-2014-36-63-00-10
Battelle ID	L0122-P	L0125-P	L0133-P	L0208-P
Sample Type	SA	SA	SA	SA
Collection Date	11/18/2014	11/18/2014	11/19/2014	12/10/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/11/2015	03/11/2015	03/12/2015	03/15/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	0.47	2.28	0.47	6.79
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	5.08	4.88	2.00	4.60
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl7(173)	0.530	0.923	1.92	11.5	U
Cl7(174)	3.76	13.1	23.2	152	D
Cl7(175)	0.458 J	1.60	2.30	12.1	D
Cl7(176)	0.812	2.39	4.14	25.7	D
Cl7(177)	2.99	10.1	17.9	104	D
Cl7(178)	1.79	6.72	9.05	40.5	D
Cl7(179)	3.16	13.0	16.7	78.5	D
Cl7(180)	12.0	41.1	67.2	374	D
Cl7(183)	3.89	15.2	21.8	103	D
Cl7(184)	0.518 U	0.249 J	1.32 U	11.4	U
Cl7(185)	0.722	2.20	3.31	18.6	D
Cl7(187)	9.97	38.7	49.5	210	D
Cl7(188)	0.514 J	0.953	1.56	11.5	U
Cl7(189)	1.04	2.53	3.79	24.0	D
Cl7(190)	1.89	7.07	10.1	49.6	D
Cl7(191)	0.720	1.70	3.06	18.4	D
Cl7(193)	1.02	2.90	3.85	22.6	D
Cl8(194)	3.12	10.6	16.3	59.7	D
Cl8(195)	0.953	3.36	5.34	21.4	D
Cl8(197)	0.399 J	0.631	1.39	11.4	U
Cl8(198)	0.520 U	0.542 U	1.32 U	11.5	U
Cl8(199)	2.64	10.1	15.1	46.0	D
Cl8(200)	0.544	1.21	2.16	12.4	D
Cl8(201)	0.622	1.45	2.47	11.4	D
Cl8(202)	1.06	2.78	4.40	15.8	D
Cl8(203)	2.69	10.2	15.2	47.1	D
Cl8(205)	0.518 U	0.938	1.32 U	11.4	U
Cl9(206)	2.01	7.70	11.8	22.3	D
Cl9(207)	0.652	1.12	2.33	11.4	U
Cl9(208)	0.803	2.59	4.17	12.9	D
Cl10(209)	0.748	2.12	4.22	11.4	U
LOC 1	1.82	12.4	13.8		U
LOC 2	122	2140	1880	224	
LOC 3	781	8600	8660	2760	
LOC 4	893	6810	7100	11800	
LOC 5	652	3050	3840	25000	

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14N-PCC15-00-05	S-14N-PV5-00-05	S-14N-RBB22-00-05	S-14D-2014-36-63-00-10
Battelle ID	L0122-P	L0125-P	L0133-P	L0208-P
Sample Type	SA	SA	SA	SA
Collection Date	11/18/2014	11/18/2014	11/19/2014	12/10/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/11/2015	03/11/2015	03/12/2015	03/15/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	0.47	2.28	0.47	6.79
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	5.08	4.88	2.00	4.60
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

LOC 6	323	1360	1840	12300
LOC 7	56.3	200	307	1650
LOC 8	12.0	41.3	62.4	214
LOC 9	3.46	11.4	18.3	35.2
LOC 10	0.748	2.12	4.22	U

Surrogate Recoveries (%)

Cl3(34)	96	86	90	102	D
Cl6(152)	93	85	87	105	D



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-36-75-00-10	S-14D-2014-36-76-00-10-REP	S-14D-2014-33-43-00-10	S-14D-2014-35-79-10-20
Battelle ID	L0239-P	L0246-P	L0266-P	L0316-P
Sample Type	SA	SA	SA	SA
Collection Date	12/10/2014	12/10/2014	12/11/2014	12/12/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/12/2015	03/12/2015	03/12/2015	03/12/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	2.99	4.84	6.12	0.00
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	4.87	4.74	4.64	10.02
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl1(1)	0.540	U	1.33		1.31		0.0740	J
Cl1(3)	0.540	U	1.98		2.13		0.118	J
Cl2(4)	11.4		12.2		35.4		0.684	
Cl2(5)	0.540	U	0.555	U	0.567	U	0.263	U
Cl2(6)	42.2		45.8		117	D	1.69	
Cl2(7)	1.47		1.21		2.80		0.264	U
Cl2(8)	46.4		54.4		109	D	1.37	
Cl2(9)	1.56		2.05		4.08		0.177	J
Cl2(11)	0.543	U	0.558	U	0.570	U	0.459	
Cl2(12)	0.540	U	0.555	U	1.14		0.263	U
Cl2(13)	5.89		49.2		43.0		0.912	
Cl2(15)	0.543	U	126	D	52.7		1.02	
Cl3(16)	0.543	U	44.1		38.7		0.738	
Cl3(17)	46.9		99.1	D	116	D	1.36	
Cl3(18)	159	D	191	D	241	D	2.84	
Cl3(19)	5.97		6.97		11.9		0.265	
Cl3(22)	133	D	182	D	108	D	1.65	
Cl3(24)	5.51		2.35		2.13		0.264	U
Cl3(25)	216	D	194	D	169	D	2.53	
Cl3(26)	356	D	334	D	245	D	4.53	
Cl3(27)	0.540	U	11.6		15.7		0.326	
Cl3(28)	503	D	587	D	421	D	5.04	
Cl3(29)	0.540	U	1.51		0.567	U	0.263	U
Cl3(30)	0.540	U	0.555	U	0.567	U	0.263	U
Cl3(31)	496	D	619	D	434	D	5.58	
Cl3(32)	0.540	U	42.6		46.4		0.753	
Cl3(33)	120	D	163	D	124	D	1.51	
Cl3(37)	135	D	188	D	70.3	D	1.32	
Cl4(40)	0.543	U	28.1		17.1		0.264	U
Cl4(41)	9.87		11.3		6.63		0.263	U
Cl4(42)	163	D	187	D	133	D	1.76	
Cl4(43)	0.540	U	43.6		0.567	U	0.263	U
Cl4(44)	261	D	317	D	222	D	3.25	
Cl4(45)	14.8		25.3		26.0		0.431	
Cl4(46)	0.543	U	9.85		11.1		0.264	U
Cl4(47)	160	D	167	D	117	D	1.64	

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-36-75-00-10	S-14D-2014-36-76-00-10-REP	S-14D-2014-33-43-00-10	S-14D-2014-35-79-10-20
Battelle ID	L0239-P	L0246-P	L0266-P	L0316-P
Sample Type	SA	SA	SA	SA
Collection Date	12/10/2014	12/10/2014	12/11/2014	12/12/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/12/2015	03/12/2015	03/12/2015	03/12/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	2.99	4.84	6.12	0.00
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	4.87	4.74	4.64	10.02
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl4(48)	0.540	U	61.7		41.9		0.624
Cl4(49)	554	D	589	D	381	D	5.53
Cl4(50)	0.543	U	0.558	U	0.570	U	0.264
Cl4(51)	8.01		10.7		11.2		0.275
Cl4(52)	596	D	621	D	403	D	6.64
Cl4(53)	22.4		27.2		26.6		0.522
Cl4(54)	0.543	U	0.558	U	0.595		0.108
Cl4(56)	118	D	178	D	77.6	D	1.28
Cl4(60)	65.9		119	D	33.9		0.821
Cl4(63)	33.6		32.7		14.2		0.428
Cl4(64)	200	D	258	D	164	D	1.87
Cl4(66)	310	D	462	D	204	D	3.06
Cl4(67)	44.7		49.2		23.3		0.831
Cl4(70)	267	D	439	D	194	D	2.55
Cl4(71)	47.6		57.0		48.4		0.946
Cl4(74)	194	D	266	D	125	D	2.02
Cl4(75)	8.83		6.52		5.23		0.264
Cl4(77)	27.1		43.4		21.6		0.514
Cl4(80)	18.1		15.7		6.36		0.264
Cl4(81)	0.540	U	6.94		0.567	U	0.263
Cl5(82)	30.6		43.9		15.8		0.476
Cl5(83)	0.540	U	62.0		33.3		0.743
Cl5(84)	118	D	142	D	47.3		1.11
Cl5(85)	83.9	D	105	D	29.8		0.855
Cl5(87)	161	D	210	D	45.2		1.21
Cl5(91)	112	D	130	D	74.3	D	1.45
Cl5(92)	114	D	126	D	47.0		1.16
Cl5(95)	322	D	369	D	199	D	3.52
Cl5(97)	172	D	215	D	86.4	D	1.73
Cl5(99)	337	D	415	D	169	D	3.16
Cl5(100)	4.97		5.75		3.90		0.264
Cl5(101)	489	D	688	D	244	D	4.92
Cl5(104)	0.540	U	0.555	U	0.567	U	0.263
Cl5(105)	186	D	243	D	66.2	D	1.67
Cl5(110)	599	D	725	D	288	D	5.95
Cl5(114)	0.540	U	12.3		4.69		0.263

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S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-36-75-00-10	S-14D-2014-36-76-00-10-REP	S-14D-2014-33-43-00-10	S-14D-2014-35-79-10-20
Battelle ID	L0239-P	L0246-P	L0266-P	L0316-P
Sample Type	SA	SA	SA	SA
Collection Date	12/10/2014	12/10/2014	12/11/2014	12/12/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/12/2015	03/12/2015	03/12/2015	03/12/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	2.99	4.84	6.12	0.00
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	4.87	4.74	4.64	10.02
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI5(115)	0.543	U	22.5	8.88	0.264	U
CI5(118)	520	D	658	228	4.50	
CI5(123)	42.1		53.5	21.1	0.556	
CI5(124)	13.2		18.6	7.46	0.264	U
CI5(125)	31.7		0.555	0.567	0.263	U
CI5(126)	0.543	U	4.29	0.570	0.264	U
CI5(127)	0.540	U	0.555	0.567	0.263	U
CI6(128)	99.0	D	123	28.8	1.16	
CI6(130)	19.9		31.3	9.18	0.364	
CI6(131)	9.76		7.84	2.84	0.264	U
CI6(134)	16.8		23.8	10.5	0.367	
CI6(135)	28.2		40.3	17.9	0.546	
CI6(136)	25.9		34.5	16.8	0.449	
CI6(137)	19.7		30.0	9.67	0.382	
CI6(138)	292	D	383	91.1	2.90	
CI6(139)	0.543	U	9.09	3.02	0.264	U
CI6(140)	0.543	U	1.72	0.570	0.264	U
CI6(141)	30.4		50.0	15.6	0.647	
CI6(144)	6.93		13.7	4.76	0.250	J
CI6(146)	40.8		60.4	23.4	0.754	
CI6(149)	329	D	384	145	3.18	
CI6(151)	31.8		46.0	20.6	0.548	
CI6(153)	491	D	602	192	4.47	
CI6(154)	6.04		7.41	4.04	0.263	U
CI6(155)	0.543	U	0.558	0.570	0.264	U
CI6(156)	42.7		58.2	19.1	0.681	
CI6(157)	11.5		15.1	4.81	0.264	U
CI6(158)	36.7		56.3	18.6	0.631	
CI6(163)	155	D	136	38.9	0.833	
CI6(164)	22.7		37.3	14.6	0.407	
CI6(166)	0.543	U	3.68	0.570	0.264	U
CI6(167)	22.4		29.4	11.0	0.518	
CI6(169)	0.543	U	8.80	0.570	0.264	U
CI7(170)	35.5		51.1	19.0	0.673	
CI7(171)	9.74		15.8	4.89	0.264	U
CI7(172)	7.23		7.82	2.91	0.263	U

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-36-75-00-10	S-14D-2014-36-76-00-10-REP	S-14D-2014-33-43-00-10	S-14D-2014-35-79-10-20
Battelle ID	L0239-P	L0246-P	L0266-P	L0316-P
Sample Type	SA	SA	SA	SA
Collection Date	12/10/2014	12/10/2014	12/11/2014	12/12/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/12/2015	03/12/2015	03/12/2015	03/12/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	2.99	4.84	6.12	0.00
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	4.87	4.74	4.64	10.02
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl7(173)	0.543	U	1.63	0.570	U	0.264	U
Cl7(174)	18.2		29.1	9.24		0.433	
Cl7(175)	2.27		3.54	0.879		0.264	U
Cl7(176)	3.10		4.49	1.67		0.263	U
Cl7(177)	16.1		23.9	7.42		0.417	
Cl7(178)	4.94		7.36	2.92		0.264	U
Cl7(179)	9.16		12.9	5.39		0.264	U
Cl7(180)	53.7		88.3	25.6		0.833	
Cl7(183)	15.2		23.3	7.76		0.377	
Cl7(184)	0.540	U	0.555	0.567	U	0.263	U
Cl7(185)	2.18		3.13	1.15		0.263	U
Cl7(187)	29.7		41.5	15.1		0.569	
Cl7(188)	0.543	U	0.644	0.569	J	0.264	U
Cl7(189)	0.540	U	3.61	0.567	U	0.263	U
Cl7(190)	7.32		9.73	3.42		0.264	U
Cl7(191)	2.46		2.47	1.36		0.264	U
Cl7(193)	2.20		3.50	1.67		0.264	U
Cl8(194)	12.2		16.1	6.80		0.263	U
Cl8(195)	3.93		4.67	2.23		0.263	U
Cl8(197)	0.540	U	0.768	0.567	U	0.263	U
Cl8(198)	0.543	U	12.2	0.570	U	0.264	U
Cl8(199)	10.3		14.4	5.13		0.263	U
Cl8(200)	1.07		1.35	0.713		0.263	U
Cl8(201)	1.45		2.01	0.871		0.263	U
Cl8(202)	2.40		3.31	1.58		0.275	
Cl8(203)	8.86		13.0	4.64		0.263	U
Cl8(205)	0.540	U	0.555	0.567	U	0.263	U
Cl9(206)	7.07		9.27	3.73		0.263	U
Cl9(207)	1.28		1.39	0.567	U	0.263	U
Cl9(208)	2.38		3.10	1.60		0.264	U
Cl10(209)	2.94		3.09	1.46		0.263	U
LOC 1		U	3.31	3.44		0.192	
LOC 2	109		291	365		6.31	
LOC 3	2180		2660	2040		28.4	
LOC 4	3120		4030	2320		35.1	
LOC 5	3340		4250	1620		33.0	

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Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-36-75-00-10	S-14D-2014-36-76-00-10-REP	S-14D-2014-33-43-00-10	S-14D-2014-35-79-10-20
Battelle ID	L0239-P	L0246-P	L0266-P	L0316-P
Sample Type	SA	SA	SA	SA
Collection Date	12/10/2014	12/10/2014	12/11/2014	12/12/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/12/2015	03/12/2015	03/12/2015	03/12/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	2.99	4.84	6.12	0.00
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	4.87	4.74	4.64	10.02
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

LOC 6	1740	2190	702	19.1
LOC 7	219	334	111	3.30
LOC 8	40.2	67.8	22.0	0.275
LOC 9	10.7	13.8	5.33	U
LOC 10	2.94	3.09	1.46	U

Surrogate Recoveries (%)

Cl3(34)	93	89	89	88
Cl6(152)	63	77	86	88



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-70-20-30	S-14D-2014-35-68-00-10	S-14D-2014-35-68-00-10-REP	S-14D-2014-35-7-10-20
Battelle ID	L0357-P	L0403-P	L0406-P	L0443-P
Sample Type	SA	SA	SA	SA
Collection Date	12/16/2014	12/16/2014	12/16/2014	12/17/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/12/2015	03/12/2015	03/13/2015	03/13/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	3.39	3.82	3.80	17.87
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	4.79	4.78	4.75	4.08
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl1(1)	0.550	U	2.47	2.59	0.645	U
Cl1(3)	0.550	U	1.99	1.68	1.82	
Cl2(4)	25.3		12.5	11.9	17.2	
Cl2(5)	0.550	U	0.551	0.554	0.645	U
Cl2(6)	131	D	31.4	34.3	88.1	D
Cl2(7)	2.97		1.52	1.56	1.60	
Cl2(8)	167	D	42.5	45.7	82.2	D
Cl2(9)	4.34		2.00	1.83	2.73	
Cl2(11)	0.552	U	0.553	0.556	0.648	U
Cl2(12)	4.31		6.94	0.554	0.645	U
Cl2(13)	121	D	31.6	36.2	85.1	D
Cl2(15)	214	D	53.4	76.8	119	D
Cl3(16)	149	D	18.4	27.6	67.8	D
Cl3(17)	256	D	49.7	82.3	143	D
Cl3(18)	480	D	133	149	274	D
Cl3(19)	16.4		6.93	6.90	9.37	
Cl3(22)	464	D	76.6	104	217	D
Cl3(24)	4.20		0.553	0.556	2.29	
Cl3(25)	395	D	161	151	299	D
Cl3(26)	632	D	234	231	452	D
Cl3(27)	17.2		13.2	13.0	17.5	
Cl3(28)	1500	D	388	424	744	D
Cl3(29)	0.550	U	0.551	0.554	0.645	U
Cl3(30)	0.550	U	0.551	0.554	0.645	U
Cl3(31)	1430	D	345	403	751	D
Cl3(32)	122	D	33.1	36.8	75.5	D
Cl3(33)	427	D	48.2	95.4	180	D
Cl3(37)	344	D	80.0	107	181	D
Cl4(40)	45.0		13.8	17.2	37.0	
Cl4(41)	22.2		0.551	3.41	13.1	
Cl4(42)	438	D	119	142	282	D
Cl4(43)	63.6	D	0.551	0.554	0.645	U
Cl4(44)	766	D	170	237	430	D
Cl4(45)	90.7	D	12.5	20.2	38.8	
Cl4(46)	15.8		7.32	9.91	15.3	
Cl4(47)	383	D	142	158	283	D

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-70-20-30	S-14D-2014-35-68-00-10	S-14D-2014-35-68-00-10-REP	S-14D-2014-35-7-10-20
Battelle ID	L0357-P	L0403-P	L0406-P	L0443-P
Sample Type	SA	SA	SA	SA
Collection Date	12/16/2014	12/16/2014	12/16/2014	12/17/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/12/2015	03/12/2015	03/13/2015	03/13/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	3.39	3.82	3.80	17.87
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	4.79	4.78	4.75	4.08
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl4(48)	110	D	36.5		41.5		71.2	D
Cl4(49)	1360	D	488	D	479	D	833	D
Cl4(50)	0.552	U	0.838		0.556	U	1.85	
Cl4(51)	18.2		12.6		11.7		18.0	
Cl4(52)	1290	D	440	D	493	D	864	D
Cl4(53)	78.3	D	30.6		28.4		40.3	
Cl4(54)	0.552	U	0.748		0.556	U	0.648	U
Cl4(56)	365	D	66.7	D	109	D	204	D
Cl4(60)	220	D	29.5		57.6	D	116	D
Cl4(63)	48.6		13.4		17.4		32.0	
Cl4(64)	586	D	129	D	170	D	321	D
Cl4(66)	989	D	232	D	300	D	535	D
Cl4(67)	115	D	29.0		32.8		105	D
Cl4(70)	1070	D	184	D	285	D	488	D
Cl4(71)	171	D	74.6	D	72.1	D	118	D
Cl4(74)	642	D	10.7		180	D	333	D
Cl4(75)	11.9		6.16		6.68		12.7	
Cl4(77)	135	D	28.4		36.5		71.6	D
Cl4(80)	19.9		5.94		5.64		16.1	
Cl4(81)	0.550	U	0.551	U	0.554	U	10.3	
Cl5(82)	123	D	15.6		22.9		46.3	
Cl5(83)	163	D	64.1	D	70.2	D	115	D
Cl5(84)	320	D	54.4		102	D	176	D
Cl5(85)	193	D	40.2		53.3	D	73.3	D
Cl5(87)	450	D	52.3		88.0	D	148	D
Cl5(91)	313	D	6.20		126	D	222	D
Cl5(92)	229	D	72.4	D	95.8	D	160	D
Cl5(95)	934	D	223	D	297	D	506	D
Cl5(97)	490	D	104	D	150	D	270	D
Cl5(99)	868	D	260	D	333	D	550	D
Cl5(100)	8.56		6.64		7.12		11.1	
Cl5(101)	1560	D	334	D	454	D	779	D
Cl5(104)	0.550	U	0.451	J	0.554	U	0.645	U
Cl5(105)	474	D	85.7	D	115	D	186	D
Cl5(110)	1850	D	407	D	499	D	826	D
Cl5(114)	30.9		4.67		6.71		14.8	

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3/27/2015

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-70-20-30	S-14D-2014-35-68-00-10	S-14D-2014-35-68-00-10-REP	S-14D-2014-35-7-10-20
Battelle ID	L0357-P	L0403-P	L0406-P	L0443-P
Sample Type	SA	SA	SA	SA
Collection Date	12/16/2014	12/16/2014	12/16/2014	12/17/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/12/2015	03/12/2015	03/13/2015	03/13/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	3.39	3.82	3.80	17.87
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	4.79	4.78	4.75	4.08
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl5(115)	28.2	2.55	3.17	10.6
Cl5(118)	1620 D	352 D	440 D	702 D
Cl5(123)	146 D	31.0	41.8	80.8 D
Cl5(124)	47.8	9.81	12.8	22.6
Cl5(125)	0.550 U	0.551 U	0.554 U	0.645 U
Cl5(126)	0.552 U	0.553 U	0.556 U	4.42
Cl5(127)	0.550 U	0.551 U	0.554 U	0.645 U
Cl6(128)	254 D	41.2	63.2 D	104 D
Cl6(130)	76.7 D	13.8	18.7	34.9
Cl6(131)	21.2	8.06	4.80	11.0
Cl6(134)	61.0	15.6	19.7	9.66
Cl6(135)	100 D	28.2	33.8	63.1
Cl6(136)	91.2 D	27.6	31.3	58.0
Cl6(137)	86.6 D	13.4	17.9	33.1
Cl6(138)	805 D	144 D	198 D	313 D
Cl6(139)	22.4	4.76	6.20	12.5
Cl6(140)	3.85	0.553 U	0.556 U	1.78
Cl6(141)	140 D	18.3	27.4	53.1
Cl6(144)	36.7	6.63	8.76	15.7
Cl6(146)	150 D	39.9	47.0	84.8 D
Cl6(149)	745 D	229 D	274 D	451 D
Cl6(151)	124 D	31.7	38.4	72.4 D
Cl6(153)	1280 D	305 D	383 D	612 D
Cl6(154)	16.0	8.81	8.21	15.0
Cl6(155)	0.552 U	0.553 U	0.556 U	0.648 U
Cl6(156)	166 D	28.3	35.2	63.5
Cl6(157)	39.5	8.92	10.2	17.2
Cl6(158)	135 D	24.6	33.0	63.8 D
Cl6(163)	224 D	77.6 D	83.3 D	139 D
Cl6(164)	88.1 D	19.2	26.0	46.0
Cl6(166)	8.42	0.553 U	2.05	3.95
Cl6(167)	72.1 D	18.2	22.0	38.0
Cl6(169)	0.552 U	4.83	7.11	9.20
Cl7(170)	141 D	27.5	31.0	58.4
Cl7(171)	36.6	7.35	8.84	16.5
Cl7(172)	20.7	4.68	5.01	9.55

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S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-70-20-30	S-14D-2014-35-68-00-10	S-14D-2014-35-68-00-10-REP	S-14D-2014-35-7-10-20
Battelle ID	L0357-P	L0403-P	L0406-P	L0443-P
Sample Type	SA	SA	SA	SA
Collection Date	12/16/2014	12/16/2014	12/16/2014	12/17/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/12/2015	03/12/2015	03/13/2015	03/13/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	3.39	3.82	3.80	17.87
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	4.79	4.78	4.75	4.08
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl7(173)	0.552	U	0.553	U	0.556	U	0.648	U
Cl7(174)	71.4	D	13.6		16.5		31.9	
Cl7(175)	8.18		1.78		1.70		3.65	
Cl7(176)	11.0		2.16		2.73		5.07	
Cl7(177)	54.2		11.8		14.3		25.7	
Cl7(178)	17.1		5.04		5.50		10.1	
Cl7(179)	33.3		9.14		10.2		19.0	
Cl7(180)	189	D	42.1		47.3		91.6	D
Cl7(183)	57.0		12.2		14.3		27.8	
Cl7(184)	0.550	U	0.551	U	0.554	U	0.645	U
Cl7(185)	9.94		1.36		1.94		3.53	
Cl7(187)	95.9	D	30.2		32.2		58.9	
Cl7(188)	0.929		0.839		0.656		0.964	
Cl7(189)	7.88		0.551	U	3.18		4.78	
Cl7(190)	23.3		6.14		6.05		12.0	
Cl7(191)	7.25		1.78		1.89		3.36	
Cl7(193)	6.48		2.07		2.70		4.28	
Cl8(194)	36.2		9.22		9.37		18.8	
Cl8(195)	11.6		3.01		2.96		5.45	
Cl8(197)	1.40		0.551	U	0.605		0.871	
Cl8(198)	0.552	U	0.553	U	0.556	U	0.648	U
Cl8(199)	36.2		8.32		8.77		17.0	
Cl8(200)	3.50		1.22		1.01		1.64	
Cl8(201)	4.14		1.16		1.42		2.27	
Cl8(202)	7.09		2.43		2.38		4.33	
Cl8(203)	33.9		8.10		8.31		16.8	
Cl8(205)	0.550	U	0.551	U	0.554	U	0.645	U
Cl9(206)	22.1		5.87		5.46		11.5	
Cl9(207)	2.54		0.551	U	1.04		1.48	
Cl9(208)	7.01		2.05		2.11		3.96	
Cl10(209)	8.42		2.14		1.75		3.24	
LOC 1		U	4.46		4.27		1.82	
LOC 2	670		182		208		396	
LOC 3	6240		1590		1830		3410	
LOC 4	9050		2280		2910		5290	
LOC 5	9850		2130		2920		4900	

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Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-70-20-30	S-14D-2014-35-68-00-10	S-14D-2014-35-68-00-10-REP	S-14D-2014-35-7-10-20
Battelle ID	L0357-P	L0403-P	L0406-P	L0443-P
Sample Type	SA	SA	SA	SA
Collection Date	12/16/2014	12/16/2014	12/16/2014	12/17/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/12/2015	03/12/2015	03/13/2015	03/13/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	3.39	3.82	3.80	17.87
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	4.79	4.78	4.75	4.08
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

LOC 6	4750	1120	1400	2330
LOC 7	791	180	206	387
LOC 8	134	33.5	34.8	67.2
LOC 9	31.6	7.92	8.61	16.9
LOC 10	8.42	2.14	1.75	3.24

Surrogate Recoveries (%)

Cl3(34)	82	87	91	86
Cl6(152)	99	83	93	98



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID S-14D-2014-25-1-10-20 S-14D-2014-26-1-00-10 S-14D-2014-30-6-00-10 S-14D-2014-31-6-00-10

Battelle ID	L0473-P	L0477-P	L0504-P	L0528-P
Sample Type	SA	SA	SA	SA
Collection Date	12/19/2014	12/19/2014	12/19/2014	12/19/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/13/2015	03/13/2015	03/15/2015	03/15/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	10.92	11.21	2.69	0.73
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	8.92	8.99	4.83	4.94
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl1(1)	5.90	U	5.86	U	0.545	U	1.06
Cl1(3)	5.90	U	5.86	U	1.82		2.26
Cl2(4)	5.92	U	11.4	D	22.7		22.4
Cl2(5)	5.90	U	5.86	U	0.545	U	0.533
Cl2(6)	8.33	D	34.8	D	66.5	D	111
Cl2(7)	5.92	U	5.88	U	1.68		2.15
Cl2(8)	8.07	D	32.9	D	85.1	D	78.8
Cl2(9)	5.90	U	5.86	U	3.46		3.22
Cl2(11)	5.92	U	5.88	U	0.547	U	0.535
Cl2(12)	5.90	U	5.86	U	1.79		0.533
Cl2(13)	5.92	U	21.6	D	69.5	D	73.0
Cl2(15)	5.92	U	24.0	D	84.7	D	48.5
Cl3(16)	5.92	U	5.88	U	28.1		32.1
Cl3(17)	11.4	D	30.8	D	123	D	101
Cl3(18)	17.4	D	57.8	D	213	D	219
Cl3(19)	5.90	U	5.86	U	13.9		11.5
Cl3(22)	5.92	U	31.8	D	103	D	104
Cl3(24)	5.92	U	5.88	U	0.547	U	0.535
Cl3(25)	15.3	D	66.2	D	257	D	320
Cl3(26)	20.2	D	106	D	343	D	546
Cl3(27)	5.90	U	11.7	D	26.4		31.7
Cl3(28)	25.1	D	114	D	525	D	424
Cl3(29)	5.90	U	5.86	U	0.545	U	0.533
Cl3(30)	5.90	U	5.86	U	0.545	U	0.533
Cl3(31)	27.5	D	121	D	548	D	464
Cl3(32)	5.90	U	17.5	D	74.8	D	73.4
Cl3(33)	12.2	D	26.4	D	76.6	D	85.8
Cl3(37)	5.90	U	33.0	D	78.3	D	37.6
Cl4(40)	5.92	U	5.88	U	23.3		20.2
Cl4(41)	5.90	U	5.86	U	0.545	U	0.533
Cl4(42)	5.92	U	45.3	D	148	D	205
Cl4(43)	5.90	U	5.86	U	0.545	U	0.533
Cl4(44)	54.8	D	81.0	D	214	D	318
Cl4(45)	5.90	U	5.86	U	21.7		20.6
Cl4(46)	5.92	U	5.88	U	13.7		14.5
Cl4(47)	12.0	D	45.4	D	194	D	222

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID S-14D-2014-25-1-10-20 S-14D-2014-26-1-00-10 S-14D-2014-30-6-00-10 S-14D-2014-31-6-00-10

Battelle ID	L0473-P	L0477-P	L0504-P	L0528-P
Sample Type	SA	SA	SA	SA
Collection Date	12/19/2014	12/19/2014	12/19/2014	12/19/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/13/2015	03/13/2015	03/15/2015	03/15/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	10.92	11.21	2.69	0.73
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	8.92	8.99	4.83	4.94
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl4(48)	5.90	U	5.86	U	42.4	D	0.533	U
Cl4(49)	40.7	D	173	D	622	D	798	D
Cl4(50)	5.92	U	5.88	U	0.547	U	1.33	
Cl4(51)	5.92	U	5.88	U	21.9		22.2	
Cl4(52)	57.8	D	171	D	587	D	849	D
Cl4(53)	5.92	U	13.8	D	61.2	D	50.6	
Cl4(54)	5.92	U	5.88	U	0.838		0.951	
Cl4(56)	14.4	D	31.4	D	89.5	D	30.8	
Cl4(60)	5.92	U	5.88	U	50.4	D	17.9	
Cl4(63)	5.90	U	5.86	U	19.4		14.4	
Cl4(64)	11.1	D	34.9	D	191	D	219	D
Cl4(66)	29.0	D	49.5	D	240	D	142	D
Cl4(67)	5.92	U	18.9	D	34.0		34.2	
Cl4(70)	38.3	D	48.7	D	207	D	115	D
Cl4(71)	5.90	U	22.5	D	102	D	84.9	D
Cl4(74)	13.1	D	30.6	D	11.7		81.4	D
Cl4(75)	5.92	U	5.88	U	7.77		12.4	
Cl4(77)	5.90	U	5.86	U	25.8		16.5	
Cl4(80)	5.92	U	5.88	U	5.05		6.77	
Cl4(81)	5.90	U	5.86	U	0.545	U	0.533	U
Cl5(82)	5.90	U	5.86	U	15.6		11.8	
Cl5(83)	5.90	U	20.6	D	76.3	D	101	D
Cl5(84)	17.2	D	32.6	D	91.7	D	127	D
Cl5(85)	5.90	U	5.86	U	31.2		26.0	
Cl5(87)	30.3	D	25.3	D	50.8	D	38.8	
Cl5(91)	18.0	D	41.3	D	123	D	180	D
Cl5(92)	18.6	D	28.2	D	64.5	D	121	D
Cl5(95)	58.7	D	85.6	D	235	D	391	D
Cl5(97)	28.4	D	35.5	D	110	D	113	D
Cl5(99)	43.4	D	75.7	D	284	D	289	D
Cl5(100)	5.92	U	5.88	U	8.68		11.8	
Cl5(101)	88.9	D	110	D	317	D	366	D
Cl5(104)	5.90	U	5.86	U	0.545	U	0.533	U
Cl5(105)	35.3	D	62.7	D	92.1	D	41.2	
Cl5(110)	86.5	D	127	D	402	D	467	D
Cl5(114)	5.90	U	5.86	U	4.98		4.27	

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID S-14D-2014-25-1-10-20 S-14D-2014-26-1-00-10 S-14D-2014-30-6-00-10 S-14D-2014-31-6-00-10

Battelle ID	L0473-P	L0477-P	L0504-P	L0528-P
Sample Type	SA	SA	SA	SA
Collection Date	12/19/2014	12/19/2014	12/19/2014	12/19/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/13/2015	03/13/2015	03/15/2015	03/15/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	10.92	11.21	2.69	0.73
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	8.92	8.99	4.83	4.94
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl5(115)	5.92	U	5.88	U	5.81	3.76
Cl5(118)	82.0	D	93.5	D	300	299
Cl5(123)	5.90	U	5.86	U	30.3	35.4
Cl5(124)	5.92	U	5.88	U	8.85	9.26
Cl5(125)	5.90	U	5.86	U	0.545	0.533
Cl5(126)	5.92	U	5.88	U	0.547	0.535
Cl5(127)	5.90	U	5.86	U	0.545	0.533
Cl6(128)	5.90	U	18.6	D	28.9	38.4
Cl6(130)	5.90	U	5.86	U	11.8	11.5
Cl6(131)	5.92	U	5.88	U	3.29	3.51
Cl6(134)	5.92	U	5.88	U	14.1	22.0
Cl6(135)	5.92	U	13.2	D	28.1	39.4
Cl6(136)	7.44	D	11.4	D	25.7	38.8
Cl6(137)	5.92	U	5.88	U	11.8	12.2
Cl6(138)	46.9	D	42.4	D	89.7	97.8
Cl6(139)	5.92	U	5.88	U	4.24	5.11
Cl6(140)	5.92	U	5.88	U	0.547	0.535
Cl6(141)	15.8	D	5.88	U	15.5	17.2
Cl6(144)	5.90	U	5.86	U	5.97	5.77
Cl6(146)	5.90	U	18.3	D	33.7	43.7
Cl6(149)	44.8	D	76.0	D	232	294
Cl6(151)	5.90	U	15.4	D	28.8	43.2
Cl6(153)	66.0	D	92.9	D	268	325
Cl6(154)	5.90	U	5.86	U	9.08	12.0
Cl6(155)	5.92	U	5.88	U	0.547	0.535
Cl6(156)	5.90	U	5.86	U	22.2	25.1
Cl6(157)	5.92	U	5.88	U	5.42	6.65
Cl6(158)	11.2	D	12.0	D	19.3	25.6
Cl6(163)	12.3	D	21.6	D	68.8	80.8
Cl6(164)	5.90	U	5.86	U	17.1	19.8
Cl6(166)	5.92	U	5.88	U	0.547	2.36
Cl6(167)	5.90	U	5.86	U	16.4	19.8
Cl6(169)	5.92	U	5.88	U	0.547	5.27
Cl7(170)	5.92	U	5.88	U	20.5	28.0
Cl7(171)	5.92	U	5.88	U	5.79	7.52
Cl7(172)	5.90	U	5.86	U	3.82	4.42

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-25-1-10-20	S-14D-2014-26-1-00-10	S-14D-2014-30-6-00-10	S-14D-2014-31-6-00-10
Battelle ID	L0473-P	L0477-P	L0504-P	L0528-P
Sample Type	SA	SA	SA	SA
Collection Date	12/19/2014	12/19/2014	12/19/2014	12/19/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/13/2015	03/13/2015	03/15/2015	03/15/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	10.92	11.21	2.69	0.73
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	8.92	8.99	4.83	4.94
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI7(173)	5.92	U	5.88	U	0.547	U	0.535	U
CI7(174)	5.90	U	5.86	U	10.8		13.7	
CI7(175)	5.92	U	5.88	U	1.30		1.47	
CI7(176)	5.90	U	5.86	U	1.86		2.17	
CI7(177)	5.90	U	5.86	U	8.20		10.9	
CI7(178)	5.92	U	5.88	U	4.32		5.33	
CI7(179)	5.92	U	5.88	U	8.05		10.1	
CI7(180)	5.90	U	18.3	D	32.6		38.0	
CI7(183)	5.90	U	8.30	D	10.4		12.5	
CI7(184)	5.90	U	5.86	U	0.545	U	0.533	U
CI7(185)	5.90	U	5.86	U	1.54		1.74	
CI7(187)	10.3	D	12.9	D	25.9		31.6	
CI7(188)	5.92	U	5.88	U	0.797		0.759	
CI7(189)	5.90	U	5.86	U	0.545	U	0.533	U
CI7(190)	5.92	U	5.88	U	4.56		6.36	
CI7(191)	5.92	U	5.88	U	1.47		1.63	
CI7(193)	5.92	U	5.88	U	1.80		4.67	
CI8(194)	5.90	U	5.86	U	7.11		9.07	
CI8(195)	5.90	U	5.86	U	2.16		2.76	
CI8(197)	5.90	U	5.86	U	0.545	U	0.683	
CI8(198)	5.92	U	5.88	U	0.547	U	0.535	U
CI8(199)	18.4	D	16.6	D	6.06		8.85	
CI8(200)	5.90	U	5.86	U	1.09		1.08	
CI8(201)	5.90	U	5.86	U	1.45		1.22	
CI8(202)	5.92	U	9.65	D	2.13		2.33	
CI8(203)	5.90	U	5.86	U	6.19		7.96	
CI8(205)	5.90	U	5.86	U	0.545	U	0.533	U
CI9(206)	41.3	D	18.9	D	4.65		11.5	
CI9(207)	5.90	U	5.86	U	0.545	U	1.13	
CI9(208)	19.0	D	11.0	D	1.54		4.34	
CI10(209)	22.9	D	5.86	U	0.545	U	8.17	
LOC 1		U		U	1.82		3.32	
LOC 2	16.4		125		335		339	
LOC 3	129		616		2410		2450	
LOC 4	271		766		2930		3300	
LOC 5	507		738		2250		2640	

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3/27/2015

S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-25-1-10-20	S-14D-2014-26-1-00-10	S-14D-2014-30-6-00-10	S-14D-2014-31-6-00-10
Battelle ID	L0473-P	L0477-P	L0504-P	L0528-P
Sample Type	SA	SA	SA	SA
Collection Date	12/19/2014	12/19/2014	12/19/2014	12/19/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/13/2015	03/13/2015	03/15/2015	03/15/2015
Analytical Instrument	MS	MS	MS	MS
% Moisture	10.92	11.21	2.69	0.73
% Lipid	NA	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SEDIMENT	SEDIMENT
Sample Size	8.92	8.99	4.83	4.94
Size Unit-Basis	G_DRY	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

LOC 6	204	322	960	1200
LOC 7	10.3	39.5	144	181
LOC 8	18.4	26.2	26.2	34.0
LOC 9	60.3	29.9	6.19	17.0
LOC 10	22.9	U	U	8.17

Surrogate Recoveries (%)

Cl3(34)	118	D	99	D	90	80
Cl6(152)	89	D	92	D	85	88



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-31-7A-00-10	S-14D-2014-31-7B-00-10	S-14L-34-29-30-34
Battelle ID	L0531-P	L0534-P	M5096-P
Sample Type	SA	SA	SA
Collection Date	12/19/2014	12/19/2014	07/31/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/15/2015	03/15/2015	03/15/2015
Analytical Instrument	MS	MS	MS
% Moisture	1.16	0.00	7.98
% Lipid	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SED
Sample Size	5.02	10.06	9.17
Size Unit-Basis	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl1(1)	2.81	0.794	0.287	U
Cl1(3)	9.89	1.64	0.287	U
Cl2(4)	235 D	14.6	0.288	U
Cl2(5)	0.524 U	0.262 U	0.287	U
Cl2(6)	672 D	36.3 D	6.16	
Cl2(7)	5.85	1.07	0.128	J
Cl2(8)	552 D	37.4 D	4.09	
Cl2(9)	9.15	1.44	0.287	U
Cl2(11)	0.526 U	8.17	0.288	U
Cl2(12)	0.524 U	0.262 U	0.287	U
Cl2(13)	346 D	21.2	3.72	
Cl2(15)	284 D	21.4	3.31	
Cl3(16)	31.8	5.19	4.08	
Cl3(17)	668 D	43.6 D	7.75	
Cl3(18)	1610 D	88.8 D	16.4	
Cl3(19)	121 D	6.93	0.287	U
Cl3(22)	241 D	18.0	12.3	
Cl3(24)	0.526 U	0.263 U	0.288	U
Cl3(25)	1620 D	99.6 D	19.4	
Cl3(26)	2280 D	147 D	44.5	D
Cl3(27)	247 D	13.7	0.287	U
Cl3(28)	2390 D	167 D	42.3	D
Cl3(29)	0.524 U	0.262 U	0.287	U
Cl3(30)	0.524 U	0.262 U	0.287	U
Cl3(31)	2610 D	176 D	43.1	D
Cl3(32)	412 D	31.6 D	3.08	
Cl3(33)	195 D	16.8	10.5	
Cl3(37)	148 D	14.6	5.09	
Cl4(40)	33.8	9.17	4.18	
Cl4(41)	0.524 U	0.262 U	5.11	
Cl4(42)	613 D	45.0 D	15.3	
Cl4(43)	0.524 U	0.262 U	0.287	U
Cl4(44)	830 D	62.7 D	42.6	D
Cl4(45)	118 D	5.76	8.85	
Cl4(46)	26.9	5.18	0.288	U
Cl4(47)	756 D	67.0 D	14.1	

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-31-7A-00-10	S-14D-2014-31-7B-00-10	S-14L-34-29-30-34
Battelle ID	L0531-P	L0534-P	M5096-P
Sample Type	SA	SA	SA
Collection Date	12/19/2014	12/19/2014	07/31/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/15/2015	03/15/2015	03/15/2015
Analytical Instrument	MS	MS	MS
% Moisture	1.16	0.00	7.98
% Lipid	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SED
Sample Size	5.02	10.06	9.17
Size Unit-Basis	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl4(48)	0.524	U	0.262	U	5.78
Cl4(49)	2780	D	243	D	60.4 D
Cl4(50)	3.02		0.400		0.288 U
Cl4(51)	128	D	10.9		0.288 U
Cl4(52)	2990	D	240	D	65.8 D
Cl4(53)	299	D	28.1	D	2.77
Cl4(54)	1.98		0.489		0.288 U
Cl4(56)	155	D	11.7		5.47
Cl4(60)	35.7		6.68		4.40
Cl4(63)	20.6		3.91		0.287 U
Cl4(64)	748	D	48.5	D	15.4
Cl4(66)	415	D	45.1	D	15.1
Cl4(67)	134	D	9.75		5.36
Cl4(70)	335	D	35.8	D	13.2
Cl4(71)	390	D	40.2	D	3.79
Cl4(74)	392	D	33.1	D	10.1
Cl4(75)	9.68		4.06		1.64
Cl4(77)	30.2		5.50		0.287 U
Cl4(80)	11.5		1.55		3.15
Cl4(81)	0.524	U	0.262	U	0.287 U
Cl5(82)	21.4		2.98		0.287 U
Cl5(83)	246	D	23.7		0.287 U
Cl5(84)	317	D	18.9		10.8
Cl5(85)	63.9	D	6.74		2.42
Cl5(87)	146	D	9.75		8.09
Cl5(91)	483	D	44.1	D	13.9
Cl5(92)	280	D	20.9		10.5
Cl5(95)	979	D	81.1	D	35.6 D
Cl5(97)	286	D	28.9	D	12.1
Cl5(99)	704	D	78.8	D	34.0 D
Cl5(100)	14.1		4.14		0.665
Cl5(101)	852	D	84.7	D	42.3 D
Cl5(104)	0.587		0.239	J	0.287 U
Cl5(105)	146	D	11.7		9.28
Cl5(110)	1350	D	118	D	0.287 U
Cl5(114)	7.09		0.262	U	0.287 U

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-31-7A-00-10	S-14D-2014-31-7B-00-10	S-14L-34-29-30-34
Battelle ID	L0531-P	L0534-P	M5096-P
Sample Type	SA	SA	SA
Collection Date	12/19/2014	12/19/2014	07/31/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/15/2015	03/15/2015	03/15/2015
Analytical Instrument	MS	MS	MS
% Moisture	1.16	0.00	7.98
% Lipid	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SED
Sample Size	5.02	10.06	9.17
Size Unit-Basis	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

Cl5(115)	6.20	1.35	0.288	U
Cl5(118)	685 D	72.7 D	37.0	D
Cl5(123)	40.5	8.26	0.287	U
Cl5(124)	10.8	2.09	0.288	U
Cl5(125)	0.524 U	0.262 U	0.287	U
Cl5(126)	3.01	0.484	0.288	U
Cl5(127)	0.524 U	0.262 U	0.287	U
Cl6(128)	46.0	9.44	5.32	
Cl6(130)	16.9	2.91	0.287	U
Cl6(131)	5.11	2.55	0.288	U
Cl6(134)	28.2	5.11	0.288	U
Cl6(135)	48.2	9.53	3.92	
Cl6(136)	111 D	9.96	3.48	
Cl6(137)	15.9	3.19	0.288	U
Cl6(138)	238 D	22.8	15.0	
Cl6(139)	7.13	1.51	0.288	U
Cl6(140)	0.526 U	0.263 U	0.288	U
Cl6(141)	21.9	3.95	0.288	U
Cl6(144)	9.45	1.20	0.287	U
Cl6(146)	116 D	11.8	5.05	
Cl6(149)	801 D	86.6 D	30.4	D
Cl6(151)	111 D	10.4	4.53	
Cl6(153)	804 D	95.2 D	36.8	D
Cl6(154)	16.8	4.10	1.13	
Cl6(155)	0.451 J	0.263 U	0.288	U
Cl6(156)	30.0	6.47	0.287	U
Cl6(157)	7.71	1.70	3.30	
Cl6(158)	35.3	6.70	3.60	
Cl6(163)	260 D	25.8 D	11.3	
Cl6(164)	26.9	5.15	4.48	
Cl6(166)	3.80	0.783	0.288	U
Cl6(167)	23.5	5.28	0.287	U
Cl6(169)	5.69	1.65	0.288	U
Cl7(170)	32.7	7.30	0.288	U
Cl7(171)	9.83	1.85	0.288	U
Cl7(172)	5.40	1.25	0.287	U

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-31-7A-00-10	S-14D-2014-31-7B-00-10	S-14L-34-29-30-34
Battelle ID	L0531-P	L0534-P	M5096-P
Sample Type	SA	SA	SA
Collection Date	12/19/2014	12/19/2014	07/31/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/15/2015	03/15/2015	03/15/2015
Analytical Instrument	MS	MS	MS
% Moisture	1.16	0.00	7.98
% Lipid	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SED
Sample Size	5.02	10.06	9.17
Size Unit-Basis	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

CI7(173)	1.30	0.263 U	0.288 U
CI7(174)	17.8	3.45	0.287 U
CI7(175)	1.80	0.392	0.288 U
CI7(176)	3.02	0.635	0.423
CI7(177)	14.4	2.89	1.85
CI7(178)	7.48	1.81	0.683
CI7(179)	15.0	3.17	1.14
CI7(180)	50.1	11.0	6.48
CI7(183)	17.7	3.80	1.74
CI7(184)	0.524 U	0.262 U	0.287 U
CI7(185)	2.32	0.547	0.287 U
CI7(187)	45.6	10.8	3.72
CI7(188)	0.993	0.351	0.288 U
CI7(189)	3.67	0.700	0.287 U
CI7(190)	7.53	1.77	0.288 U
CI7(191)	1.96	0.520	0.288 U
CI7(193)	6.63	1.20	0.288 U
CI8(194)	11.5	2.84	0.287 U
CI8(195)	3.21	0.873	0.287 U
CI8(197)	0.650	0.262 U	0.287 U
CI8(198)	0.526 U	0.263 U	0.288 U
CI8(199)	10.5	2.78	3.09
CI8(200)	1.26	0.388	0.287 U
CI8(201)	1.75	0.451	0.369
CI8(202)	3.22	0.882	1.24
CI8(203)	10.4	2.70	2.04
CI8(205)	0.524 U	0.262 U	0.287 U
CI9(206)	7.01	1.87	3.60
CI9(207)	1.11	0.407	0.287 U
CI9(208)	2.34	0.674	1.51
CI10(209)	1.95	0.510	1.80
LOC 1	12.7	2.43	U
LOC 2	2100	142	17.4
LOC 3	12600	829	208
LOC 4	11300	964	302
LOC 5	6640	620	217

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Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-31-7A-00-10	S-14D-2014-31-7B-00-10	S-14L-34-29-30-34
Battelle ID	L0531-P	L0534-P	M5096-P
Sample Type	SA	SA	SA
Collection Date	12/19/2014	12/19/2014	07/31/2014
Extraction Date	03/06/2015	03/06/2015	03/06/2015
Analysis Date	03/15/2015	03/15/2015	03/15/2015
Analytical Instrument	MS	MS	MS
% Moisture	1.16	0.00	7.98
% Lipid	NA	NA	NA
Matrix	SEDIMENT	SEDIMENT	SED
Sample Size	5.02	10.06	9.17
Size Unit-Basis	G_DRY	G_DRY	G_DRY
Units	UG/KG_DRY	UG/KG_DRY	UG/KG_DRY

LOC 6	2790	334	128
LOC 7	245	53.4	16.0
LOC 8	42.5	10.9	6.74
LOC 9	10.5	2.95	5.11
LOC 10	1.95	0.510	1.80

Surrogate Recoveries (%)

Cl3(34)	77	88	88
Cl6(152)	85	91	81



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-79-10-20	S-14D-2014-35-79-10-20			
Battelle ID	L0316-P	L0316MS-P			
Sample Type	SA	MS			
Collection Date	12/12/2014	12/12/2014			
Extraction Date	03/06/2015	03/06/2015			
Analysis Date	03/12/2015	03/12/2015			
Analytical Instrument	MS	MS			
% Moisture	0.00	0.00			
% Lipid	NA	NA			
Matrix	SEDIMENT	SEDIMENT			
Sample Size	10.02	4.96			
Size Unit-Basis	G_DRY	G_DRY			
Units	UG/KG_DRY	UG/KG_DRY	Target	% REC	Qual

Cl1(1)	0.0740 J	10.0	12.85	77
Cl1(3)	0.118 J	10.6	12.85	82
Cl2(4)	0.684	11.0	12.60	82
Cl2(5)	0.263 U	0.504 U		
Cl2(6)	1.69	1.86		
Cl2(7)	0.264 U	0.506 U		
Cl2(8)	1.37	11.6	12.85	80
Cl2(9)	0.177 J	0.504 U		
Cl2(11)	0.459	0.506 U		
Cl2(12)	0.263 U	0.504 U		
Cl2(13)	0.912	0.506 U		
Cl2(15)	1.02	10.7	12.60	77
Cl3(16)	0.738	0.506 U		
Cl3(17)	1.36	0.506 U		
Cl3(18)	2.84	13.7	12.85	85
Cl3(19)	0.265	11.6	12.85	88
Cl3(22)	1.65	0.506 U		
Cl3(24)	0.264 U	0.506 U		
Cl3(25)	2.53	0.504 U		
Cl3(26)	4.53	0.504 U		
Cl3(27)	0.326	0.504 U		
Cl3(28)	5.04	17.1	12.85	94
Cl3(29)	0.263 U	0.504 U		
Cl3(30)	0.263 U	0.504 U		
Cl3(31)	5.58	17.7	12.85	94
Cl3(32)	0.753	0.504 U		
Cl3(33)	1.51	0.506 U		
Cl3(37)	1.32	13.3	12.85	93
Cl4(40)	0.264 U	0.506 U		
Cl4(41)	0.263 U	0.504 U		
Cl4(42)	1.76	0.506 U		
Cl4(43)	0.263 U	0.504 U		
Cl4(44)	3.25	15.8	12.85	98
Cl4(45)	0.431	0.504 U		

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-79-10-20
Battelle ID	L0316MSD-P
Sample Type	MSD
Collection Date	12/12/2014
Extraction Date	03/06/2015
Analysis Date	03/12/2015
Analytical Instrument	MS
% Moisture	0.80
% Lipid	NA
Matrix	SEDIMENT
Sample Size	4.94
Size Unit-Basis	G_DRY
Units	UG/KG_DRY

	Target	% REC	Qual	RPD	Qual
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Cl1(1)	10.5	12.90	81	5.1	
Cl1(3)	11.2	12.90	86	4.8	
Cl2(4)	11.2	12.65	83	1.2	
Cl2(5)	0.506 U				
Cl2(6)	0.506 U				
Cl2(7)	0.508 U				
Cl2(8)	11.8	12.90	81	1.2	
Cl2(9)	0.506 U				
Cl2(11)	0.508 U				
Cl2(12)	0.506 U				
Cl2(13)	0.508 U				
Cl2(15)	11.3	12.65	81	5.1	
Cl3(16)	0.508 U				
Cl3(17)	0.508 U				
Cl3(18)	13.5	12.90	83	2.4	
Cl3(19)	12.0	12.90	91	3.4	
Cl3(22)	0.508 U				
Cl3(24)	0.508 U				
Cl3(25)	0.506 U				
Cl3(26)	0.506 U				
Cl3(27)	0.506 U				
Cl3(28)	16.8	12.90	91	3.2	
Cl3(29)	0.506 U				
Cl3(30)	0.506 U				
Cl3(31)	17.3	12.90	91	3.2	
Cl3(32)	0.506 U				
Cl3(33)	0.508 U				
Cl3(37)	13.6	12.90	95	2.1	
Cl4(40)	0.508 U				
Cl4(41)	0.506 U				
Cl4(42)	0.508 U				
Cl4(43)	0.506 U				
Cl4(44)	15.5	12.90	95	3.1	
Cl4(45)	0.506 U				

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S15-0072MS-Master_3



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-79-10-20	S-14D-2014-35-79-10-20			
Battelle ID	L0316-P	L0316MS-P			
Sample Type	SA	MS			
Collection Date	12/12/2014	12/12/2014			
Extraction Date	03/06/2015	03/06/2015			
Analysis Date	03/12/2015	03/12/2015			
Analytical Instrument	MS	MS			
% Moisture	0.00	0.00			
% Lipid	NA	NA			
Matrix	SEDIMENT	SEDIMENT			
Sample Size	10.02	4.96			
Size Unit-Basis	G_DRY	G_DRY			
Units	UG/KG_DRY	UG/KG_DRY	Target	% REC	Qual

Cl4(46)	0.264 U	0.506 U		
Cl4(47)	1.64	0.504 U		
Cl4(48)	0.624	0.504 U		
Cl4(49)	5.53	19.1	12.60	108
Cl4(50)	0.264 U	0.506 U		
Cl4(51)	0.275	0.506 U		
Cl4(52)	6.64	19.5	12.85	100
Cl4(53)	0.522	0.506 U		
Cl4(54)	0.108 J	10.3	12.85	79
Cl4(56)	1.28	0.506 U		
Cl4(60)	0.821	0.506 U		
Cl4(63)	0.428	0.504 U		
Cl4(64)	1.87	0.506 U		
Cl4(66)	3.06	16.1	12.85	101
Cl4(67)	0.831	0.506 U		
Cl4(70)	2.55	15.6	12.85	102
Cl4(71)	0.946	0.504 U		
Cl4(74)	2.02	15.2	12.85	103
Cl4(75)	0.264 U	0.506 U		
Cl4(77)	0.514	12.5	12.85	93
Cl4(80)	0.264 U	0.506 U		
Cl4(81)	0.263 U	12.6	12.60	100
Cl5(82)	0.476	0.504 U		
Cl5(83)	0.743	14.0	12.85	103
Cl5(84)	1.11	0.506 U		
Cl5(85)	0.855	0.504 U		
Cl5(87)	1.21	14.0	12.85	100
Cl5(91)	1.45	0.506 U		
Cl5(92)	1.16	0.506 U		
Cl5(95)	3.52	0.504 U		
Cl5(97)	1.73	0.506 U		
Cl5(99)	3.16	15.0	12.85	92
Cl5(100)	0.264 U	0.506 U		
Cl5(101)	4.92	17.6	12.85	99

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The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-79-10-20				
Battelle ID	L0316MSD-P				
Sample Type	MSD				
Collection Date	12/12/2014				
Extraction Date	03/06/2015				
Analysis Date	03/12/2015				
Analytical Instrument	MS				
% Moisture	0.80				
% Lipid	NA				
Matrix	SEDIMENT				
Sample Size	4.94				
Size Unit-Basis	G_DRY				
Units	UG/KG_DRY	Target	% REC	Qual	RPD Qual

CI4(46)	0.508 U			
CI4(47)	0.506 U			
CI4(48)	0.506 U			
CI4(49)	18.5	12.65	103	4.7
CI4(50)	0.508 U			
CI4(51)	0.508 U			
CI4(52)	18.8	12.90	94	6.2
CI4(53)	0.508 U			
CI4(54)	10.8	12.90	83	4.9
CI4(56)	0.508 U			
CI4(60)	0.508 U			
CI4(63)	0.506 U			
CI4(64)	0.508 U			
CI4(66)	16.0	12.90	100	1.0
CI4(67)	0.508 U			
CI4(70)	15.5	12.90	100	2.0
CI4(71)	0.506 U			
CI4(74)	15.2	12.90	102	1.0
CI4(75)	0.508 U			
CI4(77)	12.8	12.90	95	2.1
CI4(80)	0.508 U			
CI4(81)	12.6	12.65	100	0.0
CI5(82)	0.506 U			
CI5(83)	13.8	12.90	101	2.0
CI5(84)	0.508 U			
CI5(85)	0.506 U			
CI5(87)	14.0	12.90	99	1.0
CI5(91)	0.508 U			
CI5(92)	0.508 U			
CI5(95)	0.506 U			
CI5(97)	0.508 U			
CI5(99)	14.5	12.90	88	4.4
CI5(100)	0.508 U			
CI5(101)	17.4	12.90	97	2.0

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

3/27/2015

S15-0072MS-Master_3



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-79-10-20	S-14D-2014-35-79-10-20			
Battelle ID	L0316-P	L0316MS-P			
Sample Type	SA	MS			
Collection Date	12/12/2014	12/12/2014			
Extraction Date	03/06/2015	03/06/2015			
Analysis Date	03/12/2015	03/12/2015			
Analytical Instrument	MS	MS			
% Moisture	0.00	0.00			
% Lipid	NA	NA			
Matrix	SEDIMENT	SEDIMENT			
Sample Size	10.02	4.96			
Size Unit-Basis	G_DRY	G_DRY			
Units	UG/KG_DRY	UG/KG_DRY	Target	% REC	Qual

CI5(104)	0.263 U	11.8	12.85	92
CI5(105)	1.67	15.2	12.85	105
CI5(110)	5.95	18.6	12.85	98
CI5(114)	0.263 U	12.4	12.85	96
CI5(115)	0.264 U	0.506 U		
CI5(118)	4.50	16.9	12.85	96
CI5(123)	0.556	13.2	12.85	98
CI5(124)	0.264 U	0.506 U		
CI5(125)	0.263 U	0.504 U		
CI5(126)	0.264 U	14.8	12.85	115
CI5(127)	0.263 U	0.504 U		
CI6(128)	1.16	14.2	12.85	101
CI6(130)	0.364	0.504 U		
CI6(131)	0.264 U	0.506 U		
CI6(134)	0.367	0.506 U		
CI6(135)	0.546	0.506 U		
CI6(136)	0.449	0.504 U		
CI6(137)	0.382	0.506 U		
CI6(138)	2.90	14.2	12.85	88
CI6(139)	0.264 U	0.506 U		
CI6(140)	0.264 U	0.506 U		
CI6(141)	0.647	0.506 U		
CI6(144)	0.250 J	0.504 U		
CI6(146)	0.754	0.504 U		
CI6(149)	3.18	15.7	12.85	97
CI6(151)	0.548	12.8	12.85	95
CI6(153)	4.47	16.9	12.85	97
CI6(154)	0.263 U	0.504 U		
CI6(155)	0.264 U	13.2	12.85	103
CI6(156)	0.681	14.5	12.85	108
CI6(157)	0.264 U	13.4	12.60	106
CI6(158)	0.631	12.5	12.60	94
CI6(163)	0.833	0.504 U		
CI6(164)	0.407	0.504 U		

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

3/27/2015

S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-79-10-20
Battelle ID	L0316MSD-P
Sample Type	MSD
Collection Date	12/12/2014
Extraction Date	03/06/2015
Analysis Date	03/12/2015
Analytical Instrument	MS
% Moisture	0.80
% Lipid	NA
Matrix	SEDIMENT
Sample Size	4.94
Size Unit-Basis	G_DRY
Units	UG/KG_DRY

	Target	% REC	Qual	RPD	Qual
--	--------	-------	------	-----	------

CI5(104)	12.0	12.90	93	1.1	
CI5(105)	14.8	12.90	102	2.9	
CI5(110)	17.9	12.90	93	5.2	
CI5(114)	12.4	12.90	96	0.0	
CI5(115)	0.508 U				
CI5(118)	16.7	12.90	95	1.0	
CI5(123)	13.3	12.90	99	1.0	
CI5(124)	0.508 U				
CI5(125)	0.506 U				
CI5(126)	15.3	12.90	119	3.4	
CI5(127)	0.506 U				
CI6(128)	14.3	12.90	102	1.0	
CI6(130)	0.506 U				
CI6(131)	0.508 U				
CI6(134)	0.508 U				
CI6(135)	0.508 U				
CI6(136)	0.506 U				
CI6(137)	0.508 U				
CI6(138)	14.6	12.90	91	3.4	
CI6(139)	0.508 U				
CI6(140)	0.508 U				
CI6(141)	0.508 U				
CI6(144)	0.506 U				
CI6(146)	0.506 U				
CI6(149)	15.0	12.90	92	5.3	
CI6(151)	12.8	12.90	95	0.0	
CI6(153)	16.3	12.90	92	5.3	
CI6(154)	0.506 U				
CI6(155)	13.6	12.90	105	1.9	
CI6(156)	14.6	12.90	108	0.0	
CI6(157)	13.6	12.65	108	1.9	
CI6(158)	13.1	12.65	99	5.2	
CI6(163)	0.506 U				
CI6(164)	0.506 U				

Analyzed By Restucci Jr, Richard

3/27/2015

Not Surrogate Corrected

S15-0072MS-Master_3



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-79-10-20	S-14D-2014-35-79-10-20			
Battelle ID	L0316-P	L0316MS-P			
Sample Type	SA	MS			
Collection Date	12/12/2014	12/12/2014			
Extraction Date	03/06/2015	03/06/2015			
Analysis Date	03/12/2015	03/12/2015			
Analytical Instrument	MS	MS			
% Moisture	0.00	0.00			
% Lipid	NA	NA			
Matrix	SEDIMENT	SEDIMENT			
Sample Size	10.02	4.96			
Size Unit-Basis	G_DRY	G_DRY			
Units	UG/KG_DRY	UG/KG_DRY	Target	% REC	Qual

Cl6(166)	0.264 U	0.506 U			
Cl6(167)	0.518	13.5	12.85	101	
Cl6(169)	0.264 U	14.9	12.85	116	
Cl7(170)	0.673	15.6	12.85	116	
Cl7(171)	0.264 U	0.506 U			
Cl7(172)	0.263 U	0.504 U			
Cl7(173)	0.264 U	0.506 U			
Cl7(174)	0.433	0.504 U			
Cl7(175)	0.264 U	0.506 U			
Cl7(176)	0.263 U	0.504 U			
Cl7(177)	0.417	13.4	12.85	101	
Cl7(178)	0.264 U	0.506 U			
Cl7(179)	0.264 U	0.506 U			
Cl7(180)	0.833	13.0	12.85	95	
Cl7(183)	0.377	13.9	12.85	105	
Cl7(184)	0.263 U	0.504 U			
Cl7(185)	0.263 U	0.504 U			
Cl7(187)	0.569	12.4	12.85	92	
Cl7(188)	0.264 U	11.9	12.85	93	
Cl7(189)	0.263 U	15.2	12.85	118	
Cl7(190)	0.264 U	0.506 U			
Cl7(191)	0.264 U	0.506 U			
Cl7(193)	0.264 U	0.506 U			
Cl8(194)	0.263 U	15.3	12.85	119	
Cl8(195)	0.263 U	12.6	12.85	98	
Cl8(197)	0.263 U	0.504 U			
Cl8(198)	0.264 U	0.506 U			
Cl8(199)	0.263 U	0.504 U			
Cl8(200)	0.263 U	0.504 U			
Cl8(201)	0.263 U	12.3	12.60	98	
Cl8(202)	0.275	12.0	12.85	91	
Cl8(203)	0.263 U	13.2	12.85	103	
Cl8(205)	0.263 U	14.3	12.85	111	
Cl9(206)	0.263 U	15.7	12.85	122 N	

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

3/27/2015

S15-0072MS-Master_315:FINAL



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-79-10-20
Battelle ID	L0316MSD-P
Sample Type	MSD
Collection Date	12/12/2014
Extraction Date	03/06/2015
Analysis Date	03/12/2015
Analytical Instrument	MS
% Moisture	0.80
% Lipid	NA
Matrix	SEDIMENT
Sample Size	4.94
Size Unit-Basis	G_DRY
Units	UG/KG_DRY

Target	% REC	Qual	RPD	Qual
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Cl6(166)	0.508 U			
Cl6(167)	13.9	12.90	104	2.9
Cl6(169)	15.1	12.90	117	0.9
Cl7(170)	16.1	12.90	120	3.4
Cl7(171)	0.508 U			
Cl7(172)	0.506 U			
Cl7(173)	0.508 U			
Cl7(174)	0.506 U			
Cl7(175)	0.508 U			
Cl7(176)	0.506 U			
Cl7(177)	13.6	12.90	102	1.0
Cl7(178)	0.508 U			
Cl7(179)	0.508 U			
Cl7(180)	13.3	12.90	97	2.1
Cl7(183)	14.4	12.90	109	3.7
Cl7(184)	0.506 U			
Cl7(185)	0.506 U			
Cl7(187)	12.8	12.90	95	3.2
Cl7(188)	12.0	12.90	93	0.0
Cl7(189)	15.4	12.90	119	0.8
Cl7(190)	0.508 U			
Cl7(191)	0.508 U			
Cl7(193)	0.508 U			
Cl8(194)	15.2	12.90	118	0.8
Cl8(195)	12.9	12.90	100	2.0
Cl8(197)	0.506 U			
Cl8(198)	0.508 U			
Cl8(199)	0.506 U			
Cl8(200)	0.506 U			
Cl8(201)	12.5	12.65	99	1.0
Cl8(202)	12.4	12.90	94	3.2
Cl8(203)	13.6	12.90	105	1.9
Cl8(205)	15.2	12.90	118	6.1
Cl9(206)	16.3	12.90	126 N	3.2

Analyzed By Restucci Jr, Richard

Not Surrogate Corrected

3/27/2015

S15-0072MS-Master_3

Battelle

The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID	S-14D-2014-35-79-10-20	S-14D-2014-35-79-10-20		
Battelle ID	L0316-P	L0316MS-P		
Sample Type	SA	MS		
Collection Date	12/12/2014	12/12/2014		
Extraction Date	03/06/2015	03/06/2015		
Analysis Date	03/12/2015	03/12/2015		
Analytical Instrument	MS	MS		
% Moisture	0.00	0.00		
% Lipid	NA	NA		
Matrix	SEDIMENT	SEDIMENT		
Sample Size	10.02	4.96		
Size Unit-Basis	G_DRY	G_DRY		
Units	UG/KG_DRY	UG/KG_DRY	Target	% REC Qual

Cl9(207)	0.263 U	0.504 U		
Cl9(208)	0.264 U	14.2	12.85	111
Cl10(209)	0.263 U	13.7	13.10	105
LOC 1	0.192	20.6	25.71	79
LOC 2	6.31	35.2	38.05	76
LOC 3	28.4	73.4	64.26	70
LOC 4	35.1	137	115.17	88
LOC 5	33.0	164	141.38	93
LOC 6	19.1	156	140.88	97
LOC 7	3.30	95.4	86.19	107
LOC 8	0.275	79.7	76.86	103
LOC 9	U	29.9	25.71	116
LOC 10	U	13.7	13.10	105

Surrogate Recoveries (%)

Cl3(34)	88	87
Cl6(152)	88	89



The Business of Innovation

Project Client: USACE/NAE
Project Name: USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
Project Number: 100043429

Client ID S-14D-2014-35-79-10-20
Battelle ID L0316MSD-P
Sample Type MSD
Collection Date 12/12/2014
Extraction Date 03/06/2015
Analysis Date 03/12/2015
Analytical Instrument MS
% Moisture 0.80
% Lipid NA
Matrix SEDIMENT
Sample Size 4.94
Size Unit-Basis G_DRY
Units UG/KG_DRY

Target % REC Qual RPD Qual

Cl9(207)	0.506 U				
Cl9(208)	14.6	12.90	113	1.8	
Cl10(209)	14.1	13.16	107	1.9	
LOC 1	21.7	25.81	83	4.9	
LOC 2	34.3	38.21	73	4.0	
LOC 3	73.2	64.52	69	1.4	
LOC 4	136	115.64	87	1.1	
LOC 5	162	141.95	91	2.2	
LOC 6	157	141.45	97	0.0	
LOC 7	97.6	86.54	109	1.9	
LOC 8	81.8	77.18	106	2.9	
LOC 9	30.9	25.81	120	3.4	
LOC 10	14.1	13.16	107	1.9	

Surrogate Recoveries (%)

Cl3(34)	90
Cl6(152)	89

Glossary of Data Qualifiers

Flag: Application:

B	Analyte concentration found in the sample at a concentration <5x the level found in the procedural blank.
D	Dilution Run. Initial run outside linear range of instrument.
E	Estimate, result is greater than the highest concentration level in the calibration.
H	Surrogate diluted out. Used when surrogate recovery is affected by excessive dilution of the sample extract.
J	Analyte detected below the sample-specific Reporting Limit (RL).
m	Confirmation column manually over-ridden by analyst, dual column quantitative analysis only.
ME	Significant Matrix Interference - Estimated value.
MI	Significant Matrix Interference - value could not be determined or estimated.
n	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO), but meets the contingency criteria.
N	Quality Control (QC) value is outside the accuracy or precision Data Quality Objective (DQO)
NA	Not applicable
p	Dual column value exceeds RPD criteria, dual column quantitative analysis only.
T	Holding Time (HT) exceeded.
U	Analyte not detected at 3:1 signal:noise ratio.

QA/QC Summary Batch 15-0072

Project:	USACE/NAE – New Bedford Harbor - Lower Harbor Round 3
Parameters:	PCBs
Laboratory:	Battelle, Norwell, MA
Matrix:	Sediment
Data Set:	DP-15-0093
Analytical SOP:	5-315
Method Reference:	EPA Method 8270D modified; EPA Method 1668A

Sample Custody

Collection Date	Receipt Date	Temp (°C)
11/17-25/2014 (Intertidal)	11/25/2014	-20
7/25-8/1/2014	8/1/2014	1
12/10-12/2014	12/15/2014	-20
12/12-17/2014	12/17/2014	1, -20
12/17-19/2014	12/22/2014	-20

Corrective Actions	One corrective action associated with shipment received 11/25/2014. The COC forms showed a set of duplicates that weren't delivered. Resolved immediately with field team. Several corrective actions associated with shipment received on 8/1/2014. All issues resolved. See custody information in full data package for details.
Sample Storage	The sediment samples were stored frozen until extraction.
Related samples	NA
Comment	Three samples in this batch are from the New Bedford Harbor Intertidal Pilot Project, including L0122, L0125, and L0133. They will be reported separately. The raw data will remain in this data package.

METHOD SUMMARIES

Sample Preparation	Prior to sediment extraction, an aliquot of > 30 g wet sediment was placed on clean, labeled aluminum foil, loosely covered, and placed in a laboratory laminar flow hood to dry the sample to <50% moisture. Aliquots of these dried samples were weighed into sample extraction vessels for sample extraction. The immunoassay data was consulted to assist in determining the mass of sediment extracted for each sample. Between two and 10 grams of sediment was weighed out for extraction. The sediment was spiked with surrogates, extracted three times with methylene chloride, and the extracts combined, dried over anhydrous sodium sulfate, and concentrated. The concentrated extract was processed through Florisil to isolate the PCBs, followed by activated copper treatment to remove sulfur. The cleaned extract was concentrated and fortified with internal standard (IS) compounds prior to analysis by GC/MS. NOTE: Sample L0257 has been removed from this reporting batch due to severe matrix interference. It will be reported in a later submittal.
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QA/QC Summary

Batch 15-0072

Prep Comments	- Samples were poured through a funnel with glass wool and sodium sulfate due to heavy particulate matter to prevent interference during concentration and florisil cleanup. - L0257 - Due to matrix interference, sample was submitted back to prep for additional cleanup. NOTE: this sample was removed from this batch and is being re-processed. - L0266 – sample consisted of shells and rocks - L0357 – sample consisted of lard hard clumps - L0403 – sample contained many shells
---------------	--

Analysis	PCBs were analyzed by gas chromatography mass spectroscopy (GC/MS). An initial calibration consisting of target analytes was analyzed prior to sample analysis to demonstrate the linear range. Calibration verification was performed at the beginning and end of each 24-hr period in which samples were analyzed. Concentrations of target compounds were calculated versus internal standards using the average response factors (RF) generated from the initial calibration.
Analysis Comments	- CI5(84) and CI5(92) co-elute, as do CI5(85) and CI5(115) however, historical data has reported these as two separate peaks. These peaks are integrated as two separate peaks in all ICAL, ICC, CCV, and field samples to comply with the reporting criteria of the historical data. - Matrix interference in the original, undiluted fractions of L0208, L0473, and L0477 necessitated reporting all data from dilution. - Sample L0257 exhibits matrix interference which obscures analyte identification. That sample was cleaned using several different methods and re-analyzed with no improvement. This sample will be re-extracted using a smaller sample mass, and reported with a later batch. - Several samples exhibit IS areas higher than the acceptable range. As these areas are high, all SIS percent recoveries pass, and analyte concentrations in affected samples are comparable to those in samples where the IS pass criteria, the samples were not rerun.

Holding Times	Extraction Date(s)	Analysis Date(s)
	3/6/2015	3/11-12/2015; 3/13-16/2015; 3/18-19/2015

Procedural Blank (PB)	A PB was prepared with this analytical batch to ensure the sample extraction and analysis methods are free of contamination.
Blank value <SSRL	No exceedences noted.
Samples >5X PB	No comments.

QA/QC Summary Batch 15-0072

Laboratory Control Spike (LCS)/ Laboratory Control Spike Duplicate (LCSD)	A LCS/LCSD pair was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. The relative percent difference (RPD) was calculated to measure data quality in terms of precision.
40-120% recovery <30% RPD	Two exceedances noted. PCB 206 was over-recovered in both the LCS (123%) and LCSD (125%). Because this is an over-recovery and it represents a negligible portion of the total PCB in the samples, the extracts were not re-analyzed.
Matrix Spike (MS)/Matrix Spike Duplicate (MSD)	A MS/MSD pair was prepared with this analytical batch. The percent recoveries of target analytes were calculated to measure accuracy. The relative percent difference (RPD) was calculated to measure data quality in terms of precision.
40-120% recovery <30% RPD Spike must be >5x bkgd conc.	Two primary exceedances noted. PCB 206 was over-recovered in both the MS (122%) and MSD (126%). Because this is an over-recovery and it represents a negligible portion of the total PCB in the samples, the extracts were not re-analyzed.
Surrogate Recovery	Surrogate compounds were added prior to extraction. The surrogate recoveries are calculated to measure extraction efficiency.
40-120% recovery	No exceedances noted. No comments.
Initial Calibration (ICAL)	The GC/MS was calibrated with six-level quadratic calibration curve for all compounds using an instrument response factor (RF).
$R^2 \geq 0.995$	No exceedances noted. No comments.
Independent Calibration Check (ICC)	The independent check was run after each initial calibration to verify the calibration. This standard is from a different source than the ICAL.
$\leq 25\%$ difference individual and mean	No exceedances noted. No comments.
Continuing Calibration Verification (CCV)	Continuing calibration standards were run every 24 hours to ensure that initial calibration is still valid.
$\leq 25\%$ difference individual; $\leq 15\%$ difference mean	Two exceedances noted. PCB 189 is over-recovered in one CCV and PCB 206 is over-recovered in another CCV. Because the analytes are over-recovered and they represent a negligible portion of the total PCB, the samples bracketed by these CCVs were not re-analyzed.



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Report Project Data Set MQOs

Project Title: USACE/NAE New Bedford Harbor Task

Data Set Number: DP-15-0093

Project Number: 100043429

Prep Batch Number: 15-0072

Test Code (Matrix Type): Master_315(S)

QC_PARAMETER:	Exceed:	Contg.:	JUSTIFICATION:
Procedural Blank	0	0	None
PB Measurement Quality Objective	0	0	None
Laboratory Control Sample	2	0	PCB 206 fails high in the LCS/LCSD. As the analyte fails high, and represents a negligible portion of the total PCB, the samples weren't re-run. RR 03/17/2015
Matrix Spike Recovery	2	0	PCB 206 fails high in theMS/MSD. As the analyte fails high, and represents a negligible portion of the total PCB, the samples weren't re-run. RR 03/17/2015
Matrix Spike/Spike Duplicate Precision	0	0	None
Standard Reference Material Accuracy	NA	NA	NA
Analytical Duplicate Precision	NA	NA	NA
Analytical Triplicate Precision	NA	NA	NA
Surrogate Compound Recovery	0	0	None
Control Oil	NA	NA	NA
Instrument Calibration	0	0	None
Independent Calibration Check Solution	0	0	None
Continuing Calibration Verification	2	0	PCBs 189 and 206 fails high in one CCV each. As these analytes fail high, and represent a negligible portion of the total PCB, the brackets weren't re-run. RR 03/17/2015

BATTELLE - DUXBURY OPERATIONS MISCELLANEOUS DOCUMENTATION FORM

Project Title:	USACE/NAE New Bedford Harbor Task	Data Set Number:	DP-15-0093
Project Number:	100043429	Prep Batch Number:	15-0072
Entered By:	Richard Restucci Jr	Entered On:	03/17/2015
Test Code (Matrix Type):	Master_315(S)		

Method MF0785 is a 6pt Q method used to quant all samples.
 Method MF0787 is a 6pt Q method used to quant two dilutions.
 RR 3/17/15

CI5(84) and CI5(92) co-elute, as do CI5(85) and CI5(115) however, historical data has reported these as two separate peaks. These peaks are integrated as two separate peaks in all ICAL, ICC, CCV, and field samples to comply with the reporting criteria of the historical data.
 RR 3/17/15

Matrix interference in the original, undiluted fractions of L0208, L0473, and L0477 necessitated reporting all data from dilution.
 RR 3/17/15

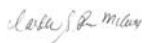
Sample L0257 exhibits matrix interference which obscures analyte identification. Tha sample was cleaned using several different methods and re-analyzed to no avail. This sample will be re-extracted using a smaller sample mass, and reported with a later batch.
 RR 3/25/15

Several samples exhibit IS areas higher than the acceptable range. As these areas are high, all SIS percent recoveries pass, and analyte concentrations in affected samples are comparable to those in samples where the IS pass criteria, the samples were not re-run.
 RR 3/25/15

Task Leader Approval:  Kevin McInerney
 2015.03.25 11:28:02 -04'00'

Supervisor Approval:

PM Approval:



Carole McCarthy
 2015.03.25 11:52:32 -04'00'



The Business of Innovation

Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 15-0072

METHOD: MF0785.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:
SF0785.S	F9320.D	ID13	CS	CI5(96)	38278
SF0785.S	F9322.D	ID15	CS	CI5(96)	35661
SF0785.S	F9323.D	ID16	CS	CI5(96)	36145
SF0785.S	F9324.D	ID17	CS	CI5(96)	40419
SF0785.S	F9325.D	ID18	CS	CI5(96)	38312
SF0785.S	F9327.D	ID20	CS	CI5(96)	49397

L3 36145

(+) 72290

(-) 18073

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SF0785.S	F9328.D	ID21 ICC	ICC	CI5(96)	44451	
SF0785.S	F9329.D	CF064PB-P(0)	PB	CI5(96)	44511	
SF0785.S	F9330.D	CF065LCS-P(0)	LCS	CI5(96)	42162	
SF0785.S	F9331.D	CF066LCSD-P(0)	LCSD	CI5(96)	43992	
SF0785.S	F9332.D	L0122-P(2)	SA	CI5(96)	44172	
SF0785.S	F9333.D	L0125-P(2)	SA	CI5(96)	60131	
SF0785.S	F9334.D	L0133-P(2)	SA	CI5(96)	50623	
SF0785.S	F9336.D	L0239-P(2)	SA	CI5(96)	44991	
SF0785.S	F9337.D	ID17	CCV	CI5(96)	51762	
SF0785.S	F9338.D	L0246-P(2)	SA	CI5(96)	45888	
SF0785.S	F9340.D	L0266-P(2)	SA	CI5(96)	63821	
SF0785.S	F9341.D	L0316-P(2)	SA	CI5(96)	57983	
SF0785.S	F9342.D	L0316MS-P(0)	MS	CI5(96)	53140	
SF0785.S	F9343.D	L0316MSD-P(0)	MSD	CI5(96)	55133	
SF0785.S	F9344.D	L0357-P(2)	SA	CI5(96)	69947	
SF0785.S	F9345.D	L0403-P(2)	SA	CI5(96)	61436	
SF0785.S	F9346.D	ID18	CCV	CI5(96)	70780	
SF0786.S	F9357.D	ID17	CCV	CI5(96)	69992	
SF0786.S	F9358.D	L0406-P(2)	SA	CI5(96)	62840	
SF0786.S	F9359.D	L0406-P-D(4)	SA	CI5(96)	59146	
SF0786.S	F9360.D	L0443-P(2)	SA	CI5(96)	70999	
SF0786.S	F9361.D	L0443-P-D(4)	SA	CI5(96)	61417	
SF0786.S	F9363.D	L0473-P-D(4)	SA	CI5(96)	53545	
SF0786.S	F9365.D	L0477-P-D(4)	SA	CI5(96)	51974	
SF0786.S	F9366.D	ID18	CCV	CI5(96)	74721	>
SF0786.S	F9375.D	ID18	CCV	CI5(96)	73775	>
SF0786.S	F9377.D	L0504-P(2)	SA	CI5(96)	87030	>
SF0786.S	F9378.D	L0504-P-D(4)	SA	CI5(96)	84772	>
SF0786.S	F9379.D	L0528-P(2)	SA	CI5(96)	58456	
SF0786.S	F9380.D	L0528-P-D(4)	SA	CI5(96)	55686	
SF0786.S	F9381.D	L0531-P(2)	SA	CI5(96)	76123	>
SF0786.S	F9382.D	L0531-P-D(4)	SA	CI5(96)	62884	



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Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 15-0072

METHOD: MF0785.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SF0786.S	F9383.D	L0534-P(2)	SA	CI5(96)	67731	
SF0786.S	F9384.D	L0534-P-D(4)	SA	CI5(96)	70036	
SF0786.S	F9386.D	ID17	CCV	CI5(96)	93754	>
SF0786.S	F9387.D	M5096-P(2)	SA	CI5(96)	67307	
SF0786.S	F9388.D	M5096-P-D(4)	SA	CI5(96)	63549	
SF0786.S	F9389.D	L0122-P-D(4)	SA	CI5(96)	68022	
SF0786.S	F9390.D	L0125-P-D(4)	SA	CI5(96)	67615	
SF0786.S	F9391.D	L0133-P-D(4)	SA	CI5(96)	67362	
SF0786.S	F9392.D	L0208-P-D(4)	SA	CI5(96)	65180	
SF0786.S	F9393.D	L0239-P-D(4)	SA	CI5(96)	62195	
SF0786.S	F9394.D	L0246-P-D(4)	SA	CI5(96)	65606	
SF0786.S	F9395.D	ID18	CCV	CI5(96)	215179	>
SF0786.S	F9397.D	L0266-P-D(4)	SA	CI5(96)	66447	
SF0786.S	F9399.D	L0357-P-D(4)	SA	CI5(96)	64466	
SF0786.S	F9400.D	L0403-P-D(4)	SA	CI5(96)	74246	>
SF0786.S	F9401A.D	L0125-P-D(5)	SA	CI5(96)	81685	>
SF0786.S	F9402.D	L0208-P-D(5)	SA	CI5(96)	81791	>
SF0786.S	F9404.D	ID17	CCV	CI5(96)	92376	>



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PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 15-0072

METHOD: MF0785.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:
SF0785.S	F9320.D	ID13	CS	Cl6(161)	26300
SF0785.S	F9322.D	ID15	CS	Cl6(161)	24678
SF0785.S	F9323.D	ID16	CS	Cl6(161)	25785
SF0785.S	F9324.D	ID17	CS	Cl6(161)	29349
SF0785.S	F9325.D	ID18	CS	Cl6(161)	28711
SF0785.S	F9327.D	ID20	CS	Cl6(161)	37997

L3 25785

(+) 51570

(-) 12893

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SF0785.S	F9328.D	ID21 ICC	ICC	Cl6(161)	33410	
SF0785.S	F9329.D	CF064PB-P(0)	PB	Cl6(161)	37518	
SF0785.S	F9330.D	CF065LCS-P(0)	LCS	Cl6(161)	34842	
SF0785.S	F9331.D	CF066LCSD-P(0)	LCSD	Cl6(161)	36964	
SF0785.S	F9332.D	L0122-P(2)	SA	Cl6(161)	34664	
SF0785.S	F9333.D	L0125-P(2)	SA	Cl6(161)	38686	
SF0785.S	F9334.D	L0133-P(2)	SA	Cl6(161)	37319	
SF0785.S	F9336.D	L0239-P(2)	SA	Cl6(161)	46653	
SF0785.S	F9337.D	ID17	CCV	Cl6(161)	42593	
SF0785.S	F9338.D	L0246-P(2)	SA	Cl6(161)	40811	
SF0785.S	F9340.D	L0266-P(2)	SA	Cl6(161)	52157	>
SF0785.S	F9341.D	L0316-P(2)	SA	Cl6(161)	49459	
SF0785.S	F9342.D	L0316MS-P(0)	MS	Cl6(161)	45990	
SF0785.S	F9343.D	L0316MSD-P(0)	MSD	Cl6(161)	48429	
SF0785.S	F9344.D	L0357-P(2)	SA	Cl6(161)	40303	
SF0785.S	F9345.D	L0403-P(2)	SA	Cl6(161)	48267	
SF0785.S	F9346.D	ID18	CCV	Cl6(161)	57584	>
SF0786.S	F9357.D	ID17	CCV	Cl6(161)	59151	>
SF0786.S	F9358.D	L0406-P(2)	SA	Cl6(161)	49905	
SF0786.S	F9359.D	L0406-P-D(4)	SA	Cl6(161)	48647	
SF0786.S	F9360.D	L0443-P(2)	SA	Cl6(161)	47237	
SF0786.S	F9361.D	L0443-P-D(4)	SA	Cl6(161)	51843	>
SF0786.S	F9363.D	L0473-P-D(4)	SA	Cl6(161)	46153	
SF0786.S	F9365.D	L0477-P-D(4)	SA	Cl6(161)	45502	
SF0786.S	F9366.D	ID18	CCV	Cl6(161)	62730	>
SF0786.S	F9375.D	ID18	CCV	Cl6(161)	59451	>
SF0786.S	F9377.D	L0504-P(2)	SA	Cl6(161)	63903	>
SF0786.S	F9378.D	L0504-P-D(4)	SA	Cl6(161)	66941	>
SF0786.S	F9379.D	L0528-P(2)	SA	Cl6(161)	42490	
SF0786.S	F9380.D	L0528-P-D(4)	SA	Cl6(161)	47737	
SF0786.S	F9381.D	L0531-P(2)	SA	Cl6(161)	47554	
SF0786.S	F9382.D	L0531-P-D(4)	SA	Cl6(161)	52356	>



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Internal Standard Area Report

PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 15-0072

METHOD: MF0785.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:	FLAG:
SF0786.S	F9383.D	L0534-P(2)	SA	Cl6(161)	51603	>
SF0786.S	F9384.D	L0534-P-D(4)	SA	Cl6(161)	56200	>
SF0786.S	F9386.D	ID17	CCV	Cl6(161)	78318	>
SF0786.S	F9387.D	M5096-P(2)	SA	Cl6(161)	58083	>
SF0786.S	F9388.D	M5096-P-D(4)	SA	Cl6(161)	53377	>
SF0786.S	F9389.D	L0122-P-D(4)	SA	Cl6(161)	55699	>
SF0786.S	F9390.D	L0125-P-D(4)	SA	Cl6(161)	53879	>
SF0786.S	F9391.D	L0133-P-D(4)	SA	Cl6(161)	54648	>
SF0786.S	F9392.D	L0208-P-D(4)	SA	Cl6(161)	48638	
SF0786.S	F9393.D	L0239-P-D(4)	SA	Cl6(161)	51711	>
SF0786.S	F9394.D	L0246-P-D(4)	SA	Cl6(161)	56482	>
SF0786.S	F9395.D	ID18	CCV	Cl6(161)	176801	>
SF0786.S	F9397.D	L0266-P-D(4)	SA	Cl6(161)	53513	>
SF0786.S	F9399.D	L0357-P-D(4)	SA	Cl6(161)	53208	>
SF0786.S	F9400.D	L0403-P-D(4)	SA	Cl6(161)	60526	>
SF0786.S	F9401A.D	L0125-P-D(5)	SA	Cl6(161)	66019	>
SF0786.S	F9402.D	L0208-P-D(5)	SA	Cl6(161)	68232	>
SF0786.S	F9404.D	ID17	CCV	Cl6(161)	79815	>



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PROJECT NAME: USACE/NAE New Bedford Harbor Task Order 10

PROJECT NO: 100043429

BATCH: 15-0072

METHOD: MF0787.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:
SF0787.S	F9408.D	ID13	CS	CI5(96)	108833
SF0787.S	F9410.D	ID15	CS	CI5(96)	112590
SF0787.S	F9411.D	ID16	CS	CI5(96)	112544
SF0787.S	F9413.D	ID18	CS	CI5(96)	119261
SF0787.S	F9414.D	ID19	CS	CI5(96)	113666
SF0787.S	F9415.D	ID20	CS	CI5(96)	124219
				L3	112544
				(+)	225088
				(-)	56272
SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA: FLAG:
SF0787.S	F9416.D	ID21 ICC	ICC	CI5(96)	119016
SF0787.S	F9436A.D	ID18	CCV	CI5(96)	112054
SF0787.S	F9439.D	L0531-P-D(5)	SA	CI5(96)	141806
SF0787.S	F9445.D	ID18	CCV	CI5(96)	171772
SF0787.S	F9457.D	ID18	CCV	CI5(96)	173253
SF0787.S	F9466.D	L0357-P-D(5)	SA	CI5(96)	118239
SF0787.S	F9467.D	ID19	CCV	CI5(96)	161553



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PROJECT NO: 100043429

BATCH: 15-0072

METHOD: MF0787.M

SIGNAL: 1

SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA:
SF0787.S	F9408.D	ID13	CS	Cl6(161)	87559
SF0787.S	F9410.D	ID15	CS	Cl6(161)	90762
SF0787.S	F9411.D	ID16	CS	Cl6(161)	94046
SF0787.S	F9413.D	ID18	CS	Cl6(161)	96714
SF0787.S	F9414.D	ID19	CS	Cl6(161)	90860
SF0787.S	F9415.D	ID20	CS	Cl6(161)	101802
				L3	94046
				(+)	188092
				(-)	47023
SEQUENCE:	FILE:	LEVEL:	TYPE:	PEAK:	AREA: FLAG:
SF0787.S	F9416.D	ID21 ICC	ICC	Cl6(161)	95374
SF0787.S	F9436A.D	ID18	CCV	Cl6(161)	93837
SF0787.S	F9439.D	L0531-P-D(5)	SA	Cl6(161)	123024
SF0787.S	F9445.D	ID18	CCV	Cl6(161)	148099
SF0787.S	F9457.D	ID18	CCV	Cl6(161)	141923
SF0787.S	F9466.D	L0357-P-D(5)	SA	Cl6(161)	85236
SF0787.S	F9467.D	ID19	CCV	Cl6(161)	126836

Data File : G:\F\DATA\SF0785\F9319.D

Vial: 2

Acq On : 11 Mar 2015 12:09 pm

Operator: RR

Sample : HZ32

Inst : Inst. F

Misc : 5-315 DFTPP

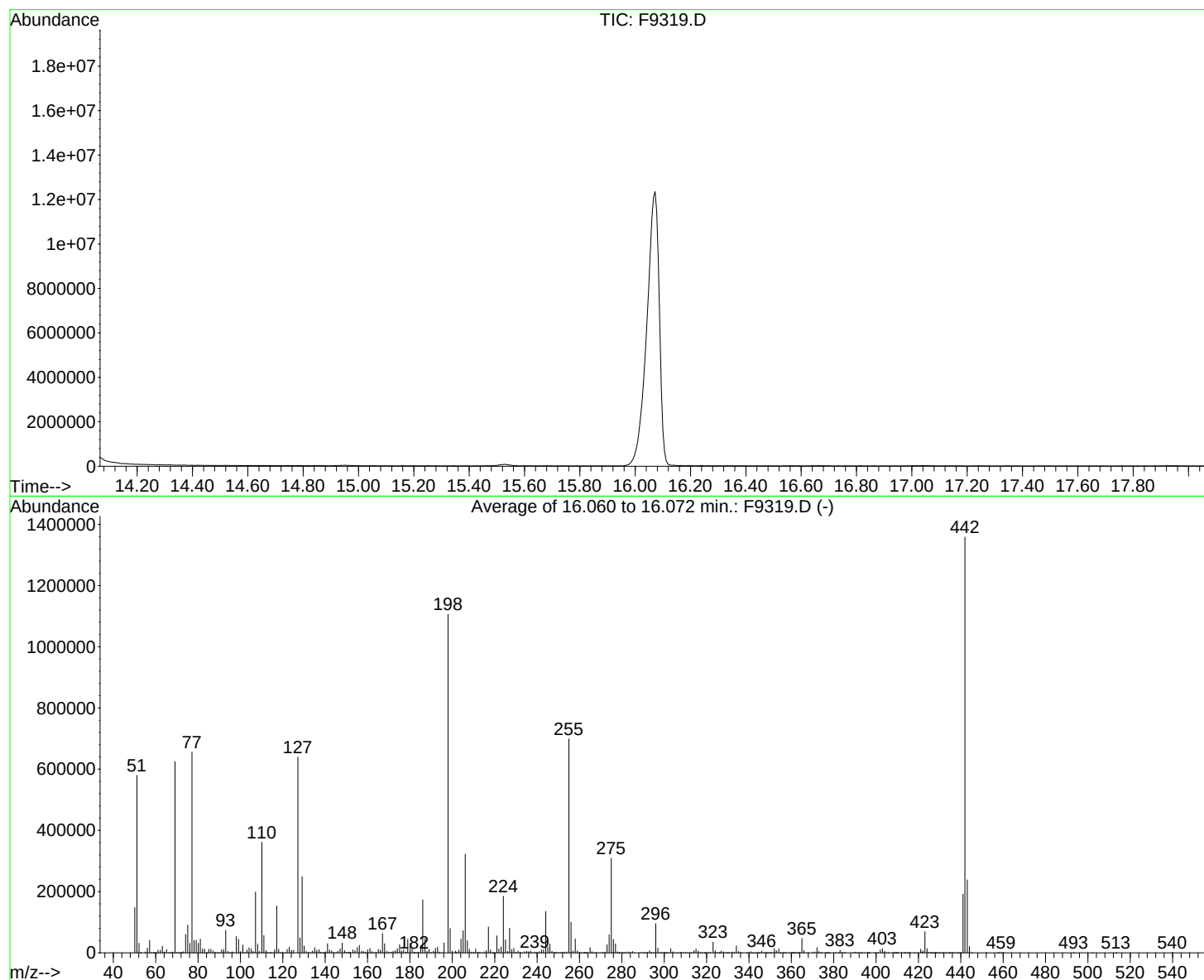
Multiplr: 1.00

MS Integration Params: rteint.p

Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Standard Mult: 1.000 ()



AutoFind: Scans 1921, 1922, 1923; Background Corrected with Scan 1899

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.4	579776	PASS
68	69	0.00	2	0.5	3207	PASS
70	69	0.00	2	0.3	2014	PASS
127	198	10	80	57.8	639253	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1105920	PASS
199	198	5	9	7.2	79541	PASS
275	198	10	60	27.9	308928	PASS
365	198	1	1000	4.3	47285	PASS
441	442	0.01	24	14.1	191808	PASS
442	198	50	1000	122.8	1358331	PASS
443	442	15	24	17.6	238506	PASS

Data File : G:\F\DATA\SF0786\F9356.D

Vial: 2

Acq On : 13 Mar 2015 11:50 am

Operator: LMG

Sample : HZ32

Inst : Inst. F

Misc : 5-315 DFTPP

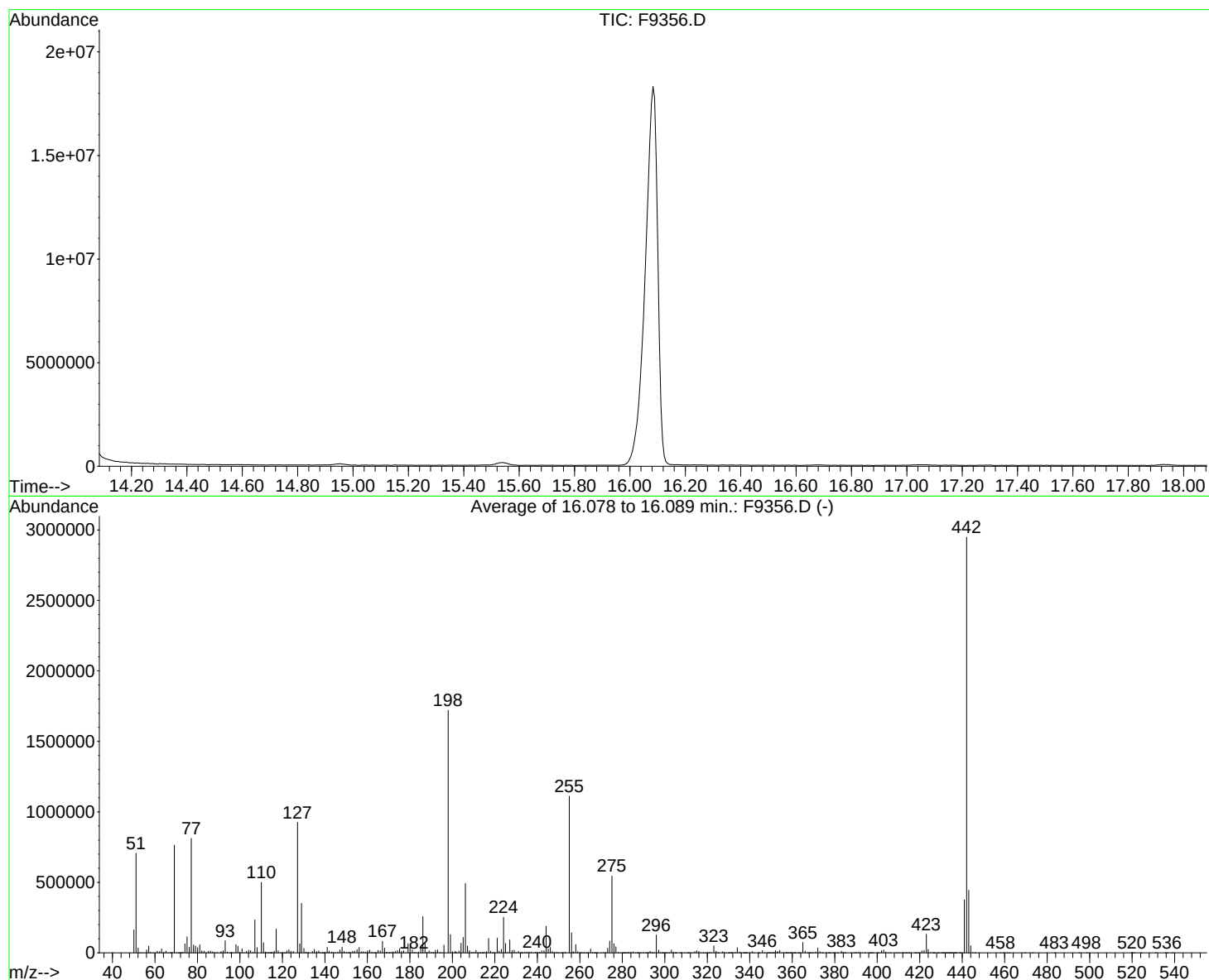
Multiplr: 1.00

MS Integration Params: rteint.p

Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Standard Mult: 1.000 ()

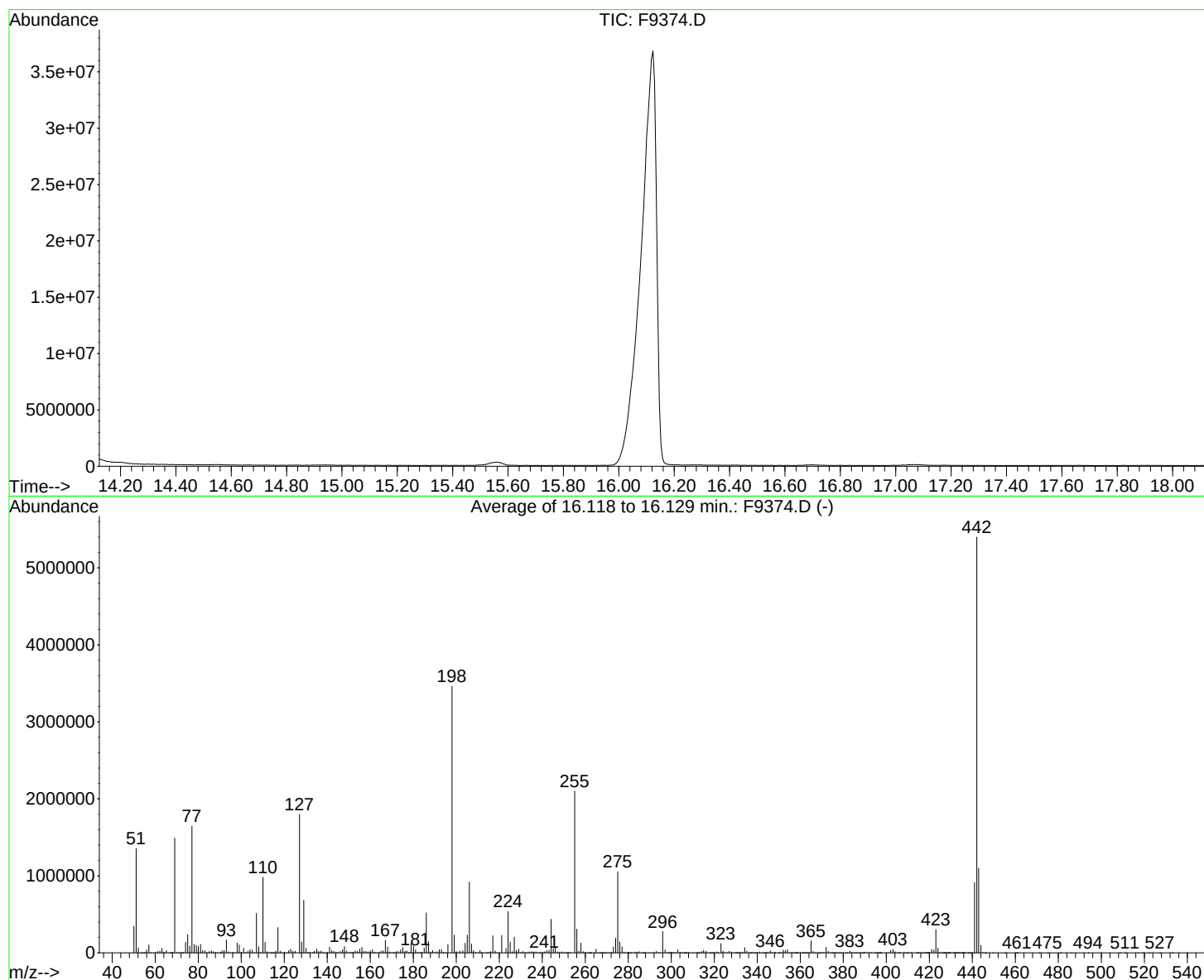


AutoFind: Scans 1924, 1925, 1926; Background Corrected with Scan 1899

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.1	706894	PASS
68	69	0.00	2	0.6	4431	PASS
70	69	0.00	2	0.3	2083	PASS
127	198	10	80	53.8	926336	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1720320	PASS
199	198	5	9	7.5	129472	PASS
275	198	10	60	31.7	545207	PASS
365	198	1	1000	4.3	74682	PASS
441	442	0.01	24	12.7	375936	PASS
442	198	50	1000	171.4	2949290	PASS
443	442	15	24	15.0	443434	PASS

Data File : G:\F\DATA\SF0786\F9374.D
Acq On : 15 Mar 2015 8:36 am
Sample : HZ32
Misc : 5-315 DFTPP
MS Integration Params: rteint.p
Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Standard Mult: 1.000 ()

Vial: 10
Operator: LMG
Inst : Inst. F
Multiplr: 1.00



AutoFind: Scans 1931, 1932, 1933; Background Corrected with Scan 1903

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.1	1354331	PASS
68	69	0.00	2	0.5	8005	PASS
70	69	0.00	2	0.5	7638	PASS
127	198	10	80	51.9	1798546	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	3462228	PASS
199	198	5	9	6.6	230016	PASS
275	198	10	60	30.4	1052857	PASS
365	198	1	1000	4.5	154858	PASS
441	442	0.01	24	16.9	912703	PASS
442	198	50	1000	156.0	5399523	PASS
443	442	15	24	20.3	1098206	PASS

Data File : G:\F\DATA\SF0787\F9407.D

Vial: 2

Acq On : 16 Mar 2015 5:53 pm

Operator: DMS

Sample : HZ32

Inst : Inst. F

Misc : 5-315 DFTPP

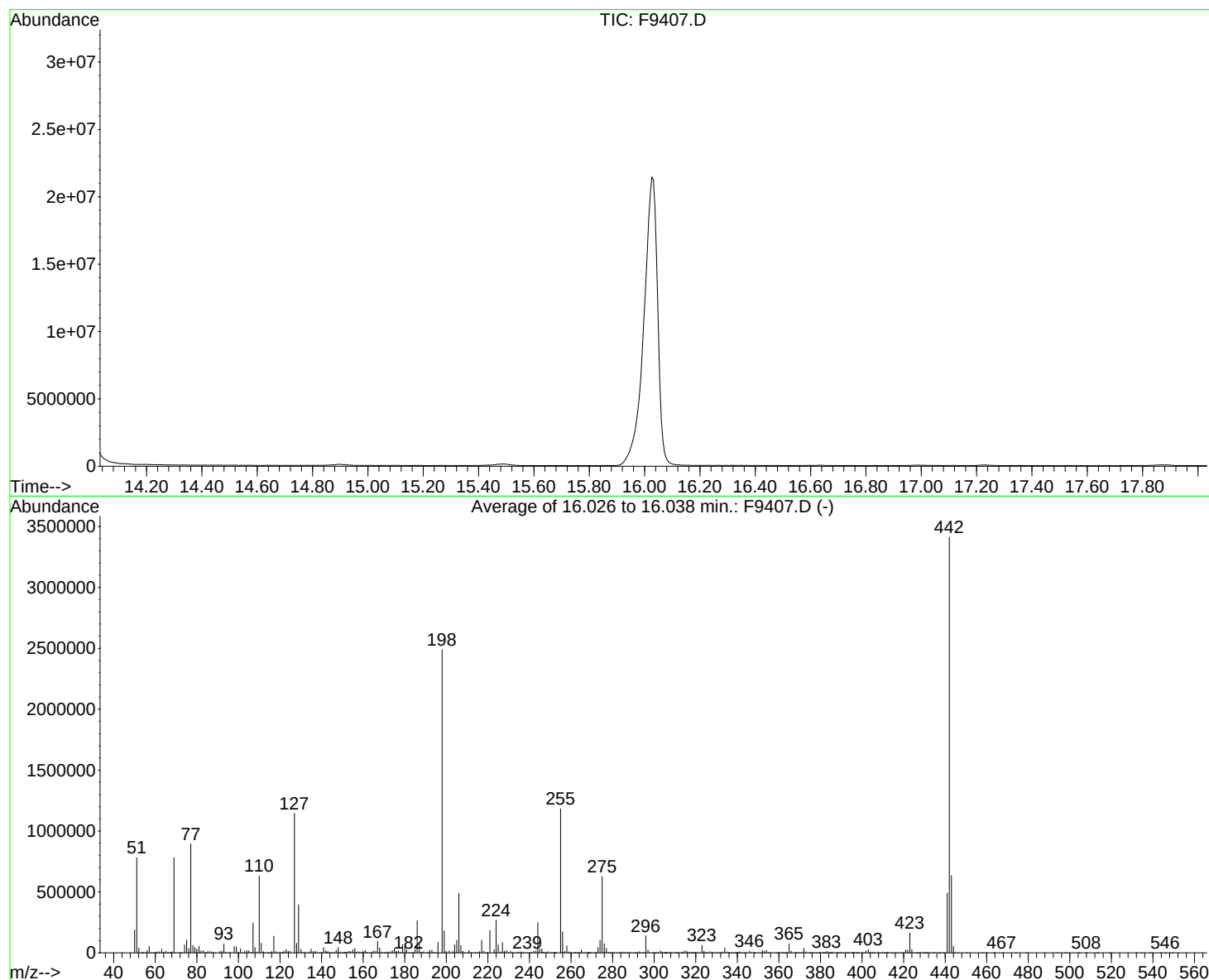
Multiplr: 1.00

MS Integration Params: rteint.p

Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Standard Mult: 1.000 ()



AutoFind: Scans 1915, 1916, 1917; Background Corrected with Scan 1889

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.4	780643	PASS
68	69	0.00	2	1.2	9171	PASS
70	69	0.00	2	0.3	2559	PASS
127	198	10	80	46.0	1145376	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	2488995	PASS
199	198	5	9	7.3	180992	PASS
275	198	10	60	25.2	626709	PASS
365	198	1	1000	3.0	73810	PASS
441	442	0.01	24	14.4	490197	PASS
442	198	50	1000	137.1	3412999	PASS
443	442	15	24	18.6	634499	PASS



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BATTELLE - DUXBURY OPERATIONS SAMPLE PREPARATION RECORDS

<u>Project Title(s)</u>	<u>Project No.(s)</u>
USACE/NAE New Bedford Harbor Task Order 10	100043429
15-0072	
USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments	
SED, SEDIMENT	
SOP Numbers (see workplan for modifications)	
ExtractionSOP No.	5-192
CleanupSOP No.	5-327
CleanupSOP No.	5-328

This Batch Contains The Following Samples:				
CF064PB-P	L0208-P	L0316MS-P	L0473-P	M5096-P
CF065LCS-P	L0239-P	L0316MSD-P	L0477-P	
CF066LCSD-P	L0246-P	L0357-P	L0504-P	
L0122-P	L0257-P	L0403-P	L0528-P	
L0125-P	L0266-P	L0406-P	L0531-P	
L0133-P	L0316-P	L0443-P	L0534-P	

Laboratory Preparation Records
COMPLETE AND VALIDATED

Prep Task Leader: Emily Fraser

Approved By:	Date	Initials
Emily Fraser	03/12/2015	EF

BATTELLE - DUXBURY OPERATIONS SAMPLE CUSTODY LOG

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Requested On/By:	03/06/2015 SAH	Purpose:	Sample Preparation
Relinquished On/By:	03/06/2015 MDS	Last Activity:	Return
Accepted On/By:	03/06/2015 SAH	Returned On/To:	03/06/2015 MDS
Stored In Facility:	Sample Preparation	Returned To Facility:	Custody: NA
Stored Until:	03/06/2015	Returned Comment:	NA
Stored Comment:	NA		

No.	BDO-ID:	Ctrs	*	Condition:	Custody Comment:
1	L0122	1	--	Intact	NA
2	L0125	1	--	Intact	NA
3	L0133	1	--	Intact	NA
4	L0208	1	--	Intact	NA
5	L0239	1	--	Intact	NA
6	L0246	1	--	Intact	NA
7	L0257	1	--	Intact	NA
8	L0266	1	--	Intact	NA
9	L0316	1	--	Intact	NA
10	L0357	1	--	Intact	NA
11	L0403	1	--	Intact	NA
12	L0406	1	--	Intact	NA
13	L0443	1	--	Intact	NA
14	L0473	1	--	Intact	NA
15	L0477	1	--	Intact	NA
16	L0504	1	--	Intact	NA
17	L0528	1	--	Intact	NA
18	L0531	1	--	Intact	NA
19	L0534	1	--	Intact	NA
20	M5096	1	--	Intact	NA
Total Samples		20	* "C" = Consumed Container		



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BATTELLE - DUXBURY OPERATIONS SAMPLE IDENTIFICATION PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Sample ID	Description
CF064PB-P	Procedural Blank
CF065LCS-P	Laboratory Control Sample
CF066LCSD-P	Laboratory Control Sample Duplicate
L0122-P	S-14N-PCC15-00-05
L0125-P	S-14N-PV5-00-05
L0133-P	S-14N-RBB22-00-05
L0208-P	S-14D-2014-36-63-00-10
L0239-P	S-14D-2014-36-75-00-10
L0246-P	S-14D-2014-36-76-00-10-REP
L0257-P	S-14D-2014-34-41-20-30
L0266-P	S-14D-2014-33-43-00-10
L0316-P	S-14D-2014-35-79-10-20
L0316MS-P	Matrix Spike of S-14D-2014-35-79-10-20
L0316MSD-P	Matrix Spike Duplicate of S-14D-2014-35-79-10-20
L0357-P	S-14D-2014-35-70-20-30
L0403-P	S-14D-2014-35-68-00-10
L0406-P	S-14D-2014-35-68-00-10-REP
L0443-P	S-14D-2014-35-7-10-20
L0473-P	S-14D-2014-25-1-10-20
L0477-P	S-14D-2014-26-1-00-10
L0504-P	S-14D-2014-30-6-00-10

Samples Assigned By

Stephanie Hart

Date :

March 5, 2015

Comments: Jar lot# F-4-287-04AB

BATTELLE - DUXBURY OPERATIONS SAMPLE IDENTIFICATION PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Sample ID	Description
L0528-P	S-14D-2014-31-6-00-10
L0531-P	S-14D-2014-31-7A-00-10
L0534-P	S-14D-2014-31-7B-00-10
M5096-P	S-14L-34-29-30-34

Samples Assigned By

Stephanie Hart

Date :

March 5, 2015

Comments: Jar lot# F-4-287-04AB

BATTELLE - DUXBURY OPERATIONS ELECTRONIC DRY WEIGHT DETERMINATION

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments****SED, SEDIMENT**

Sample ID:	Ctrs.	*	Tare Wt. (g)	Aliquot Wt. (g)	Dry Wt. (g)	Sample Wet Wt. (g)	% Dry Wt.	% Moisture	Sample Dry Wt. (g)
CF064PB-P	NA	--	NA	NA	NA	10.03	95.29	4.71	9.56
CF065LCS-P	NA	--	NA	NA	NA	9.97	95.29	4.71	9.50
CF066LCSD-P	NA	--	NA	NA	NA	9.98	95.29	4.71	9.51
L0122-P	1	--	1.12	3.24	3.23	5.10	99.53	0.47	5.08
L0125-P	1	--	1.09	3.28	3.23	4.99	97.72	2.28	4.88
L0133-P	1	--	1.10	3.23	3.22	2.01	99.53	0.47	2.00
L0208-P	1	--	1.12	3.33	3.18	4.94	93.21	6.79	4.60
L0239-P	1	--	1.13	3.47	3.40	5.02	97.01	2.99	4.87
L0246-P	1	--	1.10	4.20	4.05	4.98	95.16	4.84	4.74
L0257-P	1	--	1.11	2.61	2.51	5.00	93.33	6.67	4.67
L0266-P	1	--	1.09	2.56	2.47	4.94	93.88	6.12	4.64
L0316-P	1	--	1.11	3.79	3.79	10.02	100.00	0.00	10.02
L0316MS-P	1	--	1.10	2.97	2.97	4.96	100.00	0.00	4.96
L0316MSD-P	1	--	1.13	3.63	3.61	4.98	99.20	0.80	4.94
L0357-P	1	--	1.10	2.28	2.24	4.96	96.61	3.39	4.79
L0403-P	1	--	1.09	2.40	2.35	4.97	96.18	3.82	4.78
L0406-P	1	--	1.10	3.47	3.38	4.94	96.20	3.80	4.75
L0443-P	1	--	1.11	3.74	3.27	4.97	82.13	17.87	4.08
L0473-P	1	--	1.11	2.30	2.17	10.01	89.08	10.92	8.92
L0477-P	1	--	1.11	2.27	2.14	10.12	88.79	11.21	8.99
L0504-P	1	--	1.08	3.31	3.25	4.96	97.31	2.69	4.83
L0528-P	1	--	1.09	3.83	3.81	4.98	99.27	0.73	4.94
L0531-P	1	--	1.08	3.67	3.64	5.08	98.84	1.16	5.02

Percent Dry Wt (%) = [(Sample Dry Wt. (g) - Tare Wt. (g))/(Aliquot Wet Wt. (g) - Tare Wt. (g))] * 100

Sample Dry Wt. (%) = [(Sample Wet Wt. (g) * (Percent Dry Wt./100)]

* "C" = Sample Container Is Consumed



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS ELECTRONIC DRY WEIGHT DETERMINATION

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments

SED, SEDIMENT

Sample ID:	Ctrs.	*	Tare Wt. (g)	Aliquot Wt. (g)	Dry Wt. (g)	Sample Wet Wt. (g)	% Dry Wt.	% Moisture	Sample Dry Wt. (g)
L0534-P	1	--	1.09	3.61	3.61	10.06	100.00	0.00	10.06
M5096-P	1	--	1.10	2.98	2.83	9.97	92.02	7.98	9.17

Validation of: Wet Wt.	Performed: 03/12/15 EF
----------------------------------	----------------------------------

Sample ID:	Comments:	Reference:
CF064PB-P	Average of percent dry weights from authentic samples in Batch No. 15-0072 USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments	NA
CF065LCS-P	Average of percent dry weights from authentic samples in Batch No. 15-0072 USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments	NA
CF066LCSD-P	Average of percent dry weights from authentic samples in Batch No. 15-0072 USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments	NA

Percent Dry Wt (%) = [(Sample Dry Wt. (g) - Tare Wt. (g))/(Aliquot Wet Wt. (g) - Tare Wt. (g))] * 100

Sample Dry Wt. (%) = [(Sample Wet Wt. (g) * (Percent Dry Wt./100)]

* "C" = Sample Container Is Consumed



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BATTELLE - DUXBURY OPERATIONS SURROGATE SPIKE FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments

SED, SEDIMENT

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
CF064PB-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
CF065LCS-P	IE22	LCS/MS	1	75	03/06/15 EF	SAH	NA
CF065LCS-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
CF066LCSD-P	IE22	LCS/MS	1	75	03/06/15 EF	SAH	NA
CF066LCSD-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0122-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0125-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0133-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0208-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0239-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0246-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0257-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0266-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0316-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0316MS-P	IE22	LCS/MS	1	125	03/06/15 EF	SAH	NA
L0316MS-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0316MSD-P	IE22	LCS/MS	1	125	03/06/15 EF	SAH	NA
L0316MSD-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0357-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0403-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0406-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0443-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0473-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0477-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0504-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0528-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS SURROGATE SPIKE FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Sample ID	Standard ID	Type	Vial No.	Vol Added (uL)	Date Spiked/ Spiked By	Witn'd By	Comment
L0531-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
L0534-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA
M5096-P	IG96	SIS	1	200	03/06/15 EF	SAH	NA

Syringes/Pipettes Used:

Std ID	Type	Syr/Pip
IE22	Pipette	B1100118B
IG96	Pipette	B1100118B



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BATTELLE - DUXBURY OPERATIONS SAMPLE EXTRACTION FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments

SED, SEDIMENT

Sample ID	First Extraction	Second Extraction	Third Extraction	Turbo °C	Turbo PSI	KD °C	Comment
CF064PB-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
CF065LCS-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
CF066LCSD-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0122-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0125-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0133-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0208-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0239-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0246-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0257-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0266-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0316-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0316MS-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0316MSD-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0357-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0403-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0406-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0443-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0473-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0477-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0504-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0528-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0531-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
L0534-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA
M5096-P	03/06/15 EF	03/06/15 EF	03/06/15 EF	NA	NA	65	NA



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BATTELLE - DUXBURY OPERATIONS SAMPLE EXTRACTION FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Sample ID	First Extraction	Second Extraction	Third Extraction	Turbo °C	Turbo PSI	KD °C	Comment
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Reagents:

Name	Expires	Lot No	Procedure	Comments
Sodium Sulfate	03/06/15	0000090410	Muffled at 400 °C for more than 4 hours. Expiration date changed after sodium sulfate was consumed.	
Sodium Sulfate	03/11/15	0000090410	Muffled at 400 °C for more than 4 hours	

Solvents:

Name	Lot No	Comments
DCM Cycletainer	00000100154	
Hexane	0000088997	



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BATTELLE - DUXBURY OPERATIONS EXTRACT CLEANUP FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Extract Id	Date	Init.	Comments
CF064PB-P(0)	03/11/15	EF	NA
CF065LCS-P(0)	03/11/15	EF	NA
CF066LCSD-P(0)	03/11/15	EF	NA
L0122-P(0)	03/11/15	EF	NA
L0125-P(0)	03/11/15	EF	NA
L0133-P(0)	03/11/15	EF	NA
L0208-P(0)	03/11/15	EF	NA
L0239-P(0)	03/11/15	EF	NA
L0246-P(0)	03/11/15	EF	NA
L0257-P(0)	03/11/15	EF	NA
L0266-P(0)	03/11/15	EF	NA
L0316-P(0)	03/11/15	EF	NA
L0316MS-P(0)	03/11/15	EF	NA
L0316MSD-P(0)	03/11/15	EF	NA
L0357-P(0)	03/11/15	EF	NA
L0403-P(0)	03/11/15	EF	NA
L0406-P(0)	03/11/15	EF	NA
L0443-P(0)	03/11/15	EF	NA



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BATTELLE - DUXBURY OPERATIONS EXTRACT CLEANUP FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

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100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Extract Id	Date	Init.	Comments
L0473-P(0)	03/11/15	EF	NA
L0477-P(0)	03/11/15	EF	NA
L0504-P(0)	03/11/15	EF	NA
L0528-P(0)	03/11/15	EF	NA
L0531-P(0)	03/11/15	EF	NA
L0534-P(0)	03/11/15	EF	NA
M5096-P(0)	03/11/15	EF	NA

Cleanup:

Copper Cleanup

Reagents:

Name	Expires	Lot No	Procedure
Copper	01/15/16	MKBQ9582V	NA
Activated Copper	03/11/15	MKBQ9582V	Activated according to Cleanup SOP (5-328)



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BATTELLE - DUXBURY OPERATIONS EXTRACT CLEANUP FORM

Project Title(s)

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15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Extract Id	Date	Init.	Comments
L0257-P(2)	03/17/15	SAH	Additional copper clean up required on sample

Cleanup:

Copper Cleanup

Reagents:

Name	Expires	Lot No	Procedure
Copper	01/15/16	MKBQ9582V	NA
Activated Copper	03/17/15	MKBQ9582V	Activated according to Cleanup SOP (5-328)



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BATTELLE - DUXBURY OPERATIONS COLUMN FRACTIONATION FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Extract Id	Date	Init.	Sample Specific Comments
CF064PB-P(0)	03/10/15	EF	NA
CF065LCS-P(0)	03/10/15	EF	NA
CF066LCSD-P(0)	03/10/15	EF	NA
L0122-P(0)	03/10/15	EF	NA
L0125-P(0)	03/10/15	EF	NA
L0133-P(0)	03/10/15	EF	NA
L0208-P(0)	03/10/15	EF	NA
L0239-P(0)	03/10/15	EF	NA
L0246-P(0)	03/10/15	EF	NA
L0257-P(0)	03/10/15	EF	NA
L0266-P(0)	03/10/15	EF	NA
L0316-P(0)	03/10/15	EF	NA
L0316MS-P(0)	03/10/15	EF	NA
L0316MSD-P(0)	03/10/15	EF	NA
L0357-P(0)	03/10/15	EF	NA
L0403-P(0)	03/10/15	EF	NA
L0406-P(0)	03/10/15	EF	NA



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BATTELLE - DUXBURY OPERATIONS COLUMN FRACTIONATION FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Extract Id	Date	Init.	Sample Specific Comments
L0443-P(0)	03/10/15	EF	NA
L0473-P(0)	03/10/15	EF	NA
L0477-P(0)	03/10/15	EF	NA
L0504-P(0)	03/10/15	EF	NA
L0528-P(0)	03/10/15	EF	NA
L0531-P(0)	03/10/15	EF	NA
L0534-P(0)	03/10/15	EF	NA
M5096-P(0)	03/10/15	EF	NA

Column Diameter: 13 mm **Procedure Comment:**

Elution Volume: 15 mL

Solvents

Name	Lot No
Hexane	0000088997

Reagents

Weight g	Name	Expires	Lot No	Procedure
1.00	Florisil	03/10/15	815988-1993104	Baked at 110 °C for more than 24 hours (SPE columns not baked)

Fractions

Battelle

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BATTELLE - DUXBURY OPERATIONS COLUMN FRACTIONATION FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Extract Id	Date	Init.	Sample Specific Comments
L0257-P(2)	03/23/15	SAH	NA

Column Diameter: 13 mm **Procedure Comment:** Columns eluted with 10% Acetone in Hexane

Elution Volume: 100 mL

Solvents

Name	Lot No
Acetone	147965
Hexane	0000088997

Reagents

Weight g	Name	Expires	Lot No	Procedure
Not Measured	Sodium Sulfate	03/10/16	0000090410	Muffled at 400 °C for more than 4 hours
10.00	Florisil	03/23/15	BCBN3313V	Baked at 110 °C for more than 24 hours (SPE columns not baked)

Fractions



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments****SED, SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
CF064PB-P	0	--	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
CF065LCS-P	0	--	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
CF066LCSD-P	0	--	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0122-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0122-P	2	--	3/11/2015 3:11:00 PM	L0122-P	0	1000	950	1.053	1.053	03/11/15 EF
L0122-P-D	3	C	3/11/2015 3:11:00 PM	L0122-P	0	1000	50	20.000	20.000	03/11/15 EF
L0122-P-D	4	--	3/11/2015 3:17:00 PM	L0122-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0122-P-D	5	--	3/11/2015 3:17:00 PM	L0122-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0125-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0125-P	2	--	3/11/2015 3:11:00 PM	L0125-P	0	1000	950	1.053	1.053	03/11/15 EF
L0125-P-D	3	C	3/11/2015 3:11:00 PM	L0125-P	0	1000	50	20.000	20.000	03/11/15 EF
L0125-P-D	4	--	3/11/2015 3:17:00 PM	L0125-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0125-P-D	5	--	3/11/2015 3:17:00 PM	L0125-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0133-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments****SED, SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
L0133-P	2	--	3/11/2015 3:11:00 PM	L0133-P	0	1000	950	1.053	1.053	03/11/15 EF
L0133-P-D	3	C	3/11/2015 3:11:00 PM	L0133-P	0	1000	50	20.000	20.000	03/11/15 EF
L0133-P-D	4	--	3/11/2015 3:17:00 PM	L0133-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0133-P-D	5	--	3/11/2015 3:17:00 PM	L0133-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0208-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0208-P	2	--	3/11/2015 3:11:00 PM	L0208-P	0	1000	950	1.053	1.053	03/11/15 EF
L0208-P-D	3	C	3/11/2015 3:11:00 PM	L0208-P	0	1000	50	20.000	20.000	03/11/15 EF
L0208-P-D	4	--	3/11/2015 3:17:00 PM	L0208-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0208-P-D	5	--	3/11/2015 3:17:00 PM	L0208-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0239-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0239-P	2	--	3/11/2015 3:11:00 PM	L0239-P	0	1000	950	1.053	1.053	03/11/15 EF
L0239-P-D	3	C	3/11/2015 3:11:00 PM	L0239-P	0	1000	50	20.000	20.000	03/11/15 EF
L0239-P-D	4	--	3/11/2015 3:17:00 PM	L0239-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0239-P-D	5	--	3/11/2015 3:17:00 PM	L0239-P-D	3	1000	50	20.000	400.000	03/11/15 EF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments****SED, SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
L0246-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0246-P	2	--	3/11/2015 3:11:00 PM	L0246-P	0	1000	950	1.053	1.053	03/11/15 EF
L0246-P-D	3	C	3/11/2015 3:11:00 PM	L0246-P	0	1000	50	20.000	20.000	03/11/15 EF
L0246-P-D	4	--	3/11/2015 3:17:00 PM	L0246-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0246-P-D	5	--	3/11/2015 3:17:00 PM	L0246-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0257-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0257-P	2	--	3/11/2015 3:11:00 PM	L0257-P	0	1000	950	1.053	1.053	03/11/15 EF
L0257-P-D	3	C	3/11/2015 3:11:00 PM	L0257-P	0	1000	50	20.000	20.000	03/11/15 EF
L0257-P-D	4	--	3/11/2015 3:17:00 PM	L0257-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0257-P-D	5	--	3/11/2015 3:17:00 PM	L0257-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0266-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0266-P	2	--	3/11/2015 3:11:00 PM	L0266-P	0	1000	950	1.053	1.053	03/11/15 EF
L0266-P-D	3	C	3/11/2015 3:11:00 PM	L0266-P	0	1000	50	20.000	20.000	03/11/15 EF
L0266-P-D	4	--	3/11/2015 3:17:00 PM	L0266-P-D	3	1000	950	1.053	21.053	03/11/15 EF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

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15-0072**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments****SED, SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
L0266-P-D	5	--	3/11/2015 3:17:00 PM	L0266-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0316-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0316-P	2	--	3/11/2015 3:11:00 PM	L0316-P	0	1000	950	1.053	1.053	03/11/15 EF
L0316-P-D	3	C	3/11/2015 3:11:00 PM	L0316-P	0	1000	50	20.000	20.000	03/11/15 EF
L0316-P-D	4	--	3/11/2015 3:17:00 PM	L0316-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0316-P-D	5	--	3/11/2015 3:17:00 PM	L0316-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0316MS-P	0	--	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0316MSD-P	0	--	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0357-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0357-P	2	--	3/11/2015 3:11:00 PM	L0357-P	0	1000	950	1.053	1.053	03/11/15 EF
L0357-P-D	3	C	3/11/2015 3:11:00 PM	L0357-P	0	1000	50	20.000	20.000	03/11/15 EF
L0357-P-D	4	--	3/11/2015 3:17:00 PM	L0357-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0357-P-D	5	--	3/11/2015 3:17:00 PM	L0357-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0403-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



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Project Title(s)

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15-0072**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments****SED, SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
L0403-P	2	--	3/11/2015 3:11:00 PM	L0403-P	0	1000	950	1.053	1.053	03/11/15 EF
L0403-P-D	3	C	3/11/2015 3:11:00 PM	L0403-P	0	1000	50	20.000	20.000	03/11/15 EF
L0403-P-D	4	--	3/11/2015 3:17:00 PM	L0403-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0403-P-D	5	--	3/11/2015 3:17:00 PM	L0403-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0406-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0406-P	2	--	3/11/2015 3:11:00 PM	L0406-P	0	1000	950	1.053	1.053	03/11/15 EF
L0406-P-D	3	C	3/11/2015 3:11:00 PM	L0406-P	0	1000	50	20.000	20.000	03/11/15 EF
L0406-P-D	4	--	3/11/2015 3:17:00 PM	L0406-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0406-P-D	5	--	3/11/2015 3:17:00 PM	L0406-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0443-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0443-P	2	--	3/11/2015 3:11:00 PM	L0443-P	0	1000	950	1.053	1.053	03/11/15 EF
L0443-P-D	3	C	3/11/2015 3:11:00 PM	L0443-P	0	1000	50	20.000	20.000	03/11/15 EF
L0443-P-D	4	--	3/11/2015 3:17:00 PM	L0443-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0443-P-D	5	--	3/11/2015 3:17:00 PM	L0443-P-D	3	1000	50	20.000	400.000	03/11/15 EF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

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USACE/NAE New Bedford Harbor Task Order 10

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15-0072**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments****SED, SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
L0473-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0473-P	2	--	3/11/2015 3:11:00 PM	L0473-P	0	1000	950	1.053	1.053	03/11/15 EF
L0473-P-D	3	C	3/11/2015 3:11:00 PM	L0473-P	0	1000	50	20.000	20.000	03/11/15 EF
L0473-P-D	4	--	3/11/2015 3:17:00 PM	L0473-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0473-P-D	5	--	3/11/2015 3:17:00 PM	L0473-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0477-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0477-P	2	--	3/11/2015 3:11:00 PM	L0477-P	0	1000	950	1.053	1.053	03/11/15 EF
L0477-P-D	3	C	3/11/2015 3:11:00 PM	L0477-P	0	1000	50	20.000	20.000	03/11/15 EF
L0477-P-D	4	--	3/11/2015 3:17:00 PM	L0477-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0477-P-D	5	--	3/11/2015 3:17:00 PM	L0477-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0504-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0504-P	2	--	3/11/2015 3:11:00 PM	L0504-P	0	1000	950	1.053	1.053	03/11/15 EF
L0504-P-D	3	C	3/11/2015 3:11:00 PM	L0504-P	0	1000	50	20.000	20.000	03/11/15 EF
L0504-P-D	4	--	3/11/2015 3:17:00 PM	L0504-P-D	3	1000	950	1.053	21.053	03/11/15 EF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

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15-0072**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments****SED, SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
L0504-P-D	5	--	3/11/2015 3:17:00 PM	L0504-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0528-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0528-P	2	--	3/11/2015 3:11:00 PM	L0528-P	0	1000	950	1.053	1.053	03/11/15 EF
L0528-P-D	3	C	3/11/2015 3:11:00 PM	L0528-P	0	1000	50	20.000	20.000	03/11/15 EF
L0528-P-D	4	--	3/11/2015 3:17:00 PM	L0528-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0528-P-D	5	--	3/11/2015 3:17:00 PM	L0528-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0531-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0531-P	2	--	3/11/2015 3:11:00 PM	L0531-P	0	1000	950	1.053	1.053	03/11/15 EF
L0531-P-D	3	C	3/11/2015 3:11:00 PM	L0531-P	0	1000	50	20.000	20.000	03/11/15 EF
L0531-P-D	4	--	3/11/2015 3:17:00 PM	L0531-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0531-P-D	5	--	3/11/2015 3:17:00 PM	L0531-P-D	3	1000	50	20.000	400.000	03/11/15 EF
L0534-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
L0534-P	2	--	3/11/2015 3:11:00 PM	L0534-P	0	1000	950	1.053	1.053	03/11/15 EF
L0534-P-D	3	C	3/11/2015 3:11:00 PM	L0534-P	0	1000	50	20.000	20.000	03/11/15 EF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



BATTELLE - DUXBURY OPERATIONS PREPARATION EXTRACT SPLIT FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

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15-0072**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments****SED, SEDIMENT**

Extract		*	Extract Date	Source		Initial Extract Vol (uL)	Extract Split	Extract Split	Total Dilution	Date/Initials
Name	#			Name	#					
L0534-P-D	4	--	3/11/2015 3:17:00 PM	L0534-P-D	3	1000	950	1.053	21.053	03/11/15 EF
L0534-P-D	5	--	3/11/2015 3:17:00 PM	L0534-P-D	3	1000	50	20.000	400.000	03/11/15 EF
M5096-P	0	C	3/6/2015 11:45:00 AM	NA		NA	NA	1.000	1.000	03/06/15 EF
M5096-P	2	--	3/11/2015 3:11:00 PM	M5096-P	0	1000	950	1.053	1.053	03/11/15 EF
M5096-P-D	3	C	3/11/2015 3:11:00 PM	M5096-P	0	1000	50	20.000	20.000	03/11/15 EF
M5096-P-D	4	--	3/11/2015 3:17:00 PM	M5096-P-D	3	1000	950	1.053	21.053	03/11/15 EF
M5096-P-D	5	--	3/11/2015 3:17:00 PM	M5096-P-D	3	1000	50	20.000	400.000	03/11/15 EF

Total Oil = [Sample Volume (uL) / Aliquot Volume (uL)] * [Aliquot Weight (mg)]

Dilution Factor = [Sample Volume (uL) / Aliquot Volume (uL)] * Prior Dilution Factor

* - "C" = Extract is Consumed



The Business of Innovation

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Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

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15-0072

USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments

SED, SEDIMENT

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm. (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution*	Date Spiked/ Spiked By	With'd By
CF064PB-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
CF065LCS-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
CF066LCSD-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0122-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0122-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0122-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0125-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0125-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0125-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0133-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0133-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0133-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0208-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0208-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0208-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0239-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0239-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0239-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0246-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



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15-0072

USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments

SED, SEDIMENT

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm. (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution*	Date Spiked/ Spiked By	With'd By
L0246-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0246-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0257-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0257-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0257-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0266-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0266-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0266-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0316-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0316-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0316-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0316MS-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0316MSD-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0357-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0357-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0357-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0403-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0403-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0403-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



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15-0072

USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments

SED, SEDIMENT

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm. (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution*	Date Spiked/ Spiked By	With'd By
L0406-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0406-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0406-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0443-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0443-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0443-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0473-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0473-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0473-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0477-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0477-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0477-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0504-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0504-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0504-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0528-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0528-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0528-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0531-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



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BATTELLE - DUXBURY OPERATIONS INTERNAL STANDARD SPIKING FORM

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

(N/A Fraction)

Extract Id	Extr. Vol. (uL)	Added (uL)	Std. Id	Accm (uL)	Vial No.	Pre Inj. Vol. (uL)^	Final Dilution *	Date Spiked/ Spiked By	With'd By
L0531-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0531-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
L0534-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
L0534-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
L0534-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS
M5096-P(0)	900	100	IF44	100	2	1000	1.000	03/11/15 EF	DMS
M5096-P-D(3)	905	95	IF44	100	2	1000	20.000	03/11/15 EF	DMS
M5096-P-D(5)	905	95	IF44	100	2	1000	400.000	03/11/15 EF	DMS

Syringes/Pipettes Used:

* - Final Dilution is any HPLC, dilutions, or other manipulation

^ - Pre Injection Volume (PIV) includes any RIS spikes.



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS SAMPLE SPECIFIC COMMENTS

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments

SED, SEDIMENT

Sample ID:	Comment:	Date/Initials:
CF064PB-P	NA	NA
CF065LCS-P	NA	NA
CF066LCSD-P	NA	NA
L0122-P	NA	NA
L0125-P	NA	NA
L0133-P	NA	NA
L0208-P	NA	NA
L0239-P	NA	NA
L0246-P	NA	NA
L0257-P	Due to matrix interference, sample was submitted back to prep for additional florisil cleanup.	03/23/15 SAH
L0266-P	Sample consisted of mostly shells and rocks	03/06/15 EF
L0316-P	NA	NA
L0316MS-P	NA	NA
L0316MSD-P	NA	NA
L0357-P	Sample consisted of large hard clumps.	03/06/15 EF
L0403-P	Sample contained many shells.	03/06/15 EF
L0406-P	NA	NA
L0443-P	NA	NA
L0473-P	NA	NA
L0477-P	NA	NA
L0504-P	NA	NA
L0528-P	NA	NA
L0531-P	NA	NA
L0534-P	NA	NA
M5096-P	NA	NA

BATTELLE - DUXBURY OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments SED, SEDIMENT

Purpose: GC/MSD TRANSFER			Last Activity: Prep->Inst		
Relinquished On/By: Mar 11 2015 4:57PM EF			Received On/By: Mar 11 2015 4:57PM DMS		
Relinquished From: Sample Preparation: NA			Received Location: GCMS Room: NA		
Relinquish Comment: NA			Received Comment: NA		
No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:
1	CF064PB-P(0)	1000	1	Intact	NA
2	CF065LCS-P(0)	1000	1	Intact	NA
3	CF066LCSD-P(0)	1000	1	Intact	NA
4	L0122-P(2)	1000	1.053	Intact	NA
5	L0122-P-D(4)	1000	21.053	Intact	NA
6	L0122-P-D(5)	1000	400	Intact	NA
7	L0125-P(2)	1000	1.053	Intact	NA
8	L0125-P-D(4)	1000	21.053	Intact	NA
9	L0125-P-D(5)	1000	400	Intact	NA
10	L0133-P(2)	1000	1.053	Intact	NA
11	L0133-P-D(4)	1000	21.053	Intact	NA
12	L0133-P-D(5)	1000	400	Intact	NA
13	L0208-P(2)	1000	1.053	Intact	NA
14	L0208-P-D(4)	1000	21.053	Intact	NA
15	L0208-P-D(5)	1000	400	Intact	NA
16	L0239-P(2)	1000	1.053	Intact	NA
17	L0239-P-D(4)	1000	21.053	Intact	NA
18	L0239-P-D(5)	1000	400	Intact	NA
19	L0246-P(2)	1000	1.053	Intact	NA
20	L0246-P-D(4)	1000	21.053	Intact	NA
21	L0246-P-D(5)	1000	400	Intact	NA
22	L0257-P(2)	1000	1.053	Intact	NA
23	L0257-P-D(4)	1000	21.053	Intact	NA
24	L0257-P-D(5)	1000	400	Intact	NA
25	L0266-P(2)	1000	1.053	Intact	NA
26	L0266-P-D(4)	1000	21.053	Intact	NA
27	L0266-P-D(5)	1000	400	Intact	NA
28	L0316-P(2)	1000	1.053	Intact	NA



The Business of Innovation

BATTELLE - DUXBURY OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

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15-0072

USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments SED, SEDIMENT

29	L0316-P-D(4)	1000	21.053	Intact	NA
30	L0316-P-D(5)	1000	400	Intact	NA
31	L0316MS-P(0)	1000	1	Intact	NA
32	L0316MSD-P(0)	1000	1	Intact	NA
33	L0357-P(2)	1000	1.053	Intact	NA
34	L0357-P-D(4)	1000	21.053	Intact	NA
35	L0357-P-D(5)	1000	400	Intact	NA
36	L0403-P(2)	1000	1.053	Intact	NA
37	L0403-P-D(4)	1000	21.053	Intact	NA
38	L0403-P-D(5)	1000	400	Intact	NA
39	L0406-P(2)	1000	1.053	Intact	NA
40	L0406-P-D(4)	1000	21.053	Intact	NA
41	L0406-P-D(5)	1000	400	Intact	NA
42	L0443-P(2)	1000	1.053	Intact	NA
43	L0443-P-D(4)	1000	21.053	Intact	NA
44	L0443-P-D(5)	1000	400	Intact	NA
45	L0473-P(2)	1000	1.053	Intact	NA
46	L0473-P-D(4)	1000	21.053	Intact	NA
47	L0473-P-D(5)	1000	400	Intact	NA
48	L0477-P(2)	1000	1.053	Intact	NA
49	L0477-P-D(4)	1000	21.053	Intact	NA
50	L0477-P-D(5)	1000	400	Intact	NA
51	L0504-P(2)	1000	1.053	Intact	NA
52	L0504-P-D(4)	1000	21.053	Intact	NA
53	L0504-P-D(5)	1000	400	Intact	NA
54	L0528-P(2)	1000	1.053	Intact	NA
55	L0528-P-D(4)	1000	21.053	Intact	NA
56	L0528-P-D(5)	1000	400	Intact	NA
57	L0531-P(2)	1000	1.053	Intact	NA
58	L0531-P-D(4)	1000	21.053	Intact	NA
59	L0531-P-D(5)	1000	400	Intact	NA
60	L0534-P(2)	1000	1.053	Intact	NA
61	L0534-P-D(4)	1000	21.053	Intact	NA
62	L0534-P-D(5)	1000	400	Intact	NA
63	M5096-P(2)	1000	1.053	Intact	NA
64	M5096-P-D(4)	1000	21.053	Intact	NA
65	M5096-P-D(5)	1000	400	Intact	NA

BATTELLE - DUXBURY OPERATIONS EXTRACT - INSTRUMENT FACILITY CUSTODY PAGE

Project Title(s)

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072

**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Total Extracts:		65							
Purpose:		Cleanup				Last Activity:		Inst->Prep	
Relinquished On/By:		Mar 23 2015 9:29AM DMS				Received On/By:		Mar 23 2015 9:30AM SAH	
Relinquished From:		GC Laboratory: NA				Received Location:		Sample Preparation: NA	
Relinquish Comment:		NA				Received Comment:		NA	
No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:				
1	L0257-P(2)	1000	1.053	Intact	NA				
Total Extracts:		1							

Purpose:		GC/MSD TRANSFER				Last Activity:		Prep->Inst	
Relinquished On/By:		Mar 23 2015 2:40PM SAH				Received On/By:		Mar 23 2015 2:50PM DMS	
Relinquished From:		Sample Preparation: NA				Received Location:		GC Laboratory: NA	
Relinquish Comment:		NA				Received Comment:		NA	
No.	BDO-ID:	PIV:	DF:	Condition:	Custody Comment:				
1	L0257-P(2)	1000	1.053	Intact	NA				
Total Extracts:		1							

*The Business of Innovation***BATTELLE - DUXBURY OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM****Project Title(s)**

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Entered By:

Emily Fraser

On: 03/12/2015

Due to heavy particulate matter, samples were poured through a funnel with glass wool and sodium sulfate to prevent interference during concentration and florisil cleanup

Task Leader Approval:

Emily Fraser

On: 03/12/2015**Supervisor Approval:**

Denise Schumitz

On: 03/12/2015**PM Approval:**

Carole Peven-McCarthy

On: 03/13/2015

*The Business of Innovation***BATTELLE - DUXBURY OPERATIONS
MISCELLANEOUS DOCUMENTATION FORM****Project Title(s)**

USACE/NAE New Bedford Harbor Task Order 10

Project No.(s)

100043429

15-0072**USACE-NAE New Bedford Harbor Round 3 Lower Harbor Sediments
SED, SEDIMENT**

Entered By:

Denise Schumitz

On: 03/31/2015

Sample L0257 will be re-extracted in another batch due to matrix issues.

Task Leader Approval:

Denise Schumitz

On: 03/31/2015**Supervisor Approval:**

Denise Schumitz

On: 03/31/2015**PM Approval:**

Carole Peven-McCarthy

On: 03/31/2015

Directory G:\F\DATA\SF0785\

Highlighted cells reported.

Lin	BTL	File	Sample Id	Miscellaneous	Injected
1	1	F9318.D	HEXANE	5-315 SOLVENT	3-11-2015 11:21 AM
2	2	F9319.D	HZ32	5-315 DFTPP	3-11-2015 12:09 PM
3	3	F9320.D	ID13	5-315 ICAL	3-11-2015 12:57 PM
4	4	F9321.D	ID14	5-315 ICAL	3-11-2015 1:45 PM
5	5	F9322.D	ID15	5-315 ICAL	3-11-2015 2:33 PM
6	6	F9323.D	ID16	5-315 ICAL	3-11-2015 3:21 PM
7	7	F9324.D	ID17	5-315 ICAL	3-11-2015 4:09 PM
8	8	F9325.D	ID18	5-315 ICAL	3-11-2015 4:57 PM
9	9	F9326.D	ID19	5-315 ICAL	3-11-2015 5:45 PM
10	10	F9327.D	ID20	5-315 ICAL	3-11-2015 6:33 PM
11	11	F9328.D	ID21 ICC	5-315 ICC	3-11-2015 7:21 PM
12	12	F9329.D	CF064PB-P(0)	5-315 15-0072	3-11-2015 8:09 PM
13	13	F9330.D	CF065LCS-P(0)	5-315 15-0072	3-11-2015 8:57 PM
14	14	F9331.D	CF066LCS-P(0)	5-315 15-0072	3-11-2015 9:45 PM
15	15	F9332.D	L0122-P(2)	5-315 15-0072	3-11-2015 10:33 PM
16	16	F9333.D	L0125-P(2)	5-315 15-0072	3-11-2015 11:21 PM
17	17	F9334.D	L0133-P(2)	5-315 15-0072	3-12-2015 12:09 AM
18	18	F9335.D	L0208-P(2)	5-315 15-0072	3-12-2015 12:57 AM
19	19	F9336.D	L0239-P(2)	5-315 15-0072	3-12-2015 1:45 AM
20	20	F9337.D	ID17 mid	5-315 CCV	3-12-2015 2:33 AM
21	21	F9338.D	L0246-P(2)	5-315 15-0072	3-12-2015 3:21 AM
22	22	F9339.D	L0257-P(2)	5-315 15-0072	3-12-2015 4:09 AM
23	23	F9340.D	L0266-P(2)	5-315 15-0072	3-12-2015 4:57 AM
24	24	F9341.D	L0316-P(2)	5-315 15-0072	3-12-2015 5:45 AM
25	25	F9342.D	L0316MS-P(0)	5-315 15-0072	3-12-2015 6:33 AM
26	26	F9343.D	L0316MSD-P(0)	5-315 15-0072	3-12-2015 7:21 AM
27	27	F9344.D	L0357-P(2)	5-315 15-0072	3-12-2015 8:09 AM
28	28	F9345.D	L0403-P(2)	5-315 15-0072	3-12-2015 8:57 AM
29	29	F9346.D	ID18 mid	5-315 CCV	3-12-2015 9:46 AM
30	30	F9347.D	L0406-P(2)	5-315 15-0072	3-12-2015 10:34 AM
31	31	F9348.D	L0443-P(2)	5-315 15-0072	3-12-2015 11:22 AM
32	32	F9349.D	L0473-P(2)	5-315 15-0072	3-12-2015 12:10 PM
33	33	F9350.D	L0477-P(2)	5-315 15-0072	3-12-2015 12:58 PM
34	34	F9351.D	L0504-P(2)	5-315 15-0072	3-12-2015 1:46 PM
35	35	F9352.D	L0528-P(2)	5-315 15-0072	3-12-2015 2:34 PM
36	36	F9353.D	L0531-P(2)	5-315 15-0072	3-12-2015 3:22 PM
37	37	F9354.D	L0534-P(2)	5-315 15-0072	3-12-2015 4:10 PM

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Lin	BTL	File	Sample Id	Miscellaneous	Injected
1	1	F9355.D	HEXANE	5-315 SOLVENT	3-13-2015 11:02 AM
2	2	F9356.D	HZ32	5-315 DFTPP	3-13-2015 11:50 AM
3	3	F9357.D	ID17 mid	5-315 CCV	3-13-2015 12:38 PM
4	4	F9358.D	L0406-P(2)	5-315 15-0072	3-13-2015 1:26 PM
5	5	F9359.D	L0406-P-D(4)	5-315 15-0072	3-13-2015 2:14 PM
6	6	F9360.D	L0443-P(2)	5-315 15-0072	3-13-2015 3:02 PM
7	7	F9361.D	L0443-P-D(4)	5-315 15-0072	3-13-2015 3:50 PM
8	8	F9362.D	L0473-P(2) Pcnmrcb dpm k bjsrgm1	5-315 15-0072	3-13-2015 4:37 PM
9	9	F9363.D	L0473-P-D(4)	5-315 15-0072	3-13-2015 5:25 PM
10	10	F9364.D	L0477-P(2) Reported from dilution. RR 3/25/15	5-315 15-0072	3-13-2015 6:13 PM
11	11	F9365.D	L0477-P-D(4)	5-315 15-0072	3-13-2015 7:01 PM
12	12	F9366.D	ID18 mid Inst. stopped. samples re-run below. RR 3/25/15	5-315 CCV	3-13-2015 7:49 PM
13	13	F9367.D	L0504-P(2)	5-315 15-0072	3-13-2015 8:37 PM
14	14	F9368.D	L0504-P-D(4)	5-315 15-0072	3-13-2015 9:25 PM
15	15	F9369.D	L0528-P(2)	5-315 15-0072	3-13-2015 10:13 PM
16	16	F9370.D	L0528-P-D(4)	5-315 15-0072	3-13-2015 11:01 PM
17	17	F9371.D	L0531-P(2)	5-315 15-0072	3-13-2015 11:49 PM
18	18	F9372.D	L0531-P-D(4)	5-315 15-0072	3-14-2015 12:37 AM
19		F9373.D	No data in directory.	***	
20	10	F9374.D	HZ32	5-315 DFTPP	3-15-2015 8:36 AM
21	11	F9375.D	ID18 mid	5-315 CCV	3-15-2015 9:24 AM
22	12	F9376.D	L0257-P(2) To be re-extracted. See misc doc. RR 3/25/15	5-315 15-0072	3-15-2015 10:13 AM
23	13	F9377.D	L0504-P(2)	5-315 15-0072	3-15-2015 11:01 AM
24	14	F9378.D	L0504-P-D(4)	5-315 15-0072	3-15-2015 11:49 AM
25	15	F9379.D	L0528-P(2)	5-315 15-0072	3-15-2015 12:37 PM
26	16	F9380.D	L0528-P-D(4)	5-315 15-0072	3-15-2015 1:25 PM
27	17	F9381.D	L0531-P(2)	5-315 15-0072	3-15-2015 2:13 PM
28	18	F9382.D	L0531-P-D(4)	5-315 15-0072	3-15-2015 3:01 PM
29	19	F9383.D	L0534-P(2)	5-315 15-0072	3-15-2015 3:49 PM
30	20	F9384.D	L0534-P-D(4)	5-315 15-0072	3-15-2015 4:38 PM
31	21	F9385.D	L0246-P-D(4) Mis-inject. Sample re-run below. RR 3/25/15	5-315 15-0072	3-15-2015 5:26 PM
32	22	F9386.D	ID17 mid	5-315 CCV	3-15-2015 6:14 PM
33	23	F9387.D	M5096-P(2)	5-315 15-0072	3-15-2015 7:02 PM
34	24	F9388.D	M5096-P-D(4)	5-315 15-0072	3-15-2015 7:50 PM
35	25	F9389.D	L0122-P-D(4)	5-315 15-0072	3-15-2015 8:38 PM
36	26	F9390.D	L0125-P-D(4)	5-315 15-0072	3-15-2015 9:26 PM
37	27	F9391.D	L0133-P-D(4)	5-315 15-0072	3-15-2015 10:14 PM
38	28	F9392.D	L0208-P-D(4)	5-315 15-0072	3-15-2015 11:02 PM
39	29	F9393.D	L0239-P-D(4)	5-315 15-0072	3-15-2015 11:50 PM
40	30	F9394.D	L0246-P-D(4)	5-315 15-0072	3-16-2015 12:37 AM
41	31	F9395.D	ID18 mid	5-315 CCV	3-16-2015 1:25 AM
42	32	F9396.D	L0257-P-D(4) To be re-extracted. RR 3/25/15	5-315 15-0072	3-16-2015 2:13 AM
43	33	F9397.D	L0266-P-D(4)	5-315 15-0072	3-16-2015 3:01 AM
44	34	F9398.D	L0316-P-D(4) (1)	5-315 15-0072	3-16-2015 3:49 AM
45	35	F9399.D	L0357-P-D(4)	5-315 15-0072	3-16-2015 4:37 AM
46	36	F9400.D	L0403-P-D(4)	5-315 15-0072	3-16-2015 5:25 AM
47	37	F9401.D	L0125-P-D(5) Mis-inject. re-run below. RR 3/26/15	5-315 15-0072	3-16-2015 6:13 AM
48	37	F9401A.D	L0125-P-D(5)	5-315 15-0072	3-16-2015 8:09 AM
49	38	F9402.D	L0208-P-D(5)	5-315 15-0072	3-16-2015 8:57 AM
50	39	F9403.D	L0239-P-D(5) (1)	5-315 15-0072	3-16-2015 9:45 AM
51	40	F9404.D	ID17 mid	5-315 CCV	3-16-2015 10:33 AM
52	1	F9405.D	ID20	5-315 WINDOWS	3-16-2015 2:42 PM

(1) Dilution not needed. RR 3/25/15

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Lin	BTL	File	Sample Id	Miscellaneous	Injected
1	1	F9406.D	HEXANE	5-315 SOLVENT	3-16-2015 5:05 PM
2	2	F9407.D	HZ32	5-315 DFTPP	3-16-2015 5:53 PM
3	3	F9408.D	ID13	5-315 ICAL	3-16-2015 6:41 PM
4	4	F9409.D	ID14	5-315 ICAL	3-16-2015 7:28 PM
5	5	F9410.D	ID15	5-315 ICAL	3-16-2015 8:17 PM
6	6	F9411.D	ID16	5-315 ICAL	3-16-2015 9:05 PM
7	7	F9412.D	ID17	5-315 ICAL	3-16-2015 9:53 PM
8	8	F9413.D	ID18	5-315 ICAL	3-16-2015 10:41 PM
9	9	F9414.D	ID19	5-315 ICAL	3-16-2015 11:29 PM
10	10	F9415.D	ID20	5-315 ICAL	3-17-2015 12:17 AM
11	11	F9416.D	ID21 ICC	5-315 ICC	3-17-2015 1:05 AM
12	12	F9417.D	CF067PB-P(0)	5-315 15-0073	3-17-2015 1:53 AM
13	13	F9418.D	CF068LCS-P(0)	5-315 15-0073	3-17-2015 2:41 AM
14	14	F9419.D	CF069LCS-P(0)	5-315 15-0073	3-17-2015 3:29 AM
15	15	F9420.D	L0217-P(2)	5-315 15-0073	3-17-2015 4:18 AM
16	16	F9421.D	L0217-P-D(4)	5-315 15-0073	3-17-2015 5:06 AM
17	17	F9422.D	SOLVENT	5-315 SOLVENT	3-17-2015 5:54 AM
18	18	F9423.D	ID18 MID	5-315 CCV	3-17-2015 6:42 AM
19	19	F9424.D	L0229-P(2)	5-315 15-0073	3-17-2015 7:30 AM
20	20	F9425.D	L0229-P-D(4)	5-315 15-0073	3-17-2015 8:18 AM
21	21	F9426.D	L0243-P(2)	5-315 15-0073	3-17-2015 9:06 AM
22	---	F9427.D	No data in directory.		***
23	23	F9428.D	L0256-P(2)	5-315 15-0073	3-17-2015 10:43 AM
24	24	F9429.D	L0256-P-D(4)	5-315 15-0073	3-17-2015 11:31 AM
25	25	F9430.D	L0302-P(2)	5-315 15-0073	3-17-2015 12:19 PM
26	26	F9431.D	L0302-P-D(4)	5-315 15-0073	3-17-2015 1:07 PM
27	27	F9432.D	SOLVENT	5-315 SOLVENT	3-17-2015 1:56 PM
28	28	F9433.D	ID19 MID	5-315 CCV	3-17-2015 2:44 PM
29	65	F9434.D	L0257-P(2)	5-315 15-0072	3-17-2015 3:32 PM
30	71	F9435.D	L0257-P-D(5)	5-315 15-0072	3-17-2015 4:20 PM
31	72	F9436.D	L0256-P-D(5)	Inst. Stopped. Re-run @ F9436B	3-17-2015 5:08 PM
32	1	F9436A.D	ID18 MID	RR 3/25/15	3-18-2015 8:03 AM
33	72	F9436B.D	L0256-P-D(5)	5-315 15-0072	3-18-2015 8:50 AM
34	29	F9437.D	L0308-P(2)	5-315 15-0073	3-18-2015 9:38 AM
35	30	F9438.D	L0308-P-D(4)	5-315 15-0073	3-18-2015 10:26 AM
36	70	F9439.D	L0531-P-D(5)	5-315 15-0072	3-18-2015 11:14 AM
37	31	F9440.D	L0314-P(2)	5-315 15-0073	3-18-2015 12:02 PM
38	32	F9441.D	L0314-P-D(4)	5-315 15-0073	3-18-2015 12:50 PM
39	33	F9442.D	L0376-P(2)	5-315 15-0073	3-18-2015 1:38 PM
40	34	F9443.D	L0376-P-D(4)	5-315 15-0073	3-18-2015 2:26 PM
41	37	F9444.D	SOLVENT	5-315 SOLVENT	3-18-2015 3:14 PM
42	38	F9445.D	ID18 MID	5-315 CCV	3-18-2015 4:02 PM
43	35	F9446.D	L0387-P(2)	5-315 15-0073	3-18-2015 4:50 PM
44	36	F9447.D	L0387-P-D(4)	5-315 15-0073	3-18-2015 5:38 PM
45	39	F9448.D	L0423-P(2)	5-315 15-0073	3-18-2015 6:26 PM
46	40	F9449.D	L0423-P-D(4)	5-315 15-0073	3-18-2015 7:14 PM
47	41	F9450.D	L0435-P(2)	5-315 15-0073	3-18-2015 8:02 PM
48	42	F9451.D	L0435-P-D(4)	5-315 15-0073	3-18-2015 8:50 PM
49	43	F9452.D	L0437-P(2)	5-315 15-0073	3-18-2015 9:38 PM
50	44	F9453.D	L0437-P-D(4)	5-315 15-0073	3-18-2015 10:26 PM
51	45	F9454.D	L0440-P(2)	5-315 15-0073	3-18-2015 11:13 PM
52	46	F9455.D	L0440-P-D(4)	5-315 15-0073	3-19-2015 12:01 AM
53	47	F9456.D	SOLVENT	5-315 SOLVENT	3-19-2015 12:49 AM
54	48	F9457.D	ID18 MID	5-315 CCV	3-19-2015 1:37 AM
55	49	F9458.D	L0472-P(4)	5-315 15-0073	3-19-2015 2:25 AM
56	50	F9459.D	L0472-P-D(6)	5-315 15-0073	3-19-2015 3:13 AM
57	51	F9460.D	L0515-P(2)	5-315 15-0073	3-19-2015 4:01 AM
58	52	F9461.D	L0515-P-D(4)	5-315 15-0073	3-19-2015 4:49 AM
59	53	F9462.D	L0515MS-P(0)	5-315 15-0073	3-19-2015 5:37 AM
60	54	F9463.D	L0515MSD-P(0)	5-315 15-0073	3-19-2015 6:25 AM
61	55	F9464.D	L0523-P(2)	5-315 15-0073	3-19-2015 7:12 AM

Directory G:\F\DATA\SF0787\

Lin	BTL	File	Sample Id	Miscellaneous	Injected
62	56	F9465.D	L0523-P-D(4)	5-315 15-0073	3-19-2015 8:00 AM
63	57	F9466.D	L0357-P-D(5)	5-315 15-0073 15-0072 RR 3/25/15	3-19-2015 8:48 AM
64	58	F9467.D	ID19 MID	5-315 CCV	3-19-2015 9:36 AM
65	59	F9468.D	L0537-P(2)	5-315 15-0073	3-19-2015 10:24 AM
66	60	F9469.D	L0537-P-D(4)	5-315 15-0073	3-19-2015 11:12 AM
67	71	F9470.D	LCS1-50	5-315	3-19-2015 12:00 PM
68	72	F9471.D	LCS2-20	5-315	3-19-2015 12:48 PM
69	73	F9472.D	LCS1-25(1)	5-315	3-19-2015 1:36 PM
70	74	F9473.D	LCS2-25(1)	5-315	3-19-2015 2:24 PM
71	75	F9474.D	LCS1-25(2)	5-315	3-19-2015 3:12 PM
72	76	F9475.D	LCS2-25(2)	5-315	3-19-2015 4:00 PM
73	77	F9476.D	SOLVENT	5-315 SOLVENT	3-19-2015 4:48 PM
74	78	F9477.D	ID19 mid	5-315 CCV	3-19-2015 5:36 PM
75	61	F9478.D	M4934-P(2)	5-315 15-0073	3-19-2015 6:24 PM
76	62	F9479.D	M4943-P-D(4)	5-315 15-0073	3-19-2015 7:12 PM
77	66	F9480.D	M5061-P(2)	5-315 15-0073	3-19-2015 8:00 PM
78	67	F9481.D	M5061-P-D(4)	5-315 15-0073	3-19-2015 8:48 PM
79	68	F9482.D	M5362-P(4)	5-315 15-0073	3-19-2015 9:36 PM
80	69	F9483.D	M5362-P-D(6)	5-315 15-0073	3-19-2015 10:24 PM
81	63	F9484.D	SOLVENT	5-315 SOLVENT	3-19-2015 11:12 PM
82	64	F9485.D	ID19	5-315 CCV	3-20-2015 12:00 AM
83	---	F9486.D	No data in directory.		***
84	20	F9487.D	LCS 1 100	CHECK	3-20-2015 3:58 PM
85	21	F9488.D	LCS 2 100	CHECK	3-20-2015 4:46 PM
86	22	F9489.D	LCS 1 25 (1)	CHECK	3-20-2015 5:34 PM
87	23	F9490.D	LCS 2 25 (1)	CHECK	3-20-2015 6:22 PM
88	24	F9491.D	LCS 1 25 (2)	CHECK	3-20-2015 7:10 PM
89	25	F9492.D	LCS 2 25 (2)	CHECK	3-20-2015 7:58 PM

Calibration Response Factor Report

Batch: 15-0072 **Project Test Code:** Master 315(S) **RFs Validate** 3/25/2015 EF
Data Set: DP-15-0093 **SOP_NO:** 5-315-10
Project Number: 100043429 **Project Name:** USACE/NAE New Bedford Harbor Task Order 10

File: MF0785.M **Responses Via** Initial Calibration **Last Updated** 3/12/2015 8:55:00 AM **Title:** PCB-QNF NBH
Instrument: Inst. F **Operator:** RR **Path:** G:\F\DATA\MF0785.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9320.D	2 ID15 F9322.D	3 ID16 F9323.D	4 ID17 F9324.D	5 ID18 F9325.D	6 ID20 F9327.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
1	Cl5(96)	i	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Biphenyl		1	-	3.61461	3.66226	3.68073	3.32764	3.56393	3.38859	-	-	6 Q	-0.05497	3.56595	-0.00350	0.99989	
3	Cl1(1)	P1	1	Y	2.40974	2.52096	2.57468	2.50041	2.58319	2.54419	-	-	6 Q	-0.01354	2.59051	-0.00909	0.99998	
4	Cl1(3)	P1	1	Y	2.17984	2.27083	2.32397	2.31488	2.44000	2.45730	-	-	6 Q	0.00872	2.43574	-0.01964	0.99997	
5	Cl2(4)	P2	1	Y	1.18550	1.22204	1.19051	1.16150	1.21546	1.21363	-	-	6 Q	0.00218	1.20780	-0.00343	0.99997	
6	Cl2(7)		1	Y	1.65387	1.47331	1.60404	1.56306	1.63017	1.58144	-	-	6 Q	-0.01906	1.64629	-0.01121	0.99996	
7	Cl2(9)		1	Y	1.97816	2.12165	2.13017	2.10062	2.30642	2.34448	-	-	6 Q	0.02088	2.28626	-0.02646	0.99990	
8	Cl2(6)		1	Y	1.94368	1.89073	1.91152	1.85698	2.01398	1.97579	-	-	6 Q	-0.01013	2.01416	-0.01801	0.99990	
9	Cl2(5)		1	Y	1.93323	1.80225	1.79084	1.82185	1.92838	1.92428	-	-	6 Q	0.00098	1.92642	-0.01622	0.99995	
10	Cl2(8)		1	Y	1.85485	1.95677	2.02790	1.97939	2.13996	2.07543	-	-	6 Q	-0.02353	2.15872	-0.02434	0.99991	
11	Cl3(19)	P3	1	Y	0.78374	0.73610	0.79084	0.78218	0.81074	0.80741	-	-	6 Q	-0.00139	0.81359	-0.00537	0.99998	
12	Cl3(30)		1	Y	1.17457	1.14910	1.18162	1.15389	1.27499	1.27845	-	-	6 Q	0.00484	1.26789	-0.01526	0.99988	
13	Cl2(11)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Cl2(11)		1	Y	1.50295	1.57962	1.69418	1.67772	1.84093	1.88484	-	-	6 Q	0.01954	1.83054	-0.02624	0.99991	
15	Cl3(18)		1	Y	0.89511	0.80638	0.88477	0.86334	0.93449	0.92047	-	-	6 Q	-0.00460	0.93883	-0.01111	0.99991	
16	Cl3(17)		1	Y	0.83474	0.89153	0.88689	0.85663	0.94085	0.92758	-	-	6 Q	-0.00258	0.93898	-0.00953	0.99988	
17	Cl2(12)		1	Y	1.49329	1.53838	1.68682	1.64607	1.83803	1.86906	-	-	6 Q	0.01522	1.82983	-0.02939	0.99987	
18	Cl2(13)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Cl2(13)		1	Y	1.46444	1.50823	1.58627	1.64863	1.79396	1.75957	-	-	6 Q	-0.01520	1.81879	-0.03257	0.99990	
20	Cl3(27)		1	Y	1.15680	1.21926	1.24374	1.21360	1.33806	1.28500	-	-	6 Q	-0.01895	1.35147	-0.01801	0.99986	
21	Cl3(24)		1	Y	1.19070	1.17809	1.18726	1.17704	1.27540	1.23001	-	-	6 Q	-0.01618	1.28671	-0.01462	0.99990	
22	Cl3(16)		1	Y	0.69007	0.69183	0.64605	0.65339	0.68776	0.69115	-	-	6 Q	0.00311	0.68223	-0.00322	0.99996	
23	Cl2(15)	P2	1	Y	1.69446	1.71854	1.90702	1.90571	2.05351	2.07671	-	-	6 Q	0.00852	2.05874	-0.02949	0.99994	
24	Cl3(32)		1	Y	1.24458	1.22739	1.23420	1.26475	1.32687	1.30658	-	-	6 Q	-0.00809	1.33657	-0.01274	0.99996	
25	Cl4(54)	P4	1	Y	1.47381	1.20351	1.19759	1.15184	1.24505	1.17328	-	-	6 Q	-0.02382	1.25227	-0.00732	0.99987	
26	Cl3(34)-S1	S	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Cl3(34)	S	1	Y	1.11291	1.14747	1.14608	1.16839	1.24051	1.25008	-	-	6 Q	0.00476	1.23886	-0.01243	0.99995	
28	Cl3(29)		1	Y	1.19337	1.15585	1.13678	1.12285	1.25824	1.27300	-	-	6 Q	0.01076	1.24365	-0.01560	0.99984	
29	Cl3(26)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	Cl3(26)		1	Y	1.14217	1.17014	1.24374	1.22759	1.35973	1.37654	-	-	6 Q	0.00886	1.35466	-0.02020	0.99989	

Calibration Response Factor Report

Batch: 15-0072 Project Test Code: Master 315(S)
 Data Set: DP-15-0093 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0785.M Responses Via Initial Calibration Last Updated 3/12/2015 8:55:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: RR Path: G:\F\DATA\MF0785.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9320.D	2 ID15 F9322.D	3 ID16 F9323.D	4 ID17 F9324.D	5 ID18 F9325.D	6 ID20 F9327.D	7 -	8 -	Curve Fit: Levels:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
31	Cl4(50)		1	Y	0.72754	0.80187	0.85259	0.80198	0.89116	0.87466	-	-	6 Q	-0.00454	0.89286	-0.01115	0.99985	
32	Cl3(25)		1	Y	1.16621	1.05886	1.19104	1.22764	1.27346	1.30915	-	-	6 Q	0.01212	1.27491	-0.01434	0.99998	
33	Cl3(31)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	Cl3(31)		1	Y	1.29895	1.17525	1.19213	1.24233	1.32845	1.37149	-	-	6 Q	0.01857	1.31669	-0.01531	0.99994	
35	Cl4(53)		1	Y	0.74835	0.81442	0.82930	0.80901	0.90064	0.87835	-	-	6 Q	-0.00707	0.90523	-0.01300	0.99985	
36	Cl3(28)		1	Y	1.13486	1.18617	1.23724	1.23049	1.36726	1.38871	-	-	6 Q	0.01097	1.36032	-0.02081	0.99988	
37	Cl3(33)		1	Y	1.09911	1.03565	1.14248	1.13853	1.23862	1.25850	-	-	6 Q	0.00867	1.23625	-0.01754	0.99992	
38	Cl4(51)		1	Y	0.84723	0.84461	0.85948	0.86094	0.94228	0.91004	-	-	6 Q	-0.01178	0.95219	-0.01340	0.99988	
39	Cl4(45)		1	Y	0.69701	0.68562	0.68474	0.67400	0.72777	0.74747	-	-	6 Q	0.01004	0.71715	-0.00554	0.99994	
40	Cl3(22)		1	Y	1.07205	1.04403	1.07235	1.10527	1.22253	1.24969	-	-	6 Q	0.01246	1.21610	-0.02008	0.99988	
41	Cl4(46)		1	Y	0.67966	0.58933	0.64054	0.61550	0.67038	0.68394	-	-	6 Q	0.00726	0.66259	-0.00610	0.99991	
42	Cl4(43)		1	Y	0.67088	0.64272	0.64172	0.64759	0.74689	0.76854	-	-	6 Q	0.01149	0.73611	-0.01339	0.99978	
43	Cl4(52)		1	Y	0.77329	0.71659	0.78909	0.79017	0.84015	0.86973	-	-	6 Q	0.01211	0.83383	-0.00903	0.99996	
44	Cl4(48)		1	Y	0.78896	0.78713	0.79513	0.78181	0.86876	0.89736	-	-	6 Q	0.01439	0.85461	-0.01015	0.99988	
45	Cl4(49)		1	Y	0.68760	0.77115	0.76387	0.76901	0.83143	0.86157	-	-	6 Q	0.01354	0.82111	-0.00884	0.99994	
46	Cl5(104)	P5	1	Y	0.88928	0.94249	0.92074	0.96489	1.03470	1.01517	-	-	6 Q	-0.00786	1.04501	-0.01461	0.99992	
47	Cl4(47)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	Cl4(47)		1	Y	0.92481	0.90799	1.00180	0.95803	0.99757	1.00363	-	-	6 Q	0.00291	0.99597	-0.00519	0.99997	
49	Cl4(75)		1	Y	1.13033	1.04431	1.10211	1.06695	1.23820	1.19556	-	-	6 Q	-0.01301	1.24503	-0.02370	0.99970	
50	Cl4(44)		1	Y	0.67611	0.66375	0.71269	0.67425	0.75309	0.79597	-	-	6 Q	0.02012	0.73412	-0.00780	0.99989	
51	Cl4(42)		1	Y	0.74835	0.67340	0.69386	0.67852	0.75276	0.78503	-	-	6 Q	0.01581	0.73680	-0.00784	0.99989	
52	Cl4(71)		1	Y	1.08470	0.93379	0.98229	0.98277	1.10011	1.13643	-	-	6 Q	0.01787	1.08440	-0.01587	0.99986	
53	Cl4(41)		1	Y	0.62072	0.56785	0.58307	0.59427	0.64800	0.67945	-	-	6 Q	0.01402	0.63711	-0.00775	0.99992	
54	Cl4(64)		1	Y	1.13762	1.01191	1.09563	1.02185	1.12767	1.18036	-	-	6 Q	0.02599	1.09947	-0.00797	0.99990	
55	Cl4(40)		1	Y	0.54331	0.52875	0.56172	0.60941	0.62744	0.63007	-	-	6 Q	-0.00093	0.63588	-0.00895	0.99997	
56	Cl3(37)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
57	Cl3(37)	J1	1	Y	1.07320	0.94809	1.09490	1.14661	1.25509	1.29377	-	-	6 Q	0.01413	1.25659	-0.02511	0.99991	
58	Cl5(100)		1	Y	0.74003	0.70244	0.70199	0.67920	0.76348	0.80605	-	-	6 Q	0.02087	0.74147	-0.00750	0.99987	
59	Cl4(67)		1	Y	0.94195	0.91555	0.92961	0.94916	1.07048	1.16444	-	-	6 Q	0.04113	1.03754	-0.01624	0.99988	
60	Cl4(63)		1	Y	0.86107	0.82976	0.92558	0.89673	1.03267	1.12423	-	-	6 Q	0.04045	1.00037	-0.01722	0.99985	

Calibration Response Factor Report

Batch: 15-0072 Project Test Code: Master 315(S)
 Data Set: DP-15-0093 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0785.M Responses Via Initial Calibration Last Updated 3/12/2015 8:55:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: RR Path: G:\F\DATA\MF0785.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9320.D	2 ID15 F9322.D	3 ID16 F9323.D	4 ID17 F9324.D	5 ID18 F9325.D	6 ID20 F9327.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
61	Cl5(95)		1	Y	0.59564	0.61692	0.60147	0.62625	0.66696	0.70317	-	-	6 Q	0.01543	0.65590	-0.00653	0.99996	
62	Cl4(74)		1	Y	0.91123	0.94529	1.03361	1.05674	1.17251	1.24645	-	-	6 Q	0.03042	1.15578	-0.02085	0.99991	
63	Cl4(70)		1	Y	0.93778	0.96303	1.02467	1.03793	1.15549	1.19757	-	-	6 Q	0.01820	1.14545	-0.01981	0.99989	
64	Cl5(91)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
65	Cl5(91)		1	Y	0.76084	0.69086	0.67913	0.67650	0.76087	0.78223	-	-	6 Q	0.01181	0.74733	-0.00944	0.99984	
66	Cl4(66)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
67	Cl4(66)-S2		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
68	Cl4(66)		1	Y	0.91123	0.97754	0.96542	0.98772	1.13479	1.18104	-	-	6 Q	0.02196	1.11773	-0.02148	0.99981	
69	Cl6(155)	P6	1	Y	0.87950	0.80858	0.87188	0.86501	0.95395	0.94278	-	-	6 Q	-0.00326	0.95791	-0.01448	0.99987	
70	Cl4(80)		1	Y	0.90135	0.89120	0.91492	0.94138	1.07880	1.16414	-	-	6 Q	0.03731	1.05064	-0.02021	0.99985	
71	Cl5(92)		1	Y	0.67029	0.64798	0.62842	0.67840	0.75022	0.79663	-	-	6 Q	0.01985	0.73689	-0.01251	0.99989	
72	Cl5(84)		1	Y	0.45588	0.45889	0.47286	0.50880	0.52313	0.68977	-	-	6 Q	0.06785	0.47199	-0.00076	0.99999	
73	Cl4(56)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
74	Cl4(56)		1	Y	0.82850	0.90549	0.97631	0.98828	1.13970	1.16108	-	-	6 Q	0.00991	1.13763	-0.02621	0.99979	
75	Cl4(60)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
76	Cl4(60)		1	Y	0.93778	0.87337	0.93732	0.97879	1.09388	1.14477	-	-	6 Q	0.02132	1.08308	-0.02121	0.99988	
77	Cl5(101)		1	Y	0.70955	0.63262	0.69636	0.71130	0.79489	0.84148	-	-	6 Q	0.01989	0.78230	-0.01393	0.99989	
78	Cl6(161)	i	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
79	Cl5(99)		1	Y	0.90494	0.93945	0.97594	0.94329	1.03799	1.09169	-	-	6 Q	0.02476	1.01562	-0.01019	0.99992	
80	Cl5(83)		1	Y	0.81521	0.71724	0.66938	0.70616	0.73508	0.79007	-	-	6 Q	0.02414	0.71365	-0.00250	0.99997	
81	Cl5(125)		1	Y	1.23650	1.10868	1.11615	1.13190	1.18705	1.26183	-	-	6 Q	0.03265	1.15919	-0.00568	0.99998	
82	Cl5(97)		1	Y	0.71653	0.77936	0.78318	0.78522	0.88987	0.90142	-	-	6 Q	0.00679	0.88458	-0.01543	0.99983	
83	Cl5(87)		1	Y	0.86887	0.75354	0.80151	0.77586	0.82743	0.92061	-	-	6 Q	0.04079	0.79126	-0.00235	0.99997	
84	Cl6(136)		1	Y	1.17262	0.96928	0.96393	0.99118	1.02047	1.04012	-	-	6 Q	0.00944	1.01112	-0.00366	0.99998	
85	Cl5(115)		1	Y	1.27096	0.91094	1.29944	1.17770	1.32386	1.52691	-	-	6 Q	0.08525	1.25807	-0.01584	0.99988	
86	Cl6(154)		1	Y	0.81521	0.83961	0.84196	0.86954	0.95712	0.95360	-	-	6 Q	-0.00053	0.96036	-0.01567	0.99988	
87	Cl5(85)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
88	Cl5(85)		1	Y	0.75285	0.98023	0.80337	0.91076	0.97593	0.84825	-	-	6 Q	-0.05274	1.02301	-0.01865	0.99973	
89	Cl5(110)		1	Y	1.08897	1.04887	1.16618	1.16531	1.24588	1.32515	-	-	6 Q	0.03241	1.22574	-0.01381	0.99997	
90	Cl4(81)		1	Y	1.06920	1.11597	1.17646	1.21094	1.36577	1.43149	-	-	6 Q	0.02815	1.34994	-0.02655	0.99987	

Calibration Response Factor Report

Batch: 15-0072 Project Test Code: Master 315(S)
 Data Set: DP-15-0093 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0785.M Responses Via Initial Calibration Last Updated 3/12/2015 8:55:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: RR Path: G:\F\DATA\MF0785.M

No:	Analyte:	Type:	Column:	MCO:	1 ID13 F9320.D	2 ID15 F9322.D	3 ID16 F9323.D	4 ID17 F9324.D	5 ID18 F9325.D	6 ID20 F9327.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
91	Cl5(82)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92	Cl5(82)		1	Y	0.70570	0.70792	0.72213	0.73239	0.77348	0.81244	-	-	6	Q	0.01651	0.76160	-0.00621	0.99998
93	Cl6(151)		1	Y	0.75437	0.70448	0.69146	0.72056	0.76512	0.80036	-	-	6	Q	0.01536	0.75333	-0.00686	0.99996
94	Cl6(135)		1	Y	0.75288	0.64536	0.69337	0.69876	0.76789	0.78120	-	-	6	Q	0.00659	0.76356	-0.01096	0.99989
95	Cl4(77)-S2		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	Cl4(77)	P4	1	Y	0.92624	1.14069	1.19740	1.20217	1.34278	1.41851	-	-	6	Q	0.03201	1.32341	-0.02285	0.99990
97	Cl6(144)		1	Y	0.62510	0.74398	0.75819	0.75079	0.82804	0.83321	-	-	6	Q	0.00318	0.82687	-0.01193	0.99989
98	Cl6(149)		1	Y	0.86953	0.74990	0.77526	0.73278	0.82747	0.86344	-	-	6	Q	0.01903	0.80476	-0.00745	0.99985
99	Cl6(139)		1	Y	0.73470	0.69339	0.74552	0.77130	0.82339	0.86636	-	-	6	Q	0.01717	0.81458	-0.01066	0.99996
100	Cl5(124)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
101	Cl5(124)		1	Y	1.14674	1.16924	1.17119	1.19577	1.35382	1.38991	-	-	6	Q	0.01779	1.34044	-0.02390	0.99983
102	Cl6(140)		1	Y	0.71047	0.68451	0.76888	0.77580	0.81255	0.84154	-	-	6	Q	0.01079	0.80968	-0.00879	0.99998
103	Cl5(123)		1	Y	1.06008	1.02885	1.07659	1.08547	1.18195	1.28840	-	-	6	Q	0.04547	1.14700	-0.01276	0.99995
104	Cl6(134)		1	Y	0.62866	0.56666	0.58212	0.59933	0.64911	0.66972	-	-	6	Q	0.00920	0.64279	-0.00814	0.99993
105	Cl7(188)	P7	1	Y	0.72713	0.79308	0.85406	0.81729	0.92573	0.92661	-	-	6	Q	0.00244	0.92363	-0.01513	0.99983
106	Cl5(118)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
107	Cl5(118)-S2		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108	Cl5(118)		1	Y	1.03422	1.00496	1.13463	1.13822	1.27944	1.31756	-	-	6	Q	0.01622	1.27354	-0.02496	0.99986
109	Cl6(131)		1	Y	0.65290	0.67079	0.65609	0.68264	0.75093	0.76893	-	-	6	Q	0.00843	0.74547	-0.01124	0.99989
110	Cl7(184)		1	Y	0.86084	0.75452	0.82936	0.82056	0.87619	0.92687	-	-	6	Q	0.02170	0.85986	-0.00759	0.99996
111	Cl6(146)		1	Y	0.73764	0.70792	0.77293	0.76417	0.86422	0.92511	-	-	6	Q	0.02679	0.84387	-0.01386	0.99988
112	Cl5(114)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
113	Cl5(114)		1	Y	0.88973	1.01183	1.14873	1.12730	1.26554	1.34186	-	-	6	Q	0.03181	1.24734	-0.02266	0.99990
114	Cl6(152)	S	1	Y	1.19370	0.99166	0.98868	0.96432	1.00539	1.02804	-	-	6	Q	0.01277	0.98706	0.00008	0.99998
115	Cl6(153)		1	Y	0.95665	0.80882	0.81520	0.82311	0.88498	0.93392	-	-	6	Q	0.02250	0.86402	-0.00640	0.99995
116	Cl7(179)		1	Y	0.82257	0.75474	0.78801	0.76333	0.83189	0.86645	-	-	6	Q	0.01660	0.81532	-0.00670	0.99993
117	Cl5(105)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
118	Cl5(105)		1	Y	0.96882	0.88411	0.99861	1.02695	1.14367	1.23685	-	-	6	Q	0.03840	1.12051	-0.02081	0.99991
119	Cl6(141)		1	Y	0.54838	0.58442	0.61901	0.66236	0.73480	0.76981	-	-	6	Q	0.01364	0.73100	-0.01567	0.99989
120	Cl7(176)		1	Y	0.78175	0.81206	0.75238	0.75105	0.84911	0.85644	-	-	6	Q	0.00682	0.83814	-0.01071	0.99981

Calibration Response Factor Report

Batch: 15-0072 Project Test Code: Master 315(S)
 Data Set: DP-15-0093 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0785.M Responses Via Initial Calibration Last Updated 3/12/2015 8:55:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: RR Path: G:\F\DATA\MF0785.M

No:	Analyte:	Type:	Column:	MCO:	1 ID13 F9320.D	2 ID15 F9322.D	3 ID16 F9323.D	4 ID17 F9324.D	5 ID18 F9325.D	6 ID20 F9327.D	7 -	8 -	Curve Fit: Levels:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
121	Cl6(127)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
122	Cl5(127)		1	Y	1.04183	1.04992	1.08009	1.16921	1.26149	1.36935	-	-	6	Q	0.04316	1.23766	-0.02013	0.99995
123	Cl6(137)		1	Y	0.67865	0.64092	0.65068	0.67475	0.73779	0.78873	-	-	6	Q	0.02184	0.72167	-0.00967	0.99993
124	Cl6(130)		1	Y	0.57338	0.81327	0.66046	0.68137	0.73992	0.68823	-	-	6	Q	-0.01871	0.75053	-0.00736	0.99980
125	Cl6(164)		1	Y	0.99468	0.87325	0.84681	0.91119	0.96635	1.01112	-	-	6	Q	0.01915	0.95315	-0.01021	0.99994
126	Cl6(138)		1	Y	0.74829	0.87568	0.79872	0.81877	0.89600	0.94390	-	-	6	Q	0.02218	0.87581	-0.00891	0.99991
127	Cl6(163)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128	Cl6(163)		1	Y	0.96274	0.90404	0.84894	0.87567	0.91463	0.96690	-	-	6	Q	0.02354	0.89259	-0.00304	0.99998
129	Cl7(178)		1	Y	0.58170	0.61873	0.57555	0.57922	0.63736	0.64089	-	-	6	Q	0.00358	0.63156	-0.00671	0.99988
130	Cl6(158)		1	Y	1.01901	0.91458	0.95482	0.97686	1.08861	1.09823	-	-	6	Q	0.00569	1.08595	-0.01840	0.99985
131	Cl7(175)		1	Y	0.63472	0.57554	0.55991	0.58261	0.61373	0.68129	-	-	6	Q	0.02878	0.58980	-0.00296	0.99998
132	Cl7(187)		1	Y	0.65095	0.59567	0.64282	0.66084	0.70748	0.73460	-	-	6	Q	0.01101	0.70232	-0.00918	0.99995
133	Cl6(166)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134	Cl6(166)		1	Y	0.84377	0.86608	0.87501	0.89547	0.97528	1.04758	-	-	6	Q	0.03084	0.95211	-0.01158	0.99994
135	Cl7(183)		1	Y	0.53840	0.54461	0.61741	0.61237	0.68058	0.70450	-	-	6	Q	0.01000	0.67629	-0.01187	0.99990
136	Cl5(126)	P5	1	Y	0.78469	0.82093	0.84151	0.90518	0.99641	1.14657	-	-	6	Q	0.06150	0.95400	-0.01577	0.99995
137	Cl6(128)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138	Cl6(128)		1	Y	0.60228	0.58392	0.62439	0.64287	0.69416	0.74674	-	-	6	Q	0.02164	0.68043	-0.00910	0.99996
139	Cl7(185)		1	Y	0.55361	0.52152	0.54625	0.53605	0.59759	0.64207	-	-	6	Q	0.02005	0.58013	-0.00686	0.99990
140	Cl7(174)		1	Y	0.51559	0.51260	0.53054	0.52566	0.60552	0.62646	-	-	6	Q	0.01047	0.59645	-0.01079	0.99980
141	Cl6(167)		1	Y	0.74373	0.76514	0.77893	0.83592	0.93901	1.04481	-	-	6	Q	0.04399	0.90944	-0.01772	0.99990
142	Cl8(202)	P8	1	Y	0.56201	0.58159	0.60085	0.61876	0.68593	0.69609	-	-	6	Q	0.00461	0.68516	-0.01216	0.99988
143	Cl7(177)		1	Y	0.42738	0.48018	0.47741	0.50368	0.55610	0.59456	-	-	6	Q	0.01607	0.54610	-0.00924	0.99991
144	Cl8(201)		1	Y	0.59163	0.58172	0.59859	0.60751	0.67655	0.70175	-	-	6	Q	0.01153	0.66818	-0.01046	0.99988
145	Cl7(171)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146	Cl7(171)		1	Y	0.55141	0.50118	0.54372	0.56034	0.58825	0.63277	-	-	6	Q	0.01784	0.57720	-0.00567	0.99998
147	Cl7(173)		1	Y	0.51202	0.43751	0.46720	0.47291	0.54673	0.55531	-	-	6	Q	0.00495	0.54303	-0.01129	0.99976
148	Cl8(197)		1	Y	0.56274	0.58919	0.56506	0.58017	0.65306	0.69063	-	-	6	Q	0.01733	0.63828	-0.00959	0.99986
149	Cl6(156)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
150	Cl6(156)		1	Y	0.80760	0.69617	0.75897	0.80454	0.89909	1.00231	-	-	6	Q	0.04290	0.87025	-0.01628	0.99991

Calibration Response Factor Report

Batch: 15-0072 **Project Test Code:** Master 315(S)
Data Set: DP-15-0093 **SOP_NO:** 5-315-10
Project Number: 100043429 **Project Name:** USACE/NAE New Bedford Harbor Task Order 10

File: MF0785.M **Responses Via** Initial Calibration **Last Updated** 3/12/2015 8:55:00 AM **Title:** PCB-QNF NBH
Instrument: Inst. F **Operator:** RR **Path:** G:\F\DATA\MF0785.M

No:	Analyte:	Type:	Column: MGO:	1 ID13 F9320.D	2 ID15 F9322.D	3 ID16 F9323.D	4 ID17 F9324.D	5 ID18 F9325.D	6 ID20 F9327.D	7 -	8 -	Curve Fit: Levels:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
151	Cl7(172)		1 Y	0.49278	0.47816	0.47857	0.51705	0.57600	0.61695	-	-	6 Q	0.01721	0.56534	-0.01072	0.99988	
152	Cl6(157)		1 Y	0.75440	0.70722	0.76677	0.83487	0.95384	0.98323	-	-	6 Q	0.01149	0.95436	-0.02531	0.99980	
153	Cl7(180)		1 Y	0.63878	0.57339	0.56564	0.59363	0.66177	0.72286	-	-	6 Q	0.02677	0.64019	-0.00922	0.99990	
154	Cl7(193)-S1		1 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-
155	Cl7(193)		1 Y	0.63472	0.60500	0.68526	0.70003	0.76602	0.81459	-	-	6 Q	0.01948	0.75610	-0.01280	0.99993	
156	Cl8(200)		1 Y	0.60989	0.54421	0.57844	0.61322	0.67461	0.69024	-	-	6 Q	0.00636	0.67395	-0.01264	0.99988	
157	Cl7(191)		1 Y	0.60746	0.70268	0.69626	0.71369	0.82014	0.88140	-	-	6 Q	0.02694	0.79982	-0.01545	0.99984	
158	Cl7(170)-S1		1 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-
159	Cl7(170)		1 Y	0.45294	0.43748	0.41908	0.43625	0.48316	0.57419	-	-	6 Q	0.03885	0.45060	-0.00415	0.99995	
160	Cl8(198)		1 Y	0.35448	0.31400	0.33065	0.44127	0.49426	0.54104	-	-	6 Q	0.01654	0.49357	-0.01784	0.99976	
161	Cl8(199)		1 Y	0.40152	0.30027	0.38821	0.36994	0.40189	0.43073	-	-	6 Q	0.01200	0.39385	-0.00475	0.99992	
162	Cl7(190)		1 Y	0.58322	0.59653	0.66710	0.68010	0.76993	0.83500	-	-	6 Q	0.02693	0.75340	-0.01540	0.99989	
163	Cl6(169)-S2		1 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-
164	Cl6(169)	P6	1 Y	0.58928	0.53599	0.60510	0.66406	0.76437	0.88329	-	-	6 Q	0.04834	0.73403	-0.01901	0.99987	
165	Cl8(203)		1 Y	0.45627	0.41130	0.44192	0.46893	0.50682	0.55184	-	-	6 Q	0.01826	0.49583	-0.00758	0.99995	
166	Cl9(208)	P9	1 Y	0.36054	0.38706	0.44750	0.44771	0.49036	0.57046	-	-	6 Q	0.03263	0.46771	-0.00656	0.99997	
167	Cl7(189)	P7	1 Y	0.46236	0.44088	0.50010	0.52923	0.60870	0.75337	-	-	6 Q	0.05988	0.56554	-0.01187	0.99993	
168	Cl9(207)		1 Y	0.49734	0.45628	0.47547	0.49192	0.58510	0.61668	-	-	6 Q	0.01468	0.57428	-0.01415	0.99971	
169	Cl8(195)-S1		1 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-
170	Cl8(195)		1 Y	0.39240	0.36033	0.41240	0.41163	0.44589	0.47025	-	-	6 Q	0.00994	0.44031	-0.00610	0.99994	
171	Cl8(194)		1 Y	0.34221	0.28147	0.31583	0.31837	0.37572	0.45338	-	-	6 Q	0.03320	0.34906	-0.00663	0.99987	
172	Cl8(205)	P8	1 Y	0.42586	0.38698	0.44309	0.44542	0.51566	0.59166	-	-	6 Q	0.03222	0.49172	-0.00978	0.99988	
173	Cl9(206)	P9	1 Y	0.28137	0.25529	0.28583	0.28723	0.31665	0.38255	-	-	6 Q	0.02757	0.29535	-0.00320	0.99997	
174	Cl10(209)		1 Y	0.33612	0.27662	0.31912	0.30307	0.34369	0.40162	-	-	6 Q	0.02505	0.32241	-0.00343	0.99991	

Calibration Response Factor Report

Batch: 15-0072 **Project Test Code:** Master 315(S)
Data Set: DP-15-0093 **SOP_NO:** 5-315-10
Project Number: 100043429 **Project Name:** USACE/NAE New Bedford Harbor Task Order 10

File: MF0785.M **Responses Via** Initial Calibration **Last Updated** 3/12/2015 8:55:00 AM **Title:** PCB-QNF NBH
Instrument: Inst. F **Operator:** RR **Path:** G:\F\DATA\MF0785.M

No:	Analyte:	Type:	Column:	MQO:	1	2	3	4	5	6	7	8	Curve Fit:	Levels:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
					ID13	ID15	ID16	ID17	ID18	ID20	-	-							
					F9320.D	F9322.D	F9323.D	F9324.D	F9325.D	F9327.D	-	-							

MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.

Mean RSD: -
Count RSD: -

Calibration Curve Definitions:

Curve Fit:	Name:	Description:	Evaluate:
L	Linear	y = Bx + C	r-squared
RF	Average RF	y = Bx	RSD
L0	Linear (0,0)	y = Bx + 0	r-squared
Q	Quadratic	y = Ax^2 + Bx + C	r-squared
Q0	Quadratic (0,0)	y = Ax^2 + Bx + 0	r-squared

Calibration Curve Acceptance Criteria:

Curve Fit:	Limit Mean(%):	Mean Qual:	Limit Ind.:	Ind. Qual:	Min Points:	Points Qual:	Comments:
Linear	NA	NA	0.995	N	5	N	y = Bx + C
Average RF	15	N	25	N	5	N	y = Bx
Linear (0,0)	NA	NA	0.995	N	5	N	y = Bx + 0
Quadratic	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + C
Quadratic (0,0)	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + 0

Calibration Response Factor Report

Batch: 15-0072 **Project Test Code:** Master 315(S) **RFs Validate** 3/25/2015 EF
Data Set: DP-15-0093 **SOP_NO:** 5-315-10
Project Number: 100043429 **Project Name:** USACE/NAE New Bedford Harbor Task Order 10

File: MF0787.M **Responses Via** Initial Calibration **Last Updated** 3/18/2015 11:21:00 AM **Title:** PCB-QNF NBH
Instrument: Inst. F **Operator:** DMS **Path:** G:\F\DATA\MF0787.M

No:	Analyte:	Type:	Column:	MCO:	1 ID13 F9408.D	2 ID15 F9410.D	3 ID16 F9411.D	4 ID18 F9413.D	5 ID19 F9414.D	6 ID20 F9415.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
1	Cl5(96)	i	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Biphenyl		1	-	3.70990	3.22418	3.23882	3.16089	3.15625	2.62950	-	-	6 Q	-0.29990	3.60836	-0.04628	0.99953	
3	Cl1(1)	P1	1	Y	2.10488	1.93598	2.00011	1.99084	2.02632	1.73300	-	-	6 Q	-0.16412	2.27398	-0.03844	0.99948	
4	Cl1(3)	P1	1	Y	1.96926	1.87566	1.93951	1.94561	2.00137	1.77481	-	-	6 Q	-0.12411	2.18624	-0.03607	0.99958	
5	Cl2(4)	P2	1	Y	0.93312	0.85727	0.87654	0.85514	0.88895	0.79851	-	-	6 Q	-0.04726	0.95558	-0.01276	0.99953	
6	Cl2(7)		1	Y	1.49760	1.21673	1.22356	1.31260	1.26064	1.17103	-	-	6 Q	-0.05864	1.36253	-0.01013	0.99995	
7	Cl2(9)		1	Y	1.41611	1.53548	1.63936	1.48188	1.60883	1.50444	-	-	6 Q	-0.04291	1.65056	-0.01834	0.99930	
8	Cl2(6)		1	Y	1.48631	1.38643	1.41998	1.41436	1.46208	1.29974	-	-	6 Q	-0.08732	1.58982	-0.02498	0.99954	
9	Cl2(5)		1	Y	1.34849	1.33085	1.37533	1.35167	1.39782	1.28516	-	-	6 Q	-0.05916	1.48205	-0.01847	0.99970	
10	Cl2(8)		1	Y	1.52270	1.49093	1.51096	1.49377	1.52139	1.37113	-	-	6 Q	-0.08259	1.64391	-0.01962	0.99974	
11	Cl3(19)	P3	1	Y	0.74095	0.64873	0.66614	0.66076	0.67276	0.63027	-	-	6 Q	-0.02276	0.70549	-0.00576	0.99986	
12	Cl3(30)		1	Y	1.07320	1.01148	1.04816	1.06523	1.05090	1.01576	-	-	6 Q	-0.02252	1.08958	-0.00495	1.00000	
13	Cl2(11)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Cl2(11)		1	Y	1.37862	1.35609	1.37232	1.38600	1.42286	1.37932	-	-	6 Q	-0.02097	1.45143	-0.01208	0.99991	
15	Cl3(18)		1	Y	0.80682	0.74536	0.74651	0.75564	0.76792	0.74756	-	-	6 Q	-0.01018	0.78210	-0.00444	0.99995	
16	Cl3(17)		1	Y	0.80792	0.75637	0.76566	0.75891	0.76937	0.73828	-	-	6 Q	-0.01633	0.79251	-0.00416	0.99994	
17	Cl2(12)		1	Y	1.32056	1.26228	1.36524	1.37994	1.38123	1.33361	-	-	6 Q	-0.02869	1.42940	-0.01139	0.99998	
18	Cl2(13)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Cl2(13)		1	Y	1.32042	1.22761	1.26573	1.31151	1.30721	1.26586	-	-	6 Q	-0.02539	1.35085	-0.00994	0.99999	
20	Cl3(27)		1	Y	1.02506	1.00977	1.05488	1.04574	1.07171	1.02251	-	-	6 Q	-0.02548	1.10809	-0.01013	0.99989	
21	Cl3(24)		1	Y	0.98986	0.97877	1.01249	1.01571	1.01074	0.97530	-	-	6 Q	-0.02135	1.04573	-0.00517	0.99999	
22	Cl3(16)		1	Y	0.59084	0.55662	0.57282	0.58898	0.58156	0.56576	-	-	6 Q	-0.01039	0.60007	-0.00294	0.99999	
23	Cl2(15)	P2	1	Y	3.17933	1.93913	1.77000	1.58612	1.57666	1.52256	-	-	6 Q	-0.02144	1.58090	0.03593	0.99997	
24	Cl3(32)		1	Y	1.04343	1.00480	1.06074	1.05371	1.06666	1.04060	-	-	6 Q	-0.01386	1.08733	-0.00620	0.99997	
25	Cl4(54)	P4	1	Y	1.26844	1.02185	1.05072	1.03160	1.02455	0.99531	-	-	6 Q	-0.01667	1.04876	0.00092	0.99999	
26	Cl3(34)-S1	S	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Cl3(34)	S	1	Y	1.03866	0.98872	1.04297	1.04380	1.04347	1.03119	-	-	6 Q	-0.00766	1.05686	-0.00346	1.00000	
28	Cl3(29)		1	Y	1.07026	1.01497	1.04819	1.07893	1.06909	1.04365	-	-	6 Q	-0.01673	1.09912	-0.00586	0.99999	
29	Cl3(26)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	Cl3(26)		1	Y	1.16068	1.09776	1.13882	1.17053	1.16806	1.12683	-	-	6 Q	-0.02500	1.21008	-0.00906	0.99998	

Calibration Response Factor Report

Batch: 15-0072 Project Test Code: Master 315(S)
 Data Set: DP-15-0093 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0787.M Responses Via Initial Calibration Last Updated 3/18/2015 11:21:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: DMS Path: G:\F\DATA\MF0787.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9408.D	2 ID15 F9410.D	3 ID16 F9411.D	4 ID18 F9413.D	5 ID19 F9414.D	6 ID20 F9415.D	7 -	8 -	Curve Fit: Levels:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
31	Cl4(50)		1	Y	0.78266	0.74319	0.73225	0.75268	0.76315	0.73603	-	-	6 Q	-0.01445	0.78472	-0.00585	0.99994	
32	Cl3(25)		1	Y	1.07835	1.03952	1.05625	1.06028	1.09337	1.06560	-	-	6 Q	-0.01216	1.10802	-0.00855	0.99991	
33	Cl3(31)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	Cl3(31)		1	Y	1.13189	1.07810	1.11965	1.17977	1.15370	1.13281	-	-	6 Q	-0.01678	1.18859	-0.00673	0.99998	
35	Cl4(53)		1	Y	0.77387	0.74561	0.76040	0.76637	0.76076	0.74534	-	-	6 Q	-0.00974	0.77727	-0.00203	1.00000	
36	Cl3(28)		1	Y	1.13495	1.13189	1.09313	1.11661	1.15632	1.12831	-	-	6 Q	-0.01133	1.16848	-0.00937	0.99989	
37	Cl3(33)		1	Y	0.97924	0.99947	1.06302	1.07192	1.08212	1.05313	-	-	6 Q	-0.01648	1.10923	-0.00888	0.99998	
38	Cl4(51)		1	Y	0.82256	0.76840	0.75765	0.79071	0.79036	0.75681	-	-	6 Q	-0.01966	0.82227	-0.00632	0.99997	
39	Cl4(45)		1	Y	0.64245	0.64757	0.64282	0.65699	0.66485	0.63966	-	-	6 Q	-0.01380	0.68586	-0.00531	0.99995	
40	Cl3(22)		1	Y	1.00743	1.00663	1.03904	1.09189	1.05316	1.01869	-	-	6 Q	-0.02598	1.10358	-0.00583	0.99996	
41	Cl4(46)		1	Y	0.61244	0.57855	0.58476	0.59594	0.59969	0.57686	-	-	6 Q	-0.01283	0.61970	-0.00428	0.99996	
42	Cl4(43)		1	Y	0.64907	0.59135	0.52153	0.58927	0.61042	0.59929	-	-	6 Q	-0.00427	0.61592	-0.00769	0.99984	
43	Cl4(52)		1	Y	0.73176	0.81586	0.76014	0.81545	0.80804	0.79400	-	-	6 Q	-0.00976	0.82678	-0.00484	0.99998	
44	Cl4(48)		1	Y	0.62665	0.64304	0.69715	0.65759	0.69192	0.75018	-	-	6 Q	0.03772	0.62843	0.00346	0.99997	
45	Cl4(49)		1	Y	0.61415	0.83693	0.77845	0.73886	0.81781	0.71629	-	-	6 Q	-0.04792	0.87745	-0.01766	0.99844	
46	Cl5(104)	P5	1	Y	0.99161	0.92335	1.00410	1.02331	1.02041	0.98953	-	-	6 Q	-0.01936	1.05426	-0.00827	0.99999	
47	Cl4(47)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	Cl4(47)		1	Y	0.81519	0.79208	0.84083	0.82302	0.84919	0.79602	-	-	6 Q	-0.02756	0.88817	-0.00975	0.99979	
49	Cl4(75)		1	Y	1.01804	1.03874	1.06873	1.08412	1.07478	1.04405	-	-	6 Q	-0.01952	1.10856	-0.00550	1.00000	
50	Cl4(44)		1	Y	0.68692	0.67946	0.68062	0.68953	0.70455	0.68763	-	-	6 Q	-0.00811	0.71554	-0.00494	0.99994	
51	Cl4(42)		1	Y	0.71604	0.61146	0.68384	0.68654	0.68862	0.68005	-	-	6 Q	-0.00531	0.69841	-0.00388	0.99999	
52	Cl4(71)		1	Y	0.95780	0.91687	0.95847	0.99790	1.01344	0.98755	-	-	6 Q	-0.01431	1.03726	-0.01090	0.99996	
53	Cl4(41)		1	Y	0.59872	0.63007	0.59790	0.60294	0.59522	0.62723	-	-	6 Q	0.01766	0.56863	0.00533	0.99993	
54	Cl4(64)		1	Y	1.04623	0.95824	1.08523	1.03860	1.06554	1.04783	-	-	6 Q	-0.00722	1.07340	-0.00573	0.99993	
55	Cl4(40)		1	Y	0.50628	0.52531	0.48189	0.57836	0.56577	0.56746	-	-	6 Q	-0.00222	0.57650	-0.00675	0.99988	
56	Cl3(37)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
57	Cl3(37)	J1	1	Y	1.10775	0.96740	1.02045	1.08987	1.08827	1.08774	-	-	6 Q	-0.00229	1.09772	-0.00843	0.99998	
58	Cl5(100)		1	Y	0.76985	0.78229	0.78062	0.80818	0.80688	0.79780	-	-	6 Q	-0.00600	0.81834	-0.00391	1.00000	
59	Cl4(67)		1	Y	1.02829	0.97673	0.99956	1.04020	1.04820	1.04429	-	-	6 Q	-0.00232	1.05398	-0.00653	0.99999	
60	Cl4(63)		1	Y	0.96111	0.94973	0.97193	0.99633	1.00457	0.99998	-	-	6 Q	-0.00246	1.00966	-0.00524	0.99999	

Calibration Response Factor Report

Batch: 15-0072 Project Test Code: Master 315(S)
 Data Set: DP-15-0093 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0787.M Responses Via Initial Calibration Last Updated 3/18/2015 11:21:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: DMS Path: G:\F\DATA\MF0787.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9408.D	2 ID15 F9410.D	3 ID16 F9411.D	4 ID18 F9413.D	5 ID19 F9414.D	6 ID20 F9415.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
61	Cl5(95)		1	Y	0.66781	0.64047	0.67000	0.68502	0.70839	0.69890	-	-	6 Q	-0.00328	0.71210	-0.00704	0.99992	
62	Cl4(74)		1	Y	0.89973	0.99618	1.02125	1.07812	1.09496	1.05018	-	-	6 Q	-0.02565	1.13788	-0.01575	0.99994	
63	Cl4(70)		1	Y	0.97192	1.01760	1.03704	1.06010	1.07599	1.03221	-	-	6 Q	-0.02408	1.11370	-0.01109	0.99994	
64	Cl5(91)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
65	Cl5(91)		1	Y	0.58937	0.72884	0.74182	0.78860	0.78945	0.77764	-	-	6 Q	-0.00835	0.80729	-0.00862	0.99999	
66	Cl4(66)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
67	Cl4(66)-S2		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
68	Cl4(66)		1	Y	0.92950	0.94618	1.00845	1.03629	1.03872	1.03379	-	-	6 Q	-0.00405	1.04900	-0.00701	1.00000	
69	Cl6(155)	P6	1	Y	0.89797	0.93108	0.95062	0.97883	0.97854	0.96070	-	-	6 Q	-0.01125	0.99897	-0.00633	0.99999	
70	Cl4(80)		1	Y	0.98693	0.94465	0.98557	1.01376	1.01912	1.01449	-	-	6 Q	-0.00304	1.02621	-0.00584	0.99999	
71	Cl5(92)		1	Y	0.66405	0.66251	0.74486	0.66136	0.74887	0.71903	-	-	6 Q	-0.00579	0.74259	-0.01028	0.99899	
72	Cl5(84)		1	Y	0.51946	0.54405	0.56578	0.64708	0.61229	0.60928	-	-	6 Q	-0.00810	0.63647	-0.00566	0.99978	
73	Cl4(56)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
74	Cl4(56)		1	Y	0.95508	0.92896	0.99647	1.02470	1.03995	1.01507	-	-	6 Q	-0.01385	1.06344	-0.01093	0.99996	
75	Cl4(60)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
76	Cl4(60)		1	Y	0.94886	0.93055	0.98456	1.01464	1.02268	1.00315	-	-	6 Q	-0.01154	1.04333	-0.00897	0.99998	
77	Cl5(101)		1	Y	0.82365	0.75744	0.81888	0.81906	0.84845	0.83114	-	-	6 Q	-0.00700	0.85677	-0.00824	0.99990	
78	Cl6(161)	i	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
79	Cl5(99)		1	Y	1.04341	0.97687	0.99258	1.03193	1.07105	1.01723	-	-	6 Q	-0.02704	1.11007	-0.01587	0.99979	
80	Cl5(83)		1	Y	0.66835	0.70415	0.68706	0.73738	0.76419	0.71513	-	-	6 Q	-0.02600	0.80374	-0.01430	0.99975	
81	Cl5(125)		1	Y	1.01600	1.10333	1.13604	1.15809	1.20587	1.17828	-	-	6 Q	-0.01134	1.22020	-0.01456	0.99988	
82	Cl5(97)		1	Y	0.77398	0.80077	0.81829	0.87103	0.91964	0.84701	-	-	6 Q	-0.03726	0.97504	-0.02187	0.99953	
83	Cl5(87)		1	Y	0.86734	0.82960	0.84334	0.88438	0.91138	0.87753	-	-	6 Q	-0.01724	0.93717	-0.01225	0.99988	
84	Cl6(136)		1	Y	1.18137	0.97089	0.99255	1.00368	1.04438	1.01026	-	-	6 Q	-0.01452	1.06080	-0.00956	0.99983	
85	Cl5(115)		1	Y	1.22990	0.99929	1.08179	1.18300	1.33144	1.23548	-	-	6 Q	-0.03973	1.38038	-0.04407	0.99881	
86	Cl6(154)		1	Y	0.85245	0.84088	0.85751	0.91469	0.94910	0.91330	-	-	6 Q	-0.01791	0.97647	-0.01569	0.99984	
87	Cl5(85)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
88	Cl5(85)		1	Y	0.89768	0.86159	1.00493	1.00417	0.92636	0.94428	-	-	6 Q	-0.00080	0.94320	0.00653	0.99953	
89	Cl5(110)		1	Y	1.20330	1.18235	1.24580	1.26257	1.31947	1.27702	-	-	6 Q	-0.01868	1.34361	-0.01727	0.99983	
90	Cl4(81)		1	Y	1.15671	1.12272	1.17283	1.22857	1.25406	1.23697	-	-	6 Q	-0.00857	1.26922	-0.01352	0.99996	

Calibration Response Factor Report

Batch: 15-0072 Project Test Code: Master 315(S)
 Data Set: DP-15-0093 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0787.M Responses Via Initial Calibration Last Updated 3/18/2015 11:21:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: DMS Path: G:\F\DATA\MF0787.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9408.D	2 ID15 F9410.D	3 ID16 F9411.D	4 ID18 F9413.D	5 ID19 F9414.D	6 ID20 F9415.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
91	Cl5(82)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92	Cl5(82)		1	Y	0.92326	0.79604	0.79653	0.81881	0.85794	0.78600	-	-	6 Q	-0.03670	0.90942	-0.01471	0.99955	
93	Cl6(151)		1	Y	0.76977	0.74233	0.74861	0.79408	0.80019	0.76681	-	-	6 Q	-0.01942	0.83251	-0.00960	0.99995	
94	Cl6(135)		1	Y	0.71710	0.72285	0.70571	0.72965	0.78996	0.75783	-	-	6 Q	-0.01150	0.80049	-0.01389	0.99951	
95	Cl4(77)-S2		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	Cl4(77)	P4	1	Y	1.05666	1.12029	1.13678	1.18812	1.23217	1.22850	-	-	6 Q	0.00158	1.22848	-0.01351	0.99994	
97	Cl6(144)		1	Y	0.76748	0.76188	0.76728	0.79665	0.82520	0.79608	-	-	6 Q	-0.01402	0.84505	-0.01064	0.99986	
98	Cl6(149)		1	Y	0.85088	0.76499	0.79616	0.83864	0.87016	0.85314	-	-	6 Q	-0.00705	0.88010	-0.01153	0.99989	
99	Cl6(139)		1	Y	0.74622	0.73712	0.75507	0.81579	0.86594	0.84680	-	-	6 Q	-0.00653	0.87399	-0.01652	0.99976	
100	Cl5(124)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
101	Cl5(124)		1	Y	1.25539	1.21427	1.19765	1.29819	1.35481	1.31858	-	-	6 Q	-0.01587	1.37773	-0.02175	0.99983	
102	Cl6(140)		1	Y	0.82722	0.77838	0.79182	0.78330	0.83360	0.82686	-	-	6 Q	0.00235	0.82243	-0.00695	0.99979	
103	Cl5(123)		1	Y	1.22112	1.16954	1.18314	1.25096	1.30171	1.28239	-	-	6 Q	-0.00655	1.30965	-0.01669	0.99989	
104	Cl6(134)		1	Y	0.63247	0.63682	0.62941	0.66020	0.67148	0.66126	-	-	6 Q	-0.00511	0.67979	-0.00579	0.99997	
105	Cl7(188)	P7	1	Y	0.96236	0.85630	0.85097	0.90907	0.93069	0.89727	-	-	6 Q	-0.01742	0.95763	-0.01181	0.99989	
106	Cl5(118)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
107	Cl5(118)-S2		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108	Cl5(118)		1	Y	1.26863	1.15192	1.23915	1.29531	1.33426	1.29797	-	-	6 Q	-0.01816	1.36298	-0.01852	0.99990	
109	Cl6(131)		1	Y	0.63611	0.69377	0.69120	0.72098	0.76694	0.74894	-	-	6 Q	-0.00563	0.77180	-0.01215	0.99975	
110	Cl7(184)		1	Y	0.83190	0.85311	0.87287	0.90572	0.92619	0.91045	-	-	6 Q	-0.00766	0.93839	-0.00933	0.99995	
111	Cl6(146)		1	Y	0.70444	0.75880	0.82662	0.87109	0.94008	0.91523	-	-	6 Q	-0.00808	0.94904	-0.02092	0.99965	
112	Cl5(114)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
113	Cl5(114)		1	Y	1.14117	1.20711	1.25152	1.25514	1.28970	1.25095	-	-	6 Q	-0.01900	1.31654	-0.01232	0.99992	
114	Cl6(152)	S	1	Y	1.03880	0.99457	1.00220	1.01567	1.03701	0.99895	-	-	6 Q	-0.01947	1.06495	-0.00867	0.99992	
115	Cl6(153)		1	Y	0.88809	0.84881	0.87797	0.90879	0.94135	0.92204	-	-	6 Q	-0.00813	0.95226	-0.01100	0.99990	
116	Cl7(179)		1	Y	0.78399	0.81503	0.80129	0.85451	0.86118	0.85398	-	-	6 Q	-0.00445	0.87074	-0.00723	0.99998	
117	Cl5(105)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
118	Cl5(105)		1	Y	1.11011	1.10971	1.12062	1.17904	1.23086	1.22417	-	-	6 Q	0.00091	1.22687	-0.01480	0.99990	
119	Cl6(141)		1	Y	0.68207	0.69421	0.72271	0.76476	0.78591	0.76965	-	-	6 Q	-0.00814	0.79969	-0.01084	0.99993	
120	Cl7(176)		1	Y	0.82870	0.78304	0.80461	0.83752	0.83923	0.83598	-	-	6 Q	-0.00254	0.84565	-0.00473	0.99999	

Calibration Response Factor Report

Batch: 15-0072 Project Test Code: Master 315(S)
 Data Set: DP-15-0093 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0787.M Responses Via Initial Calibration Last Updated 3/18/2015 11:21:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: DMS Path: G:\F\DATA\MF0787.M

No:	Analyte:	Type:	Column:	MQO:	1 ID13 F9408.D	2 ID15 F9410.D	3 ID16 F9411.D	4 ID18 F9413.D	5 ID19 F9414.D	6 ID20 F9415.D	7	8	Curve Fit:	(A)	(B)	(C)	Stat (r^2/RSR):	Qual:
121	Cl6(127)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
122	Cl5(127)		1	Y	1.26817	1.24072	1.26651	1.29569	1.32311	1.31781	-	-	6 Q	-0.00066	1.32312	-0.00849	0.99997	
123	Cl6(137)		1	Y	0.77444	0.74326	0.73531	0.77000	0.79871	0.78100	-	-	6 Q	-0.00727	0.80788	-0.00909	0.99988	
124	Cl6(130)		1	Y	0.71769	0.58417	0.61199	0.65774	0.66807	0.64993	-	-	6 Q	-0.01013	0.68534	-0.00839	0.99993	
125	Cl6(164)		1	Y	0.91047	1.01816	1.03721	1.04231	1.11086	0.97513	-	-	6 Q	-0.07047	1.21162	-0.02741	0.99911	
126	Cl6(138)		1	Y	0.69348	0.66768	0.70715	0.75757	0.75501	0.88027	-	-	6 Q	0.07006	0.65256	0.00748	0.99972	
127	Cl6(163)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128	Cl6(163)		1	Y	1.04524	1.03127	0.93034	1.04848	1.16210	1.00244	-	-	6 Q	-0.07937	1.27304	-0.04178	0.99820	
129	Cl7(178)		1	Y	0.65568	0.56735	0.58413	0.61548	0.62813	0.62634	-	-	6 Q	-0.00014	0.62868	-0.00526	0.99997	
130	Cl6(158)		1	Y	1.03108	1.06498	1.03476	1.03592	1.12395	1.09503	-	-	6 Q	-0.00578	1.11989	-0.01451	0.99957	
131	Cl7(175)		1	Y	0.64612	0.63298	0.61760	0.65826	0.66704	0.65947	-	-	6 Q	-0.00396	0.67419	-0.00566	0.99997	
132	Cl7(187)		1	Y	0.68845	0.67297	0.69089	0.70170	0.73796	0.72129	-	-	6 Q	-0.00565	0.74290	-0.00876	0.99982	
133	Cl6(166)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134	Cl6(166)		1	Y	1.01468	0.98525	0.97925	1.04949	1.08201	1.05231	-	-	6 Q	-0.01450	1.10448	-0.01499	0.99989	
135	Cl7(183)		1	Y	0.66378	0.65909	0.65415	0.68765	0.71025	0.70540	-	-	6 Q	-0.00075	0.71047	-0.00704	0.99994	
136	Cl5(126)	P5	1	Y	1.01059	1.04219	1.05113	1.10511	1.14653	1.16112	-	-	6 Q	0.01185	1.12699	-0.01073	0.99996	
137	Cl6(128)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138	Cl6(128)		1	Y	0.71221	0.68817	0.68552	0.74183	0.76363	0.75927	-	-	6 Q	-0.00105	0.76597	-0.00926	0.99994	
139	Cl7(185)		1	Y	0.54318	0.56764	0.58237	0.61802	0.63774	0.62924	-	-	6 Q	-0.00360	0.64385	-0.00851	0.99993	
140	Cl7(174)		1	Y	0.57698	0.57183	0.57047	0.62298	0.62930	0.61626	-	-	6 Q	-0.00789	0.64424	-0.00794	0.99996	
141	Cl6(167)		1	Y	0.94062	0.89924	0.98770	1.04317	1.09153	1.07089	-	-	6 Q	-0.00831	1.10444	-0.01880	0.99986	
142	Cl8(202)	P8	1	Y	0.64021	0.62914	0.64810	0.66945	0.67834	0.66868	-	-	6 Q	-0.00516	0.68719	-0.00544	0.99998	
143	Cl7(177)		1	Y	0.56876	0.52687	0.56292	0.57035	0.59764	0.58867	-	-	6 Q	-0.00238	0.59898	-0.00686	0.99986	
144	Cl8(201)		1	Y	0.58064	0.62970	0.63145	0.66839	0.69346	0.67520	-	-	6 Q	-0.00850	0.70620	-0.01014	0.99988	
145	Cl7(171)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146	Cl7(171)		1	Y	0.61472	0.56021	0.56022	0.59704	0.65834	0.63824	-	-	6 Q	-0.00481	0.65944	-0.01427	0.99940	
147	Cl7(173)		1	Y	0.53237	0.48713	0.51291	0.52973	0.55940	0.54267	-	-	6 Q	-0.00659	0.56719	-0.00860	0.99977	
148	Cl8(197)		1	Y	0.65921	0.63198	0.62236	0.65692	0.67969	0.66513	-	-	6 Q	-0.00619	0.68795	-0.00783	0.99989	
149	Cl6(156)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
150	Cl6(156)		1	Y	0.99133	0.96053	0.95708	1.02258	1.06191	1.05573	-	-	6 Q	-0.00016	1.06103	-0.01278	0.99991	

Calibration Response Factor Report

Batch: 15-0072 Project Test Code: Master 315(S)
 Data Set: DP-15-0093 SOP_NO: 5-315-10
 Project Number: 100043429 Project Name: USACE/NAE New Bedford Harbor Task Order 10

File: MF0787.M Responses Via Initial Calibration Last Updated 3/18/2015 11:21:00 AM Title: PCB-QNF NBH
 Instrument: Inst. F Operator: DMS Path: G:\F\DATA\MF0787.M

No:	Analyte:	Type:	Column:	MCO:	1 ID13 F9408.D	2 ID15 F9410.D	3 ID16 F9411.D	4 ID18 F9413.D	5 ID19 F9414.D	6 ID20 F9415.D	7 -	8 -	Curve Fit: Levels:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
151	Cl7(172)		1	Y	0.52125	0.53943	0.54532	0.60079	0.62506	0.61388	-	-	6 Q	-0.00491	0.63360	-0.01112	0.99988	
152	Cl6(157)		1	Y	0.93233	0.90204	0.91968	0.99561	1.02610	1.01172	-	-	6 Q	-0.00642	1.03763	-0.01469	0.99992	
153	Cl7(180)		1	Y	0.64414	0.56951	0.58222	0.62242	0.64810	0.62831	-	-	6 Q	-0.00911	0.66124	-0.00999	0.99983	
154	Cl7(193)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
155	Cl7(193)		1	Y	0.78126	0.83182	0.83736	0.85024	0.82207	0.91009	-	-	6 Q	0.04645	0.75589	0.01174	0.99969	
156	Cl8(200)		1	Y	0.61810	0.61513	0.62517	0.65514	0.67876	0.66082	-	-	6 Q	-0.00827	0.69069	-0.00900	0.99988	
157	Cl7(191)		1	Y	0.80083	0.76828	0.80744	0.87730	0.89871	0.88429	-	-	6 Q	-0.00767	0.91374	-0.01374	0.99994	
158	Cl7(170)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
159	Cl7(170)		1	Y	0.59652	0.55659	0.57382	0.60627	0.63218	0.62096	-	-	6 Q	-0.00414	0.63758	-0.00882	0.99987	
160	Cl8(198)		1	Y	0.47595	0.48867	0.40160	0.42565	0.44214	0.54976	-	-	6 Q	0.06411	0.33966	0.01129	0.99978	
161	Cl8(199)		1	Y	0.28415	0.38012	0.48274	0.59461	0.52898	0.39886	-	-	6 Q	-0.08686	0.68416	-0.02362	0.99966	
162	Cl7(190)		1	Y	0.72165	0.77377	0.77863	0.84456	0.85767	0.83951	-	-	6 Q	-0.01056	0.87751	-0.01185	0.99996	
163	Cl6(169)-S2		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
164	Cl6(169)	P6	1	Y	0.73439	0.80636	0.84609	0.89289	0.94615	0.93153	-	-	6 Q	-0.00382	0.95009	-0.01677	0.99981	
165	Cl8(203)		1	Y	0.48562	0.46991	0.47971	0.51488	0.54629	0.53888	-	-	6 Q	-0.00136	0.54677	-0.00930	0.99979	
166	Cl9(208)	P9	1	Y	0.52099	0.51907	0.53600	0.55623	0.58043	0.56160	-	-	6 Q	-0.00855	0.59231	-0.00849	0.99983	
167	Cl7(189)	P7	1	Y	0.70261	0.72563	0.68748	0.79072	0.82789	0.81545	-	-	6 Q	-0.00460	0.83607	-0.01622	0.99983	
168	Cl9(207)		1	Y	0.54912	0.55232	0.54021	0.59379	0.61222	0.59663	-	-	6 Q	-0.00781	0.62512	-0.00961	0.99989	
169	Cl8(195)-S1		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
170	Cl8(195)		1	Y	0.45181	0.42290	0.42957	0.45721	0.48415	0.47336	-	-	6 Q	-0.00357	0.48789	-0.00798	0.99977	
171	Cl8(194)		1	Y	0.45090	0.43785	0.44474	0.46541	0.47784	0.48711	-	-	6 Q	0.00629	0.46806	-0.00311	0.99999	
172	Cl8(205)	P8	1	Y	0.60394	0.56081	0.56770	0.59940	0.62931	0.63036	-	-	6 Q	0.00353	0.62189	-0.00734	0.99989	
173	Cl9(206)	P9	1	Y	0.37780	0.38111	0.37189	0.39608	0.40439	0.41585	-	-	6 Q	0.00714	0.39370	-0.00208	0.99999	
174	Cl10(209)		1	Y	0.48013	0.44126	0.43822	0.45571	0.45280	0.46255	-	-	6 Q	0.00502	0.44630	0.00014	0.99998	

Calibration Response Factor Report

Batch: 15-0072 **Project Test Code:** Master 315(S)
Data Set: DP-15-0093 **SOP_NO:** 5-315-10
Project Number: 100043429 **Project Name:** USACE/NAE New Bedford Harbor Task Order 10

File: MF0787.M **Responses Via** Initial Calibration **Last Updated** 3/18/2015 11:21:00 AM **Title:** PCB-QNF NBH
Instrument: Inst. F **Operator:** DMS **Path:** G:\F\DATA\MF0787.M

No:	Analyte:	Type:	Column:	MQO:	1	2	3	4	5	6	7	8	Curve Fit:	Levels:	(A)	(B)	(C)	Stat (r^2/RSD):	Qual:
					ID13	ID15	ID16	ID18	ID19	ID20	-	-							
					F9408.D	F9410.D	F9411.D	F9413.D	F9414.D	F9415.D	-	-							

MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.

Mean RSD: -
Count RSD: -

Calibration Curve Definitions:

Curve Fit:	Name:	Description:	Evaluate:
L	Linear	y = Bx + C	r-squared
RF	Average RF	y = Bx	RSD
L0	Linear (0,0)	y = Bx + 0	r-squared
Q	Quadratic	y = Ax^2 + Bx + C	r-squared
Q0	Quadratic (0,0)	y = Ax^2 + Bx + 0	r-squared

Calibration Curve Acceptance Criteria:

Curve Fit:	Limit Mean(%):	Mean Qual:	Limit Ind.:	Ind. Qual:	Min Points:	Points Qual:	Comments:
Linear	NA	NA	0.995	N	5	N	y = Bx + C
Average RF	15	N	25	N	5	N	y = Bx
Linear (0,0)	NA	NA	0.995	N	5	N	y = Bx + 0
Quadratic	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + C
Quadratic (0,0)	NA	NA	0.995	N	6	N	y = Ax^2 + Bx + 0

Calibration Response Factor Report

Batch: 15-0072 **Project Test Code:** Master 315(S)
Data Set: DP-15-0093 **SOP_NO:** 5-315-10
Project Number: 100043429 **Project Name:** USACE/NAE New Bedford Harbor Task Order 10

Method: G:\F\DATA\MF0785.M
Title: PCB-QNF NBH
Last Update: Thu Mar 12 8:55 2015
Response via: Initial Calibration
Instrument: Inst. F
Operator: RR

No:	ID:	Path\File:	Update Time:	Quant Time:	Acquisition Time:
1	ID13	G:\F\DATA\SF0785\F9320.D	Mar 12 8:51 2015	Mar 12 7:07 2015	11 Mar 2015 12:57 PM
2	ID15	G:\F\DATA\SF0785\F9322.D	Mar 12 8:51 2015	Mar 12 7:09 2015	11 Mar 2015 2:33 PM
3	ID16	G:\F\DATA\SF0785\F9323.D	Mar 12 8:51 2015	Mar 12 7:09 2015	11 Mar 2015 3:21 PM
4	ID17	G:\F\DATA\SF0785\F9324.D	Mar 12 8:51 2015	Mar 12 7:10 2015	11 Mar 2015 4:09 PM
5	ID18	G:\F\DATA\SF0785\F9325.D	Mar 12 8:52 2015	Mar 12 7:10 2015	11 Mar 2015 4:57 PM
6	ID20	G:\F\DATA\SF0785\F9327.D	Mar 12 8:52 2015	Mar 12 7:11 2015	11 Mar 2015 6:33 PM

Method: G:\F\DATA\MF0787.M
Title: PCB-QNF NBH
Last Update: Wed Mar 18 11:21 2015
Response via: Initial Calibration
Instrument: Inst. F
Operator: DMS

No:	ID:	Path\File:	Update Time:	Quant Time:	Acquisition Time:
1	ID13	G:\F\DATA\SF0787\F9408.D	Mar 18 11:10 2015	Mar 17 11:20 2015	16 Mar 2015 6:41 PM
2	ID15	G:\F\DATA\SF0787\F9410.D	Mar 18 11:10 2015	Mar 17 11:21 2015	16 Mar 2015 8:17 PM
3	ID16	G:\F\DATA\SF0787\F9411.D	Mar 18 11:10 2015	Mar 17 11:22 2015	16 Mar 2015 9:05 PM
4	ID18	G:\F\DATA\SF0787\F9413.D	Mar 18 11:20 2015	Mar 17 11:23 2015	16 Mar 2015 10:41 PM
5	ID19	G:\F\DATA\SF0787\F9414.D	Mar 18 11:10 2015	Mar 18 8:27 2015	16 Mar 2015 11:29 PM
6	ID20	G:\F\DATA\SF0787\F9415.D	Mar 18 11:10 2015	Mar 17 11:24 2015	17 Mar 2015 12:17 AM

ICC Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Project Name: USACE/NAE New Bedford Harbor Task Order 10Project No: 100043429Batch: 15-0072Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

				F9328.D			
				ID21	5-315 ICC		
				Acq'd:	03/11/2015 19:21		
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	(ug/mL)	% Diff
1	Cl5(96)	i	1	-			
2	Biphenyl		1	-	0.05030	0.05123	1.9
3	Cl1(1)	P1	1	Y	0.05100	0.05078	0.4
4	Cl1(3)	P1	1	Y	0.05100	0.05019	1.6
5	Cl2(4)	P2	1	Y	0.05000	0.05006	0.2
6	Cl2(7)		1	Y	0.05020	0.04623	7.9
7	Cl2(9)		1	Y	0.05000	0.05419	8.4
8	Cl2(6)		1	Y	0.05030	0.04780	5.0
9	Cl2(5)		1	Y	0.05020	0.04925	1.8
10	Cl2(8)		1	Y	0.05100	0.04417	13.3
11	Cl3(19)	P3	1	Y	0.05100	0.05120	0.4
12	Cl3(30)		1	Y	0.05010	0.05061	1.1
13	Cl2(11)-S1		1	-			
14	Cl2(11)		1	Y	0.05020	0.05129	2.3
15	Cl3(18)		1	Y	0.05100	0.04931	3.3
16	Cl3(17)		1	Y	0.05050	0.04957	1.8
17	Cl2(12)		1	Y	0.05010	0.05305	6.0
18	Cl2(13)-S1		1	-			
19	Cl2(13)		1	Y	0.05030	0.05249	4.4
20	Cl3(27)		1	Y	0.05020	0.05152	2.6
21	Cl3(24)		1	Y	0.05010	0.04328	13.6
22	Cl3(16)		1	Y	0.05000	0.05644	12.8
23	Cl2(15)	P2	1	Y	0.05000	0.04911	1.8
24	Cl3(32)		1	Y	0.05020	0.05177	3.3
25	Cl4(54)	P4	1	Y	0.05100	0.04757	6.7
26	Cl3(34)-S1	S	1	-			
27	Cl3(34)	S	1	Y	0.05020	0.05032	0.2
28	Cl3(29)		1	Y	0.05020	0.04913	2.2
29	Cl3(26)-S1		1	-			
30	Cl3(26)		1	Y	0.05010	0.04576	8.6
31	Cl4(50)		1	Y	0.05080	0.04591	9.6
32	Cl3(25)		1	Y	0.05030	0.04834	4.0
33	Cl3(31)-S1		1	-			
34	Cl3(31)		1	Y	0.05100	0.05290	3.7
35	Cl4(53)		1	Y	0.05010	0.05447	8.8
36	Cl3(28)		1	Y	0.05100	0.04969	2.5
37	Cl3(33)		1	Y	0.05010	0.04919	1.7
38	Cl4(51)		1	Y	0.05050	0.04962	1.8
39	Cl4(45)		1	Y	0.05060	0.05051	0.2
40	Cl3(22)		1	Y	0.05000	0.05320	6.4
41	Cl4(46)		1	Y	0.05030	0.05116	1.8
42	Cl4(43)		1	Y	0.05030	0.05160	2.6
43	Cl4(52)		1	Y	0.05100	0.04590	10.0

ICC Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project No:** 100043429
Batch: 15-0072 **Matrix:** SED, SEDIMENT
Calibration File: MF0785.M **Last Updated:** 3/12/2015 8:55:00 AM

				F9328.D		
				ID21	5-315 ICC	
				Acq'd:	03/11/2015 19:21	
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	% Diff
44	Cl4(48)		1	Y	0.05020	0.05576 11.2
45	Cl4(49)		1	Y	0.05000	0.04909 1.8
46	Cl5(104)	P5	1	Y	0.05100	0.05079 0.4
47	Cl4(47)-S1		1	-		
48	Cl4(47)		1	Y	0.05060	0.04895 3.2
49	Cl4(75)		1	Y	0.05020	0.04528 9.8
50	Cl4(44)		1	Y	0.05100	0.04809 5.7
51	Cl4(42)		1	Y	0.05020	0.05046 0.7
52	Cl4(71)		1	Y	0.05020	0.04948 1.4
53	Cl4(41)		1	Y	0.05040	0.05523 9.6
54	Cl4(64)		1	Y	0.05030	0.05589 11.2
55	Cl4(40)		1	Y	0.05030	0.04515 10.1
56	Cl3(37)-S1		1	-		
57	Cl3(37)	J1	1	Y	0.05100	0.04902 3.9
58	Cl5(100)		1	Y	0.05010	0.04874 2.8
59	Cl4(67)		1	Y	0.05020	0.05044 0.4
60	Cl4(63)		1	Y	0.05010	0.05011 0.0
61	Cl5(95)		1	Y	0.05000	0.06217 24.4
62	Cl4(74)		1	Y	0.05100	0.05321 4.3
63	Cl4(70)		1	Y	0.05100	0.04926 3.3
64	Cl5(91)-S1		1	-		
65	Cl5(91)		1	Y	0.05010	0.05017 0.2
66	Cl4(66)-S1		1	-		
67	Cl4(66)-S2		1	-		
68	Cl4(66)		1	Y	0.05100	0.05214 2.2
69	Cl6(155)	P6	1	Y	0.05100	0.05122 0.4
70	Cl4(80)		1	Y	0.05010	0.04903 2.2
71	Cl5(92)		1	Y	0.05020	0.04937 1.5
72	Cl5(84)		1	Y	0.05000	0.04930 1.4
73	Cl4(56)-S1		1	-		
74	Cl4(56)		1	Y	0.05030	0.04867 3.1
75	Cl4(60)-S1		1	-		
76	Cl4(60)		1	Y	0.05020	0.05150 2.6
77	Cl5(101)		1	Y	0.05100	0.05492 7.6
78	Cl6(161)	i	1	-		
79	Cl5(99)		1	Y	0.05100	0.05457 7.1
80	Cl5(83)		1	Y	0.05100	0.05479 7.5
81	Cl5(125)		1	Y	0.05010	0.05389 7.6
82	Cl5(97)		1	Y	0.05020	0.04721 5.9
83	Cl5(87)		1	Y	0.05100	0.04975 2.4
84	Cl6(136)		1	Y	0.05010	0.05113 2.0
85	Cl5(115)		1	Y	0.05020	0.05532 10.2
86	Cl6(154)		1	Y	0.05010	0.05025 0.5

ICC Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project No:** 100043429
Batch: 15-0072 **Matrix:** SED, SEDIMENT
Calibration File: MF0785.M **Last Updated:** 3/12/2015 8:55:00 AM

				F9328.D		
				ID21	5-315 ICC	
				Acq'd:	03/11/2015 19:21	
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	% Diff
87	Cl5(85)-S1		1	-		
88	Cl5(85)		1	Y	0.05010	0.04914 2.0
89	Cl5(110)		1	Y	0.05100	0.05154 1.0
90	Cl4(81)		1	Y	0.05000	0.05692 13.8
91	Cl5(82)-S1		1	-		
92	Cl5(82)		1	Y	0.05000	0.04921 1.6
93	Cl6(151)		1	Y	0.05100	0.05385 5.7
94	Cl6(135)		1	Y	0.05000	0.04595 8.0
95	Cl4(77)-S2		1	-		
96	Cl4(77)	P4	1	Y	0.05100	0.04826 5.3
97	Cl6(144)		1	Y	0.05020	0.04508 10.2
98	Cl6(149)		1	Y	0.05100	0.04775 6.3
99	Cl6(139)		1	Y	0.05030	0.04564 9.3
100	Cl5(124)-S1		1	-		
101	Cl5(124)		1	Y	0.05020	0.04680 6.7
102	Cl6(140)		1	Y	0.05050	0.04821 4.6
103	Cl5(123)		1	Y	0.05100	0.04929 3.3
104	Cl6(134)		1	Y	0.05030	0.05313 5.7
105	Cl7(188)	P7	1	Y	0.03600	0.03730 3.6
106	Cl5(118)-S1		1	-		
107	Cl5(118)-S2		1	-		
108	Cl5(118)		1	Y	0.05100	0.05158 1.2
109	Cl6(131)		1	Y	0.05010	0.05042 0.7
110	Cl7(184)		1	Y	0.05010	0.05292 5.6
111	Cl6(146)		1	Y	0.05010	0.05008 0.1
112	Cl5(114)-S1		1	-		
113	Cl5(114)		1	Y	0.05100	0.05298 3.9
114	Cl6(152)	S	1	Y	0.05010	0.05222 4.2
115	Cl6(153)		1	Y	0.05100	0.05627 10.4
116	Cl7(179)		1	Y	0.05030	0.04966 1.2
117	Cl5(105)-S1		1	-		
118	Cl5(105)		1	Y	0.05100	0.05360 5.1
119	Cl6(141)		1	Y	0.05010	0.04866 2.8
120	Cl7(176)		1	Y	0.05070	0.05096 0.6
121	Cl6(127)-S1		1	-		
122	Cl5(127)		1	Y	0.05000	0.04779 4.4
123	Cl6(137)		1	Y	0.05010	0.04892 2.4
124	Cl6(130)		1	Y	0.05020	0.04703 6.4
125	Cl6(164)		1	Y	0.05030	0.04165 17.1
126	Cl6(138)		1	Y	0.05100	0.05643 10.6
127	Cl6(163)-S1		1	-		
128	Cl6(163)		1	Y	0.05020	0.05076 1.2
129	Cl7(178)		1	Y	0.05060	0.04750 6.1

ICC Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project No:** 100043429
Batch: 15-0072 **Matrix:** SED, SEDIMENT
Calibration File: MF0785.M **Last Updated:** 3/12/2015 8:55:00 AM

				F9328.D		
				ID21	5-315 ICC	
				Acq'd:	03/11/2015 19:21	
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	% Diff
130	Cl6(158)		1	Y	0.05000	0.04982 0.4
131	Cl7(175)		1	Y	0.05000	0.05023 0.4
132	Cl7(187)		1	Y	0.05100	0.05138 0.8
133	Cl6(166)-S1		1	-		
134	Cl6(166)		1	Y	0.05040	0.04951 1.7
135	Cl7(183)		1	Y	0.05100	0.05234 2.5
136	Cl5(126)	P5	1	Y	0.05100	0.05357 5.1
137	Cl6(128)-S1		1	-		
138	Cl6(128)		1	Y	0.05100	0.04906 3.7
139	Cl7(185)		1	Y	0.05000	0.05280 5.6
140	Cl7(174)		1	Y	0.05020	0.04863 3.2
141	Cl6(167)		1	Y	0.05100	0.04894 4.1
142	Cl8(202)	P8	1	Y	0.05100	0.04707 7.6
143	Cl7(177)		1	Y	0.05100	0.04962 2.7
144	Cl8(201)		1	Y	0.05000	0.04905 1.8
145	Cl7(171)-S1		1	-		
146	Cl7(171)		1	Y	0.05000	0.05127 2.6
147	Cl7(173)		1	Y	0.05030	0.04710 6.3
148	Cl8(197)		1	Y	0.05070	0.04795 5.3
149	Cl6(156)-S1		1	-		
150	Cl6(156)		1	Y	0.05100	0.05029 1.4
151	Cl7(172)		1	Y	0.05070	0.05021 1.0
152	Cl6(157)		1	Y	0.05000	0.04999 0.0
153	Cl7(180)		1	Y	0.05100	0.04968 2.5
154	Cl7(193)-S1		1	-		
155	Cl7(193)		1	Y	0.05010	0.04650 7.2
156	Cl8(200)		1	Y	0.05020	0.04817 4.0
157	Cl7(191)		1	Y	0.05010	0.04598 8.2
158	Cl7(170)-S1		1	-		
159	Cl7(170)		1	Y	0.05100	0.05319 4.3
160	Cl8(198)		1	Y	0.05050	0.05041 0.2
161	Cl8(199)		1	Y	0.05000	0.04645 7.0
162	Cl7(190)		1	Y	0.05030	0.04731 6.0
163	Cl6(169)-S2		1	-		
164	Cl6(169)	P6	1	Y	0.05100	0.05199 2.0
165	Cl8(203)		1	Y	0.05100	0.05132 0.6
166	Cl9(208)	P9	1	Y	0.05100	0.04847 4.9
167	Cl7(189)	P7	1	Y	0.05100	0.05206 2.2
168	Cl9(207)		1	Y	0.05010	0.04736 5.4
169	Cl8(195)-S1		1	-		
170	Cl8(195)		1	Y	0.05100	0.05042 1.2
171	Cl8(194)		1	Y	0.05100	0.04801 5.9
172	Cl8(205)	P8	1	Y	0.05100	0.05076 0.4

ICC Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project No:** 100043429
Batch: 15-0072 **Matrix:** SED, SEDIMENT
Calibration File: MF0785.M **Last Updated:** 3/12/2015 8:55:00 AM

				F9328.D		
		ID21		5-315 ICC		
		Acq'd:		03/11/2015 19:21		
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	% Diff
173	Cl9(206)	P9	1	Y	0.05100	0.04359 14.5
174	Cl10(209)		1	Y	0.05200	0.04428 14.8

MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.

Mean PD: **4.61**
Follow ICAL: **PASS**

ICC Acceptance Criteria:

Mean PD(%):	<u>25</u>	Qual:	<u>N</u>
Individual PD(%):	<u>25</u>	Qual:	<u>N</u>

ICC Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Project Name: USACE/NAE New Bedford Harbor Task Order 10Project No: 100043429Batch: 15-0072Matrix: SED, SEDIMENTCalibration File: MF0787.MLast Updated: 3/18/2015 11:21:00 AM

F9416.D

ID21

5-315 ICC

Acq'd:

03/17/2015 01:05

No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	(ug/mL)	% Diff
1	Cl5(96)	i	1	-			
2	Biphenyl		1	-	0.05030	0.04952	1.5
3	Cl1(1)	P1	1	Y	0.05100	0.04815	5.5
4	Cl1(3)	P1	1	Y	0.05100	0.04770	6.5
5	Cl2(4)	P2	1	Y	0.05000	0.04864	2.8
6	Cl2(7)		1	Y	0.05020	0.04578	8.7
7	Cl2(9)		1	Y	0.05000	0.05656	13.2
8	Cl2(6)		1	Y	0.05030	0.04771	5.2
9	Cl2(5)		1	Y	0.05020	0.04987	0.6
10	Cl2(8)		1	Y	0.05100	0.04307	15.5
11	Cl3(19)	P3	1	Y	0.05100	0.05303	3.9
12	Cl3(30)		1	Y	0.05010	0.05087	1.7
13	Cl2(11)-S1		1	-			
14	Cl2(11)		1	Y	0.05020	0.05145	2.7
15	Cl3(18)		1	Y	0.05100	0.05088	0.2
16	Cl3(17)		1	Y	0.05050	0.04925	2.4
17	Cl2(12)		1	Y	0.05010	0.05321	6.2
18	Cl2(13)-S1		1	-			
19	Cl2(13)		1	Y	0.05030	0.05356	6.6
20	Cl3(27)		1	Y	0.05020	0.05139	2.4
21	Cl3(24)		1	Y	0.05010	0.04459	11.0
22	Cl3(16)		1	Y	0.05000	0.05741	14.8
23	Cl2(15)	P2	1	Y	0.05000	0.04893	2.2
24	Cl3(32)		1	Y	0.05020	0.05209	3.9
25	Cl4(54)	P4	1	Y	0.05100	0.04846	4.9
26	Cl3(34)-S1	S	1	-			
27	Cl3(34)	S	1	Y	0.05020	0.05103	1.6
28	Cl3(29)		1	Y	0.05020	0.04968	1.0
29	Cl3(26)-S1		1	-			
30	Cl3(26)		1	Y	0.05010	0.04568	8.8
31	Cl4(50)		1	Y	0.05080	0.04699	7.5
32	Cl3(25)		1	Y	0.05030	0.04890	2.8
33	Cl3(31)-S1		1	-			
34	Cl3(31)		1	Y	0.05100	0.05255	3.1
35	Cl4(53)		1	Y	0.05010	0.05533	10.4
36	Cl3(28)		1	Y	0.05100	0.05227	2.5
37	Cl3(33)		1	Y	0.05010	0.04839	3.3
38	Cl4(51)		1	Y	0.05050	0.04980	1.4
39	Cl4(45)		1	Y	0.05060	0.05013	1.0
40	Cl3(22)		1	Y	0.05000	0.05187	3.8
41	Cl4(46)		1	Y	0.05030	0.05066	0.8
42	Cl4(43)		1	Y	0.05030	0.05580	10.9
43	Cl4(52)		1	Y	0.05100	0.04592	10.0

ICC Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Project Name: USACE/NAE New Bedford Harbor Task Order 10Project No: 100043429Batch: 15-0072Matrix: SED, SEDIMENTCalibration File: MF0787.MLast Updated: 3/18/2015 11:21:00 AM

				F9416.D		
				ID21	5-315 ICC	
				Acq'd:	03/17/2015 01:05	
No:	Analyte:	Type:	Col:	MQO: (ug/mL)	(ug/mL)	% Diff
44	Cl4(48)		1	Y 0.05020	0.05407	7.8
45	Cl4(49)		1	Y 0.05000	0.04872	2.6
46	Cl5(104)	P5	1	Y 0.05100	0.05205	2.2
47	Cl4(47)-S1		1	-		
48	Cl4(47)		1	Y 0.05060	0.05151	1.8
49	Cl4(75)		1	Y 0.05020	0.04447	11.4
50	Cl4(44)		1	Y 0.05100	0.04802	5.9
51	Cl4(42)		1	Y 0.05020	0.05028	0.3
52	Cl4(71)		1	Y 0.05020	0.04950	1.4
53	Cl4(41)		1	Y 0.05040	0.05831	15.8
54	Cl4(64)		1	Y 0.05030	0.05418	7.9
55	Cl4(40)		1	Y 0.05030	0.04540	9.7
56	Cl3(37)-S1		1	-		
57	Cl3(37)	J1	1	Y 0.05100	0.04860	4.7
58	Cl5(100)		1	Y 0.05010	0.04927	1.6
59	Cl4(67)		1	Y 0.05020	0.04995	0.4
60	Cl4(63)		1	Y 0.05010	0.04891	2.4
61	Cl5(95)		1	Y 0.05000	0.06191	23.8
62	Cl4(74)		1	Y 0.05100	0.05399	5.9
63	Cl4(70)		1	Y 0.05100	0.04887	4.1
64	Cl5(91)-S1		1	-		
65	Cl5(91)		1	Y 0.05010	0.04820	3.8
66	Cl4(66)-S1		1	-		
67	Cl4(66)-S2		1	-		
68	Cl4(66)		1	Y 0.05100	0.05224	2.4
69	Cl6(155)	P6	1	Y 0.05100	0.05078	0.4
70	Cl4(80)		1	Y 0.05010	0.05001	0.2
71	Cl5(92)		1	Y 0.05020	0.04741	5.5
72	Cl5(84)		1	Y 0.05000	0.05590	11.8
73	Cl4(56)-S1		1	-		
74	Cl4(56)		1	Y 0.05030	0.04766	5.1
75	Cl4(60)-S1		1	-		
76	Cl4(60)		1	Y 0.05020	0.04817	4.0
77	Cl5(101)		1	Y 0.05100	0.05145	1.0
78	Cl6(161)	i	1	-		
79	Cl5(99)		1	Y 0.05100	0.05043	1.2
80	Cl5(83)		1	Y 0.05100	0.05265	3.3
81	Cl5(125)		1	Y 0.05010	0.05377	7.4
82	Cl5(97)		1	Y 0.05020	0.04831	3.7
83	Cl5(87)		1	Y 0.05100	0.04893	4.1
84	Cl6(136)		1	Y 0.05010	0.05195	3.8
85	Cl5(115)		1	Y 0.05020	0.04524	10.0
86	Cl6(154)		1	Y 0.05010	0.04924	1.7

ICC Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project No:** 100043429
Batch: 15-0072 **Matrix:** SED, SEDIMENT
Calibration File: MF0787.M **Last Updated:** 3/18/2015 11:21:00 AM

				F9416.D		
				ID21	5-315 ICC	
				Acq'd:	03/17/2015 01:05	
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	% Diff
87	Cl5(85)-S1		1	-		
88	Cl5(85)		1	Y	0.05010	0.04802 4.2
89	Cl5(110)		1	Y	0.05100	0.05015 1.6
90	Cl4(81)		1	Y	0.05000	0.05297 6.0
91	Cl5(82)-S1		1	-		
92	Cl5(82)		1	Y	0.05000	0.04553 9.0
93	Cl6(151)		1	Y	0.05100	0.05243 2.7
94	Cl6(135)		1	Y	0.05000	0.04866 2.6
95	Cl4(77)-S2		1	-		
96	Cl4(77)	P4	1	Y	0.05100	0.04940 3.1
97	Cl6(144)		1	Y	0.05020	0.04489 10.6
98	Cl6(149)		1	Y	0.05100	0.04657 8.6
99	Cl6(139)		1	Y	0.05030	0.04874 3.2
100	Cl5(124)-S1		1	-		
101	Cl5(124)		1	Y	0.05020	0.04691 6.5
102	Cl6(140)		1	Y	0.05050	0.04700 6.9
103	Cl5(123)		1	Y	0.05100	0.04794 6.1
104	Cl6(134)		1	Y	0.05030	0.05110 1.7
105	Cl7(188)	P7	1	Y	0.03600	0.03534 1.9
106	Cl5(118)-S1		1	-		
107	Cl5(118)-S2		1	-		
108	Cl5(118)		1	Y	0.05100	0.05049 1.0
109	Cl6(131)		1	Y	0.05010	0.04904 2.1
110	Cl7(184)		1	Y	0.05010	0.04957 1.0
111	Cl6(146)		1	Y	0.05010	0.04880 2.5
112	Cl5(114)-S1		1	-		
113	Cl5(114)		1	Y	0.05100	0.05152 1.0
114	Cl6(152)	S	1	Y	0.05010	0.04943 1.4
115	Cl6(153)		1	Y	0.05100	0.05271 3.3
116	Cl7(179)		1	Y	0.05030	0.04796 4.6
117	Cl5(105)-S1		1	-		
118	Cl5(105)		1	Y	0.05100	0.05149 1.0
119	Cl6(141)		1	Y	0.05010	0.04830 3.6
120	Cl7(176)		1	Y	0.05070	0.05227 3.2
121	Cl6(127)-S1		1	-		
122	Cl5(127)		1	Y	0.05000	0.04808 3.8
123	Cl6(137)		1	Y	0.05010	0.05071 1.2
124	Cl6(130)		1	Y	0.05020	0.04801 4.4
125	Cl6(164)		1	Y	0.05030	0.03875 22.9
126	Cl6(138)		1	Y	0.05100	0.05897 15.7
127	Cl6(163)-S1		1	-		
128	Cl6(163)		1	Y	0.05020	0.04143 17.5
129	Cl7(178)		1	Y	0.05060	0.04841 4.3

ICC Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project No:** 100043429
Batch: 15-0072 **Matrix:** SED, SEDIMENT
Calibration File: MF0787.M **Last Updated:** 3/18/2015 11:21:00 AM

				F9416.D		
				ID21	5-315 ICC	
				Acq'd:	03/17/2015 01:05	
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	% Diff
130	Cl6(158)		1	Y	0.05000	0.04856 2.8
131	Cl7(175)		1	Y	0.05000	0.04826 3.4
132	Cl7(187)		1	Y	0.05100	0.05128 0.6
133	Cl6(166)-S1		1	-		
134	Cl6(166)		1	Y	0.05040	0.04759 5.5
135	Cl7(183)		1	Y	0.05100	0.05195 2.0
136	Cl5(126)	P5	1	Y	0.05100	0.05078 0.4
137	Cl6(128)-S1		1	-		
138	Cl6(128)		1	Y	0.05100	0.04945 2.9
139	Cl7(185)		1	Y	0.05000	0.05246 5.0
140	Cl7(174)		1	Y	0.05020	0.04912 2.2
141	Cl6(167)		1	Y	0.05100	0.04954 2.9
142	Cl8(202)	P8	1	Y	0.05100	0.04883 4.3
143	Cl7(177)		1	Y	0.05100	0.04971 2.5
144	Cl8(201)		1	Y	0.05000	0.04754 5.0
145	Cl7(171)-S1		1	-		
146	Cl7(171)		1	Y	0.05000	0.04914 1.8
147	Cl7(173)		1	Y	0.05030	0.05010 0.3
148	Cl8(197)		1	Y	0.05070	0.04728 6.7
149	Cl6(156)-S1		1	-		
150	Cl6(156)		1	Y	0.05100	0.04893 4.1
151	Cl7(172)		1	Y	0.05070	0.04843 4.5
152	Cl6(157)		1	Y	0.05000	0.04979 0.4
153	Cl7(180)		1	Y	0.05100	0.04951 2.9
154	Cl7(193)-S1		1	-		
155	Cl7(193)		1	Y	0.05010	0.04559 9.0
156	Cl8(200)		1	Y	0.05020	0.04757 5.2
157	Cl7(191)		1	Y	0.05010	0.04551 9.2
158	Cl7(170)-S1		1	-		
159	Cl7(170)		1	Y	0.05100	0.05217 2.4
160	Cl8(198)		1	Y	0.05050	0.05411 7.1
161	Cl8(199)		1	Y	0.05000	0.04161 16.8
162	Cl7(190)		1	Y	0.05030	0.04658 7.4
163	Cl6(169)-S2		1	-		
164	Cl6(169)	P6	1	Y	0.05100	0.05175 1.6
165	Cl8(203)		1	Y	0.05100	0.04933 3.3
166	Cl9(208)	P9	1	Y	0.05100	0.04687 8.0
167	Cl7(189)	P7	1	Y	0.05100	0.05017 1.6
168	Cl9(207)		1	Y	0.05010	0.04766 4.8
169	Cl8(195)-S1		1	-		
170	Cl8(195)		1	Y	0.05100	0.05062 0.8
171	Cl8(194)		1	Y	0.05100	0.04809 5.7
172	Cl8(205)	P8	1	Y	0.05100	0.04804 5.9

ICC Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project No:** 100043429
Batch: 15-0072 **Matrix:** SED, SEDIMENT
Calibration File: MF0787.M **Last Updated:** 3/18/2015 11:21:00 AM

				F9416.D		
				ID21	5-315 ICC	
				Acq'd:	03/17/2015 01:05	
No:	Analyte:	Type:	Col:	MQO:	(ug/mL)	% Diff
173	CI9(206)	P9	1	Y	0.05100	0.04532 11.2
174	CI10(209)		1	Y	0.05200	0.04378 15.8

MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.

Mean PD: **5.06**
Follow ICAL: **PASS**

ICC Acceptance Criteria:

Mean PD(%):	<u>25</u>	Qual:	<u>N</u>
Individual PD(%):	<u>25</u>	Qual:	<u>N</u>

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

No:	Analyte:	Type:	Col:	MQO:	CAL	F9337.D		F9357.D		F9386.D	
						ID17 mid		ID17 mid		ID17 mid	
						03/12/2015 02:33		03/13/2015 12:38		03/15/2015 18:14	
						MID	% Diff	MID	% Diff	MID	% Diff
1	Cl5(96)	i	1	-							
2	Biphenyl		1	-	0.04000	0.03548	-11.3	0.03182	-20.4	0.03158	-21.1
3	Cl1(1)	P1	1	Y	0.04004	0.03671	-8.3	0.03411	-14.8	0.03433	-14.3
4	Cl1(3)	P1	1	Y	0.04000	0.03901	-2.5	0.03607	-9.8	0.03613	-9.7
5	Cl2(4)	P2	1	Y	0.04012	0.03789	-5.6	0.03588	-10.6	0.03584	-10.7
6	Cl2(7)		1	Y	0.04016	0.04012	-0.1	0.03690	-8.1	0.03907	-2.7
7	Cl2(9)		1	Y	0.04000	0.03823	-4.4	0.03642	-8.9	0.03493	-12.7
8	Cl2(6)		1	Y	0.04008	0.03777	-5.8	0.03584	-10.6	0.03620	-9.7
9	Cl2(5)		1	Y	0.04000	0.03805	-4.9	0.03618	-9.6	0.03559	-11.0
10	Cl2(8)		1	Y	0.04008	0.03657	-8.8	0.03496	-12.8	0.03657	-8.8
11	Cl3(19)	P3	1	Y	0.04000	0.03833	-4.2	0.03558	-11.1	0.03728	-6.8
12	Cl3(30)		1	Y	0.04008	0.03932	-1.9	0.03738	-6.7	0.03762	-6.1
13	Cl2(11)-S1		1	-							
14	Cl2(11)		1	Y	0.04012	0.04138	3.1	0.03912	-2.5	0.03955	-1.4
15	Cl3(18)		1	Y	0.04020	0.03851	-4.2	0.03688	-8.3	0.03673	-8.6
16	Cl3(17)		1	Y	0.04016	0.03809	-5.2	0.03593	-10.5	0.03744	-6.8
17	Cl2(12)		1	Y	0.04000	0.03988	-0.3	0.03718	-7.1	0.03779	-5.5
18	Cl2(13)-S1		1	-							
19	Cl2(13)		1	Y	0.04016	0.03930	-2.1	0.03760	-6.4	0.03826	-4.7
20	Cl3(27)		1	Y	0.04000	0.03715	-7.1	0.03542	-11.5	0.03624	-9.4
21	Cl3(24)		1	Y	0.04016	0.03786	-5.7	0.03576	-11.0	0.03650	-9.1
22	Cl3(16)		1	Y	0.04016	0.04070	1.3	0.03726	-7.2	0.03799	-5.4
23	Cl2(15)	P2	1	Y	0.04016	0.04304	7.2	0.04026	0.2	0.04236	5.5
24	Cl3(32)		1	Y	0.04000	0.03801	-5.0	0.03635	-9.1	0.03703	-7.4
25	Cl4(54)	P4	1	Y	0.04016	0.03720	-7.4	0.03631	-9.6	0.03615	-10.0
26	Cl3(34)-S1	S	1	-							
27	Cl3(34)	S	1	Y	0.04000	0.03974	-0.7	0.03779	-5.5	0.03917	-2.1
28	Cl3(29)		1	Y	0.04004	0.04093	2.2	0.03919	-2.1	0.03946	-1.4
29	Cl3(26)-S1		1	-							
30	Cl3(26)		1	Y	0.04004	0.04108	2.6	0.03926	-1.9	0.03905	-2.5
31	Cl4(50)		1	Y	0.04016	0.03790	-5.6	0.03810	-5.1	0.03711	-7.6
32	Cl3(25)		1	Y	0.04000	0.03987	-0.3	0.03917	-2.1	0.03894	-2.6
33	Cl3(31)-S1		1	-							
34	Cl3(31)		1	Y	0.04020	0.04159	3.5	0.03906	-2.8	0.03949	-1.8
35	Cl4(53)		1	Y	0.04012	0.03995	-0.4	0.03683	-8.2	0.03827	-4.6
36	Cl3(28)		1	Y	0.04000	0.03971	-0.7	0.03792	-5.2	0.03808	-4.8
37	Cl3(33)		1	Y	0.04016	0.03989	-0.7	0.03739	-6.9	0.04070	1.3
38	Cl4(51)		1	Y	0.04016	0.04006	-0.2	0.03700	-7.9	0.03716	-7.5
39	Cl4(45)		1	Y	0.04000	0.04390	9.8	0.03984	-0.4	0.03989	-0.3
40	Cl3(22)		1	Y	0.04016	0.04174	3.9	0.04000	-0.4	0.04012	-0.1
41	Cl4(46)		1	Y	0.04016	0.03670	-8.6	0.04154	3.4	0.03913	-2.6
42	Cl4(43)		1	Y	0.04000	0.03993	-0.2	0.04207	5.2	0.03445	-13.9
43	Cl4(52)		1	Y	0.04004	0.04348	8.6	0.04106	2.5	0.04583	14.5

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

					F9337.D		F9357.D		F9386.D		
					ID17 mid		ID17 mid		ID17 mid		
					03/12/2015 02:33		03/13/2015 12:38		03/15/2015 18:14		
No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff	MID	% Diff
44	Cl4(48)		1	Y	0.04000	0.04391	9.8	0.04435	10.9	0.03714	-7.2
45	Cl4(49)		1	Y	0.04000	0.04153	3.8	0.03827	-4.3	0.04341	8.5
46	Cl5(104)	P5	1	Y	0.04000	0.03955	-1.1	0.03890	-2.8	0.03880	-3.0
47	Cl4(47)-S1		1	-							
48	Cl4(47)		1	Y	0.04000	0.04037	0.9	0.04003	0.1	0.03746	-6.4
49	Cl4(75)		1	Y	0.04016	0.03873	-3.6	0.03897	-3.0	0.04158	3.5
50	Cl4(44)		1	Y	0.04000	0.04229	5.7	0.04181	4.5	0.04120	3.0
51	Cl4(42)		1	Y	0.04016	0.04079	1.6	0.04082	1.6	0.04097	2.0
52	Cl4(71)		1	Y	0.04000	0.04338	8.5	0.04207	5.2	0.04114	2.9
53	Cl4(41)		1	Y	0.04000	0.04020	0.5	0.03990	-0.3	0.04249	6.2
54	Cl4(64)		1	Y	0.04016	0.04373	8.9	0.04220	5.1	0.04334	7.9
55	Cl4(40)		1	Y	0.04020	0.03722	-7.4	0.03717	-7.5	0.03750	-6.7
56	Cl3(37)-S1		1	-							
57	Cl3(37)	J1	1	Y	0.04000	0.04290	7.2	0.04003	0.1	0.04014	0.4
58	Cl5(100)		1	Y	0.04016	0.04356	8.5	0.04284	6.7	0.04269	6.3
59	Cl4(67)		1	Y	0.04016	0.04578	14.0	0.04449	10.8	0.04358	8.5
60	Cl4(63)		1	Y	0.04000	0.04490	12.3	0.04380	9.5	0.04398	9.9
61	Cl5(95)		1	Y	0.04000	0.04359	9.0	0.04199	5.0	0.04318	8.0
62	Cl4(74)		1	Y	0.04000	0.04214	5.3	0.04199	5.0	0.04195	4.9
63	Cl4(70)		1	Y	0.04016	0.04420	10.1	0.04040	0.6	0.04186	4.2
64	Cl5(91)-S1		1	-							
65	Cl5(91)		1	Y	0.04020	0.04155	3.4	0.03970	-1.2	0.04225	5.1
66	Cl4(66)-S1		1	-							
67	Cl4(66)-S2		1	-							
68	Cl4(66)		1	Y	0.04000	0.04217	5.4	0.04154	3.8	0.04183	4.6
69	Cl6(155)	P6	1	Y	0.04016	0.03954	-1.5	0.04020	0.1	0.03994	-0.5
70	Cl4(80)		1	Y	0.04020	0.04303	7.0	0.04318	7.4	0.04400	9.5
71	Cl5(92)		1	Y	0.04016	0.03866	-3.7	0.03880	-3.4	0.04172	3.9
72	Cl5(84)		1	Y	0.04016	0.04126	2.7	0.03844	-4.3	0.04651	15.8
73	Cl4(56)-S1		1	-							
74	Cl4(56)		1	Y	0.04016	0.04196	4.5	0.04178	4.0	0.04175	4.0
75	Cl4(60)-S1		1	-							
76	Cl4(60)		1	Y	0.04016	0.04337	8.0	0.04158	3.5	0.04206	4.7
77	Cl5(101)		1	Y	0.04000	0.04465	11.6	0.04329	8.2	0.04286	7.2
78	Cl6(161)	i	1	-							
79	Cl5(99)		1	Y	0.04008	0.04095	2.2	0.03829	-4.5	0.03972	-0.9
80	Cl5(83)		1	Y	0.04000	0.04008	0.2	0.03960	-1.0	0.04194	4.8
81	Cl5(125)		1	Y	0.04000	0.03948	-1.3	0.04049	1.2	0.03922	-2.0
82	Cl5(97)		1	Y	0.04016	0.03953	-1.6	0.03981	-0.9	0.04007	-0.2
83	Cl5(87)		1	Y	0.03988	0.04433	11.2	0.04321	8.4	0.04230	6.1
84	Cl6(136)		1	Y	0.04000	0.03784	-5.4	0.03912	-2.2	0.03751	-6.2
85	Cl5(115)		1	Y	0.04016	0.04431	10.3	0.03843	-4.3	0.03554	-11.5
86	Cl6(154)		1	Y	0.04000	0.03697	-7.6	0.03726	-6.8	0.03737	-6.6

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

					F9337.D		F9357.D		F9386.D		
					ID17 mid		ID17 mid		ID17 mid		
					03/12/2015 02:33		03/13/2015 12:38		03/15/2015 18:14		
No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff	MID	% Diff
87	CI5(85)-S1		1	-							
88	CI5(85)		1	Y	0.04000	0.03634	-9.2	0.03718	-7.1	0.03949	-1.3
89	CI5(110)		1	Y	0.04004	0.04141	3.4	0.04060	1.4	0.04039	0.9
90	CI4(81)		1	Y	0.04000	0.04279	7.0	0.03944	-1.4	0.04019	0.5
91	CI5(82)-S1		1	-							
92	CI5(82)		1	Y	0.04000	0.03982	-0.4	0.03813	-4.7	0.04222	5.5
93	CI6(151)		1	Y	0.04008	0.03970	-0.9	0.03931	-1.9	0.03785	-5.6
94	CI6(135)		1	Y	0.04016	0.03825	-4.8	0.03691	-8.1	0.03980	-0.9
95	CI4(77)-S2		1	-							
96	CI4(77)	P4	1	Y	0.04000	0.04035	0.9	0.03954	-1.2	0.04025	0.6
97	CI6(144)		1	Y	0.04000	0.03722	-6.9	0.03702	-7.5	0.03708	-7.3
98	CI6(149)		1	Y	0.04016	0.04027	0.3	0.04044	0.7	0.03969	-1.2
99	CI6(139)		1	Y	0.04016	0.04051	0.9	0.03993	-0.6	0.03912	-2.6
100	CI5(124)-S1		1	-							
101	CI5(124)		1	Y	0.04016	0.03946	-1.7	0.03881	-3.4	0.03858	-3.9
102	CI6(140)		1	Y	0.04016	0.03901	-2.9	0.03772	-6.1	0.03816	-5.0
103	CI5(123)		1	Y	0.04000	0.04281	7.0	0.04095	2.4	0.04260	6.5
104	CI6(134)		1	Y	0.04016	0.04056	1.0	0.03908	-2.7	0.03904	-2.8
105	CI7(188)	P7	1	Y	0.04016	0.03909	-2.7	0.03813	-5.1	0.03922	-2.3
106	CI5(118)-S1		1	-							
107	CI5(118)-S2		1	-							
108	CI5(118)		1	Y	0.04008	0.04164	3.9	0.03955	-1.3	0.03962	-1.1
109	CI6(131)		1	Y	0.04016	0.03888	-3.2	0.03861	-3.9	0.03911	-2.6
110	CI7(184)		1	Y	0.04000	0.04166	4.2	0.04072	1.8	0.04087	2.2
111	CI6(146)		1	Y	0.04000	0.04041	1.0	0.04145	3.6	0.03955	-1.1
112	CI5(114)-S1		1	-							
113	CI5(114)		1	Y	0.04000	0.04147	3.7	0.04025	0.6	0.04122	3.0
114	CI6(152)	S	1	Y	0.04016	0.03882	-3.3	0.03817	-5.0	0.04201	4.6
115	CI6(153)		1	Y	0.04000	0.04141	3.5	0.03987	-0.3	0.04080	2.0
116	CI7(179)		1	Y	0.04016	0.03936	-2.0	0.03938	-1.9	0.03943	-1.8
117	CI5(105)-S1		1	-							
118	CI5(105)		1	Y	0.04004	0.04447	11.1	0.04305	7.5	0.04146	3.5
119	CI6(141)		1	Y	0.04016	0.04089	1.8	0.03932	-2.1	0.04148	3.3
120	CI7(176)		1	Y	0.04000	0.03743	-6.4	0.03862	-3.4	0.03814	-4.7
121	CI6(127)-S1		1	-							
122	CI5(127)		1	Y	0.04000	0.04253	6.3	0.04241	6.0	0.04273	6.8
123	CI6(137)		1	Y	0.04016	0.04149	3.3	0.04161	3.6	0.04142	3.1
124	CI6(130)		1	Y	0.04000	0.03863	-3.4	0.03866	-3.4	0.03595	-10.1
125	CI6(164)		1	Y	0.04000	0.04039	1.0	0.03907	-2.3	0.04373	9.3
126	CI6(138)		1	Y	0.04000	0.03981	-0.5	0.04202	5.1	0.04058	1.4
127	CI6(163)-S1		1	-							
128	CI6(163)		1	Y	0.04000	0.04251	6.3	0.04135	3.4	0.04502	12.5
129	CI7(178)		1	Y	0.04016	0.03784	-5.8	0.03854	-4.0	0.03822	-4.8

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

No:	Analyte:	Type:	Col:	MQO:	CAL	F9337.D		F9357.D		F9386.D		
						ID17 mid		ID17 mid		ID17 mid		
						03/12/2015 02:33		03/13/2015 12:38		03/15/2015 18:14		
					MID	% Diff	MID	% Diff	MID	% Diff		
130	Cl6(158)		1	Y	0.04000	0.03905	-2.4	0.03972	-0.7	0.03834	-4.2	
131	Cl7(175)		1	Y	0.04016	0.04220	5.1	0.04345	8.2	0.04208	4.8	
132	Cl7(187)		1	Y	0.04000	0.03995	-0.1	0.04069	1.7	0.03931	-1.7	
133	Cl6(166)-S1		1	-								
134	Cl6(166)		1	Y	0.04020	0.04038	0.4	0.04180	4.0	0.04135	2.9	
135	Cl7(183)		1	Y	0.04000	0.03898	-2.6	0.03962	-0.9	0.04032	0.8	
136	Cl5(126)	P5	1	Y	0.04016	0.04822	20.1	0.04751	18.3	0.04747	18.2	
137	Cl6(128)-S1		1	-								
138	Cl6(128)		1	Y	0.04000	0.04117	2.9	0.04163	4.1	0.04154	3.8	
139	Cl7(185)		1	Y	0.04000	0.04071	1.8	0.04075	1.9	0.04079	2.0	
140	Cl7(174)		1	Y	0.04000	0.03921	-2.0	0.04050	1.3	0.04008	0.2	
141	Cl6(167)		1	Y	0.04008	0.04540	13.3	0.04543	13.3	0.04498	12.2	
142	Cl8(202)	P8	1	Y	0.04016	0.03874	-3.5	0.04095	2.0	0.04022	0.1	
143	Cl7(177)		1	Y	0.04000	0.04220	5.5	0.04260	6.5	0.04240	6.0	
144	Cl8(201)		1	Y	0.04004	0.03837	-4.2	0.04124	3.0	0.03998	-0.1	
145	Cl7(171)-S1		1	-								
146	Cl7(171)		1	Y	0.04020	0.03976	-1.1	0.04087	1.7	0.04027	0.2	
147	Cl7(173)		1	Y	0.04016	0.04084	1.7	0.04204	4.7	0.04080	1.6	
148	Cl8(197)		1	Y	0.04000	0.03938	-1.6	0.04219	5.5	0.04154	3.8	
149	Cl6(156)-S1		1	-								
150	Cl6(156)		1	Y	0.04000	0.04427	10.7	0.04531	13.3	0.04481	12.0	
151	Cl7(172)		1	Y	0.04000	0.04096	2.4	0.04068	1.7	0.04130	3.3	
152	Cl6(157)		1	Y	0.04020	0.04084	1.6	0.04176	3.9	0.04139	3.0	
153	Cl7(180)		1	Y	0.04000	0.04160	4.0	0.03973	-0.7	0.03970	-0.8	
154	Cl7(193)-S1		1	-								
155	Cl7(193)		1	Y	0.04016	0.04265	6.2	0.03923	-2.3	0.04289	6.8	
156	Cl8(200)		1	Y	0.04000	0.03815	-4.6	0.03969	-0.8	0.03928	-1.8	
157	Cl7(191)		1	Y	0.04016	0.04240	5.6	0.04377	9.0	0.04233	5.4	
158	Cl7(170)-S1		1	-								
159	Cl7(170)		1	Y	0.04020	0.04769	18.6	0.04769	18.6	0.05011	24.7	
160	Cl8(198)		1	Y	0.04016	0.04076	1.5	0.04037	0.5	0.04216	5.0	
161	Cl8(199)		1	Y	0.04000	0.04075	1.9	0.04456	11.4	0.04225	5.6	
162	Cl7(190)		1	Y	0.04016	0.04132	2.9	0.04303	7.1	0.04225	5.2	
163	Cl6(169)-S2		1	-								
164	Cl6(169)	P6	1	Y	0.04016	0.03483	-13.3	0.04628	15.2	0.04824	20.1	
165	Cl8(203)		1	Y	0.04000	0.04089	2.2	0.04082	2.1	0.04029	0.7	
166	Cl9(208)	P9	1	Y	0.04016	0.04543	13.1	0.04444	10.7	0.04749	18.3	
167	Cl7(189)	P7	1	Y	0.04000	0.05389	34.7	N	0.04975	24.4	0.04677	16.9
168	Cl9(207)		1	Y	0.04000	0.03987	-0.3	0.03939	-1.5	0.04077	1.9	
169	Cl8(195)-S1		1	-								
170	Cl8(195)		1	Y	0.04008	0.03937	-1.8	0.03798	-5.2	0.04006	0.0	
171	Cl8(194)		1	Y	0.04008	0.04890	22.0	0.04796	19.7	0.04783	19.3	
172	Cl8(205)	P8	1	Y	0.04000	0.04512	12.8	0.04475	11.9	0.04273	6.8	

CCV Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SED, SEDIMENT

Calibration File: MF0785.M **Last Updated:** 3/12/2015 8:55:00 AM

					F9337.D		F9357.D		F9386.D	
					ID17 mid		ID17 mid		ID17 mid	
					03/12/2015 02:33		03/13/2015 12:38		03/15/2015 18:14	
No: Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff	MID	% Diff
173 Cl9(206)	P9	1	Y	0.04000	0.04868	21.7	0.04468	11.7	0.04306	7.7
174 Cl10(209)		1	Y	0.04008	0.04545	13.4	0.04088	2.0	0.04047	1.0
MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.					Mean PD:	5.2	5.4	5.5		
					Time Check:	< 24	< 24	< 24		

CCV Acceptance Criteria:

Frequency Hours:	<u>24</u>	Qual:	<u>N</u>
Mean PD(%):	<u>15</u>	Qual:	<u>N</u>
Individual PD(%):	<u>25</u>	Qual:	<u>N</u>

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

F9404.D

ID17 mid

03/16/2015 10:33

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
1	Cl5(96)	i	1	-			
2	Biphenyl		1	-	0.04000	0.03537	-11.6
3	Cl1(1)	P1	1	Y	0.04004	0.03613	-9.8
4	Cl1(3)	P1	1	Y	0.04000	0.03884	-2.9
5	Cl2(4)	P2	1	Y	0.04012	0.03838	-4.3
6	Cl2(7)		1	Y	0.04016	0.04481	11.6
7	Cl2(9)		1	Y	0.04000	0.03373	-15.7
8	Cl2(6)		1	Y	0.04008	0.03800	-5.2
9	Cl2(5)		1	Y	0.04000	0.03603	-9.9
10	Cl2(8)		1	Y	0.04008	0.03620	-9.7
11	Cl3(19)	P3	1	Y	0.04000	0.03880	-3.0
12	Cl3(30)		1	Y	0.04008	0.03952	-1.4
13	Cl2(11)-S1		1	-			
14	Cl2(11)		1	Y	0.04012	0.04089	1.9
15	Cl3(18)		1	Y	0.04020	0.03712	-7.7
16	Cl3(17)		1	Y	0.04016	0.04029	0.3
17	Cl2(12)		1	Y	0.04000	0.04013	0.3
18	Cl2(13)-S1		1	-			
19	Cl2(13)		1	Y	0.04016	0.03839	-4.4
20	Cl3(27)		1	Y	0.04000	0.03592	-10.2
21	Cl3(24)		1	Y	0.04016	0.03643	-9.3
22	Cl3(16)		1	Y	0.04016	0.03849	-4.2
23	Cl2(15)	P2	1	Y	0.04016	0.04413	9.9
24	Cl3(32)		1	Y	0.04000	0.03809	-4.8
25	Cl4(54)	P4	1	Y	0.04016	0.03779	-5.9
26	Cl3(34)-S1	S	1	-			
27	Cl3(34)	S	1	Y	0.04000	0.04012	0.3
28	Cl3(29)		1	Y	0.04004	0.04030	0.6
29	Cl3(26)-S1		1	-			
30	Cl3(26)		1	Y	0.04004	0.03872	-3.3
31	Cl4(50)		1	Y	0.04016	0.03835	-4.5
32	Cl3(25)		1	Y	0.04000	0.04055	1.4
33	Cl3(31)-S1		1	-			
34	Cl3(31)		1	Y	0.04020	0.04123	2.6
35	Cl4(53)		1	Y	0.04012	0.03919	-2.3
36	Cl3(28)		1	Y	0.04000	0.03821	-4.5
37	Cl3(33)		1	Y	0.04016	0.04166	3.7
38	Cl4(51)		1	Y	0.04016	0.03868	-3.7
39	Cl4(45)		1	Y	0.04000	0.04213	5.3
40	Cl3(22)		1	Y	0.04016	0.04239	5.6
41	Cl4(46)		1	Y	0.04016	0.04193	4.4
42	Cl4(43)		1	Y	0.04000	0.03874	-3.2
43	Cl4(52)		1	Y	0.04004	0.04455	11.3

CCV Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SED, SEDIMENT

Calibration File: MF0785.M **Last Updated:** 3/12/2015 8:55:00 AM

F9404.D

ID17 mid

03/16/2015 10:33

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
44	Cl4(48)		1	Y	0.04000	0.03644	-8.9
45	Cl4(49)		1	Y	0.04000	0.04609	15.2
46	Cl5(104)	P5	1	Y	0.04000	0.03947	-1.3
47	Cl4(47)-S1		1	-			
48	Cl4(47)		1	Y	0.04000	0.03738	-6.6
49	Cl4(75)		1	Y	0.04016	0.03762	-6.3
50	Cl4(44)		1	Y	0.04000	0.04205	5.1
51	Cl4(42)		1	Y	0.04016	0.04130	2.8
52	Cl4(71)		1	Y	0.04000	0.04077	1.9
53	Cl4(41)		1	Y	0.04000	0.04384	9.6
54	Cl4(64)		1	Y	0.04016	0.04297	7.0
55	Cl4(40)		1	Y	0.04020	0.04193	4.3
56	Cl3(37)-S1		1	-			
57	Cl3(37)	J1	1	Y	0.04000	0.03951	-1.2
58	Cl5(100)		1	Y	0.04016	0.04267	6.2
59	Cl4(67)		1	Y	0.04016	0.04397	9.5
60	Cl4(63)		1	Y	0.04000	0.04378	9.4
61	Cl5(95)		1	Y	0.04000	0.04301	7.5
62	Cl4(74)		1	Y	0.04000	0.04112	2.8
63	Cl4(70)		1	Y	0.04016	0.04284	6.7
64	Cl5(91)-S1		1	-			
65	Cl5(91)		1	Y	0.04020	0.04102	2.0
66	Cl4(66)-S1		1	-			
67	Cl4(66)-S2		1	-			
68	Cl4(66)		1	Y	0.04000	0.04144	3.6
69	Cl6(155)	P6	1	Y	0.04016	0.04039	0.6
70	Cl4(80)		1	Y	0.04020	0.04502	12.0
71	Cl5(92)		1	Y	0.04016	0.04237	5.5
72	Cl5(84)		1	Y	0.04016	0.04082	1.6
73	Cl4(56)-S1		1	-			
74	Cl4(56)		1	Y	0.04016	0.04385	9.2
75	Cl4(60)-S1		1	-			
76	Cl4(60)		1	Y	0.04016	0.04440	10.6
77	Cl5(101)		1	Y	0.04000	0.04436	10.9
78	Cl6(161)	i	1	-			
79	Cl5(99)		1	Y	0.04008	0.03908	-2.5
80	Cl5(83)		1	Y	0.04000	0.03909	-2.3
81	Cl5(125)		1	Y	0.04000	0.03699	-7.5
82	Cl5(97)		1	Y	0.04016	0.03770	-6.1
83	Cl5(87)		1	Y	0.03988	0.04072	2.1
84	Cl6(136)		1	Y	0.04000	0.03660	-8.5
85	Cl5(115)		1	Y	0.04016	0.03464	-13.7
86	Cl6(154)		1	Y	0.04000	0.03581	-10.5

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

F9404.D

ID17 mid

03/16/2015 10:33

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
87	Cl5(85)-S1		1	-			
88	Cl5(85)		1	Y	0.04000	0.03893	-2.7
89	Cl5(110)		1	Y	0.04004	0.03884	-3.0
90	Cl4(81)		1	Y	0.04000	0.03744	-6.4
91	Cl5(82)-S1		1	-			
92	Cl5(82)		1	Y	0.04000	0.03812	-4.7
93	Cl6(151)		1	Y	0.04008	0.03580	-10.7
94	Cl6(135)		1	Y	0.04016	0.03869	-3.7
95	Cl4(77)-S2		1	-			
96	Cl4(77)	P4	1	Y	0.04000	0.03937	-1.6
97	Cl6(144)		1	Y	0.04000	0.03682	-8.0
98	Cl6(149)		1	Y	0.04016	0.03800	-5.4
99	Cl6(139)		1	Y	0.04016	0.03837	-4.5
100	Cl5(124)-S1		1	-			
101	Cl5(124)		1	Y	0.04016	0.03753	-6.5
102	Cl6(140)		1	Y	0.04016	0.03746	-6.7
103	Cl5(123)		1	Y	0.04000	0.04043	1.1
104	Cl6(134)		1	Y	0.04016	0.03755	-6.5
105	Cl7(188)	P7	1	Y	0.04016	0.03695	-8.0
106	Cl5(118)-S1		1	-			
107	Cl5(118)-S2		1	-			
108	Cl5(118)		1	Y	0.04008	0.03764	-6.1
109	Cl6(131)		1	Y	0.04016	0.03658	-8.9
110	Cl7(184)		1	Y	0.04000	0.03885	-2.9
111	Cl6(146)		1	Y	0.04000	0.03773	-5.7
112	Cl5(114)-S1		1	-			
113	Cl5(114)		1	Y	0.04000	0.03918	-2.1
114	Cl6(152)	S	1	Y	0.04016	0.03916	-2.5
115	Cl6(153)		1	Y	0.04000	0.03947	-1.3
116	Cl7(179)		1	Y	0.04016	0.03990	-0.6
117	Cl5(105)-S1		1	-			
118	Cl5(105)		1	Y	0.04004	0.04277	6.8
119	Cl6(141)		1	Y	0.04016	0.04064	1.2
120	Cl7(176)		1	Y	0.04000	0.03786	-5.4
121	Cl6(127)-S1		1	-			
122	Cl5(127)		1	Y	0.04000	0.04237	5.9
123	Cl6(137)		1	Y	0.04016	0.04180	4.1
124	Cl6(130)		1	Y	0.04000	0.03940	-1.5
125	Cl6(164)		1	Y	0.04000	0.04168	4.2
126	Cl6(138)		1	Y	0.04000	0.03811	-4.7
127	Cl6(163)-S1		1	-			
128	Cl6(163)		1	Y	0.04000	0.04251	6.3
129	Cl7(178)		1	Y	0.04016	0.03831	-4.6

CCV Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SED, SEDIMENT

Calibration File: MF0785.M **Last Updated:** 3/12/2015 8:55:00 AM

F9404.D

ID17 mid

03/16/2015 10:33

No: Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
130 Cl6(158)		1	Y	0.04000	0.03954	-1.2
131 Cl7(175)		1	Y	0.04016	0.04200	4.6
132 Cl7(187)		1	Y	0.04000	0.04071	1.8
133 Cl6(166)-S1		1	-			
134 Cl6(166)		1	Y	0.04020	0.04087	1.7
135 Cl7(183)		1	Y	0.04000	0.04056	1.4
136 Cl5(126)	P5	1	Y	0.04016	0.04438	10.5
137 Cl6(128)-S1		1	-			
138 Cl6(128)		1	Y	0.04000	0.03968	-0.8
139 Cl7(185)		1	Y	0.04000	0.03936	-1.6
140 Cl7(174)		1	Y	0.04000	0.03876	-3.1
141 Cl6(167)		1	Y	0.04008	0.04176	4.2
142 Cl8(202)	P8	1	Y	0.04016	0.03763	-6.3
143 Cl7(177)		1	Y	0.04000	0.04143	3.6
144 Cl8(201)		1	Y	0.04004	0.03890	-2.8
145 Cl7(171)-S1		1	-			
146 Cl7(171)		1	Y	0.04020	0.03983	-0.9
147 Cl7(173)		1	Y	0.04016	0.03869	-3.7
148 Cl8(197)		1	Y	0.04000	0.03907	-2.3
149 Cl6(156)-S1		1	-			
150 Cl6(156)		1	Y	0.04000	0.04153	3.8
151 Cl7(172)		1	Y	0.04000	0.03950	-1.3
152 Cl6(157)		1	Y	0.04020	0.03929	-2.3
153 Cl7(180)		1	Y	0.04000	0.03480	-13.0
154 Cl7(193)-S1		1	-			
155 Cl7(193)		1	Y	0.04016	0.04273	6.4
156 Cl8(200)		1	Y	0.04000	0.03802	-5.0
157 Cl7(191)		1	Y	0.04016	0.04109	2.3
158 Cl7(170)-S1		1	-			
159 Cl7(170)		1	Y	0.04020	0.04599	14.4
160 Cl8(198)		1	Y	0.04016	0.03663	-8.8
161 Cl8(199)		1	Y	0.04000	0.04263	6.6
162 Cl7(190)		1	Y	0.04016	0.03975	-1.0
163 Cl6(169)-S2		1	-			
164 Cl6(169)	P6	1	Y	0.04016	0.04435	10.4
165 Cl8(203)		1	Y	0.04000	0.03798	-5.1
166 Cl9(208)	P9	1	Y	0.04016	0.04492	11.9
167 Cl7(189)	P7	1	Y	0.04000	0.04596	14.9
168 Cl9(207)		1	Y	0.04000	0.03891	-2.7
169 Cl8(195)-S1		1	-			
170 Cl8(195)		1	Y	0.04008	0.03807	-5.0
171 Cl8(194)		1	Y	0.04008	0.04620	15.3
172 Cl8(205)	P8	1	Y	0.04000	0.04449	11.2

CCV Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SED, SEDIMENT

Calibration File: MF0785.M **Last Updated:** 3/12/2015 8:55:00 AM

F9404.D

ID17 mid

03/16/2015 10:33

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
173	Cl9(206)	P9	1	Y	0.04000	0.04488	12.2
174	Cl10(209)		1	Y	0.04008	0.04562	13.8

MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.

Mean PD: **5.6**
Time Check: **< 24**

CCV Acceptance Criteria:

Frequency Hours:	<u>24</u>	Qual:	<u>N</u>
Mean PD(%):	<u>15</u>	Qual:	<u>N</u>
Individual PD(%):	<u>25</u>	Qual:	<u>N</u>

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

No:	Analyte:	Type:	Col:	MQO:	CAL	F9346.D		F9366.D		F9375.D	
						ID18 mid		ID18 mid		ID18 mid	
						03/12/2015 09:46		03/13/2015 19:49		03/15/2015 09:24	
						MID	% Diff	MID	% Diff	MID	% Diff
1	Cl5(96)	i	1	-							
2	Biphenyl		1	-	0.08000	0.06307	-21.2	0.06210	-22.4	0.06755	-15.6
3	Cl1(1)	P1	1	Y	0.08008	0.06597	-17.6	0.06706	-16.3	0.07072	-11.7
4	Cl1(3)	P1	1	Y	0.08000	0.07088	-11.4	0.07429	-7.1	0.07537	-5.8
5	Cl2(4)	P2	1	Y	0.08024	0.07026	-12.4	0.07348	-8.4	0.07440	-7.3
6	Cl2(7)		1	Y	0.08032	0.06752	-15.9	0.07076	-11.9	0.07791	-3.0
7	Cl2(9)		1	Y	0.08000	0.07461	-6.7	0.07881	-1.5	0.07470	-6.6
8	Cl2(6)		1	Y	0.08016	0.07229	-9.8	0.07377	-8.0	0.07481	-6.7
9	Cl2(5)		1	Y	0.08000	0.07253	-9.3	0.07535	-5.8	0.07428	-7.2
10	Cl2(8)		1	Y	0.08016	0.06929	-13.6	0.06831	-14.8	0.07407	-7.6
11	Cl3(19)	P3	1	Y	0.08000	0.07216	-9.8	0.07233	-9.6	0.07598	-5.0
12	Cl3(30)		1	Y	0.08016	0.07669	-4.3	0.07777	-3.0	0.07874	-1.8
13	Cl2(11)-S1		1	-							
14	Cl2(11)		1	Y	0.08024	0.07733	-3.6	0.07864	-2.0	0.08059	0.4
15	Cl3(18)		1	Y	0.08040	0.07337	-8.7	0.07348	-8.6	0.07599	-5.5
16	Cl3(17)		1	Y	0.08032	0.07350	-8.5	0.07441	-7.4	0.07751	-3.5
17	Cl2(12)		1	Y	0.08000	0.07692	-3.8	0.07832	-2.1	0.07919	-1.0
18	Cl2(13)-S1		1	-							
19	Cl2(13)		1	Y	0.08032	0.07529	-6.3	0.07492	-6.7	0.07813	-2.7
20	Cl3(27)		1	Y	0.08000	0.07085	-11.4	0.07286	-8.9	0.07376	-7.8
21	Cl3(24)		1	Y	0.08032	0.07239	-9.9	0.07369	-8.3	0.07557	-5.9
22	Cl3(16)		1	Y	0.08032	0.07824	-2.6	0.07704	-4.1	0.08057	0.3
23	Cl2(15)	P2	1	Y	0.08032	0.07703	-4.1	0.08129	1.2	0.08534	6.2
24	Cl3(32)		1	Y	0.08000	0.07184	-10.2	0.07255	-9.3	0.07454	-6.8
25	Cl4(54)	P4	1	Y	0.08032	0.07367	-8.3	0.07360	-8.4	0.07580	-5.6
26	Cl3(34)-S1	S	1	-							
27	Cl3(34)	S	1	Y	0.08000	0.07553	-5.6	0.07760	-3.0	0.07869	-1.6
28	Cl3(29)		1	Y	0.08008	0.07784	-2.8	0.07917	-1.1	0.08131	1.5
29	Cl3(26)-S1		1	-							
30	Cl3(26)		1	Y	0.08008	0.07774	-2.9	0.08327	4.0	0.08063	0.7
31	Cl4(50)		1	Y	0.08032	0.07607	-5.3	0.07953	-1.0	0.07901	-1.6
32	Cl3(25)		1	Y	0.08000	0.07567	-5.4	0.07870	-1.6	0.07866	-1.7
33	Cl3(31)-S1		1	-							
34	Cl3(31)		1	Y	0.08040	0.08064	0.3	0.08206	2.1	0.08259	2.7
35	Cl4(53)		1	Y	0.08024	0.07611	-5.1	0.07681	-4.3	0.07813	-2.6
36	Cl3(28)		1	Y	0.08000	0.07509	-6.1	0.07869	-1.6	0.07883	-1.5
37	Cl3(33)		1	Y	0.08032	0.07688	-4.3	0.07853	-2.2	0.07784	-3.1
38	Cl4(51)		1	Y	0.08032	0.07362	-8.3	0.07460	-7.1	0.07670	-4.5
39	Cl4(45)		1	Y	0.08000	0.08168	2.1	0.08165	2.1	0.08113	1.4
40	Cl3(22)		1	Y	0.08032	0.07947	-1.1	0.08266	2.9	0.08205	2.2
41	Cl4(46)		1	Y	0.08032	0.08039	0.1	0.08190	2.0	0.08068	0.4
42	Cl4(43)		1	Y	0.08000	0.08928	11.6	0.08200	2.5	0.08627	7.8
43	Cl4(52)		1	Y	0.08008	0.08347	4.2	0.07412	-7.4	0.07811	-2.5

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

					F9346.D		F9366.D		F9375.D		
					ID18 mid		ID18 mid		ID18 mid		
					03/12/2015 09:46		03/13/2015 19:49		03/15/2015 09:24		
No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff	MID	% Diff
44	Cl4(48)		1	Y	0.08000	0.08938	11.7	0.08770	9.6	0.08489	6.1
45	Cl4(49)		1	Y	0.08000	0.07615	-4.8	0.07637	-4.5	0.07966	-0.4
46	Cl5(104)	P5	1	Y	0.08000	0.08115	1.4	0.08003	0.0	0.08052	0.6
47	Cl4(47)-S1		1	-							
48	Cl4(47)		1	Y	0.08000	0.08212	2.6	0.08064	0.8	0.08483	6.0
49	Cl4(75)		1	Y	0.08032	0.08095	0.8	0.07749	-3.5	0.07679	-4.4
50	Cl4(44)		1	Y	0.08000	0.08662	8.3	0.08450	5.6	0.08507	6.3
51	Cl4(42)		1	Y	0.08032	0.08644	7.6	0.08539	6.3	0.08396	4.5
52	Cl4(71)		1	Y	0.08000	0.08527	6.6	0.08366	4.6	0.08266	3.3
53	Cl4(41)		1	Y	0.08000	0.08464	5.8	0.08171	2.1	0.08545	6.8
54	Cl4(64)		1	Y	0.08032	0.08768	9.2	0.08786	9.4	0.08917	11.0
55	Cl4(40)		1	Y	0.08040	0.08086	0.6	0.06729	-16.3	0.07699	-4.2
56	Cl3(37)-S1		1	-							
57	Cl3(37)	J1	1	Y	0.08000	0.08323	4.0	0.08250	3.1	0.08205	2.6
58	Cl5(100)		1	Y	0.08032	0.08800	9.6	0.08755	9.0	0.08724	8.6
59	Cl4(67)		1	Y	0.08032	0.09252	15.2	0.09094	13.2	0.08911	10.9
60	Cl4(63)		1	Y	0.08000	0.09084	13.6	0.09478	18.5	0.09009	12.6
61	Cl5(95)		1	Y	0.08000	0.08490	6.1	0.08911	11.4	0.08489	6.1
62	Cl4(74)		1	Y	0.08000	0.08537	6.7	0.08923	11.5	0.08429	5.4
63	Cl4(70)		1	Y	0.08032	0.08531	6.2	0.08680	8.1	0.08521	6.1
64	Cl5(91)-S1		1	-							
65	Cl5(91)		1	Y	0.08040	0.08410	4.6	0.08429	4.8	0.08251	2.6
66	Cl4(66)-S1		1	-							
67	Cl4(66)-S2		1	-							
68	Cl4(66)		1	Y	0.08000	0.08326	4.1	0.08583	7.3	0.08351	4.4
69	Cl6(155)	P6	1	Y	0.08032	0.08150	1.5	0.08311	3.5	0.08101	0.9
70	Cl4(80)		1	Y	0.08040	0.08832	9.9	0.09067	12.8	0.08719	8.4
71	Cl5(92)		1	Y	0.08032	0.07854	-2.2	0.08719	8.6	0.08187	1.9
72	Cl5(84)		1	Y	0.08032	0.09278	15.5	0.08461	5.3	0.08874	10.5
73	Cl4(56)-S1		1	-							
74	Cl4(56)		1	Y	0.08032	0.08256	2.8	0.08483	5.6	0.08309	3.4
75	Cl4(60)-S1		1	-							
76	Cl4(60)		1	Y	0.08032	0.08714	8.5	0.08579	6.8	0.08514	6.0
77	Cl5(101)		1	Y	0.08000	0.08697	8.7	0.08637	8.0	0.08589	7.4
78	Cl6(161)	i	1	-							
79	Cl5(99)		1	Y	0.08016	0.08284	3.3	0.08083	0.8	0.08196	2.2
80	Cl5(83)		1	Y	0.08000	0.08126	1.6	0.07901	-1.2	0.08135	1.7
81	Cl5(125)		1	Y	0.08000	0.08062	0.8	0.07779	-2.8	0.08129	1.6
82	Cl5(97)		1	Y	0.08032	0.07957	-0.9	0.07860	-2.1	0.08063	0.4
83	Cl5(87)		1	Y	0.07976	0.08662	8.6	0.08515	6.8	0.08725	9.4
84	Cl6(136)		1	Y	0.08000	0.07738	-3.3	0.07596	-5.1	0.07816	-2.3
85	Cl5(115)		1	Y	0.08032	0.08820	9.8	0.07101	-11.6	0.08129	1.2
86	Cl6(154)		1	Y	0.08000	0.07816	-2.3	0.07522	-6.0	0.07733	-3.3

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

					F9346.D		F9366.D		F9375.D		
					ID18 mid		ID18 mid		ID18 mid		
					03/12/2015 09:46		03/13/2015 19:49		03/15/2015 09:24		
No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff	MID	% Diff
87	Cl5(85)-S1		1	-							
88	Cl5(85)		1	Y	0.08000	0.07782	-2.7	0.07288	-8.9	0.08002	0.0
89	Cl5(110)		1	Y	0.08008	0.08248	3.0	0.08417	5.1	0.08344	4.2
90	Cl4(81)		1	Y	0.08000	0.08403	5.0	0.08346	4.3	0.08456	5.7
91	Cl5(82)-S1		1	-							
92	Cl5(82)		1	Y	0.08000	0.08261	3.3	0.08347	4.3	0.08430	5.4
93	Cl6(151)		1	Y	0.08016	0.08300	3.5	0.08192	2.2	0.08537	6.5
94	Cl6(135)		1	Y	0.08032	0.07858	-2.2	0.07977	-0.7	0.07901	-1.6
95	Cl4(77)-S2		1	-							
96	Cl4(77)	P4	1	Y	0.08000	0.08276	3.4	0.08335	4.2	0.08477	6.0
97	Cl6(144)		1	Y	0.08000	0.07658	-4.3	0.07923	-1.0	0.07806	-2.4
98	Cl6(149)		1	Y	0.08032	0.08393	4.5	0.08614	7.2	0.08236	2.5
99	Cl6(139)		1	Y	0.08032	0.08249	2.7	0.08322	3.6	0.08347	3.9
100	Cl5(124)-S1		1	-							
101	Cl5(124)		1	Y	0.08032	0.08088	0.7	0.08414	4.8	0.08216	2.3
102	Cl6(140)		1	Y	0.08032	0.07739	-3.6	0.07991	-0.5	0.07878	-1.9
103	Cl5(123)		1	Y	0.08000	0.08788	9.8	0.08792	9.9	0.08517	6.5
104	Cl6(134)		1	Y	0.08032	0.08212	2.2	0.08650	7.7	0.08392	4.5
105	Cl7(188)	P7	1	Y	0.08032	0.07973	-0.7	0.08283	3.1	0.08174	1.8
106	Cl5(118)-S1		1	-							
107	Cl5(118)-S2		1	-							
108	Cl5(118)		1	Y	0.08016	0.08160	1.8	0.08476	5.7	0.08123	1.3
109	Cl6(131)		1	Y	0.08032	0.07672	-4.5	0.08101	0.9	0.07936	-1.2
110	Cl7(184)		1	Y	0.08000	0.08270	3.4	0.08555	6.9	0.08418	5.2
111	Cl6(146)		1	Y	0.08000	0.08292	3.6	0.08390	4.9	0.08435	5.4
112	Cl5(114)-S1		1	-							
113	Cl5(114)		1	Y	0.08000	0.08136	1.7	0.08151	1.9	0.08187	2.3
114	Cl6(152)	S	1	Y	0.08032	0.08100	0.8	0.08093	0.8	0.08063	0.4
115	Cl6(153)		1	Y	0.08000	0.08136	1.7	0.08288	3.6	0.08398	5.0
116	Cl7(179)		1	Y	0.08032	0.08140	1.3	0.08480	5.6	0.08544	6.4
117	Cl5(105)-S1		1	-							
118	Cl5(105)		1	Y	0.08008	0.08491	6.0	0.08432	5.3	0.08561	6.9
119	Cl6(141)		1	Y	0.08032	0.08062	0.4	0.08079	0.6	0.08340	3.8
120	Cl7(176)		1	Y	0.08000	0.07730	-3.4	0.07928	-0.9	0.08096	1.2
121	Cl6(127)-S1		1	-							
122	Cl5(127)		1	Y	0.08000	0.08340	4.3	0.08164	2.1	0.08568	7.1
123	Cl6(137)		1	Y	0.08032	0.08209	2.2	0.08323	3.6	0.08578	6.8
124	Cl6(130)		1	Y	0.08000	0.07836	-2.1	0.07931	-0.9	0.08020	0.2
125	Cl6(164)		1	Y	0.08000	0.07931	-0.9	0.07849	-1.9	0.08450	5.6
126	Cl6(138)		1	Y	0.08000	0.07874	-1.6	0.07620	-4.7	0.08020	0.2
127	Cl6(163)-S1		1	-							
128	Cl6(163)		1	Y	0.08000	0.07956	-0.5	0.08048	0.6	0.08568	7.1
129	Cl7(178)		1	Y	0.08032	0.07534	-6.2	0.07534	-6.2	0.08061	0.4

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

No: Analyte:	Type:	Col:	MQO:	CAL	F9346.D		F9366.D		F9375.D	
					ID18 mid		ID18 mid		ID18 mid	
					03/12/2015 09:46		03/13/2015 19:49		03/15/2015 09:24	
					MID	% Diff	MID	% Diff	MID	% Diff
130 Cl6(158)		1	Y	0.08000	0.07501	-6.2	0.07445	-6.9	0.07994	-0.1
131 Cl7(175)		1	Y	0.08032	0.08307	3.4	0.08398	4.6	0.08651	7.7
132 Cl7(187)		1	Y	0.08000	0.07917	-1.0	0.07648	-4.4	0.08339	4.2
133 Cl6(166)-S1		1	-							
134 Cl6(166)		1	Y	0.08040	0.08255	2.7	0.07919	-1.5	0.08578	6.7
135 Cl7(183)		1	Y	0.08000	0.07933	-0.8	0.07675	-4.1	0.08366	4.6
136 Cl5(126)	P5	1	Y	0.08032	0.09718	21.0	0.09055	12.7	0.09561	19.0
137 Cl6(128)-S1		1	-							
138 Cl6(128)		1	Y	0.08000	0.08157	2.0	0.07585	-5.2	0.08590	7.4
139 Cl7(185)		1	Y	0.08000	0.08293	3.7	0.07628	-4.7	0.08654	8.2
140 Cl7(174)		1	Y	0.08000	0.08333	4.2	0.07854	-1.8	0.08430	5.4
141 Cl6(167)		1	Y	0.08016	0.09018	12.5	0.08590	7.2	0.09034	12.7
142 Cl8(202)	P8	1	Y	0.08032	0.08038	0.1	0.07501	-6.6	0.08390	4.5
143 Cl7(177)		1	Y	0.08000	0.08446	5.6	0.07870	-1.6	0.08745	9.3
144 Cl8(201)		1	Y	0.08008	0.07866	-1.8	0.07526	-6.0	0.08314	3.8
145 Cl7(171)-S1		1	-							
146 Cl7(171)		1	Y	0.08040	0.08149	1.4	0.07692	-4.3	0.08506	5.8
147 Cl7(173)		1	Y	0.08032	0.08145	1.4	0.07407	-7.8	0.08448	5.2
148 Cl8(197)		1	Y	0.08000	0.08287	3.6	0.07873	-1.6	0.08612	7.7
149 Cl6(156)-S1		1	-							
150 Cl6(156)		1	Y	0.08000	0.08995	12.4	0.08389	4.9	0.09101	13.8
151 Cl7(172)		1	Y	0.08000	0.08097	1.2	0.07658	-4.3	0.08478	6.0
152 Cl6(157)		1	Y	0.08040	0.08228	2.3	0.07611	-5.3	0.08397	4.4
153 Cl7(180)		1	Y	0.08000	0.08663	8.3	0.07336	-8.3	0.08743	9.3
154 Cl7(193)-S1		1	-							
155 Cl7(193)		1	Y	0.08032	0.07975	-0.7	0.08112	1.0	0.08177	1.8
156 Cl8(200)		1	Y	0.08000	0.07656	-4.3	0.07236	-9.6	0.07906	-1.2
157 Cl7(191)		1	Y	0.08032	0.08288	3.2	0.07938	-1.2	0.08678	8.0
158 Cl7(170)-S1		1	-							
159 Cl7(170)		1	Y	0.08040	0.09154	13.9	0.08821	9.7	0.09595	19.3
160 Cl8(198)		1	Y	0.08032	0.07248	-9.8	0.07300	-9.1	0.07709	-4.0
161 Cl8(199)		1	Y	0.08000	0.07458	-6.8	0.08107	1.3	0.07669	-4.1
162 Cl7(190)		1	Y	0.08032	0.08260	2.8	0.07737	-3.7	0.08597	7.0
163 Cl6(169)-S2		1	-							
164 Cl6(169)	P6	1	Y	0.08032	0.09073	13.0	0.08528	6.2	0.09348	16.4
165 Cl8(203)		1	Y	0.08000	0.07929	-0.9	0.07342	-8.2	0.08360	4.5
166 Cl9(208)	P9	1	Y	0.08032	0.08982	11.8	0.08511	6.0	0.09508	18.4
167 Cl7(189)	P7	1	Y	0.08000	0.09922	24.0	0.09179	14.7	0.09737	21.7
168 Cl9(207)		1	Y	0.08000	0.07918	-1.0	0.07248	-9.4	0.08330	4.1
169 Cl8(195)-S1		1	-							
170 Cl8(195)		1	Y	0.08016	0.07860	-1.9	0.07283	-9.1	0.08174	2.0
171 Cl8(194)		1	Y	0.08016	0.09696	21.0	0.08698	8.5	0.09560	19.3
172 Cl8(205)	P8	1	Y	0.08000	0.08963	12.0	0.08167	2.1	0.08630	7.9

CCV Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SED, SEDIMENT

Calibration File: MF0785.M **Last Updated:** 3/12/2015 8:55:00 AM

				F9346.D			F9366.D			F9375.D		
				ID18 mid			ID18 mid			ID18 mid		
				03/12/2015 09:46			03/13/2015 19:49			03/15/2015 09:24		
No: Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff		MID	% Diff	MID	% Diff	
173 Cl9(206)	P9	1	Y	0.08000	0.10085	26.1	N	0.08450	5.6	0.08925	11.6	
174 Cl10(209)		1	Y	0.08016	0.09262	15.5		0.07928	-1.1	0.07944	-0.9	
MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.				Mean PD:			5.9	5.5			5.2	
				Time Check:			< 24	< 24			< 24	

CCV Acceptance Criteria:

Frequency Hours:	<u>24</u>	Qual:	<u>N</u>
Mean PD(%):	<u>15</u>	Qual:	<u>N</u>
Individual PD(%):	<u>25</u>	Qual:	<u>N</u>

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

F9395.D

ID18 mid

03/16/2015 01:25

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
1	Cl5(96)	i	1	-			
2	Biphenyl		1	-	0.08000	0.06588	-17.7
3	Cl1(1)	P1	1	Y	0.08008	0.06793	-15.2
4	Cl1(3)	P1	1	Y	0.08000	0.07289	-8.9
5	Cl2(4)	P2	1	Y	0.08024	0.07185	-10.5
6	Cl2(7)		1	Y	0.08032	0.08294	3.3
7	Cl2(9)		1	Y	0.08000	0.06236	-22.1
8	Cl2(6)		1	Y	0.08016	0.07728	-3.6
9	Cl2(5)		1	Y	0.08000	0.07390	-7.6
10	Cl2(8)		1	Y	0.08016	0.07935	-1.0
11	Cl3(19)	P3	1	Y	0.08000	0.07633	-4.6
12	Cl3(30)		1	Y	0.08016	0.07828	-2.3
13	Cl2(11)-S1		1	-			
14	Cl2(11)		1	Y	0.08024	0.07725	-3.7
15	Cl3(18)		1	Y	0.08040	0.07362	-8.4
16	Cl3(17)		1	Y	0.08032	0.07542	-6.1
17	Cl2(12)		1	Y	0.08000	0.07765	-2.9
18	Cl2(13)-S1		1	-			
19	Cl2(13)		1	Y	0.08032	0.07661	-4.6
20	Cl3(27)		1	Y	0.08000	0.07289	-8.9
21	Cl3(24)		1	Y	0.08032	0.07482	-6.8
22	Cl3(16)		1	Y	0.08032	0.07801	-2.9
23	Cl2(15)	P2	1	Y	0.08032	0.07864	-2.1
24	Cl3(32)		1	Y	0.08000	0.07324	-8.5
25	Cl4(54)	P4	1	Y	0.08032	0.07447	-7.3
26	Cl3(34)-S1	S	1	-			
27	Cl3(34)	S	1	Y	0.08000	0.07805	-2.4
28	Cl3(29)		1	Y	0.08008	0.07983	-0.3
29	Cl3(26)-S1		1	-			
30	Cl3(26)		1	Y	0.08008	0.07898	-1.4
31	Cl4(50)		1	Y	0.08032	0.07735	-3.7
32	Cl3(25)		1	Y	0.08000	0.07697	-3.8
33	Cl3(31)-S1		1	-			
34	Cl3(31)		1	Y	0.08040	0.08029	-0.1
35	Cl4(53)		1	Y	0.08024	0.07700	-4.0
36	Cl3(28)		1	Y	0.08000	0.07871	-1.6
37	Cl3(33)		1	Y	0.08032	0.08260	2.8
38	Cl4(51)		1	Y	0.08032	0.07648	-4.8
39	Cl4(45)		1	Y	0.08000	0.08324	4.0
40	Cl3(22)		1	Y	0.08032	0.08033	0.0
41	Cl4(46)		1	Y	0.08032	0.08096	0.8
42	Cl4(43)		1	Y	0.08000	0.07928	-0.9
43	Cl4(52)		1	Y	0.08008	0.08353	4.3

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

F9395.D

ID18 mid

03/16/2015 01:25

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
44	Cl4(48)		1	Y	0.08000	0.07642	-4.5
45	Cl4(49)		1	Y	0.08000	0.08478	6.0
46	Cl5(104)	P5	1	Y	0.08000	0.07928	-0.9
47	Cl4(47)-S1		1	-			
48	Cl4(47)		1	Y	0.08000	0.07878	-1.5
49	Cl4(75)		1	Y	0.08032	0.08098	0.8
50	Cl4(44)		1	Y	0.08000	0.08488	6.1
51	Cl4(42)		1	Y	0.08032	0.08437	5.0
52	Cl4(71)		1	Y	0.08000	0.08292	3.6
53	Cl4(41)		1	Y	0.08000	0.08653	8.2
54	Cl4(64)		1	Y	0.08032	0.08497	5.8
55	Cl4(40)		1	Y	0.08040	0.08354	3.9
56	Cl3(37)-S1		1	-			
57	Cl3(37)	J1	1	Y	0.08000	0.08142	1.8
58	Cl5(100)		1	Y	0.08032	0.08714	8.5
59	Cl4(67)		1	Y	0.08032	0.09040	12.5
60	Cl4(63)		1	Y	0.08000	0.08880	11.0
61	Cl5(95)		1	Y	0.08000	0.08485	6.1
62	Cl4(74)		1	Y	0.08000	0.08204	2.6
63	Cl4(70)		1	Y	0.08032	0.08596	7.0
64	Cl5(91)-S1		1	-			
65	Cl5(91)		1	Y	0.08040	0.08446	5.0
66	Cl4(66)-S1		1	-			
67	Cl4(66)-S2		1	-			
68	Cl4(66)		1	Y	0.08000	0.08330	4.1
69	Cl6(155)	P6	1	Y	0.08032	0.08170	1.7
70	Cl4(80)		1	Y	0.08040	0.08780	9.2
71	Cl5(92)		1	Y	0.08032	0.07160	-10.9
72	Cl5(84)		1	Y	0.08032	0.08408	4.7
73	Cl4(56)-S1		1	-			
74	Cl4(56)		1	Y	0.08032	0.08247	2.7
75	Cl4(60)-S1		1	-			
76	Cl4(60)		1	Y	0.08032	0.08507	5.9
77	Cl5(101)		1	Y	0.08000	0.08626	7.8
78	Cl6(161)	i	1	-			
79	Cl5(99)		1	Y	0.08016	0.08096	1.0
80	Cl5(83)		1	Y	0.08000	0.07923	-1.0
81	Cl5(125)		1	Y	0.08000	0.07810	-2.4
82	Cl5(97)		1	Y	0.08032	0.08174	1.8
83	Cl5(87)		1	Y	0.07976	0.08551	7.2
84	Cl6(136)		1	Y	0.08000	0.07788	-2.6
85	Cl5(115)		1	Y	0.08032	0.06828	-15.0
86	Cl6(154)		1	Y	0.08000	0.07798	-2.5

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

F9395.D

ID18 mid

03/16/2015 01:25

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
87	Cl5(85)-S1		1	-			
88	Cl5(85)		1	Y	0.08000	0.08142	1.8
89	Cl5(110)		1	Y	0.08008	0.08171	2.0
90	Cl4(81)		1	Y	0.08000	0.08267	3.3
91	Cl5(82)-S1		1	-			
92	Cl5(82)		1	Y	0.08000	0.08193	2.4
93	Cl6(151)		1	Y	0.08016	0.08132	1.4
94	Cl6(135)		1	Y	0.08032	0.08068	0.4
95	Cl4(77)-S2		1	-			
96	Cl4(77)	P4	1	Y	0.08000	0.08170	2.1
97	Cl6(144)		1	Y	0.08000	0.07878	-1.5
98	Cl6(149)		1	Y	0.08032	0.07989	-0.5
99	Cl6(139)		1	Y	0.08032	0.08004	-0.3
100	Cl5(124)-S1		1	-			
101	Cl5(124)		1	Y	0.08032	0.07966	-0.8
102	Cl6(140)		1	Y	0.08032	0.07969	-0.8
103	Cl5(123)		1	Y	0.08000	0.08753	9.4
104	Cl6(134)		1	Y	0.08032	0.08243	2.6
105	Cl7(188)	P7	1	Y	0.08032	0.08040	0.1
106	Cl5(118)-S1		1	-			
107	Cl5(118)-S2		1	-			
108	Cl5(118)		1	Y	0.08016	0.08059	0.5
109	Cl6(131)		1	Y	0.08032	0.07709	-4.0
110	Cl7(184)		1	Y	0.08000	0.08276	3.4
111	Cl6(146)		1	Y	0.08000	0.08018	0.2
112	Cl5(114)-S1		1	-			
113	Cl5(114)		1	Y	0.08000	0.08191	2.4
114	Cl6(152)	S	1	Y	0.08032	0.08012	-0.2
115	Cl6(153)		1	Y	0.08000	0.08303	3.8
116	Cl7(179)		1	Y	0.08032	0.08338	3.8
117	Cl5(105)-S1		1	-			
118	Cl5(105)		1	Y	0.08008	0.08460	5.6
119	Cl6(141)		1	Y	0.08032	0.08354	4.0
120	Cl7(176)		1	Y	0.08000	0.08030	0.4
121	Cl6(127)-S1		1	-			
122	Cl5(127)		1	Y	0.08000	0.08156	1.9
123	Cl6(137)		1	Y	0.08032	0.08392	4.5
124	Cl6(130)		1	Y	0.08000	0.07455	-6.8
125	Cl6(164)		1	Y	0.08000	0.08673	8.4
126	Cl6(138)		1	Y	0.08000	0.07016	-12.3
127	Cl6(163)-S1		1	-			
128	Cl6(163)		1	Y	0.08000	0.09000	12.5
129	Cl7(178)		1	Y	0.08032	0.08062	0.4

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0785.MLast Updated: 3/12/2015 8:55:00 AM

F9395.D

ID18 mid

03/16/2015 01:25

No: Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
130 Cl6(158)		1	Y	0.08000	0.08027	0.3
131 Cl7(175)		1	Y	0.08032	0.08405	4.6
132 Cl7(187)		1	Y	0.08000	0.08396	5.0
133 Cl6(166)-S1		1	-			
134 Cl6(166)		1	Y	0.08040	0.08520	6.0
135 Cl7(183)		1	Y	0.08000	0.08178	2.2
136 Cl5(126)	P5	1	Y	0.08032	0.09255	15.2
137 Cl6(128)-S1		1	-			
138 Cl6(128)		1	Y	0.08000	0.08339	4.2
139 Cl7(185)		1	Y	0.08000	0.08318	4.0
140 Cl7(174)		1	Y	0.08000	0.08425	5.3
141 Cl6(167)		1	Y	0.08016	0.08657	8.0
142 Cl8(202)	P8	1	Y	0.08032	0.08274	3.0
143 Cl7(177)		1	Y	0.08000	0.08348	4.3
144 Cl8(201)		1	Y	0.08008	0.08190	2.3
145 Cl7(171)-S1		1	-			
146 Cl7(171)		1	Y	0.08040	0.08197	2.0
147 Cl7(173)		1	Y	0.08032	0.08314	3.5
148 Cl8(197)		1	Y	0.08000	0.08454	5.7
149 Cl6(156)-S1		1	-			
150 Cl6(156)		1	Y	0.08000	0.08994	12.4
151 Cl7(172)		1	Y	0.08000	0.08262	3.3
152 Cl6(157)		1	Y	0.08040	0.08258	2.7
153 Cl7(180)		1	Y	0.08000	0.08302	3.8
154 Cl7(193)-S1		1	-			
155 Cl7(193)		1	Y	0.08032	0.08280	3.1
156 Cl8(200)		1	Y	0.08000	0.07866	-1.7
157 Cl7(191)		1	Y	0.08032	0.08456	5.3
158 Cl7(170)-S1		1	-			
159 Cl7(170)		1	Y	0.08040	0.09631	19.8
160 Cl8(198)		1	Y	0.08032	0.08566	6.6
161 Cl8(199)		1	Y	0.08000	0.08114	1.4
162 Cl7(190)		1	Y	0.08032	0.08483	5.6
163 Cl6(169)-S2		1	-			
164 Cl6(169)	P6	1	Y	0.08032	0.09170	14.2
165 Cl8(203)		1	Y	0.08000	0.08149	1.9
166 Cl9(208)	P9	1	Y	0.08032	0.09292	15.7
167 Cl7(189)	P7	1	Y	0.08000	0.09863	23.3
168 Cl9(207)		1	Y	0.08000	0.08059	0.7
169 Cl8(195)-S1		1	-			
170 Cl8(195)		1	Y	0.08016	0.07844	-2.1
171 Cl8(194)		1	Y	0.08016	0.09455	18.0
172 Cl8(205)	P8	1	Y	0.08000	0.08624	7.8

CCV Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SED, SEDIMENT

Calibration File: MF0785.M **Last Updated:** 3/12/2015 8:55:00 AM

F9395.D

ID18 mid

03/16/2015 01:25

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
173	Cl9(206)	P9	1	Y	0.08000	0.09072	13.4
174	Cl10(209)		1	Y	0.08016	0.08298	3.5

MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.

Mean PD: **5.0**
Time Check: **< 24**

CCV Acceptance Criteria:

Frequency Hours:	<u>24</u>	Qual:	<u>N</u>
Mean PD(%):	<u>15</u>	Qual:	<u>N</u>
Individual PD(%):	<u>25</u>	Qual:	<u>N</u>

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0787.MLast Updated: 3/18/2015 11:21:00 AM

No:	Analyte:	Type:	Col:	MQO:	CAL	F9436A.D		F9445.D		F9457.D	
						ID18 MID		ID18 MID		ID18 MID	
						03/18/2015 08:03		03/18/2015 16:02		03/19/2015 01:37	
						MID	% Diff	MID	% Diff	MID	% Diff
1	Cl5(96)	i	1	-							
2	Biphenyl		1	-	0.08000	0.07869	-1.6	0.06483	-19.0	0.06311	-21.1
3	Cl1(1)	P1	1	Y	0.08008	0.08139	1.6	0.06735	-15.9	0.06741	-15.8
4	Cl1(3)	P1	1	Y	0.08000	0.08101	1.3	0.07109	-11.1	0.07096	-11.3
5	Cl2(4)	P2	1	Y	0.08024	0.08139	1.4	0.07169	-10.7	0.07019	-12.5
6	Cl2(7)		1	Y	0.08032	0.09038	12.5	0.08341	3.8	0.06620	-17.6
7	Cl2(9)		1	Y	0.08000	0.07772	-2.9	0.06896	-13.8	0.08210	2.6
8	Cl2(6)		1	Y	0.08016	0.08052	0.4	0.07389	-7.8	0.07283	-9.1
9	Cl2(5)		1	Y	0.08000	0.07927	-0.9	0.07227	-9.7	0.07262	-9.2
10	Cl2(8)		1	Y	0.08016	0.08364	4.3	0.07722	-3.7	0.07579	-5.5
11	Cl3(19)	P3	1	Y	0.08000	0.07976	-0.3	0.07547	-5.7	0.07490	-6.4
12	Cl3(30)		1	Y	0.08016	0.08417	5.0	0.07866	-1.9	0.07849	-2.1
13	Cl2(11)-S1		1	-							
14	Cl2(11)		1	Y	0.08024	0.08020	0.0	0.07738	-3.6	0.07709	-3.9
15	Cl3(18)		1	Y	0.08040	0.08134	1.2	0.07686	-4.4	0.07692	-4.3
16	Cl3(17)		1	Y	0.08032	0.08000	-0.4	0.07660	-4.6	0.07592	-5.5
17	Cl2(12)		1	Y	0.08000	0.08266	3.3	0.07873	-1.6	0.07839	-2.0
18	Cl2(13)-S1		1	-							
19	Cl2(13)		1	Y	0.08032	0.08206	2.2	0.07971	-0.8	0.07803	-2.9
20	Cl3(27)		1	Y	0.08000	0.08112	1.4	0.07921	-1.0	0.07807	-2.4
21	Cl3(24)		1	Y	0.08032	0.08103	0.9	0.07851	-2.3	0.07673	-4.5
22	Cl3(16)		1	Y	0.08032	0.08037	0.1	0.07869	-2.0	0.07849	-2.3
23	Cl2(15)	P2	1	Y	0.08032	0.08281	3.1	0.07720	-3.9	0.07959	-0.9
24	Cl3(32)		1	Y	0.08000	0.08095	1.2	0.07868	-1.7	0.07765	-2.9
25	Cl4(54)	P4	1	Y	0.08032	0.08179	1.8	0.08129	1.2	0.07923	-1.4
26	Cl3(34)-S1	S	1	-							
27	Cl3(34)	S	1	Y	0.08000	0.08194	2.4	0.07961	-0.5	0.07954	-0.6
28	Cl3(29)		1	Y	0.08008	0.08136	1.6	0.07969	-0.5	0.07859	-1.9
29	Cl3(26)-S1		1	-							
30	Cl3(26)		1	Y	0.08008	0.08101	1.2	0.07937	-0.9	0.07759	-3.1
31	Cl4(50)		1	Y	0.08032	0.08266	2.9	0.08034	0.0	0.07980	-0.6
32	Cl3(25)		1	Y	0.08000	0.08046	0.6	0.07900	-1.3	0.07810	-2.4
33	Cl3(31)-S1		1	-							
34	Cl3(31)		1	Y	0.08040	0.08158	1.5	0.07825	-2.7	0.08007	-0.4
35	Cl4(53)		1	Y	0.08024	0.08181	2.0	0.07991	-0.4	0.08013	-0.1
36	Cl3(28)		1	Y	0.08000	0.07995	-0.1	0.08013	0.2	0.07985	-0.2
37	Cl3(33)		1	Y	0.08032	0.08241	2.6	0.07857	-2.2	0.07900	-1.6
38	Cl4(51)		1	Y	0.08032	0.08100	0.8	0.07982	-0.6	0.07953	-1.0
39	Cl4(45)		1	Y	0.08000	0.08139	1.7	0.07923	-1.0	0.07960	-0.5
40	Cl3(22)		1	Y	0.08032	0.08143	1.4	0.07686	-4.3	0.07761	-3.4
41	Cl4(46)		1	Y	0.08032	0.08079	0.6	0.08031	0.0	0.07841	-2.4
42	Cl4(43)		1	Y	0.08000	0.07961	-0.5	0.08042	0.5	0.08244	3.0
43	Cl4(52)		1	Y	0.08008	0.07671	-4.2	0.08151	1.8	0.07986	-0.3

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0787.MLast Updated: 3/18/2015 11:21:00 AM

No:	Analyte:	Type:	Col:	MQO:	CAL	F9436A.D		F9445.D		F9457.D	
						ID18 MID		ID18 MID		ID18 MID	
						03/18/2015 08:03		03/18/2015 16:02		03/19/2015 01:37	
						MID	% Diff	MID	% Diff	MID	% Diff
44	CI4(48)		1	Y	0.08000	0.09243	15.5	0.09433	17.9	0.08514	6.4
45	CI4(49)		1	Y	0.08000	0.07954	-0.6	0.07183	-10.2	0.07261	-9.2
46	CI5(104)	P5	1	Y	0.08000	0.07933	-0.8	0.07922	-1.0	0.08067	0.8
47	CI4(47)-S1		1	-							
48	CI4(47)		1	Y	0.08000	0.08532	6.6	0.07859	-1.8	0.08048	0.6
49	CI4(75)		1	Y	0.08032	0.07989	-0.5	0.08158	1.6	0.08150	1.5
50	CI4(44)		1	Y	0.08000	0.08120	1.5	0.07930	-0.9	0.07995	-0.1
51	CI4(42)		1	Y	0.08032	0.08167	1.7	0.08042	0.1	0.07999	-0.4
52	CI4(71)		1	Y	0.08000	0.08358	4.5	0.07997	0.0	0.07673	-4.1
53	CI4(41)		1	Y	0.08000	0.08084	1.0	0.08297	3.7	0.08112	1.4
54	CI4(64)		1	Y	0.08032	0.08469	5.4	0.08063	0.4	0.08123	1.1
55	CI4(40)		1	Y	0.08040	0.07930	-1.4	0.08405	4.5	0.08219	2.2
56	CI3(37)-S1		1	-							
57	CI3(37)	J1	1	Y	0.08000	0.08427	5.3	0.08119	1.5	0.08318	4.0
58	CI5(100)		1	Y	0.08032	0.08098	0.8	0.08081	0.6	0.08132	1.2
59	CI4(67)		1	Y	0.08032	0.08367	4.2	0.08167	1.7	0.08264	2.9
60	CI4(63)		1	Y	0.08000	0.08351	4.4	0.08167	2.1	0.08086	1.1
61	CI5(95)		1	Y	0.08000	0.08077	1.0	0.08118	1.5	0.08064	0.8
62	CI4(74)		1	Y	0.08000	0.08025	0.3	0.08001	0.0	0.07960	-0.5
63	CI4(70)		1	Y	0.08032	0.07936	-1.2	0.08109	1.0	0.08128	1.2
64	CI5(91)-S1		1	-							
65	CI5(91)		1	Y	0.08040	0.07956	-1.0	0.07973	-0.8	0.08094	0.7
66	CI4(66)-S1		1	-							
67	CI4(66)-S2		1	-							
68	CI4(66)		1	Y	0.08000	0.08310	3.9	0.08082	1.0	0.08035	0.4
69	CI6(155)	P6	1	Y	0.08032	0.08016	-0.2	0.08117	1.1	0.08088	0.7
70	CI4(80)		1	Y	0.08040	0.08403	4.5	0.08234	2.4	0.08236	2.4
71	CI5(92)		1	Y	0.08032	0.08381	4.3	0.07696	-4.2	0.09272	15.4
72	CI5(84)		1	Y	0.08032	0.07654	-4.7	0.08448	5.2	0.08111	1.0
73	CI4(56)-S1		1	-							
74	CI4(56)		1	Y	0.08032	0.08180	1.8	0.08073	0.5	0.08022	-0.1
75	CI4(60)-S1		1	-							
76	CI4(60)		1	Y	0.08032	0.08140	1.3	0.08091	0.7	0.08059	0.3
77	CI5(101)		1	Y	0.08000	0.08108	1.3	0.08152	1.9	0.07996	0.0
78	CI6(161)	i	1	-							
79	CI5(99)		1	Y	0.08016	0.07654	-4.5	0.07382	-7.9	0.07914	-1.3
80	CI5(83)		1	Y	0.08000	0.07723	-3.5	0.07300	-8.8	0.07446	-6.9
81	CI5(125)		1	Y	0.08000	0.07697	-3.8	0.07546	-5.7	0.07442	-7.0
82	CI5(97)		1	Y	0.08032	0.07484	-6.8	0.07299	-9.1	0.07574	-5.7
83	CI5(87)		1	Y	0.07976	0.07638	-4.2	0.07417	-7.0	0.07781	-2.4
84	CI6(136)		1	Y	0.08000	0.07618	-4.8	0.07386	-7.7	0.07749	-3.1
85	CI5(115)		1	Y	0.08032	0.06775	-15.6	0.06102	-24.0	0.06609	-17.7
86	CI6(154)		1	Y	0.08000	0.07736	-3.3	0.07571	-5.4	0.07682	-4.0

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0787.MLast Updated: 3/18/2015 11:21:00 AM

No: Analyte:	Type:	Col:	MQO:	CAL	F9436A.D		F9445.D		F9457.D	
					ID18 MID		ID18 MID		ID18 MID	
					03/18/2015 08:03		03/18/2015 16:02		03/19/2015 01:37	
					MID	% Diff	MID	% Diff	MID	% Diff
87	Cl5(85)-S1		1	-						
88	Cl5(85)		1	Y	0.08000	0.08144 1.8	0.08434	5.4	0.07271	-9.1
89	Cl5(110)		1	Y	0.08008	0.07816 -2.4	0.07472	-6.7	0.07878	-1.6
90	Cl4(81)		1	Y	0.08000	0.08248 3.1	0.07745	-3.2	0.08072	0.9
91	Cl5(82)-S1		1	-						
92	Cl5(82)		1	Y	0.08000	0.07319 -8.5	0.07309	-8.6	0.07336	-8.3
93	Cl6(151)		1	Y	0.08016	0.07794 -2.8	0.07303	-8.9	0.07835	-2.3
94	Cl6(135)		1	Y	0.08032	0.07360 -8.4	0.07808	-2.8	0.07919	-1.4
95	Cl4(77)-S2		1	-						
96	Cl4(77)	P4	1	Y	0.08000	0.08331 4.1	0.07879	-1.5	0.08415	5.2
97	Cl6(144)		1	Y	0.08000	0.07618 -4.8	0.07650	-4.4	0.07801	-2.5
98	Cl6(149)		1	Y	0.08032	0.07856 -2.2	0.07515	-6.4	0.07630	-5.0
99	Cl6(139)		1	Y	0.08032	0.07891 -1.8	0.07620	-5.1	0.07743	-3.6
100	Cl5(124)-S1		1	-						
101	Cl5(124)		1	Y	0.08032	0.07955 -1.0	0.07675	-4.4	0.07830	-2.5
102	Cl6(140)		1	Y	0.08032	0.07720 -3.9	0.07923	-1.4	0.07855	-2.2
103	Cl5(123)		1	Y	0.08000	0.07947 -0.7	0.07570	-5.4	0.08000	0.0
104	Cl6(134)		1	Y	0.08032	0.07862 -2.1	0.07684	-4.3	0.08033	0.0
105	Cl7(188)	P7	1	Y	0.08032	0.07747 -3.5	0.07595	-5.4	0.07795	-3.0
106	Cl5(118)-S1		1	-						
107	Cl5(118)-S2		1	-						
108	Cl5(118)		1	Y	0.08016	0.08013 0.0	0.07592	-5.3	0.07819	-2.5
109	Cl6(131)		1	Y	0.08032	0.07803 -2.9	0.07590	-5.5	0.07807	-2.8
110	Cl7(184)		1	Y	0.08000	0.07821 -2.2	0.07633	-4.6	0.07846	-1.9
111	Cl6(146)		1	Y	0.08000	0.07683 -4.0	0.07678	-4.0	0.07904	-1.2
112	Cl5(114)-S1		1	-						
113	Cl5(114)		1	Y	0.08000	0.07900 -1.3	0.07791	-2.6	0.07989	-0.1
114	Cl6(152)	S	1	Y	0.08032	0.07727 -3.8	0.07734	-3.7	0.08011	-0.3
115	Cl6(153)		1	Y	0.08000	0.07874 -1.6	0.07636	-4.6	0.07856	-1.8
116	Cl7(179)		1	Y	0.08032	0.07981 -0.6	0.07813	-2.7	0.08082	0.6
117	Cl5(105)-S1		1	-						
118	Cl5(105)		1	Y	0.08008	0.08103 1.2	0.07658	-4.4	0.08015	0.1
119	Cl6(141)		1	Y	0.08032	0.07839 -2.4	0.07690	-4.3	0.07922	-1.4
120	Cl7(176)		1	Y	0.08000	0.07917 -1.0	0.07753	-3.1	0.07917	-1.0
121	Cl6(127)-S1		1	-						
122	Cl5(127)		1	Y	0.08000	0.08004 0.0	0.07808	-2.4	0.08035	0.4
123	Cl6(137)		1	Y	0.08032	0.07935 -1.2	0.07855	-2.2	0.08073	0.5
124	Cl6(130)		1	Y	0.08000	0.08841 10.5	0.07512	-6.1	0.07763	-3.0
125	Cl6(164)		1	Y	0.08000	0.07150 -10.6	0.06798	-15.0	0.06984	-12.7
126	Cl6(138)		1	Y	0.08000	0.09336 16.7	0.09179	14.7	0.08218	2.7
127	Cl6(163)-S1		1	-						
128	Cl6(163)		1	Y	0.08000	0.07077 -11.5	0.06769	-15.4	0.06822	-14.7
129	Cl7(178)		1	Y	0.08032	0.07879 -1.9	0.07676	-4.4	0.07972	-0.7

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0787.MLast Updated: 3/18/2015 11:21:00 AM

No: Analyte:	Type:	Col:	MQO:	CAL	F9436A.D		F9445.D		F9457.D	
					ID18 MID		ID18 MID		ID18 MID	
					03/18/2015 08:03		03/18/2015 16:02		03/19/2015 01:37	
					MID	% Diff	MID	% Diff	MID	% Diff
130 Cl6(158)		1	Y	0.08000	0.07875	-1.6	0.07628	-4.7	0.07893	-1.3
131 Cl7(175)		1	Y	0.08032	0.08043	0.1	0.07490	-6.7	0.07872	-2.0
132 Cl7(187)		1	Y	0.08000	0.07860	-1.7	0.07723	-3.5	0.07829	-2.1
133 Cl6(166)-S1		1	-							
134 Cl6(166)		1	Y	0.08040	0.07895	-1.8	0.07631	-5.1	0.07876	-2.0
135 Cl7(183)		1	Y	0.08000	0.07853	-1.8	0.07534	-5.8	0.07848	-1.9
136 Cl5(126)	P5	1	Y	0.08032	0.08703	8.4	0.08199	2.1	0.08478	5.6
137 Cl6(128)-S1		1	-							
138 Cl6(128)		1	Y	0.08000	0.07899	-1.3	0.07638	-4.5	0.07921	-1.0
139 Cl7(185)		1	Y	0.08000	0.07816	-2.3	0.07743	-3.2	0.07914	-1.1
140 Cl7(174)		1	Y	0.08000	0.07766	-2.9	0.07631	-4.6	0.07922	-1.0
141 Cl6(167)		1	Y	0.08016	0.08092	0.9	0.07737	-3.5	0.08057	0.5
142 Cl8(202)	P8	1	Y	0.08032	0.07836	-2.4	0.07667	-4.5	0.07928	-1.3
143 Cl7(177)		1	Y	0.08000	0.07737	-3.3	0.07639	-4.5	0.07873	-1.6
144 Cl8(201)		1	Y	0.08008	0.07721	-3.6	0.07541	-5.8	0.07836	-2.1
145 Cl7(171)-S1		1	-							
146 Cl7(171)		1	Y	0.08040	0.07453	-7.3	0.07467	-7.1	0.07634	-5.0
147 Cl7(173)		1	Y	0.08032	0.07705	-4.1	0.07938	-1.2	0.07810	-2.8
148 Cl8(197)		1	Y	0.08000	0.07524	-6.0	0.07716	-3.5	0.07960	-0.5
149 Cl6(156)-S1		1	-							
150 Cl6(156)		1	Y	0.08000	0.07998	0.0	0.07848	-1.9	0.08021	0.3
151 Cl7(172)		1	Y	0.08000	0.07495	-6.3	0.07538	-5.8	0.07813	-2.3
152 Cl6(157)		1	Y	0.08040	0.07855	-2.3	0.07787	-3.1	0.08066	0.3
153 Cl7(180)		1	Y	0.08000	0.07759	-3.0	0.07641	-4.5	0.08068	0.9
154 Cl7(193)-S1		1	-							
155 Cl7(193)		1	Y	0.08032	0.08493	5.7	0.08558	6.5	0.08552	6.5
156 Cl8(200)		1	Y	0.08000	0.07338	-8.3	0.07400	-7.5	0.07720	-3.5
157 Cl7(191)		1	Y	0.08032	0.07656	-4.7	0.07732	-3.7	0.08015	-0.2
158 Cl7(170)-S1		1	-							
159 Cl7(170)		1	Y	0.08040	0.07335	-8.8	0.07667	-4.6	0.07555	-6.0
160 Cl8(198)		1	Y	0.08032	0.08682	8.1	0.06895	-14.2	0.07176	-10.7
161 Cl8(199)		1	Y	0.08000	0.05928	-25.9	0.06398	-20.0	0.06171	-22.9
162 Cl7(190)		1	Y	0.08032	0.07363	-8.3	0.07694	-4.2	0.07717	-3.9
163 Cl6(169)-S2		1	-							
164 Cl6(169)	P6	1	Y	0.08032	0.07647	-4.8	0.08264	2.9	0.08030	0.0
165 Cl8(203)		1	Y	0.08000	0.07136	-10.8	0.07628	-4.7	0.07313	-8.6
166 Cl9(208)	P9	1	Y	0.08032	0.07076	-11.9	0.07626	-5.1	0.07265	-9.5
167 Cl7(189)	P7	1	Y	0.08000	0.07154	-10.6	0.08624	7.8	0.07682	-4.0
168 Cl9(207)		1	Y	0.08000	0.06703	-16.2	0.07430	-7.1	0.07056	-11.8
169 Cl8(195)-S1		1	-							
170 Cl8(195)		1	Y	0.08016	0.06427	-19.8	0.07279	-9.2	0.07038	-12.2
171 Cl8(194)		1	Y	0.08016	0.06663	-16.9	0.07484	-6.6	0.06988	-12.8
172 Cl8(205)	P8	1	Y	0.08000	0.06434	-19.6	0.07108	-11.1	0.06507	-18.7

CCV Summary Report

Batch: 15-0072 **Data Set:** DP-15-0093
Project Test Code: Master 315(S) **SOP_NO:** 5-315-10
Project Name: USACE/NAE New Bedford Harbor Task Order 10 **Project Number:** 100043429

Matrix: SED, SEDIMENT

Calibration File: MF0787.M **Last Updated:** 3/18/2015 11:21:00 AM

					F9436A.D		F9445.D		F9457.D	
					ID18 MID		ID18 MID		ID18 MID	
					03/18/2015 08:03		03/18/2015 16:02		03/19/2015 01:37	
No: Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff	MID	% Diff	MID	% Diff
173 Cl9(206)	P9	1	Y	0.08000	0.06396	-20.0	0.06288	-21.4	0.05661	-29.2 m
174 Cl10(209)		1	Y	0.08016	0.06088	-24.1	0.05822	-27.4 m	0.04928	-38.5 m
MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.					Mean PD:	4.3		5.0		4.2
					Time Check:	< 24		< 24		< 24

CCV Acceptance Criteria:

Frequency Hours:	<u>24</u>	Qual:	<u>N</u>
Mean PD(%):	<u>15</u>	Qual:	<u>N</u>
Individual PD(%):	<u>25</u>	Qual:	<u>N</u>

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0787.MLast Updated: 3/18/2015 11:21:00 AM

F9467.D

ID19 MID

03/19/2015 09:36

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
1	Cl5(96)	i	1	-			
2	Biphenyl		1	-	0.16000	0.14062	-12.1
3	Cl1(1)	P1	1	Y	0.16016	0.14803	-7.6
4	Cl1(3)	P1	1	Y	0.16000	0.15391	-3.8
5	Cl2(4)	P2	1	Y	0.16048	0.15108	-5.9
6	Cl2(7)		1	Y	0.16064	0.17654	9.9
7	Cl2(9)		1	Y	0.16000	0.14119	-11.8
8	Cl2(6)		1	Y	0.16032	0.15448	-3.6
9	Cl2(5)		1	Y	0.16000	0.15049	-5.9
10	Cl2(8)		1	Y	0.16032	0.16236	1.3
11	Cl3(19)	P3	1	Y	0.16000	0.15588	-2.6
12	Cl3(30)		1	Y	0.16032	0.15705	-2.0
13	Cl2(11)-S1		1	-			
14	Cl2(11)		1	Y	0.16048	0.15917	-0.8
15	Cl3(18)		1	Y	0.16080	0.15586	-3.1
16	Cl3(17)		1	Y	0.16064	0.15747	-2.0
17	Cl2(12)		1	Y	0.16000	0.15915	-0.5
18	Cl2(13)-S1		1	-			
19	Cl2(13)		1	Y	0.16064	0.16264	1.2
20	Cl3(27)		1	Y	0.16000	0.15630	-2.3
21	Cl3(24)		1	Y	0.16064	0.16072	0.0
22	Cl3(16)		1	Y	0.16064	0.15801	-1.6
23	Cl2(15)	P2	1	Y	0.16064	0.16144	0.5
24	Cl3(32)		1	Y	0.16000	0.15821	-1.1
25	Cl4(54)	P4	1	Y	0.16064	0.15935	-0.8
26	Cl3(34)-S1	S	1	-			
27	Cl3(34)	S	1	Y	0.16000	0.15916	-0.5
28	Cl3(29)		1	Y	0.16016	0.15922	-0.6
29	Cl3(26)-S1		1	-			
30	Cl3(26)		1	Y	0.16016	0.15631	-2.4
31	Cl4(50)		1	Y	0.16064	0.15826	-1.5
32	Cl3(25)		1	Y	0.16000	0.15964	-0.2
33	Cl3(31)-S1		1	-			
34	Cl3(31)		1	Y	0.16080	0.15965	-0.7
35	Cl4(53)		1	Y	0.16048	0.16083	0.2
36	Cl3(28)		1	Y	0.16000	0.16298	1.9
37	Cl3(33)		1	Y	0.16064	0.15983	-0.5
38	Cl4(51)		1	Y	0.16064	0.16060	0.0
39	Cl4(45)		1	Y	0.16000	0.16035	0.2
40	Cl3(22)		1	Y	0.16064	0.16308	1.5
41	Cl4(46)		1	Y	0.16064	0.16173	0.7
42	Cl4(43)		1	Y	0.16000	0.14423	-9.9
43	Cl4(52)		1	Y	0.16016	0.16037	0.1

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0787.MLast Updated: 3/18/2015 11:21:00 AM

F9467.D

ID19 MID

03/19/2015 09:36

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
44	Cl4(48)		1	Y	0.16000	0.16388	2.4
45	Cl4(49)		1	Y	0.16000	0.16952	6.0
46	Cl5(104)	P5	1	Y	0.16000	0.15878	-0.8
47	Cl4(47)-S1		1	-			
48	Cl4(47)		1	Y	0.16000	0.16335	2.1
49	Cl4(75)		1	Y	0.16064	0.16557	3.1
50	Cl4(44)		1	Y	0.16000	0.16185	1.2
51	Cl4(42)		1	Y	0.16064	0.16089	0.2
52	Cl4(71)		1	Y	0.16000	0.16234	1.5
53	Cl4(41)		1	Y	0.16000	0.15999	0.0
54	Cl4(64)		1	Y	0.16064	0.16313	1.6
55	Cl4(40)		1	Y	0.16080	0.16265	1.2
56	Cl3(37)-S1		1	-			
57	Cl3(37)	J1	1	Y	0.16000	0.16641	4.0
58	Cl5(100)		1	Y	0.16064	0.16236	1.1
59	Cl4(67)		1	Y	0.16064	0.16336	1.7
60	Cl4(63)		1	Y	0.16000	0.16458	2.9
61	Cl5(95)		1	Y	0.16000	0.16214	1.3
62	Cl4(74)		1	Y	0.16000	0.15937	-0.4
63	Cl4(70)		1	Y	0.16064	0.16249	1.2
64	Cl5(91)-S1		1	-			
65	Cl5(91)		1	Y	0.16080	0.16052	-0.2
66	Cl4(66)-S1		1	-			
67	Cl4(66)-S2		1	-			
68	Cl4(66)		1	Y	0.16000	0.16270	1.7
69	Cl6(155)	P6	1	Y	0.16064	0.16008	-0.3
70	Cl4(80)		1	Y	0.16080	0.16317	1.5
71	Cl5(92)		1	Y	0.16064	0.16481	2.6
72	Cl5(84)		1	Y	0.16064	0.15755	-1.9
73	Cl4(56)-S1		1	-			
74	Cl4(56)		1	Y	0.16064	0.16154	0.6
75	Cl4(60)-S1		1	-			
76	Cl4(60)		1	Y	0.16064	0.16191	0.8
77	Cl5(101)		1	Y	0.16000	0.16052	0.3
78	Cl6(161)	i	1	-			
79	Cl5(99)		1	Y	0.16032	0.16586	3.5
80	Cl5(83)		1	Y	0.16000	0.15493	-3.2
81	Cl5(125)		1	Y	0.16000	0.15531	-2.9
82	Cl5(97)		1	Y	0.16064	0.15491	-3.6
83	Cl5(87)		1	Y	0.15952	0.15989	0.2
84	Cl6(136)		1	Y	0.16000	0.15927	-0.5
85	Cl5(115)		1	Y	0.16064	0.13883	-13.6
86	Cl6(154)		1	Y	0.16000	0.15825	-1.1

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0787.MLast Updated: 3/18/2015 11:21:00 AM

F9467.D

ID19 MID

03/19/2015 09:36

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
87	Cl5(85)-S1		1	-			
88	Cl5(85)		1	Y	0.16000	0.16559	3.5
89	Cl5(110)		1	Y	0.16016	0.16145	0.8
90	Cl4(81)		1	Y	0.16000	0.16599	3.7
91	Cl5(82)-S1		1	-			
92	Cl5(82)		1	Y	0.16000	0.16124	0.8
93	Cl6(151)		1	Y	0.16032	0.16050	0.1
94	Cl6(135)		1	Y	0.16064	0.16495	2.7
95	Cl4(77)-S2		1	-			
96	Cl4(77)	P4	1	Y	0.16000	0.17270	7.9
97	Cl6(144)		1	Y	0.16000	0.16459	2.9
98	Cl6(149)		1	Y	0.16064	0.16259	1.2
99	Cl6(139)		1	Y	0.16064	0.15878	-1.2
100	Cl5(124)-S1		1	-			
101	Cl5(124)		1	Y	0.16064	0.16532	2.9
102	Cl6(140)		1	Y	0.16064	0.16814	4.7
103	Cl5(123)		1	Y	0.16000	0.16446	2.8
104	Cl6(134)		1	Y	0.16064	0.16613	3.4
105	Cl7(188)	P7	1	Y	0.16064	0.15978	-0.5
106	Cl5(118)-S1		1	-			
107	Cl5(118)-S2		1	-			
108	Cl5(118)		1	Y	0.16032	0.16575	3.4
109	Cl6(131)		1	Y	0.16064	0.16307	1.5
110	Cl7(184)		1	Y	0.16000	0.16239	1.5
111	Cl6(146)		1	Y	0.16000	0.15920	-0.5
112	Cl5(114)-S1		1	-			
113	Cl5(114)		1	Y	0.16000	0.16530	3.3
114	Cl6(152)	S	1	Y	0.16064	0.16453	2.4
115	Cl6(153)		1	Y	0.16000	0.16257	1.6
116	Cl7(179)		1	Y	0.16064	0.15958	-0.7
117	Cl5(105)-S1		1	-			
118	Cl5(105)		1	Y	0.16016	0.16800	4.9
119	Cl6(141)		1	Y	0.16064	0.16324	1.6
120	Cl7(176)		1	Y	0.16000	0.16043	0.3
121	Cl6(127)-S1		1	-			
122	Cl5(127)		1	Y	0.16000	0.16491	3.1
123	Cl6(137)		1	Y	0.16064	0.16269	1.3
124	Cl6(130)		1	Y	0.16000	0.16370	2.3
125	Cl6(164)		1	Y	0.16000	0.15748	-1.6
126	Cl6(138)		1	Y	0.16000	0.15926	-0.5
127	Cl6(163)-S1		1	-			
128	Cl6(163)		1	Y	0.16000	0.15460	-3.4
129	Cl7(178)		1	Y	0.16064	0.15388	-4.2

CCV Summary Report

Batch: 15-0072Data Set: DP-15-0093Project Test Code: Master 315(S)SOP_NO: 5-315-10Project Name: USACE/NAE New Bedford Harbor Task Order 10Project Number: 100043429Matrix: SED, SEDIMENTCalibration File: MF0787.MLast Updated: 3/18/2015 11:21:00 AM

F9467.D

ID19 MID

03/19/2015 09:36

No: Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
130 Cl6(158)		1	Y	0.16000	0.16117	0.7
131 Cl7(175)		1	Y	0.16064	0.16064	0.0
132 Cl7(187)		1	Y	0.16000	0.15491	-3.2
133 Cl6(166)-S1		1	-			
134 Cl6(166)		1	Y	0.16080	0.15941	-0.9
135 Cl7(183)		1	Y	0.16000	0.15365	-4.0
136 Cl5(126)	P5	1	Y	0.16064	0.16974	5.7
137 Cl6(128)-S1		1	-			
138 Cl6(128)		1	Y	0.16000	0.15795	-1.3
139 Cl7(185)		1	Y	0.16000	0.15718	-1.8
140 Cl7(174)		1	Y	0.16000	0.15423	-3.6
141 Cl6(167)		1	Y	0.16032	0.16345	2.0
142 Cl8(202)	P8	1	Y	0.16064	0.15551	-3.2
143 Cl7(177)		1	Y	0.16000	0.15627	-2.3
144 Cl8(201)		1	Y	0.16016	0.15321	-4.3
145 Cl7(171)-S1		1	-			
146 Cl7(171)		1	Y	0.16080	0.15121	-6.0
147 Cl7(173)		1	Y	0.16064	0.15795	-1.7
148 Cl8(197)		1	Y	0.16000	0.15345	-4.1
149 Cl6(156)-S1		1	-			
150 Cl6(156)		1	Y	0.16000	0.16073	0.5
151 Cl7(172)		1	Y	0.16000	0.15363	-4.0
152 Cl6(157)		1	Y	0.16080	0.16066	-0.1
153 Cl7(180)		1	Y	0.16000	0.16451	2.8
154 Cl7(193)-S1		1	-			
155 Cl7(193)		1	Y	0.16064	0.15810	-1.6
156 Cl8(200)		1	Y	0.16000	0.15066	-5.8
157 Cl7(191)		1	Y	0.16064	0.15311	-4.7
158 Cl7(170)-S1		1	-			
159 Cl7(170)		1	Y	0.16080	0.14868	-7.5
160 Cl8(198)		1	Y	0.16064	0.13662	-15.0
161 Cl8(199)		1	Y	0.16000	0.11575	-27.7 m
162 Cl7(190)		1	Y	0.16064	0.14785	-8.0
163 Cl6(169)-S2		1	-			
164 Cl6(169)	P6	1	Y	0.16064	0.16177	0.7
165 Cl8(203)		1	Y	0.16000	0.14552	-9.0
166 Cl9(208)	P9	1	Y	0.16064	0.13828	-13.9
167 Cl7(189)	P7	1	Y	0.16000	0.15263	-4.6
168 Cl9(207)		1	Y	0.16000	0.13252	-17.2
169 Cl8(195)-S1		1	-			
170 Cl8(195)		1	Y	0.16032	0.13618	-15.1
171 Cl8(194)		1	Y	0.16032	0.13403	-16.4
172 Cl8(205)	P8	1	Y	0.16000	0.12940	-19.1

CCV Summary Report

Batch:	<u>15-0072</u>	Data Set:	<u>DP-15-0093</u>
Project Test Code:	<u>Master 315(S)</u>	SOP_NO:	<u>5-315-10</u>
Project Name:	<u>USACE/NAE New Bedford Harbor Task Order 10</u>	Project Number:	<u>100043429</u>

Matrix: SED, SEDIMENT

Calibration File: MF0787.M **Last Updated:** 3/18/2015 11:21:00 AM

F9467.D

ID19 MID

03/19/2015 09:36

No:	Analyte:	Type:	Col:	MQO:	CAL	MID	% Diff
173	Cl9(206)	P9	1	Y	0.16000	0.11360	-29.0 m
174	Cl10(209)		1	Y	0.16032	0.09493	-40.8 m

MQO: Only compounds flagged with "Y" will be counted towards MQO exceedences.

Mean PD: **3.7**
Time Check: **< 24**

CCV Acceptance Criteria:

Frequency Hours:	<u>24</u>	Qual:	<u>N</u>
Mean PD(%):	<u>15</u>	Qual:	<u>N</u>
Individual PD(%):	<u>25</u>	Qual:	<u>N</u>

Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 13:39:13 2015
 Response via : Initial Calibration
 Standard Mult: 1.000 (ID17)
 Total Cpnds : 174

ID13 =F9320.D ID15 =F9322.D ID16 =F9323.D ID17 =F9324.D
 ID18 =F9325.D ID20 =F9327.D

Compound			ID13	ID15	ID16	ID17	ID18	ID20

1	i	Cl5(96)	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000
2		Biphenyl	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
3	P1	Cl1(1)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032
4	P1	Cl1(3)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
5	P2	Cl2(4)	0.00251	0.01003	0.02006	0.04012	0.08024	0.32096
6		Cl2(7)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
7		Cl2(9)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
8		Cl2(6)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
9		Cl2(5)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
10		Cl2(8)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
11	P3	Cl3(19)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
12		Cl3(30)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
13		Cl2(11)-S1	-----	-----	-----	-----	-----	-----
14		Cl2(11)	0.00251	0.01003	0.02006	0.04012	0.08024	0.32096
15		Cl3(18)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160
16		Cl3(17)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
17		Cl2(12)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
18		Cl2(13)-S1	-----	-----	-----	-----	-----	-----
19		Cl2(13)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
20		Cl3(27)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
21		Cl3(24)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
22		Cl3(16)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
23	P2	Cl2(15)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
24		Cl3(32)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
25	P4	Cl4(54)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
26	S	Cl3(34)-S1	-----	-----	-----	-----	-----	-----
27	S	Cl3(34)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
28		Cl3(29)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032
29		Cl3(26)-S1	-----	-----	-----	-----	-----	-----
30		Cl3(26)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032
31		Cl4(50)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
32		Cl3(25)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
33		Cl3(31)-S1	-----	-----	-----	-----	-----	-----
34		Cl3(31)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160
35		Cl4(53)	0.00251	0.01003	0.02006	0.04012	0.08024	0.32096
36		Cl3(28)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
37		Cl3(33)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
38		Cl4(51)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
39		Cl4(45)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
40		Cl3(22)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
41		Cl4(46)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
42		Cl4(43)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
43		Cl4(52)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032
44		Cl4(48)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
45		Cl4(49)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
46	P5	Cl5(104)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
47		Cl4(47)-S1	-----	-----	-----	-----	-----	-----
48		Cl4(47)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
49		Cl4(75)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
50		Cl4(44)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
51		Cl4(42)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
52		Cl4(71)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
53		Cl4(41)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
54		Cl4(64)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
55		Cl4(40)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160
56		Cl3(37)-S1	-----	-----	-----	-----	-----	-----
57	J1	Cl3(37)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
58		Cl5(100)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
59		Cl4(67)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
60		Cl4(63)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
61		Cl5(95)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
62		Cl4(74)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
63		Cl4(70)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
64		Cl5(91)-S1	-----	-----	-----	-----	-----	-----
65		Cl5(91)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160

66		C14 (66) -S1	-----	-----	-----	-----	-----	
67		C14 (66) -S2	-----	-----	-----	-----	-----	251 of 602
68		C14 (66)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
69	P6	C16 (155)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
70		C14 (80)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160
71		C15 (92)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
72		C15 (84)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
73		C14 (56) -S1	-----	-----	-----	-----	-----	-----
74		C14 (56)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
75		C14 (60) -S1	-----	-----	-----	-----	-----	-----
76		C14 (60)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
77		C15 (101)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
78	i	C16 (161)	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000
79		C15 (99)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
80		C15 (83)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
81		C15 (125)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
82		C15 (97)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
83		C15 (87)	0.00249	0.00997	0.01994	0.03988	0.07976	0.31904
84		C16 (136)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
85		C15 (115)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
86		C16 (154)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
87		C15 (85) -S1	-----	-----	-----	-----	-----	-----
88		C15 (85)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
89		C15 (110)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032
90		C14 (81)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
91		C15 (82) -S1	-----	-----	-----	-----	-----	-----
92		C15 (82)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
93		C16 (151)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
94		C16 (135)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
95		C14 (77) -S2	-----	-----	-----	-----	-----	-----
96	P4	C14 (77)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
97		C16 (144)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
98		C16 (149)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
99		C16 (139)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
100		C15 (124) -S1	-----	-----	-----	-----	-----	-----
101		C15 (124)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
102		C16 (140)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
103		C15 (123)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
104		C16 (134)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
105	P7	C17 (188)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
106		C15 (118) -S1	-----	-----	-----	-----	-----	-----
107		C15 (118) -S2	-----	-----	-----	-----	-----	-----
108		C15 (118)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
109		C16 (131)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
110		C17 (184)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
111		C16 (146)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
112		C15 (114) -S1	-----	-----	-----	-----	-----	-----
113		C15 (114)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
114	S	C16 (152)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
115		C16 (153)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
116		C17 (179)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
117		C15 (105) -S1	-----	-----	-----	-----	-----	-----
118		C15 (105)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032
119		C16 (141)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
120		C17 (176)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
121		C16 (127) -S1	-----	-----	-----	-----	-----	-----
122		C15 (127)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
123		C16 (137)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
124		C16 (130)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
125		C16 (164)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
126		C16 (138)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
127		C16 (163) -S1	-----	-----	-----	-----	-----	-----
128		C16 (163)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
129		C17 (178)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
130		C16 (158)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
131		C17 (175)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
132		C17 (187)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
133		C16 (166) -S1	-----	-----	-----	-----	-----	-----
134		C16 (166)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160
135		C17 (183)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
136	P5	C15 (126)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
137		C16 (128) -S1	-----	-----	-----	-----	-----	-----
138		C16 (128)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
139		C17 (185)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
140		C17 (174)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000
141		C16 (167)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064
142	P8	C18 (202)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128
143		C17 (177)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000

144	Cl8(201)	0.00250	0.01001	0.02002	0.04004	0.08008	0.32032	
145	Cl7(171) -S1	-----	-----	-----	-----	-----	-----	252 of 602
146	Cl7(171)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160	
147	Cl7(173)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
148	Cl8(197)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
149	Cl6(156) -S1	-----	-----	-----	-----	-----	-----	
150	Cl6(156)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
151	Cl7(172)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
152	Cl6(157)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160	
153	Cl7(180)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
154	Cl7(193) -S1	-----	-----	-----	-----	-----	-----	
155	Cl7(193)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
156	Cl8(200)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
157	Cl7(191)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
158	Cl7(170) -S1	-----	-----	-----	-----	-----	-----	
159	Cl7(170)	0.00251	0.01005	0.02010	0.04020	0.08040	0.32160	
160	Cl8(198)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
161	Cl8(199)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
162	Cl7(190)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
163	Cl6(169) -S2	-----	-----	-----	-----	-----	-----	
164	P6 Cl6(169)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
165	Cl8(203)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
166	P9 Cl9(208)	0.00251	0.01004	0.02008	0.04016	0.08032	0.32128	
167	P7 Cl7(189)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
168	Cl9(207)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
169	Cl8(195) -S1	-----	-----	-----	-----	-----	-----	
170	Cl8(195)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064	
171	Cl8(194)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064	
172	P8 Cl8(205)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
173	P9 Cl9(206)	0.00250	0.01000	0.02000	0.04000	0.08000	0.32000	
174	Cl10(209)	0.00250	0.01002	0.02004	0.04008	0.08016	0.32064	

Standards Loaded From LIMS

Solution ID : ID13 - 315 Curve Level 1
 Last Updated : 8/21/2014 4:00:06 PM
 Create Date : Jul 25 2014 12:00AM DMS
 Expire Date : 6/30/2015
 Approval Date: Not Approved
 Override Date: No Override

Solution ID : ID15 - 315 Curve Level 3
 Last Updated : 8/21/2014 4:00:06 PM
 Create Date : Jul 25 2014 12:00AM DMS
 Expire Date : 6/30/2015
 Approval Date: Not Approved
 Override Date: No Override

Solution ID : ID16 - 315 Curve Level 4
 Last Updated : 8/21/2014 4:00:06 PM
 Create Date : Jul 25 2014 12:00AM DMS
 Expire Date : 6/30/2015
 Approval Date: Not Approved
 Override Date: No Override

Solution ID : ID17 - 315 Curve Level 5
 Last Updated : 8/21/2014 4:00:07 PM
 Create Date : Jul 25 2014 12:00AM DMS
 Expire Date : 6/30/2015
 Approval Date: Not Approved
 Override Date: No Override

Solution ID : ID18 - 315 Curve Level 6
 Last Updated : 8/21/2014 4:00:07 PM
 Create Date : Jul 25 2014 12:00AM DMS
 Expire Date : 6/30/2015
 Approval Date: Not Approved
 Override Date: No Override

Solution ID : ID20 - 315 Curve Level 8
 Last Updated : 8/21/2014 4:00:07 PM
 Create Date : Jul 25 2014 12:00AM DMS

Expire Date : 6/30/2015
Approval Date: Not Approved
Override Date: No Override

Data File : G:\F\DATA\SF0785\F9320.D
 Acq On : 11 Mar 2015 12:57 pm
 Sample : ID13
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 3
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:07:41 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 06:58:18 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	38278m	0.1000	ng
78) Cl6(161)	25.73t	360	26300m	0.1000	ng

System Monitoring Compounds					
26) Cl3(34)-S1	(0.135)	15.28t	255	111	0.0000 ng
27) Cl3(34)		15.28t	256	1080	-1.0000 ng
Spiked Amount	0.0025				Recovery = -40000.00%
Corrected Values:				1065	-1.0000 ng
114) Cl6(152)		22.40	360	788	-1.0000 ng
Spiked Amount	0.0025				Recovery = -39840.64%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	3459m	Below Cal	
3) Cl1(1)		9.93	188	2306	No Quad Fit	
4) Cl1(3)		11.14	188	2086m	Below Cal	
5) Cl2(4)		11.41	222	1139m	Below Cal	
6) Cl2(7)		12.31	222	1589m	Below Cal	
7) Cl2(9)		12.26	222	1893	No Calib	
8) Cl2(6)		12.55	222	1860	No Quad Fit	
9) Cl2(5)		12.76	222	1850	No Calib	
10) Cl2(8)		12.84	222	1775m	Below Cal	
11) Cl3(19)		13.30	256	750	No Quad Fit	
12) Cl3(30)		13.69	256	1124m	Below Cal	
13) Cl2(11)-S1	(0.135)	14.14tw	221	412	No Calib	
14) Cl2(11)		14.13tw	222	1500m	Below Cal	
Corrected Values:				1444	4724689.2942	Cal
15) Cl3(18)		14.15tw	256	860m	Below Cal	
16) Cl3(17)		14.26	256	802m	Below Cal	
17) Cl2(12)		14.35	222	1429m	Below Cal	
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	
19) Cl2(13)		14.49tw	222	1407m	Below Cal	
Corrected Values:				1407	-1.0000	Cal
20) Cl3(27)		14.50tw	256	1107m	Below Cal	
21) Cl3(24)		14.62	256	1144m	Below Cal	
22) Cl3(16)		14.83	256	663m	Below Cal	
23) Cl2(15)		14.88	222	1628m	Below Cal	
24) Cl3(32)		14.95	256	1191m	Below Cal	
25) Cl4(54)		15.30	292	1416m	Below Cal	
28) Cl3(29)		15.52	256	1142m	Below Cal	
29) Cl3(26)-S1	(0.135)	15.88tw	255	327	No Calib	
30) Cl3(26)		15.82	256	1137m	Below Cal	
Corrected Values:				1093	-214748.3648	Cal
31) Cl4(50)		15.87tw	292	699	No Quad Fit	
32) Cl3(25)		15.95	256	1116m	Below Cal	
33) Cl3(31)-S1	(0.135)	16.32t	255	281	No Calib	
34) Cl3(31)		16.29	256	1286m	Below Cal	
Corrected Values:				1248	-1.0000	Cal
35) Cl4(53)		16.32t	292	719	Below Cal	
36) Cl3(28)		16.40	256	1086m	Below Cal	
37) Cl3(33)		16.50	256	1056m	Below Cal	
38) Cl4(51)		16.59	292	814m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9320.D MF0785.M Tue Mar 17 13:42:54 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9320.D

Vial: 3

Acq On : 11 Mar 2015 12:57 pm

Operator: RR

Sample : ID13

Inst : Inst. F

Misc : 5-315 ICAL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 07:07:41 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 06:58:18 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.92	292	667	No Quad Fit
40) Cl3(22)		16.99	256	1030m	Below Cal
41) Cl4(46)		17.18	292	653m	Below Cal
42) Cl4(43)		17.57	292	642	No Quad Fit
43) Cl4(52)		17.62	292	740	No Quad Fit
44) Cl4(48)		17.76	292	755	No Quad Fit
45) Cl4(49)		17.84	292	658	No Calib
46) Cl5(104)		18.01tw	326	851	No Quad Fit
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		18.02tw	292	885	No Calib
Corrected Values:				885	ng
49) Cl4(75)		18.10	292	1086m	Below Cal
50) Cl4(44)		18.46	292	647	No Quad Fit
51) Cl4(42)		18.67	292	719	No Quad Fit
52) Cl4(71)		18.89	292	1038m	Below Cal
53) Cl4(41)		18.99	292	594m	Below Cal
54) Cl4(64)		19.28	292	1093m	Below Cal
55) Cl4(40)		19.35t	292	522m	Below Cal
56) Cl3(37)-S1	(0.135)	19.35t	255	302	No Calib
57) Cl3(37)		19.35t	256	1068	Below Cal
Corrected Values:				1027	-1.0000 Cal
58) Cl5(100)		19.71	326	711	Below Cal
59) Cl4(67)		20.01	292	905	No Quad Fit
60) Cl4(63)		20.41	292	824	Below Cal
61) Cl5(95)		20.54	326	570	Below Cal
62) Cl4(74)		20.62	292	872m	Below Cal
63) Cl4(70)		20.74	292	901m	Below Cal
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.92tw	326	731	No Quad Fit
Corrected Values:				731	ng
66) Cl4(66)-S1	(0.174)	20.91tw	289	176	No Calib
67) Cl4(66)-S2	(0.650)	20.97tw	288	312	No Calib
68) Cl4(66)		20.94	292	1106	Below Cal
Corrected Values:				872	-1.0000 Cal
69) Cl6(155)		20.98tw	360	845	No Quad Fit
70) Cl4(80)		21.27	292	866	Below Cal
71) Cl5(92)		21.54tw	326	644	No Calib
72) Cl5(84)		21.56	326	438	No Calib
73) Cl4(56)-S1	(0.174)	21.53tw	289	386	No Calib
74) Cl4(56)		21.61	292	863	Below Cal
Corrected Values:				796	-214748.3648 Cal
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D.
76) Cl4(60)		21.85t	292	901	Below Cal
Corrected Values:				901	-1.0000 Cal
77) Cl5(101)		21.85t	326	679	Below Cal #
79) Cl5(99)		22.12	326	595	Below Cal
80) Cl5(83)		22.51	326	536m	Below Cal
81) Cl5(125)		22.65	326	813	No Quad Fit
82) Cl5(97)		22.81	326	473	Below Cal #
83) Cl5(87)		23.26	326	569	Below Cal

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9320.D MF0785.M Tue Mar 17 13:42:54 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9320.D
 Acq On : 11 Mar 2015 12:57 pm
 Sample : ID13
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 3
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:07:41 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 06:58:18 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.34	360	771	Below Cal
85) Cl5(115)		23.46	326	839	No Calib
86) Cl6(154)		23.52	360	536	Below Cal
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.50	326	495	No Calib
Corrected Values:				495	ng
89) Cl5(110)		23.77	326	716	Below Cal
90) Cl4(81)		23.88	292	703m	Below Cal
91) Cl5(82)-S1	(0.220)	24.21tw	323	107	No Calib
92) Cl5(82)		24.22tw	326	488	Below Cal
Corrected Values:				464	-1.0000 Cal
93) Cl6(151)		24.20tw	360	496m	Below Cal
94) Cl6(135)		24.32	360	497m	Below Cal
95) Cl4(77)-S2	(0.650)	24.43tw	288	366	No Calib
96) Cl4(77)		24.42tw	292	847	No Quad Fit
Corrected Values:				609	ng
97) Cl6(144)		24.45	360	411	Below Cal #
98) Cl6(149)		24.67	360	574m	Below Cal
99) Cl6(139)		24.80	360	485	No Quad Fit
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		24.84	326	757m	Below Cal
Corrected Values:				757	-1.0000 Cal
102) Cl6(140)		24.90	360	469	No Quad Fit
103) Cl5(123)		25.05	326	697	Below Cal
104) Cl6(134)		25.14	360	415	Below Cal #
105) Cl7(188)		25.25t	394	480	No Quad Fit
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	25.25t	322	267	No Calib
108) Cl5(118)		25.28	326	968	No Quad Fit
Corrected Values:				680	ng
109) Cl6(131)		25.31	360	431	Below Cal
110) Cl7(184)		25.55	394	566	Below Cal
111) Cl6(146)		25.62	360	485	No Quad Fit
112) Cl5(114)-S1	(0.220)	25.73t	323e	377	No Calib
113) Cl5(114)		25.65	326	668m	Below Cal
Corrected Values:				585	-214748.3648 Cal
115) Cl6(153)		25.88	360	629	Below Cal
116) Cl7(179)		26.10	394	543	No Quad Fit
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		26.22	326	637	Below Cal
Corrected Values:				637	-1.0000 Cal
119) Cl6(141)		26.27	360	362	Below Cal #
120) Cl7(176)		26.36	394	514	No Quad Fit
121) Cl6(127)-S1	(0.265)	26.47	323	110	No Calib
122) Cl5(127)		26.50tw	326	685	Below Cal
123) Cl6(137)		26.49tw	360	448	Below Cal
124) Cl6(130)		26.62	360	377	No Calib
125) Cl6(164)		26.68	360	654m	Below Cal
126) Cl6(138)		26.82	360	492	No Calib
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9320.D MF0785.M Tue Mar 17 13:42:54 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9320.D
 Acq On : 11 Mar 2015 12:57 pm
 Sample : ID13
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 3
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:07:41 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 06:58:18 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	633m	Below Cal
Corrected Values:				633	-1.0000 Cal
129) Cl7(178)		26.91	394	384	Below Cal
130) Cl6(158)		26.96	360	670	Below Cal #
131) Cl7(175)		27.10	394	419m	Below Cal
132) Cl7(187)		27.17	394	428m	Below Cal
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		27.35t	360	557	No Quad Fit
Corrected Values:				557	ng
135) Cl7(183)		27.35t	394	354	Below Cal
136) Cl5(126)		27.51	326	518	No Quad Fit
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		27.67	360	396	No Quad Fit
Corrected Values:				396	ng
139) Cl7(185)		27.70	394	364	Below Cal
140) Cl7(174)		27.80	394	339	Below Cal #
141) Cl6(167)		27.89	360	489m	Below Cal
142) Cl8(202)		27.97	428	371m	Below Cal
143) Cl7(177)		28.08	394	281	No Quad Fit
144) Cl8(201)		28.20t	428	389	Below Cal
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.20t	394	364m	Below Cal
Corrected Values:				364	-1.0000 Cal
147) Cl7(173)		28.29	394	338m	Below Cal
148) Cl8(197)		28.42	428	370m	Below Cal
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D.
150) Cl6(156)		28.51	360	531	No Quad Fit
Corrected Values:				531	ng
151) Cl7(172)		28.54	394	324	No Quad Fit
152) Cl6(157)		28.60	360	498	No Quad Fit
153) Cl7(180)		28.75	394	420m	Below Cal
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.79	394	419	No Quad Fit
Corrected Values:				419	ng
156) Cl8(200)		28.82	428	401m	Below Cal
157) Cl7(191)		28.91	394	401	No Quad Fit
158) Cl7(170) -S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		29.45	394	299	Below Cal
Corrected Values:				299	-1.0000 Cal
160) Cl8(198)		29.47	428	234	No Calib
161) Cl8(199)		29.50	428	264	No Calib
162) Cl7(190)		29.56	394	385m	Below Cal
163) Cl6(169) -S2	(1.610)	29.67	356	117	No Calib
164) Cl6(169)		29.65	360	577	Below Cal
Corrected Values:				389	-1.0000 Cal
165) Cl8(203)		29.69	428	300m	Below Cal
166) Cl9(208)		30.19	464	238	Below Cal #
167) Cl7(189)		30.33	394	304	Below Cal #
168) Cl9(207)		30.39tw	464	327	Below Cal
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9320.D MF0785.M Tue Mar 17 13:42:54 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9320.D
 Acq On : 11 Mar 2015 12:57 pm
 Sample : ID13
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 3
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:07:41 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 06:58:18 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	258m	Below Cal
Corrected Values:				258	-1.0000 Cal
171) Cl8(194)		30.89	428	225	Below Cal
172) Cl8(205)		31.04	428	280	No Quad Fit
173) Cl9(206)		31.53	464	185m	Below Cal
174) Cl10(209)		32.05	498	221m	Below Cal

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9320.D MF0785.M Tue Mar 17 13:42:54 2015 040221CFS

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Data File : G:\F\DATA\SF0785\F9322.D
 Acq On : 11 Mar 2015 2:33 pm
 Sample : ID15
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 5
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:09:13 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:08:21 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	35661m	0.1000	ng
78) Cl6(161)	25.73tw	360	24678m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	314m	0.0000	ng
27) Cl3(34)	15.28tw	256	4134m	-1.0000	ng
Spiked Amount	0.0100			Recovery	= -10000.00%
Corrected Values:			4092	-1.0000	ng
114) Cl6(152)	22.39	360	2457m	-1.0000	ng
Spiked Amount	0.0100			Recovery	= -9960.16%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.74	154	13060m	Below Cal	
3) Cl1(1)		9.94	188	8999	No Quad Fit	
4) Cl1(3)		11.13	188	8098m	Below Cal	
5) Cl2(4)		11.42	222	4371m	Below Cal	
6) Cl2(7)		12.30	222	5275m	Below Cal	
7) Cl2(9)		12.26	222	7566	No Calib	
8) Cl2(6)		12.54	222	6756	No Quad Fit	
9) Cl2(5)		12.76	222	6427	No Calib	
10) Cl2(8)		12.83	222	6992m	Below Cal	
11) Cl3(19)		13.29	256	2625	No Quad Fit	
12) Cl3(30)		13.70	256	4106m	Below Cal	
13) Cl2(11)-S1 (0.135)		14.14t	221	1587	No Calib	
14) Cl2(11)		14.13tw	222	5864m	Below Cal	
Corrected Values:				5650	3687426.0513	Cal
15) Cl3(18)		14.14t	256	2890m	Below Cal	
16) Cl3(17)		14.26	256	3192m	Below Cal	
17) Cl2(12)		14.35	222	5486m	Below Cal	
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D. d	
19) Cl2(13)		14.49tw	222	5400m	Below Cal	
Corrected Values:				5400	-1.0000	Cal
20) Cl3(27)		14.50tw	256	4348m	Below Cal	
21) Cl3(24)		14.62	256	4218m	Below Cal	
22) Cl3(16)		14.82	256	2477m	Below Cal	
23) Cl2(15)		14.89	222	6153m	Below Cal	
24) Cl3(32)		14.95	256	4377m	Below Cal	
25) Cl4(54)		15.29t	292	4309m	Below Cal	
28) Cl3(29)		15.51	256	4126m	Below Cal	
29) Cl3(26)-S1 (0.135)		15.86tw	255	921	No Calib	
30) Cl3(26)		15.82	256	4301m	Below Cal	
Corrected Values:				4177	-214748.3648	Cal
31) Cl4(50)		15.87tw	292	2871	No Quad Fit	
32) Cl3(25)		15.94	256	3776m	Below Cal	
33) Cl3(31)-S1 (0.135)		16.32t	255	954	No Calib	
34) Cl3(31)		16.29	256	4341m	Below Cal	
Corrected Values:				4212	-1.0000	Cal
35) Cl4(53)		16.32t	292	2913m	Below Cal	
36) Cl3(28)		16.40	256	4230m	Below Cal	
37) Cl3(33)		16.50	256	3708m	Below Cal	
38) Cl4(51)		16.59	292	3024m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9322.D MF0785.M Tue Mar 17 13:24:11 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9322.D

Vial: 5

Acq On : 11 Mar 2015 2:33 pm

Operator: RR

Sample : ID15

Inst : Inst. F

Misc : 5-315 ICAL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 07:09:13 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 07:08:21 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	2445	No Quad Fit
40) Cl3(22)		17.00	256	3738m	Below Cal
41) Cl4(46)		17.17	292	2110m	Below Cal
42) Cl4(43)		17.56	292	2292	No Quad Fit
43) Cl4(52)		17.62	292	2558	No Quad Fit
44) Cl4(48)		17.76	292	2807	No Quad Fit
45) Cl4(49)		17.83	292	2750	No Calib
46) Cl5(104)		18.01t	326	3361	No Quad Fit
47) Cl4(47)-S1	(0.174)	18.01t	289	107	No Calib
48) Cl4(47)		18.02tw	292	3257	No Calib
Corrected Values:				3238	ng
49) Cl4(75)		18.10	292	3739m	Below Cal
50) Cl4(44)		18.46	292	2367	No Quad Fit
51) Cl4(42)		18.67	292	2411	No Quad Fit
52) Cl4(71)		18.89	292	3330m	Below Cal
53) Cl4(41)		19.00	292	2025m	Below Cal
54) Cl4(64)		19.28	292	3623m	Below Cal
55) Cl4(40)		19.36tw	292	1895m	Below Cal
56) Cl3(37)-S1	(0.135)	19.35t	255	1295	No Calib
57) Cl3(37)		19.35t	256	3556m	Below Cal
Corrected Values:				3381	-1.0000 Cal
58) Cl5(100)		19.71	326	2515	Below Cal
59) Cl4(67)		20.01	292	3278	No Quad Fit
60) Cl4(63)		20.41	292	2959m	Below Cal
61) Cl5(95)		20.55	326	2200m	Below Cal
62) Cl4(74)		20.61	292	3371m	Below Cal
63) Cl4(70)		20.75	292	3448m	Below Cal
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.92t	326	2476	No Quad Fit
Corrected Values:				2476	ng
66) Cl4(66)-S1	(0.174)	20.92t	289	675	No Calib
67) Cl4(66)-S2	(0.650)	20.98t	288	1388	No Calib
68) Cl4(66)		20.94	292	4505m	Below Cal
Corrected Values:				3486	-1.0000 Cal
69) Cl6(155)		20.98t	360	2895	No Quad Fit
70) Cl4(80)		21.27	292	3194m	Below Cal
71) Cl5(92)		21.55Tw	326	2320	No Calib
72) Cl5(84)		21.56t	326	1643	No Calib
73) Cl4(56)-S1	(0.174)	21.56t	289	1263	No Calib
74) Cl4(56)		21.60	292	3462m	Below Cal
Corrected Values:				3242	-214748.3648 Cal
75) Cl4(60)-S1	(0.174)	21.84	289	306	No Calib
76) Cl4(60)		21.86t	292	3180m	Below Cal
Corrected Values:				3127	-1.0000 Cal
77) Cl5(101)		21.86t	326	2256m	Below Cal
79) Cl5(99)		22.12	326	2323m	Below Cal
80) Cl5(83)		22.51	326	1770m	Below Cal
81) Cl5(125)		22.65	326	2736	No Quad Fit
82) Cl5(97)		22.78	326	1931m	Below Cal
83) Cl5(87)		23.25	326	1854m	Below Cal

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9322.D MF0785.M

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040221CFS

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Data File : G:\F\DATA\SF0785\F9322.D

Acq On : 11 Mar 2015 2:33 pm

Sample : ID15

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 5

Operator: RR

Inst : Inst. F

Multiplr: 1.00

Quant Time: Mar 12 07:09:13 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 07:08:21 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	2392	Below Cal
85) Cl5(115)		23.46	326	2257	No Calib
86) Cl6(154)		23.53	360	2072m	Below Cal
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.48	326	2419	No Calib
Corrected Values:				2419	ng
89) Cl5(110)		23.77	326	2591	Below Cal
90) Cl4(81)		23.88	292	2754m	Below Cal
91) Cl5(82)-S1	(0.220)	24.23tw	323	432	No Calib
92) Cl5(82)		24.21tw	326	1842m	Below Cal
Corrected Values:				1747	-1.0000 Cal
93) Cl6(151)		24.22tw	360	1742m	Below Cal
94) Cl6(135)		24.32	360	1599m	Below Cal
95) Cl4(77)-S2	(0.650)	24.45t	288	1205	No Calib
96) Cl4(77)		24.42	292	3598	No Quad Fit
Corrected Values:				2815	ng
97) Cl6(144)		24.45t	360	1836m	Below Cal
98) Cl6(149)		24.67	360	1858m	Below Cal
99) Cl6(139)		24.79	360	1718	No Quad Fit
100) Cl5(124)-S1	(0.220)	24.90t	323	269	No Calib
101) Cl5(124)		24.84	326	2956m	Below Cal
Corrected Values:				2897	-1.0000 Cal
102) Cl6(140)		24.90t	360	1696	No Quad Fit
103) Cl5(123)		25.05	326	2539	Below Cal
104) Cl6(134)		25.14	360	1404m	Below Cal
105) Cl7(188)		25.25t	394	1965	No Quad Fit
106) Cl5(118)-S1	(0.220)	25.30tw	323	446	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	779	No Calib
108) Cl5(118)		25.27	326	3424	No Quad Fit
Corrected Values:				2485	ng
109) Cl6(131)		25.31tw	360	1662m	Below Cal
110) Cl7(184)		25.54	394	1862	Below Cal
111) Cl6(146)		25.62	360	1747	No Quad Fit
112) Cl5(114)-S1	(0.220)	25.72tw	323e	275	No Calib
113) Cl5(114)		25.65	326	2558m	Below Cal
Corrected Values:				2497	-214748.3648 Cal
115) Cl6(153)		25.87	360	1996	Below Cal
116) Cl7(179)		26.10	394	1870	No Quad Fit
117) Cl5(105)-S1	(0.220)	26.28tw	323e	367	No Calib
118) Cl5(105)		26.23	326	2265	Below Cal
Corrected Values:				2184	-214748.3648 Cal
119) Cl6(141)		26.27tw	360	1448	Below Cal
120) Cl7(176)		26.36	394	2004	No Quad Fit
121) Cl6(127)-S1	(0.265)	26.47	323	256	No Calib
122) Cl5(127)		26.50tw	326	2591m	Below Cal
123) Cl6(137)		26.49tw	360	1588m	Below Cal
124) Cl6(130)		26.63	360	2007	No Calib
125) Cl6(164)		26.68	360	2155m	Below Cal
126) Cl6(138)		26.82	360	2161	No Calib
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9322.D MF0785.M Tue Mar 17 13:24:11 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9322.D
 Acq On : 11 Mar 2015 2:33 pm
 Sample : ID15
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 5
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:09:13 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:08:21 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.87	360	2231m	Below Cal
Corrected Values:				2231	-1.0000 Cal
129) Cl7(178)		26.91	394	1533	Below Cal
130) Cl6(158)		26.95	360	2257	Below Cal
131) Cl7(175)		27.10	394	1426m	Below Cal
132) Cl7(187)		27.17	394	1470m	Below Cal
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		27.35t	360	2148	No Quad Fit
Corrected Values:				2148	ng
135) Cl7(183)		27.35t	394	1344	Below Cal
136) Cl5(126)		27.51	326	2034	No Quad Fit
137) Cl6(128)-S1	(0.265)	27.70t	357	165	No Calib
138) Cl6(128)		27.67	360	1485	No Quad Fit
Corrected Values:				1441	ng
139) Cl7(185)		27.70t	394	1287m	Below Cal
140) Cl7(174)		27.81	394	1265m	Below Cal
141) Cl6(167)		27.89	360	1892m	Below Cal
142) Cl8(202)		27.98	428	1441m	Below Cal
143) Cl7(177)		28.08	394	1185	No Quad Fit
144) Cl8(201)		28.20tw	428	1437m	Below Cal
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.21tw	394	1243m	Below Cal
Corrected Values:				1243	-1.0000 Cal
147) Cl7(173)		28.29	394	1084m	Below Cal
148) Cl8(197)		28.42	428	1454	Below Cal
149) Cl6(156)-S1	(0.265)	28.55tw	357	239	No Calib
150) Cl6(156)		28.51	360	1781	No Quad Fit
Corrected Values:				1718	ng
151) Cl7(172)		28.54tw	394	1180	No Quad Fit
152) Cl6(157)		28.60	360	1754	No Quad Fit
153) Cl7(180)		28.74	394	1415m	Below Cal
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.79	394	1499	No Quad Fit
Corrected Values:				1499	ng
156) Cl8(200)		28.83	428	1343	Below Cal
157) Cl7(191)		28.91	394	1741	No Quad Fit
158) Cl7(170)-S1	(0.309)	29.51t	391e	315	No Calib
159) Cl7(170)		29.45	394	1182	Below Cal
Corrected Values:				1085	-1.0000 Cal
160) Cl8(198)		29.48	428	778	No Calib
161) Cl8(199)		29.51t	428	741	No Calib
162) Cl7(190)		29.57	394	1478m	Below Cal
163) Cl6(169)-S2	(1.610)	29.69t	356	471	No Calib
164) Cl6(169)		29.65	360	2086m	Below Cal
Corrected Values:				1328	-1.0000 Cal
165) Cl8(203)		29.69t	428	1015m	Below Cal
166) Cl9(208)		30.19	464	959m	Below Cal
167) Cl7(189)		30.33	394	1088m	Below Cal
168) Cl9(207)		30.39tw	464	1126	Below Cal
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9322.D MF0785.M Tue Mar 17 13:24:12 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9322.D
Acq On : 11 Mar 2015 2:33 pm
Sample : ID15
Misc : 5-315 ICAL
MS Integration Params: rteint.p

Vial: 5
Operator: RR
Inst : Inst. F
Multiplr: 1.00

Quant Time: Mar 12 07:09:13 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Thu Mar 12 07:08:21 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	891m	Below Cal
Corrected Values:				891	-1.0000 Cal
171) Cl8(194)		30.88	428	696	Below Cal
172) Cl8(205)		31.04	428	955	No Quad Fit
173) Cl9(206)		31.54	464	630m	Below Cal
174) Cl10(209)		32.05	498	684m	Below Cal

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9322.D MF0785.M Tue Mar 17 13:24:12 2015 040221CFS

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Data File : G:\F\DATA\SF0785\F9323.D
 Acq On : 11 Mar 2015 3:21 pm
 Sample : ID16
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 6
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:09:22 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:09:13 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	36145m	0.1000	ng
78) Cl6(161)	25.73t	360	25785m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	642m	0.0000	ng
27) Cl3(34)	15.28tw	256	8372m	287316.3576	ng
Spiked Amount	0.0200			Recovery	= 1436581788.00%
Corrected Values:			8285	287316.3576	ng
114) Cl6(152)	22.40	360	5119m	-1.0000	ng
Spiked Amount	0.0201			Recovery	= -4980.08%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	26608	Below Cal	
3) Cl1(1)		9.94	188e	18631	No Quad Fit	
4) Cl1(3)		11.13	188e	16800m	334183.0803	ng
5) Cl2(4)		11.42	222e	8632m	Below Cal	
6) Cl2(7)		12.30	222e	11642m	Below Cal	
7) Cl2(9)		12.26	222	15399	No Calib	
8) Cl2(6)		12.54	222e	13846	No Quad Fit	
9) Cl2(5)		12.76	222	12946	No Calib	
10) Cl2(8)		12.83	222e	14689m	Below Cal	
11) Cl3(19)		13.30	256e	5717	No Quad Fit	
12) Cl3(30)		13.69	256e	8559m	Below Cal	
13) Cl2(11)-S1 (0.135)		14.14t	221e	3109	No Calib	
14) Cl2(11)		14.13tw	222e	12704m	Below Cal	
Corrected Values:				12284	695382.9925	Cal
15) Cl3(18)		14.14t	256e	6428m	1206948.4003	ng
16) Cl3(17)		14.26	256e	6437m	Below Cal	
17) Cl2(12)		14.35	222e	12194m	Below Cal	
18) Cl2(13)-S1 (0.135)		14.48tw	221e	376	No Calib	
19) Cl2(13)		14.49t	222e	11564m	Below Cal	
Corrected Values:				11513	-0.1000	Cal
20) Cl3(27)		14.49t	256e	8991m	1416943.6283	ng
21) Cl3(24)		14.62	256e	8617m	Below Cal	
22) Cl3(16)		14.83	256e	4689m	1457317.4807	ng
23) Cl2(15)		14.88	222e	13841m	Below Cal	
24) Cl3(32)		14.95	256e	8922m	1159852.4158	ng
25) Cl4(54)		15.29t	292e	8692m	Below Cal	
28) Cl3(29)		15.51	256e	8226m	Below Cal	
29) Cl3(26)-S1 (0.135)		15.87t	255	1988	No Calib	
30) Cl3(26)		15.82	256e	9268m	Below Cal	
Corrected Values:				9000	-0.1000	Cal
31) Cl4(50)		15.87t	292e	6188	No Quad Fit	
32) Cl3(25)		15.94	256e	8610m	Below Cal	
33) Cl3(31)-S1 (0.135)		16.32t	255	1985	No Calib	
34) Cl3(31)		16.29	256e	8929m	1764955.2967	ng
Corrected Values:				8661	-214748.3648	ng
35) Cl4(53)		16.32t	292e	6013m	Below Cal	
36) Cl3(28)		16.40	256e	8944m	2452315.8220	ng
37) Cl3(33)		16.50	256e	8292m	Below Cal	
38) Cl4(51)		16.59	292e	6238m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9323.D MF0785.M Tue Mar 17 13:24:13 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9323.D

Vial: 6

Acq On : 11 Mar 2015 3:21 pm

Operator: RR

Sample : ID16

Inst : Inst. F

Misc : 5-315 ICAL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 07:09:22 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 07:09:13 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292e	4950	No Quad Fit
40) Cl3(22)		17.00	256e	7783m	Below Cal
41) Cl4(46)		17.18	292e	4649m	Below Cal
42) Cl4(43)		17.55	292e	4639	No Quad Fit
43) Cl4(52)		17.62	292e	5710	No Quad Fit
44) Cl4(48)		17.76	292e	5748	No Quad Fit
45) Cl4(49)		17.83	292	5522	No Calib
46) Cl5(104)		18.01tw	326	6656	No Quad Fit
47) Cl4(47)-S1	(0.174)	18.00tw	289	235	No Calib
48) Cl4(47)		18.02tw	292	7283	No Calib
Corrected Values:				7242	ng
49) Cl4(75)		18.10	292e	7999m	2094541.5476 ng
50) Cl4(44)		18.46	292e	5152	No Quad Fit
51) Cl4(42)		18.67	292e	5036	No Quad Fit
52) Cl4(71)		18.89	292e	7101m	1577345.5852 ng
53) Cl4(41)		18.99	292e	4215m	1599452.8491 ng
54) Cl4(64)		19.29	292e	7952m	2868792.5564 ng
55) Cl4(40)		19.35t	292e	4081m	Below Cal
56) Cl3(37)-S1	(0.135)	19.35t	255	2525	No Calib
57) Cl3(37)		19.36tw	256	8256	Below Cal
Corrected Values:				7915	-1.0000 Cal
58) Cl5(100)		19.72	326e	5095m	Below Cal
59) Cl4(67)		20.01	292e	6747	No Quad Fit
60) Cl4(63)		20.41	292e	6691m	Below Cal
61) Cl5(95)		20.54	326	4348	Below Cal
62) Cl4(74)		20.61	292e	7472m	2325707.8164 ng
63) Cl4(70)		20.75	292e	7437m	Below Cal
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.92	326e	4934	No Quad Fit
Corrected Values:				4934	ng
66) Cl4(66)-S1	(0.174)	20.90	289	1393	No Calib
67) Cl4(66)-S2	(0.650)	20.99tw	288e	2904	No Calib
68) Cl4(66)		20.95	292e	9109m	Below Cal
Corrected Values:				6979	-1.0000 Cal
69) Cl6(155)		20.98tw	360e	6328	No Quad Fit
70) Cl4(80)		21.26	292e	6647m	Below Cal
71) Cl5(92)		21.56T	326	4561	No Calib
72) Cl5(84)		21.56T	326	3432	No Calib
73) Cl4(56)-S1	(0.174)	21.56t	289e	2569	No Calib
74) Cl4(56)		21.60	292e	7533m	Below Cal
Corrected Values:				7086	-214748.3648 Cal
75) Cl4(60)-S1	(0.174)	21.85tw	289e	639	No Calib
76) Cl4(60)		21.86tw	292e	6914m	Below Cal
Corrected Values:				6803	-1.0000 Cal
77) Cl5(101)		21.84tw	326e	5034m	Below Cal
79) Cl5(99)		22.12	326e	5043m	582121.7867 ng
80) Cl5(83)		22.51	326e	3452m	656933.4309 ng
81) Cl5(125)		22.66	326e	5756	No Quad Fit
82) Cl5(97)		22.80	326e	4055m	1009798.2496 ng
83) Cl5(87)		23.25	326e	4121m	Below Cal

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9323.D MF0785.M Tue Mar 17 13:24:13 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9323.D
 Acq On : 11 Mar 2015 3:21 pm
 Sample : ID16
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 6
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:09:22 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:09:13 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	4971	Below Cal
85) Cl5(115)		23.47	326	6728	No Calib
86) Cl6(154)		23.53	360e	4342m	Below Cal
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.51	326	4143	No Calib
Corrected Values:				4143	ng
89) Cl5(110)		23.77	326e	6020m	Below Cal
90) Cl4(81)		23.88	292e	6067m	Below Cal
91) Cl5(82)-S1	(0.220)	24.20	323e	827	No Calib
92) Cl5(82)		24.23tw	326	3906	Below Cal
Corrected Values:				3724	-1.0000 Cal
93) Cl6(151)		24.22tw	360e	3573m	544633.2795 ng
94) Cl6(135)		24.31	360e	3590m	Below Cal
95) Cl4(77)-S2	(0.650)	24.44tw	288e	2501	No Calib
96) Cl4(77)		24.42	292e	7801	No Quad Fit
Corrected Values:				6175	ng
97) Cl6(144)		24.45tw	360e	3910m	Below Cal
98) Cl6(149)		24.68	360e	4014m	Below Cal
99) Cl6(139)		24.79	360e	3860	No Quad Fit
100) Cl5(124)-S1	(0.220)	24.90t	323e	657	No Calib
101) Cl5(124)		24.84	326e	6209m	Below Cal
Corrected Values:				6064	-1.0000 Cal
102) Cl6(140)		24.90t	360e	3981	No Quad Fit
103) Cl5(123)		25.05	326	5552	Below Cal
104) Cl6(134)		25.14	360e	3014m	Below Cal
105) Cl7(188)		25.25t	394	4422	No Quad Fit
106) Cl5(118)-S1	(0.220)	25.31t	323e	861	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	1729	No Calib
108) Cl5(118)		25.26tw	326e	7919	No Quad Fit
Corrected Values:				5863	ng
109) Cl6(131)		25.31t	360	3397	Below Cal
110) Cl7(184)		25.54	394e	4277m	Below Cal
111) Cl6(146)		25.62	360e	3986	No Quad Fit
112) Cl5(114)-S1	(0.220)	25.73t	323	256	No Calib
113) Cl5(114)		25.65	326e	5980m	Below Cal
Corrected Values:				5924	-0.1000 Cal
115) Cl6(153)		25.88	360	4204	Below Cal
116) Cl7(179)		26.10	394e	4080	No Quad Fit
117) Cl5(105)-S1	(0.220)	26.27t	323e	490	No Calib
118) Cl5(105)		26.23	326e	5263m	Below Cal
Corrected Values:				5155	-214748.3648 Cal
119) Cl6(141)		26.27t	360e	3205m	Below Cal
120) Cl7(176)		26.37	394e	3880	No Quad Fit
121) Cl6(127)-S1	(0.265)	26.48t	323	382	No Calib
122) Cl5(127)		26.50	326e	5570m	Below Cal
123) Cl6(137)		26.48t	360e	3369m	Below Cal
124) Cl6(130)		26.63	360	3406	No Calib
125) Cl6(164)		26.68	360e	4367m	242404.3961 ng
126) Cl6(138)		26.81	360	4119	No Calib
127) Cl6(163)-S1	(0.265)	26.90tw	357	571	No Calib

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
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 F9323.D MF0785.M Tue Mar 17 13:24:14 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9323.D

Vial: 6

Acq On : 11 Mar 2015 3:21 pm

Operator: RR

Sample : ID16

Inst : Inst. F

Misc : 5-315 ICAL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 07:09:22 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 07:09:13 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360e	4529m	3215143.3615 ng
Corrected Values:				4378	-214748.3648 ng
129) Cl7(178)		26.91tw	394	2980	Below Cal
130) Cl6(158)		26.96	360e	4924m	Below Cal
131) Cl7(175)		27.09	394e	2899m	1428265.8656 ng
132) Cl7(187)		27.17	394e	3315m	Below Cal
133) Cl6(166)-S1	(0.265)	27.35t	357	237	No Calib
134) Cl6(166)		27.35t	360e	4598	No Quad Fit
Corrected Values:				4535	ng
135) Cl7(183)		27.35t	394e	3184m	Below Cal
136) Cl5(126)		27.51	326e	4357	No Quad Fit
137) Cl6(128)-S1	(0.265)	27.69tw	357e	409	No Calib
138) Cl6(128)		27.66	360e	3328	No Quad Fit
Corrected Values:				3220	ng
139) Cl7(185)		27.70tw	394e	2817m	Below Cal
140) Cl7(174)		27.81	394e	2736m	Below Cal
141) Cl6(167)		27.89	360e	4025m	Below Cal
142) Cl8(202)		27.97	428e	3111m	Below Cal
143) Cl7(177)		28.07	394e	2462	No Quad Fit
144) Cl8(201)		28.20t	428e	3090m	Below Cal
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.20t	394e	2818m	964908.5934 ng
Corrected Values:				2818	964908.5934 ng
147) Cl7(173)		28.29	394e	2419m	Below Cal
148) Cl8(197)		28.42	428e	2914m	Below Cal
149) Cl6(156)-S1	(0.265)	28.54t	357e	452	No Calib
150) Cl6(156)		28.51	360e	4034	No Quad Fit
Corrected Values:				3914	ng
151) Cl7(172)		28.54t	394e	2468	No Quad Fit
152) Cl6(157)		28.60	360e	3974	No Quad Fit
153) Cl7(180)		28.74	394e	2917m	2101274.5998 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.78	394e	3548	No Quad Fit
Corrected Values:				3548	ng
156) Cl8(200)		28.83	428e	2983m	Below Cal
157) Cl7(191)		28.91	394e	3605	No Quad Fit
158) Cl7(170)-S1	(0.309)	29.51t	391E	650	No Calib
159) Cl7(170)		29.45	394	2373	Below Cal
Corrected Values:				2172	-1.0000 Cal
160) Cl8(198)		29.48	428	1712	No Calib
161) Cl8(199)		29.51t	428	2002	No Calib
162) Cl7(190)		29.57	394e	3454m	Below Cal
163) Cl6(169)-S2	(1.610)	29.68tw	356e	1004	No Calib
164) Cl6(169)		29.65	360e	4749m	Below Cal
Corrected Values:				3133	-1.0000 Cal
165) Cl8(203)		29.69tw	428e	2279m	646492.0850 ng
166) Cl9(208)		30.19	464e	2317m	Below Cal
167) Cl7(189)		30.33	394e	2579m	541483.1366 ng
168) Cl9(207)		30.39t	464e	2452m	Below Cal
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9323.D MF0785.M Tue Mar 17 13:24:14 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9323.D
Acq On : 11 Mar 2015 3:21 pm
Sample : ID16
Misc : 5-315 ICAL
MS Integration Params: rteint.p

Vial: 6
Operator: RR
Inst : Inst. F
Multiplr: 1.00

Quant Time: Mar 12 07:09:22 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Thu Mar 12 07:09:13 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39t	428e	2131m	509274.2787 ng
Corrected Values:				2131	509274.2787 ng
171) Cl8(194)		30.89	428e	1632m	Below Cal
172) Cl8(205)		31.04	428e	2285	No Quad Fit
173) Cl9(206)		31.54	464e	1474m	818741.3813 ng
174) Cl10(209)		32.05	498e	1649m	Below Cal

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9323.D MF0785.M Tue Mar 17 13:24:14 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9324.D
 Acq On : 11 Mar 2015 4:09 pm
 Sample : ID17
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 7
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:10:04 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:09:22 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	40419m	0.1000	ng
78) Cl6(161)	25.73tw	360	29349m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	1302m	0.0000	ng
27) Cl3(34)	15.28tw	256	19066m	5880890.7566	ng
Spiked Amount	0.0400			Recovery	= 14568612552.25%
Corrected Values:			18890	5827445.0209	ng
114) Cl6(152)	22.40	360	11366m	-0.1000	ng
Spiked Amount	0.0402			Recovery	= -249.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154E	53800m	Below Cal	
3) Cl1(1)		9.93	188E	40466	No Quad Fit	
4) Cl1(3)		11.13	188E	37426m	2612700.1771	ng
5) Cl2(4)		11.42	222E	18835m	Below Cal	
6) Cl2(7)		12.30	222E	25372m	Below Cal	
7) Cl2(9)		12.26	222	33962	No Calib	
8) Cl2(6)		12.54	222E	30083	No Quad Fit	
9) Cl2(5)		12.76	222	29455	No Calib	
10) Cl2(8)		12.83	222E	32066m	Below Cal	
11) Cl3(19)		13.30	256E	12646	No Quad Fit	
12) Cl3(30)		13.69	256E	18693m	5628138.3342	ng
13) Cl2(11)-S1 (0.135)		14.14tw	221E	6932	No Calib	
14) Cl2(11)		14.13tw	222E	28142m	Below Cal	
Corrected Values:				27206	-0.1000	Cal
15) Cl3(18)		14.15tw	256E	14028m	3378146.2196	ng
16) Cl3(17)		14.26	256E	13905m	Below Cal	
17) Cl2(12)		14.35	222E	26613m	Below Cal	
18) Cl2(13)-S1 (0.135)		14.49t	221E	743	No Calib	
19) Cl2(13)		14.49t	222E	26861m	Below Cal	
Corrected Values:				26761	-0.1000	Cal
20) Cl3(27)		14.50tw	256E	19621m	4650471.9648	ng
21) Cl3(24)		14.62	256E	19106m	Below Cal	
22) Cl3(16)		14.82	256E	10606m	6368834.3871	ng
23) Cl2(15)		14.88	222E	30934m	Below Cal	
24) Cl3(32)		14.95	256E	20448m	4776883.5411	ng
25) Cl4(54)		15.29t	292E	18697m	Below Cal	
28) Cl3(29)		15.51	256E	18172m	3577037.2248	ng
29) Cl3(26)-S1 (0.135)		15.86tw	255E	4116	No Calib	
30) Cl3(26)		15.82	256E	20423m	Below Cal	
Corrected Values:				19867	-0.1000	Cal
31) Cl4(50)		15.87tw	292E	13018	No Quad Fit	
32) Cl3(25)		15.95	256E	19848m	3822961.3446	ng
33) Cl3(31)-S1 (0.135)		16.32t	255E	4490	No Calib	
34) Cl3(31)		16.29	256E	20792m	4341010.1279	ng
Corrected Values:				20186	-214748.3648	ng
35) Cl4(53)		16.32t	292E	13119m	3029959.5141	ng
36) Cl3(28)		16.40	256E	19894m	5128415.7482	ng
37) Cl3(33)		16.50	256E	18481m	Below Cal	
38) Cl4(51)		16.59	292E	13975m	Below Cal	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9324.D MF0785.M Tue Mar 17 13:24:16 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9324.D
 Acq On : 11 Mar 2015 4:09 pm
 Sample : ID17
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 7
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:10:04 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:09:22 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292E	10897	No Quad Fit
40) Cl3(22)		17.00	256E	17941m	Below Cal
41) Cl4(46)		17.18	292E	9991m	Below Cal
42) Cl4(43)		17.56	292E	10470	No Quad Fit
43) Cl4(52)		17.62	292E	12788	No Quad Fit
44) Cl4(48)		17.76	292E	12640	No Quad Fit
45) Cl4(49)		17.83	292	12433	No Calib
46) Cl5(104)		18.01tw	326E	15600	No Quad Fit
47) Cl4(47)-S1	(0.174)	18.00tw	289E	497	No Calib
48) Cl4(47)		18.02tw	292	15575	No Calib
Corrected Values:				15489	ng
49) Cl4(75)		18.10	292E	17319m	6729834.0808 ng
50) Cl4(44)		18.46	292E	10901	No Quad Fit
51) Cl4(42)		18.68	292E	11014	No Quad Fit
52) Cl4(71)		18.89	292E	15889m	4334514.8930 ng
53) Cl4(41)		18.99	292E	9608m	3664788.2731 ng
54) Cl4(64)		19.28	292E	16587m	6768662.6841 ng
55) Cl4(40)		19.36tw	292E	9902m	Below Cal
56) Cl3(37)-S1	(0.135)	19.35t	255E	5752	No Calib
57) Cl3(37)		19.35t	256E	19315	3710615.3137 ng
Corrected Values:				18538	-214748.3648 ng
58) Cl5(100)		19.71	326E	11025m	Below Cal
59) Cl4(67)		20.01	292E	15407	No Quad Fit
60) Cl4(63)		20.40	292E	14498m	3699754.1045 ng
61) Cl5(95)		20.54	326E	10125m	4210045.8748 ng
62) Cl4(74)		20.61	292E	17085m	6907166.0151 ng
63) Cl4(70)		20.76	292E	16848m	Below Cal
64) Cl5(91)-S1	(0.220)	20.98tw	323	156	No Calib
65) Cl5(91)		20.92	326E	11026	No Quad Fit
Corrected Values:				10992	ng
66) Cl4(66)-S1	(0.174)	20.90	289E	3400	No Calib
67) Cl4(66)-S2	(0.650)	20.99t	288E	6479	No Calib
68) Cl4(66)		20.95	292E	20772m	3277613.3612 ng
Corrected Values:				15969	-214748.3648 ng
69) Cl6(155)		20.99t	360E	14041	No Quad Fit
70) Cl4(80)		21.27	292E	15296m	2573769.4963 ng
71) Cl5(92)		21.56T	326	11012	No Calib
72) Cl5(84)		21.56T	326	8259	No Calib
73) Cl4(56)-S1	(0.174)	21.56t	289E	6206	No Calib
74) Cl4(56)		21.60	292E	17122m	Below Cal
Corrected Values:				16042	-0.1000 Cal
75) Cl4(60)-S1	(0.174)	21.84tw	289E	1398	No Calib
76) Cl4(60)		21.86tw	292E	16131m	3421185.3001 ng
Corrected Values:				15888	-214748.3648 ng
77) Cl5(101)		21.85tw	326E	11500m	Below Cal
79) Cl5(99)		22.11	326E	11096m	3940480.1866 ng
80) Cl5(83)		22.51	326E	8290m	3014192.4513 ng
81) Cl5(125)		22.65	326E	13288	No Quad Fit
82) Cl5(97)		22.79	326E	9255m	5677067.8997 ng
83) Cl5(87)		23.25	326E	9081m	Below Cal

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9324.D MF0785.M Tue Mar 17 13:24:16 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9324.D
 Acq On : 11 Mar 2015 4:09 pm
 Sample : ID17
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 7
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:10:04 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:09:22 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360E	11636m	4038545.8590 ng
85) Cl5(115)		23.46	326	13881	No Calib
86) Cl6(154)		23.53	360E	10208m	3819833.9159 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.51	326	10692	No Calib
Corrected Values:				10692	ng
89) Cl5(110)		23.78	326E	13694m	6729363.0641 ng
90) Cl4(81)		23.88	292E	14216m	2690160.6725 ng
91) Cl5(82)-S1	(0.220)	24.22t	323E	1866	No Calib
92) Cl5(82)		24.22t	326E	9009m	2265483.3736 ng
Corrected Values:				8598	-214748.3648 ng
93) Cl6(151)		24.22t	360E	8476m	3013667.6831 ng
94) Cl6(135)		24.31	360E	8236m	Below Cal
95) Cl4(77)-S2	(0.650)	24.45t	288E	5765	No Calib
96) Cl4(77)		24.42	292E	17860	No Quad Fit
Corrected Values:				14113	ng
97) Cl6(144)		24.45t	360E	8814m	3502258.6490 ng
98) Cl6(149)		24.67	360E	8637m	Below Cal
99) Cl6(139)		24.80	360E	9091	No Quad Fit
100) Cl5(124)-S1	(0.220)	24.90t	323E	1525	No Calib
101) Cl5(124)		24.84	326E	14430m	4510732.1115 ng
Corrected Values:				14094	-214748.3648 ng
102) Cl6(140)		24.90t	360E	9144	No Quad Fit
103) Cl5(123)		25.05	326E	12743m	Below Cal
104) Cl6(134)		25.15	360E	7064m	Below Cal
105) Cl7(188)		25.25t	394E	9633	No Quad Fit
106) Cl5(118)-S1	(0.220)	25.31t	323E	2479	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322E	4043	No Calib
108) Cl5(118)		25.27	326E	18300	No Quad Fit
Corrected Values:				13389	ng
109) Cl6(131)		25.31t	360E	8046	Below Cal
110) Cl7(184)		25.54	394E	9633m	5572166.7048 ng
111) Cl6(146)		25.62	360E	8971	No Quad Fit
112) Cl5(114)-S1	(0.220)	25.72tw	323E	403	No Calib
113) Cl5(114)		25.65	326E	13323m	Below Cal
Corrected Values:				13234	-0.1000 Cal
115) Cl6(153)		25.88	360E	9663	3056010.8522 ng
116) Cl7(179)		26.10	394E	8997	No Quad Fit
117) Cl5(105)-S1	(0.220)	26.27t	323E	1158	No Calib
118) Cl5(105)		26.23	326E	12323m	Below Cal
Corrected Values:				12068	-0.1000 Cal
119) Cl6(141)		26.27t	360E	7807m	Below Cal
120) Cl7(176)		26.36	394E	8817	No Quad Fit
121) Cl6(127)-S1	(0.265)	26.49t	323E	966	No Calib
122) Cl5(127)		26.51	326E	13726m	3811040.2534 ng
123) Cl6(137)		26.49t	360E	7953m	Below Cal
124) Cl6(130)		26.63	360	7999	No Calib
125) Cl6(164)		26.68	360E	10697m	2594777.5785 ng
126) Cl6(138)		26.81	360	9612	No Calib
127) Cl6(163)-S1	(0.265)	26.91t	357E	1460	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9324.D MF0785.M Tue Mar 17 13:24:16 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9324.D
 Acq On : 11 Mar 2015 4:09 pm
 Sample : ID17
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 7
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:10:04 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:09:22 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360E	10667m	6439854.7149 ng
Corrected Values:				10280	-214748.3648 ng
129) Cl7(178)		26.91t	394E	6827	Below Cal #
130) Cl6(158)		26.95	360E	11468m	4053981.7892 ng
131) Cl7(175)		27.09	394E	6867m	7073431.3921 ng
132) Cl7(187)		27.17	394E	7758m	Below Cal
133) Cl6(166) -S1	(0.265)	27.35t	357E	661	No Calib
134) Cl6(166)		27.35t	360E	10740	No Quad Fit
Corrected Values:				10565	ng
135) Cl7(183)		27.35t	394E	7189m	2874427.6697 ng
136) Cl5(126)		27.52	326E	10669	No Quad Fit
137) Cl6(128) -S1	(0.265)	27.70t	357E	918	No Calib
138) Cl6(128)		27.67	360E	7790	No Quad Fit
Corrected Values:				7547	ng
139) Cl7(185)		27.70t	394E	6293m	3044232.9676 ng
140) Cl7(174)		27.81	394E	6171m	Below Cal
141) Cl6(167)		27.89	360E	9833m	Below Cal
142) Cl8(202)		27.97	428E	7293m	4988418.2578 ng
143) Cl7(177)		28.07	394E	5913	No Quad Fit
144) Cl8(201)		28.20t	428E	7139m	2655571.6478 ng
145) Cl7(171) -S1	(0.309)	28.19tw	391	161	No Calib
146) Cl7(171)		28.20t	394E	6661m	4542531.4606 ng
Corrected Values:				6611	-214748.3648 ng
147) Cl7(173)		28.29	394E	5574m	Below Cal
148) Cl8(197)		28.42	428E	6811m	4435962.8500 ng
149) Cl6(156) -S1	(0.265)	28.54t	357E	1084	No Calib
150) Cl6(156)		28.51	360E	9732	No Quad Fit
Corrected Values:				9445	ng
151) Cl7(172)		28.54t	394E	6070	No Quad Fit
152) Cl6(157)		28.60	360E	9850	No Quad Fit
153) Cl7(180)		28.74	394E	6969m	5002569.1586 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.79	394E	8251	No Quad Fit
Corrected Values:				8251	ng
156) Cl8(200)		28.83	428E	7199m	4617713.2821 ng
157) Cl7(191)		28.91	394E	8412	No Quad Fit
158) Cl7(170) -S1	(0.309)	29.51t	391E	1500	No Calib
159) Cl7(170)		29.45	394E	5611	5275010.1049 ng
Corrected Values:				5147	4820383.1086 ng
160) Cl8(198)		29.48	428	5201	No Calib
161) Cl8(199)		29.51t	428	4343	No Calib
162) Cl7(190)		29.57	394E	8016m	Below Cal
163) Cl6(169) -S2	(1.610)	29.68tw	356E	2358	No Calib
164) Cl6(169)		29.65	360E	11623m	4158092.7693 ng
Corrected Values:				7827	-214748.3648 ng
165) Cl8(203)		29.69tw	428E	5505m	2683930.7868 ng
166) Cl9(208)		30.19	464E	5277m	3866257.1960 ng
167) Cl7(189)		30.33	394E	6213m	2816580.7473 ng
168) Cl9(207)		30.39t	464E	5775m	4083668.3227 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9324.D MF0785.M Tue Mar 17 13:24:16 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9324.D
 Acq On : 11 Mar 2015 4:09 pm
 Sample : ID17
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 7
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:10:04 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:09:22 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39t	428E	4842m	3144728.3916 ng
Corrected Values:				4842	3144728.3916 ng
171) Cl8(194)		30.89	428E	3745m	Below Cal
172) Cl8(205)		31.04	428E	5229	No Quad Fit
173) Cl9(206)		31.54	464E	3372m	2927284.4269 ng
174) Cl10(209)		32.05	498E	3565m	Below Cal

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9324.D MF0785.M Tue Mar 17 13:24:16 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9325.D
 Acq On : 11 Mar 2015 4:57 pm
 Sample : ID18
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 8
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:10:46 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:10:02 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	38312m	0.1000	ng
78) Cl6(161)	25.73t	360	28711m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	2837m	0.0000	ng
27) Cl3(34)	15.28tw	256	38404m	10528516.6528	ng
Spiked Amount	0.0800			Recovery	= 13075085590.75%
Corrected Values:			38021	10460068.4726	ng
114) Cl6(152)	22.41	360	23185m	-0.1000	ng
Spiked Amount	0.0803			Recovery	= -124.50%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.75	154E	109233m	Below Cal	
3) Cl1(1)	9.94	188E	79253	No Quad Fit	
4) Cl1(3)	11.13	188E	74785m	4665369.5796	ng
5) Cl2(4)	11.42	222E	37365m	Below Cal	
6) Cl2(7)	12.30	222E	50164m	Below Cal	
7) Cl2(9)	12.26	222	70691	No Calib	
8) Cl2(6)	12.54	222E	61851	No Quad Fit	
9) Cl2(5)	12.76	222	59104	No Calib	
10) Cl2(8)	12.83	222E	65720m	Below Cal	
11) Cl3(19)	13.30	256E	24849	No Quad Fit	
12) Cl3(30)	13.69	256E	39156m	10602526.1537	ng
13) Cl2(11)-S1 (0.135)	14.14t	221E	13959	No Calib	
14) Cl2(11)	14.12	222E	58477m	Below Cal	
Corrected Values:			56593	-0.1000	Cal
15) Cl3(18)	14.14t	256E	28785m	5932452.0497	ng
16) Cl3(17)	14.26	256E	28952m	Below Cal	
17) Cl2(12)	14.35	222E	56335m	Below Cal	
18) Cl2(13)-S1 (0.135)	14.49t	221E	1625	No Calib	
19) Cl2(13)	14.49t	222E	55423m	Below Cal	
Corrected Values:			55204	-0.1000	Cal
20) Cl3(27)	14.50tw	256E	41011m	8373626.2310	ng
21) Cl3(24)	14.62	256E	39247m	Below Cal	
22) Cl3(16)	14.83	256E	21164m	11161715.2034	ng
23) Cl2(15)	14.88	222E	63191m	Below Cal	
24) Cl3(32)	14.95	256E	40668m	8298872.7262	ng
25) Cl4(54)	15.29t	292E	38313m	Below Cal	
28) Cl3(29)	15.51	256E	38603m	6735029.3227	ng
29) Cl3(26)-S1 (0.135)	15.87t	255E	8541	No Calib	
30) Cl3(26)	15.82	256E	42870m	Below Cal	
Corrected Values:			41717	-0.1000	Cal
31) Cl4(50)	15.87t	292E	27423	No Quad Fit	
32) Cl3(25)	15.94	256E	39031m	6734190.6869	ng
33) Cl3(31)-S1 (0.135)	16.32t	255E	9046	No Calib	
34) Cl3(31)	16.29	256E	42141m	7299990.8245	ng
Corrected Values:			40920	-214748.3648	ng
35) Cl4(53)	16.32t	292E	27687m	5701244.7726	ng
36) Cl3(28)	16.40	256E	41906m	8727421.0175	ng
37) Cl3(33)	16.50	256E	38115m	Below Cal	
38) Cl4(51)	16.58	292E	28996m	Below Cal	

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9325.D MF0785.M Tue Mar 17 13:24:18 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9325.D
 Acq On : 11 Mar 2015 4:57 pm
 Sample : ID18
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 8
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:10:46 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:10:02 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292E	22306	No Quad Fit
40) Cl3(22)		17.00	256E	37620m	Below Cal
41) Cl4(46)		17.17	292E	20629m	Below Cal
42) Cl4(43)		17.56	292E	22892	No Quad Fit
43) Cl4(52)		17.62	292E	25776	No Quad Fit
44) Cl4(48)		17.76	292E	26627	No Quad Fit
45) Cl4(49)		17.83	292	25483	No Calib
46) Cl5(104)		18.02t	326E	31713	No Quad Fit
47) Cl4(47)-S1	(0.174)	18.01tw	289E	1038	No Calib
48) Cl4(47)		18.02t	292	30756	No Calib
Corrected Values:				30575	ng
49) Cl4(75)		18.10	292E	38102m	12531581.0051 ng
50) Cl4(44)		18.46	292E	23082	No Quad Fit
51) Cl4(42)		18.67	292E	23164	No Quad Fit
52) Cl4(71)		18.90	292E	33718m	7691132.9380 ng
53) Cl4(41)		18.99	292E	19861m	6215470.4128 ng
54) Cl4(64)		19.28	292E	34701m	11983918.8603 ng
55) Cl4(40)		19.36tw	292E	19327m	Below Cal
56) Cl3(37)-S1	(0.135)	19.35t	255E	12239	No Calib
57) Cl3(37)		19.35t	256E	40120	6850287.3212 ng
Corrected Values:				38468	-214748.3648 ng
58) Cl5(100)		19.71	326E	23494m	Below Cal
59) Cl4(67)		20.01	292E	32941	No Quad Fit
60) Cl4(63)		20.40	292E	31651m	7241150.6772 ng
61) Cl5(95)		20.55	326E	20442m	7642203.9101 ng
62) Cl4(74)		20.61	292E	35937m	12191645.1858 ng
63) Cl4(70)		20.75	292E	35557m	Below Cal
64) Cl5(91)-S1	(0.220)	20.97tw	323	381	No Calib
65) Cl5(91)		20.92	326E	23521	No Quad Fit
Corrected Values:				23437	ng
66) Cl4(66)-S1	(0.174)	20.90	289E	7048	No Calib
67) Cl4(66)-S2	(0.650)	20.98t	288E	13751	No Calib
68) Cl4(66)		20.94	292E	44945m	6169567.7215 ng
Corrected Values:				34781	-214748.3648 ng
69) Cl6(155)		20.98t	360E	29355	No Quad Fit
70) Cl4(80)		21.26	292E	33230m	4849411.0325 ng
71) Cl5(92)		21.55Tw	326	23086	No Calib
72) Cl5(84)		21.56t	326	16098	No Calib
73) Cl4(56)-S1	(0.174)	21.56t	289E	12369	No Calib
74) Cl4(56)		21.60	292E	37223m	Below Cal
Corrected Values:				35071	-0.1000 Cal
75) Cl4(60)-S1	(0.174)	21.84tw	289E	2999	No Calib
76) Cl4(60)		21.86tw	292E	34183m	6376139.5872 ng
Corrected Values:				33661	-214748.3648 ng
77) Cl5(101)		21.85tw	326E	24363m	Below Cal
79) Cl5(99)		22.11	326E	23889m	7301464.7911 ng
80) Cl5(83)		22.51	326E	16884m	5184978.6507 ng
81) Cl5(125)		22.65	326E	27265	No Quad Fit
82) Cl5(97)		22.80	326E	20521m	10539517.8438 ng
83) Cl5(87)		23.25	326E	18948m	Below Cal

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9325.D MF0785.M Tue Mar 17 13:24:18 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9325.D

Acq On : 11 Mar 2015 4:57 pm

Sample : ID18

Misc : 5-315 ICAL

MS Integration Params: rteint.p

Vial: 8

Operator: RR

Inst : Inst. F

Multiplr: 1.00

Quant Time: Mar 12 07:10:46 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 07:10:02 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360E	23439	7149512.1695 ng
85) Cl5(115)		23.46	326	30529	No Calib
86) Cl6(154)		23.53	360E	21984m	7016354.7228 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.49	326	22416	No Calib
Corrected Values:				22416	ng
89) Cl5(110)		23.77	326E	28645m	12227898.8274 ng
90) Cl4(81)		23.88	292E	31370m	4994897.8804 ng
91) Cl5(82)-S1	(0.220)	24.22t	323E	3718	No Calib
92) Cl5(82)		24.22t	326E	18584m	4095532.1489 ng
Corrected Values:				17766	-214748.3648 ng
93) Cl6(151)		24.21tw	360E	17609m	5297180.6024 ng
94) Cl6(135)		24.32	360E	17708m	Below Cal
95) Cl4(77)-S2	(0.650)	24.44tw	288E	11897	No Calib
96) Cl4(77)		24.41	292E	38575	No Quad Fit
Corrected Values:				30842	ng
97) Cl6(144)		24.45tw	360E	19019m	6502379.2239 ng
98) Cl6(149)		24.67	360E	19082m	Below Cal
99) Cl6(139)		24.80	360E	18988	No Quad Fit
100) Cl5(124)-S1	(0.220)	24.90t	323E	2969	No Calib
101) Cl5(124)		24.84	326E	31873m	8486542.5700 ng
Corrected Values:				31220	-214748.3648 ng
102) Cl6(140)		24.90t	360E	18738	No Quad Fit
103) Cl5(123)		25.05	326E	27148	Below Cal
104) Cl6(134)		25.14	360E	14969m	Below Cal
105) Cl7(188)		25.25t	394E	21348	No Quad Fit
106) Cl5(118)-S1	(0.220)	25.31t	323E	5311	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322E	8424	No Calib
108) Cl5(118)		25.27	326E	39712	No Quad Fit
Corrected Values:				29446	ng
109) Cl6(131)		25.31t	360E	17317m	Below Cal
110) Cl7(184)		25.54	394E	20125m	10200510.4090 ng
111) Cl6(146)		25.62	360E	19850	No Quad Fit
112) Cl5(114)-S1	(0.220)	25.73t	323E	315	No Calib
113) Cl5(114)		25.65	326E	29137m	Below Cal
Corrected Values:				29068	-0.1000 Cal
115) Cl6(153)		25.88	360E	20327m	5603340.7255 ng
116) Cl7(179)		26.10	394E	19184	No Quad Fit
117) Cl5(105)-S1	(0.220)	26.27t	323E	2428	No Calib
118) Cl5(105)		26.23	326E	26829m	Below Cal
Corrected Values:				26295	-0.1000 Cal
119) Cl6(141)		26.27t	360E	16945m	Below Cal
120) Cl7(176)		26.36	394E	19503	No Quad Fit
121) Cl6(127)-S1	(0.265)	26.48tw	323E	1994	No Calib
122) Cl5(127)		26.50tw	326E	28975m	6786911.9323 ng
123) Cl6(137)		26.49tw	360E	17014m	Below Cal
124) Cl6(130)		26.62	360	16995	No Calib
125) Cl6(164)		26.68	360E	22196m	4550803.0361 ng
126) Cl6(138)		26.81	360	20580	No Calib
127) Cl6(163)-S1	(0.265)	26.91t	357E	3032	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9325.D MF0785.M Tue Mar 17 13:24:18 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9325.D

Vial: 8

Acq On : 11 Mar 2015 4:57 pm

Operator: RR

Sample : ID18

Inst : Inst. F

Misc : 5-315 ICAL

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 07:10:46 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 07:10:02 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360E	21811m	10351635.7144 ng
Corrected Values:				21008	-214748.3648 ng
129) Cl7(178)		26.91t	394E	14698m	Below Cal
130) Cl6(158)		26.96	360E	25004m	7498872.5131 ng
131) Cl7(175)		27.10	394E	14153m	12340522.0820 ng
132) Cl7(187)		27.18	394E	16250m	Below Cal
133) Cl6(166) -S1	(0.265)	27.35t	357E	1174	No Calib
134) Cl6(166)		27.35t	360E	22824	No Quad Fit
Corrected Values:				22513	ng
135) Cl7(183)		27.35t	394E	15632m	5362151.7956 ng
136) Cl5(126)		27.51	326E	22978	No Quad Fit
137) Cl6(128) -S1	(0.265)	27.70t	357E	1873	No Calib
138) Cl6(128)		27.66	360E	16440	No Quad Fit
Corrected Values:				15944	ng
139) Cl7(185)		27.70t	394E	13726m	5739264.7151 ng
140) Cl7(174)		27.81	394E	13908m	Below Cal
141) Cl6(167)		27.89	360E	21611m	Below Cal
142) Cl8(202)		27.97	428E	15818m	9197571.0403 ng
143) Cl7(177)		28.07	394E	12773	No Quad Fit
144) Cl8(201)		28.20t	428E	15555m	4947181.1671 ng
145) Cl7(171) -S1	(0.309)	28.20t	391	169	No Calib
146) Cl7(171)		28.20t	394E	13631m	7882215.7316 ng
Corrected Values:				13579	-214748.3648 ng
147) Cl7(173)		28.29	394E	12608m	Below Cal
148) Cl8(197)		28.42	428E	15000m	8235056.7180 ng
149) Cl6(156) -S1	(0.265)	28.54t	357E	2287	No Calib
150) Cl6(156)		28.51	360E	21257	No Quad Fit
Corrected Values:				20651	ng
151) Cl7(172)		28.54t	394E	13230	No Quad Fit
152) Cl6(157)		28.60	360E	22018	No Quad Fit
153) Cl7(180)		28.74	394E	15200m	8568922.4371 ng
154) Cl7(193) -S1	(0.309)	28.82tw	391	188	No Calib
155) Cl7(193)		28.79	394E	17723	No Quad Fit
Corrected Values:				17665	ng
156) Cl8(200)		28.83tw	428E	15495m	8374257.5976 ng
157) Cl7(191)		28.91	394E	18913	No Quad Fit
158) Cl7(170) -S1	(0.309)	29.50tw	391E	3227	No Calib
159) Cl7(170)		29.45	394E	12150	9755849.6078 ng
Corrected Values:				11153	9224731.4900 ng
160) Cl8(198)		29.48	428	11398	No Calib
161) Cl8(199)		29.51tw	428	9231	No Calib
162) Cl7(190)		29.57	394E	17755m	Below Cal
163) Cl6(169) -S2	(1.610)	29.68tw	356E	4992	No Calib
164) Cl6(169)		29.65	360E	25664m	7673754.8289 ng
Corrected Values:				17627	-214748.3648 ng
165) Cl8(203)		29.69tw	428E	11641m	4702071.8559 ng
166) Cl9(208)		30.19	464E	11308m	7121650.0270 ng
167) Cl7(189)		30.33	394E	13981m	5173443.8394 ng
168) Cl9(207)		30.39t	464E	13439m	7851964.0906 ng
169) Cl8(195) -S1	(0.400)	30.38tw	425	78	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9325.D MF0785.M Tue Mar 17 13:24:19 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9325.D
Acq On : 11 Mar 2015 4:57 pm
Sample : ID18
Misc : 5-315 ICAL
MS Integration Params: rteint.p

Vial: 8
Operator: RR
Inst : Inst. F
Multiplr: 1.00

Quant Time: Mar 12 07:10:46 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Thu Mar 12 07:10:02 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39t	428E	10293m	5702976.1188 ng
Corrected Values:				10262	-214748.3648 ng
171) Cl8(194)		30.89	428E	8647m	Below Cal
172) Cl8(205)		31.04	428E	11844	No Quad Fit
173) Cl9(206)		31.54	464E	7273m	5244893.5267 ng
174) Cl10(209)		32.05	498E	7910m	Below Cal

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9325.D MF0785.M Tue Mar 17 13:24:19 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9327.D
 Acq On : 11 Mar 2015 6:33 pm
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:11:28 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:10:43 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	49397m	0.1000	ng
78) Cl6(161)	25.73t	360	37997m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	13397m	0.0000	ng
27) Cl3(34)	15.28tw	256	199410m	23386521.5396	ng
Spiked Amount	0.3200			Recovery	= 7273040990.41%
Corrected Values:			197601	23273731.1693	ng
114) Cl6(152)	22.41	360	125500m	-0.1000	ng
Spiked Amount	0.3213			Recovery	= -31.13%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154E	535635m	Below Cal	
3) Cl1(1)		9.93	188E	402564	No Quad Fit	
4) Cl1(3)		11.13	188E	388427m	10384431.8065	ng
5) Cl2(4)		11.41	222E	192415m	Below Cal	
6) Cl2(7)		12.30	222E	250979m	Below Cal	
7) Cl2(9)		12.26	222	370593	No Calib	
8) Cl2(6)		12.54	222E	312938	No Quad Fit	
9) Cl2(5)		12.76	222	304172	No Calib	
10) Cl2(8)		12.83	222E	328720m	Below Cal	
11) Cl3(19)		13.29	256E	127627	No Quad Fit	
12) Cl3(30)		13.69	256E	202490m	23588668.6376	ng
13) Cl2(11)-S1 (0.135)		14.14t	221E	72350	No Calib	
14) Cl2(11)		14.12	222E	308598m	Below Cal	
Corrected Values:				298831	-0.1000	Cal
15) Cl3(18)		14.14t	256E	146226m	12850605.0261	ng
16) Cl3(17)		14.26	256E	147210m	Below Cal	
17) Cl2(12)		14.35	222E	295443m	Below Cal	
18) Cl2(13)-S1 (0.135)		14.49t	221E	7960	No Calib	
19) Cl2(13)		14.49t	222E	280324m	Below Cal	
Corrected Values:				279249	-0.1000	Cal
20) Cl3(27)		14.50tw	256E	203120m	17950712.7593	ng
21) Cl3(24)		14.62	256E	195206m	Below Cal	
22) Cl3(16)		14.83	256E	109688m	24655100.4787	ng
23) Cl2(15)		14.88	222E	329579m	Below Cal	
24) Cl3(32)		14.95	256E	206531m	18095512.3376	ng
25) Cl4(54)		15.29t	292E	186203m	Below Cal	
28) Cl3(29)		15.51	256E	201425m	14984390.2894	ng
29) Cl3(26)-S1 (0.135)		15.87t	255E	45428	No Calib	
30) Cl3(26)		15.82	256E	223941m	Below Cal	
Corrected Values:				217808	-0.1000	Cal
31) Cl4(50)		15.87t	292E	138811	No Quad Fit	
32) Cl3(25)		15.94	256E	206938m	15165838.3706	ng
33) Cl3(31)-S1 (0.135)		16.31tw	255E	46805	No Calib	
34) Cl3(31)		16.29	256E	224195m	15986888.2447	ng
Corrected Values:				217876	-214748.3648	ng
35) Cl4(53)		16.32tw	292E	139257m	12463194.1871	ng
36) Cl3(28)		16.40	256E	219514m	18810938.4917	ng
37) Cl3(33)		16.50	256E	199727m	Below Cal	
38) Cl4(51)		16.58	292E	144425m	Below Cal	

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9327.D MF0785.M Tue Mar 17 13:24:20 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9327.D
 Acq On : 11 Mar 2015 6:33 pm
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:11:28 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:10:43 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292E	118153	No Quad Fit
40) Cl3(22)		17.00	256E	198329m	Below Cal
41) Cl4(46)		17.18	292E	108543m	Below Cal
42) Cl4(43)		17.56	292E	121483	No Quad Fit
43) Cl4(52)		17.62	292E	137616	No Quad Fit
44) Cl4(48)		17.77	292E	141846	No Quad Fit
45) Cl4(49)		17.83	292	136189	No Calib
46) Cl5(104)		18.02t	326E	160469	No Quad Fit
47) Cl4(47)-S1	(0.174)	18.01tw	289E	5121	No Calib
48) Cl4(47)		18.02t	292	159535	No Calib
Corrected Values:				158644	ng
49) Cl4(75)		18.10	292E	189738m	26814705.8970 ng
50) Cl4(44)		18.46	292E	125819	No Quad Fit
51) Cl4(42)		18.67	292E	124586	No Quad Fit
52) Cl4(71)		18.89	292E	179636m	16959836.0782 ng
53) Cl4(41)		18.99	292E	107401m	13685713.1241 ng
54) Cl4(64)		19.28	292E	187326m	26711194.4979 ng
55) Cl4(40)		19.36tw	292E	100093m	Below Cal
56) Cl3(37)-S1	(0.135)	19.35t	255E	63456	No Calib
57) Cl3(37)		19.35t	256E	213073m	15399924.6257 ng
Corrected Values:				204506	-214748.3648 ng
58) Cl5(100)		19.71	326E	127922m	Below Cal
59) Cl4(67)		20.01	292E	184799	No Quad Fit
60) Cl4(63)		20.40	292E	177707m	16797377.4907 ng
61) Cl5(95)		20.54	326E	111151m	17466858.6256 ng
62) Cl4(74)		20.61	292E	197027m	27315259.6864 ng
63) Cl4(70)		20.75	292E	190058m	Below Cal
64) Cl5(91)-S1	(0.220)	20.98t	323	2031	No Calib
65) Cl5(91)		20.92tw	326E	124712	No Quad Fit
Corrected Values:				124265	ng
66) Cl4(66)-S1	(0.174)	20.91tw	289E	36615	No Calib
67) Cl4(66)-S2	(0.650)	20.98t	288E	68837	No Calib
68) Cl4(66)		20.94	292E	237802m	13746331.9485 ng
Corrected Values:				186687	-214748.3648 ng
69) Cl6(155)		20.99tw	360E	149622	No Quad Fit
70) Cl4(80)		21.26	292E	184936m	11086166.1984 ng
71) Cl5(92)		21.55T	326	126428	No Calib
72) Cl5(84)		21.55T	326	109468	No Calib
73) Cl4(56)-S1	(0.174)	21.56tw	289E	67058	No Calib
74) Cl4(56)		21.60	292E	195935m	Below Cal
Corrected Values:				184267	-0.1000 Cal
75) Cl4(60)-S1	(0.174)	21.84tw	289E	16439	No Calib
76) Cl4(60)		21.86tw	292E	184538m	14408172.8325 ng
Corrected Values:				181678	-214748.3648 ng
77) Cl5(101)		21.85tw	326E	133013m	Below Cal
79) Cl5(99)		22.11	326E	133005m	16595015.6062 ng
80) Cl5(83)		22.51	326E	96065m	11827103.0247 ng
81) Cl5(125)		22.66	326E	153426	No Quad Fit
82) Cl5(97)		22.80	326E	110043m	23275285.3152 ng
83) Cl5(87)		23.26	326E	111601m	Below Cal

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9327.D MF0785.M Tue Mar 17 13:24:21 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9327.D
 Acq On : 11 Mar 2015 6:33 pm
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:11:28 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:10:43 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.34	360E	126468m	16103787.7959 ng
85) Cl5(115)		23.46	326	186400	No Calib
86) Cl6(154)		23.52tw	360E	115949m	15449902.7405 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.51tw	326	103139	No Calib
Corrected Values:				103139	ng
89) Cl5(110)		23.77	326E	161287m	28049835.8267 ng
90) Cl4(81)		23.88	292E	174055m	11248338.6432 ng
91) Cl5(82)-S1	(0.220)	24.22t	323E	20099	No Calib
92) Cl5(82)		24.22t	326E	103207m	9356443.7805 ng
Corrected Values:				98785	-214748.3648 ng
93) Cl6(151)		24.22t	360E	97511m	11927692.6525 ng
94) Cl6(135)		24.31	360E	95366m	Below Cal
95) Cl4(77)-S2	(0.650)	24.44tw	288E	63186	No Calib
96) Cl4(77)		24.42	292E	213548	No Quad Fit
Corrected Values:				172477	ng
97) Cl6(144)		24.45tw	360E	101310m	14435261.1981 ng
98) Cl6(149)		24.67	360E	105406m	Below Cal
99) Cl6(139)		24.79	360E	105762	No Quad Fit
100) Cl5(124)-S1	(0.220)	24.89t	323E	16010	No Calib
101) Cl5(124)		24.84	326E	173198m	18976816.1048 ng
Corrected Values:				169676	-214748.3648 ng
102) Cl6(140)		24.89t	360E	102733	No Quad Fit
103) Cl5(123)		25.05	326E	156657m	Below Cal
104) Cl6(134)		25.15	360E	81757m	Below Cal
105) Cl7(188)		25.25t	394E	113117	No Quad Fit
106) Cl5(118)-S1	(0.220)	25.31t	323E	28223	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322E	44332	No Calib
108) Cl5(118)		25.27	326E	214611	No Quad Fit
Corrected Values:				160523	ng
109) Cl6(131)		25.31t	360E	93868m	Below Cal
110) Cl7(184)		25.54	394E	112698m	23402346.9656 ng
111) Cl6(146)		25.62	360E	112485	No Quad Fit
112) Cl5(114)-S1	(0.220)	25.73t	323e	451	No Calib
113) Cl5(114)		25.65	326E	163256m	Below Cal
Corrected Values:				163157	-0.1000 Cal
115) Cl6(153)		25.88	360E	113556m	12814809.3407 ng
116) Cl7(179)		26.10	394E	105774	No Quad Fit
117) Cl5(105)-S1	(0.220)	26.27t	323E	13458	No Calib
118) Cl5(105)		26.23	326E	153500m	Below Cal
Corrected Values:				150539	-0.1000 Cal
119) Cl6(141)		26.27t	360E	93976m	Below Cal
120) Cl7(176)		26.36	394E	104135	No Quad Fit
121) Cl6(127)-S1	(0.265)	26.48tw	323E	10342	No Calib
122) Cl5(127)		26.50tw	326E	166500m	15572174.1028 ng
123) Cl6(137)		26.49tw	360E	96286m	Below Cal
124) Cl6(130)		26.62	360	83682	No Calib
125) Cl6(164)		26.68	360E	122943m	10244177.9248 ng
126) Cl6(138)		26.81	360	114769	No Calib
127) Cl6(163)-S1	(0.265)	26.91t	357E	16057	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9327.D MF0785.M Tue Mar 17 13:24:21 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9327.D
 Acq On : 11 Mar 2015 6:33 pm
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:11:28 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:10:43 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360E	121821m	22643208.2240 ng
Corrected Values:				117566	-214748.3648 ng
129) Cl7(178)		26.91t	394E	78238m	Below Cal
130) Cl6(158)		26.96	360E	133534m	16593540.3790 ng
131) Cl7(175)		27.10	394E	83170m	28669223.6657 ng
132) Cl7(187)		27.17	394E	89320m	Below Cal
133) Cl6(166) -S1	(0.265)	27.35t	357E	6946	No Calib
134) Cl6(166)		27.35t	360E	129853	No Quad Fit
Corrected Values:				128012	ng
135) Cl7(183)		27.35t	394E	85660m	12071998.0152 ng
136) Cl5(126)		27.51	326E	139969	No Quad Fit
137) Cl6(128) -S1	(0.265)	27.69tw	357E	10594	No Calib
138) Cl6(128)		27.66	360E	93604	No Quad Fit
Corrected Values:				90797	ng
139) Cl7(185)		27.70tw	394E	78070m	13209388.6374 ng
140) Cl7(174)		27.81	394E	76172m	Below Cal
141) Cl6(167)		27.89	360E	127293m	Below Cal
142) Cl8(202)		27.97	428E	84976m	20429093.3891 ng
143) Cl7(177)		28.08	394E	72293	No Quad Fit
144) Cl8(201)		28.20t	428E	85411m	11137363.1529 ng
145) Cl7(171) -S1	(0.309)	28.20t	391	890	No Calib
146) Cl7(171)		28.20t	394E	77598m	18016508.0583 ng
Corrected Values:				77323	-214748.3648 ng
147) Cl7(173)		28.29	394E	67790m	Below Cal
148) Cl8(197)		28.42	428E	83974m	18643443.1533 ng
149) Cl6(156) -S1	(0.265)	28.54t	357E	12930	No Calib
150) Cl6(156)		28.51	360E	125297	No Quad Fit
Corrected Values:				121871	ng
151) Cl7(172)		28.54t	394E	75015	No Quad Fit
152) Cl6(157)		28.60	360E	120149	No Quad Fit
153) Cl7(180)		28.74	394E	87893m	19212801.4490 ng
154) Cl7(193) -S1	(0.309)	28.83t	391	914	No Calib
155) Cl7(193)		28.79	394E	99725	No Quad Fit
Corrected Values:				99443	ng
156) Cl8(200)		28.83t	428E	83927m	18623286.6073 ng
157) Cl7(191)		28.91	394E	107598	No Quad Fit
158) Cl7(170) -S1	(0.309)	29.51t	391E	17767	No Calib
159) Cl7(170)		29.45	394E	75655	23459405.9926 ng
Corrected Values:				70165	22547706.2359 ng
160) Cl8(198)		29.48	428	66049	No Calib
161) Cl8(199)		29.51t	428	52373	No Calib
162) Cl7(190)		29.57	394E	101934m	Below Cal
163) Cl6(169) -S2	(1.610)	29.68tw	356E	27431	No Calib
164) Cl6(169)		29.65	360E	151993m	17844469.8105 ng
Corrected Values:				107829	-214748.3648 ng
165) Cl8(203)		29.69tw	428E	67099m	10732247.8953 ng
166) Cl9(208)		30.19	464E	69640m	17063745.3815 ng
167) Cl7(189)		30.33	394E	91602m	12584807.6453 ng
168) Cl9(207)		30.39t	464E	74982m	17640776.4349 ng
169) Cl8(195) -S1	(0.400)	30.39t	425	405	No Calib

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9327.D MF0785.M Tue Mar 17 13:24:21 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9327.D
 Acq On : 11 Mar 2015 6:33 pm
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 07:11:28 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 07:10:43 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39t	428E	57454m	12940063.0299 ng
Corrected Values:				57292	-214748.3648 ng
171) Cl8(194)		30.89	428E	55237m	Below Cal
172) Cl8(205)		31.04	428E	71940	No Quad Fit
173) Cl9(206)		31.54	464E	46515m	12662802.3171 ng
174) Cl10(209)		32.05	498E	48931m	Below Cal

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9327.D MF0785.M Tue Mar 17 13:24:21 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9328.D

Vial: 11

Acq On : 11 Mar 2015 7:21 pm

Operator: RR

Sample : ID21 ICC

Inst : Inst. F

Misc : 5-315 ICC

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 08:58:42 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 08:57:50 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	44451m	0.1003	ng
78) Cl6(161)	25.73tw	360	33410m	0.1005	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	1881m	0.0000	ng	
27) Cl3(34)	15.28tw	256	27383m	0.0508	ng	
Spiked Amount	0.0502			Recovery	=	100.20%
Corrected Values:			27129	0.0503	ng	
114) Cl6(152)	22.40	360	17254m	0.0522	ng	
Spiked Amount	0.0501			Recovery	=	104.19%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%DIF
2) Biphenyl		8.74	154	80175m	0.0512	ng	1.9
3) Cl1(1)		9.93	188	57742m	0.0508	ng	-0.4
4) Cl1(3)		11.13	188	53407m	0.0502	ng	-1.6
5) Cl2(4)		11.41	222	26668m	0.0501	ng	0.2
6) Cl2(7)		12.30	222	33055m	0.0462	ng	-7.9
7) Cl2(9)		12.26	222	54004m	0.0542	ng	8.4
8) Cl2(6)		12.54	222	41771m	0.0478	ng	-5.0
9) Cl2(5)		12.76	222	41343m	0.0493	ng	-1.8
10) Cl2(8)		12.83	222	40979m	0.0442	ng	-13.3
11) Cl3(19)		13.29	256	18209m	0.0512	ng	0.4
12) Cl3(30)		13.69	256	27816m	0.0506	ng	1.1
13) Cl2(11)-S1 (0.135)		14.14t	221	9785	No Calib		
14) Cl2(11)		14.12	222	41997m	0.0529	ng	
Corrected Values:				40676	0.0513	ng	2.3
15) Cl3(18)		14.14t	256	19976m	0.0493	ng	-3.3
16) Cl3(17)		14.26	256	20179m	0.0496	ng	-1.8
17) Cl2(12)		14.35	222	41909m	0.0531	ng	6.0
18) Cl2(13)-S1 (0.135)		14.48t	221	1169	No Calib		
19) Cl2(13)		14.48t	222	40839m	0.0527	ng	
Corrected Values:				40681	0.0525	ng	4.4
20) Cl3(27)		14.50	256	29840m	0.0515	ng	2.6
21) Cl3(24)		14.62	256	23897m	0.0433	ng	-13.6
22) Cl3(16)		14.83	256	16968m	0.0564	ng	12.8
23) Cl2(15)		14.88	222	43596m	0.0491	ng	-1.8
24) Cl3(32)		14.94	256	30006m	0.0518	ng	3.3
25) Cl4(54)		15.29t	292	25838m	0.0476	ng	-6.7
28) Cl3(29)		15.51	256	26505m	0.0491	ng	-2.2
29) Cl3(26)-S1 (0.135)		15.87t	255	5744	No Calib		
30) Cl3(26)		15.82	256	27435m	0.0470	ng	
Corrected Values:				26660	0.0458	ng	-8.6
31) Cl4(50)		15.87t	292	17632m	0.0459	ng	-9.6
32) Cl3(25)		15.94	256	26805m	0.0483	ng	-4.0
33) Cl3(31)-S1 (0.135)		16.31tw	255	7110	No Calib		
34) Cl3(31)		16.29	256	31379m	0.0545	ng	
Corrected Values:				30419	0.0529	ng	3.7
35) Cl4(53)		16.32tw	292	21182m	0.0545	ng	8.8
36) Cl3(28)		16.40	256	29154m	0.0497	ng	-2.5
37) Cl3(33)		16.50	256	26268m	0.0492	ng	-1.7
38) Cl4(51)		16.58	292	20219m	0.0496	ng	-1.8

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9328.D MF0785.M Tue Mar 17 13:24:23 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9328.D
 Acq On : 11 Mar 2015 7:21 pm
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 08:58:42 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 08:57:50 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%DIF
39) Cl4(45)		16.91	292	15923m	0.0505	ng	-0.2
40) Cl3(22)		16.99	256	27938m	0.0532	ng	6.4
41) Cl4(46)		17.17	292	14836m	0.0512	ng	1.8
42) Cl4(43)		17.56	292	16374m	0.0516	ng	2.6
43) Cl4(52)		17.61	292	16675m	0.0459	ng	-10.0
44) Cl4(48)		17.76	292	20867m	0.0558	ng	11.2
45) Cl4(49)		17.83	292	17617m	0.0491	ng	-1.8
46) Cl5(104)		18.01t	326	22786m	0.0508	ng	-0.4
47) Cl4(47)-S1	(0.174)	18.01t	289	751	No Calib		
48) Cl4(47)		18.02tw	292	21540m	0.0493	ng	
Corrected Values:				21409	0.0490	ng	-3.2
49) Cl4(75)		18.10	292	23816m	0.0453	ng	-9.8
50) Cl4(44)		18.46	292	15505m	0.0481	ng	-5.7
51) Cl4(42)		18.67	292	16309m	0.0505	ng	0.7
52) Cl4(71)		18.89	292	23269m	0.0495	ng	-1.4
53) Cl4(41)		18.99	292	15439m	0.0552	ng	9.6
54) Cl4(64)		19.28	292	27239m	0.0559	ng	11.2
55) Cl4(40)		19.35t	292	12319m	0.0452	ng	-10.1
56) Cl3(37)-S1	(0.135)	19.35t	255	8379	No Calib		
57) Cl3(37)		19.35t	256	27465m	0.0510	ng	
Corrected Values:				26334	0.0490	ng	-3.9
58) Cl5(100)		19.71	326	15903m	0.0487	ng	-2.8
59) Cl4(67)		20.01	292	22934m	0.0504	ng	0.4
60) Cl4(63)		20.40	292	21901m	0.0501	ng	0.0
61) Cl5(95)		20.54	326	18048m	0.0622	ng	24.4N
62) Cl4(74)		20.61	292	26714m	0.0532	ng	4.3
63) Cl4(70)		20.74	292	24322m	0.0493	ng	-3.3
64) Cl5(91)-S1	(0.220)	20.97tw	323	340	No Calib		
65) Cl5(91)		20.91tw	326	16404m	0.0504	ng	
Corrected Values:				16329	0.0502	ng	0.2
66) Cl4(66)-S1	(0.174)	20.92tw	289	4817	No Calib		
67) Cl4(66)-S2	(0.650)	20.98tw	288	9208	No Calib		
68) Cl4(66)		20.94	292	31962m	0.0656	ng	
Corrected Values:				25139	0.0521	ng	2.2
69) Cl6(155)		20.99tw	360	21063m	0.0512	ng	0.4
70) Cl4(80)		21.26	292	22328m	0.0490	ng	-2.2
71) Cl5(92)		21.55t	326	15783m	0.0494	ng	-1.5
72) Cl5(84)		21.56Tw	326	11009m	0.0493	ng	-1.4
73) Cl4(56)-S1	(0.174)	21.55t	289	9154	No Calib		
74) Cl4(56)		21.60	292	25075m	0.0518	ng	
Corrected Values:				23482	0.0487	ng	-3.1
75) Cl4(60)-S1	(0.174)	21.84tw	289	2644	No Calib		
76) Cl4(60)		21.86tw	292	24488m	0.0524	ng	
Corrected Values:				24028	0.0515	ng	2.6
77) Cl5(101)		21.85tw	326	18690m	0.0549	ng	7.6
79) Cl5(99)		22.10	326	18330m	0.0546	ng	7.1
80) Cl5(83)		22.51	326	13156m	0.0548	ng	7.5
81) Cl5(125)		22.65	326	20891m	0.0539	ng	7.6
82) Cl5(97)		22.80	326	13420m	0.0472	ng	-5.9
83) Cl5(87)		23.26	326	13342m	0.0498	ng	-2.4

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9328.D MF0785.M Tue Mar 17 13:24:23 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9328.D
 Acq On : 11 Mar 2015 7:21 pm
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 08:58:42 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 08:57:50 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%DIF
84) Cl6(136)		23.34	360	17147m	0.0511 ng	2.0
85) Cl5(115)		23.46	326	23472m	0.0553 ng	10.2
86) Cl6(154)		23.52	360	15518m	0.0503 ng	0.5
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.	
88) Cl5(85)		23.48	326	15669m	0.0491 ng	
Corrected Values:				15669	0.0491 ng	-2.0
89) Cl5(110)		23.77	326	20828m	0.0515 ng	1.0
90) Cl4(81)		23.88	292	24962m	0.0569 ng	13.8
91) Cl5(82)-S1	(0.220)	24.22t	323	2568	No Calib	
92) Cl5(82)		24.22t	326	12951m	0.0514 ng	
Corrected Values:				12386	0.0492 ng	-1.6
93) Cl6(151)		24.22t	360	13404m	0.0539 ng	5.7
94) Cl6(135)		24.31	360	11346m	0.0460 ng	-8.0
95) Cl4(77)-S2	(0.650)	24.44tw	288	7548	No Calib	
96) Cl4(77)		24.41	292	25624m	0.0591 ng	
Corrected Values:				20718	0.0483 ng	-5.3
97) Cl6(144)		24.45tw	360	12015m	0.0451 ng	-10.2
98) Cl6(149)		24.67	360	12670m	0.0478 ng	-6.3
99) Cl6(139)		24.79	360	12122m	0.0456 ng	-9.3
100) Cl5(124)-S1	(0.220)	24.89t	323	1884	No Calib	
101) Cl5(124)		24.84	326	20603m	0.0477 ng	
Corrected Values:				20189	0.0468 ng	-6.7
102) Cl6(140)		24.89t	360	12766m	0.0482 ng	-4.6
103) Cl5(123)		25.05	326	18735m	0.0493 ng	-3.3
104) Cl6(134)		25.15	360	11169m	0.0531 ng	5.7
105) Cl7(188)		25.25t	394	10960m	0.0373 ng	3.6
106) Cl5(118)-S1	(0.220)	25.31t	323	3295	No Calib	
107) Cl5(118)-S2	(1.080)	25.25t	322	4561	No Calib	
108) Cl5(118)		25.27	326	26801m	0.0647 ng	
Corrected Values:				21150	0.0516 ng	1.2
109) Cl6(131)		25.31t	360	12191m	0.0504 ng	0.7
110) Cl7(184)		25.54	394	15077m	0.0529 ng	5.6
111) Cl6(146)		25.62	360	13809m	0.0501 ng	0.1
112) Cl5(114)-S1	(0.220)	25.74tw	323e	639	No Calib	
113) Cl5(114)		25.65	326	21652m	0.0533 ng	
Corrected Values:				21511	0.0530 ng	3.9
115) Cl6(153)		25.88	360	16185m	0.0563 ng	10.4
116) Cl7(179)		26.10	394	13373m	0.0497 ng	-1.2
117) Cl5(105)-S1	(0.220)	26.27t	323	1623	No Calib	
118) Cl5(105)		26.23	326	19994m	0.0545 ng	
Corrected Values:				19637	0.0536 ng	5.1
119) Cl6(141)		26.27t	360	11410m	0.0487 ng	-2.8
120) Cl7(176)		26.36	394	13902m	0.0510 ng	0.6
121) Cl6(127)-S1	(0.265)	26.48t	323	1233	No Calib	
122) Cl5(127)		26.50	326	19320m	0.0478 ng	-4.4
123) Cl6(137)		26.48t	360	11588m	0.0489 ng	-2.4
124) Cl6(130)		26.62	360	11353m	0.0470 ng	-6.4
125) Cl6(164)		26.68	360	12967m	0.0417 ng	-17.1
126) Cl6(138)		26.81	360	16367m	0.0564 ng	10.6
127) Cl6(163)-S1	(0.265)	26.91t	357	2112	No Calib	

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9328.D MF0785.M Tue Mar 17 13:24:23 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9328.D
 Acq On : 11 Mar 2015 7:21 pm
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 08:58:42 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 08:57:50 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%DIF
128) Cl6(163)		26.86	360	15724m	0.0526 ng	
Corrected Values:				15164	0.0508 ng	1.2
129) Cl7(178)		26.91t	394	9776	0.0475 ng	-6.1
130) Cl6(158)		26.96	360	17419m	0.0498 ng	-0.4
131) Cl7(175)		27.10	394	9992m	0.0502 ng	0.4
132) Cl7(187)		27.17	394	11787m	0.0514 ng	0.8
133) Cl6(166) -S1	(0.265)	27.34tw	357	921	No Calib	
134) Cl6(166)		27.35t	360	15779m	0.0503 ng	
Corrected Values:				15535	0.0495 ng	-1.7
135) Cl7(183)		27.35t	394	11462m	0.0523 ng	2.5
136) Cl5(126)		27.51	326	17048m	0.0536 ng	5.1
137) Cl6(128) -S1	(0.265)	27.70t	357	1318	No Calib	
138) Cl6(128)		27.66	360	11317m	0.0506 ng	
Corrected Values:				10968	0.0491 ng	-3.7
139) Cl7(185)		27.70t	394	10140m	0.0528 ng	5.6
140) Cl7(174)		27.81	394	9365m	0.0486 ng	-3.2
141) Cl6(167)		27.89	360	14554m	0.0489 ng	-4.1
142) Cl8(202)		27.97	428	10351m	0.0471 ng	-7.6
143) Cl7(177)		28.07	394	8831m	0.0496 ng	-2.7
144) Cl8(201)		28.20t	428	10640m	0.0491 ng	-1.8
145) Cl7(171) -S1	(0.309)	28.20t	391	118	No Calib	
146) Cl7(171)		28.20t	394	9841m	0.0515 ng	
Corrected Values:				9805	0.0513 ng	2.6
147) Cl7(173)		28.29	394	8163m	0.0471 ng	-6.3
148) Cl8(197)		28.41	428	9986	0.0480 ng	-5.3
149) Cl6(156) -S1	(0.265)	28.54t	357	1516	No Calib	
150) Cl6(156)		28.51	360	14769m	0.0516 ng	
Corrected Values:				14367	0.0503 ng	-1.4
151) Cl7(172)		28.54t	394	9222m	0.0502 ng	-1.0
152) Cl6(157)		28.60	360	15110m	0.0500 ng	0.0
153) Cl7(180)		28.74	394	10485m	0.0497 ng	-2.5
154) Cl7(193) -S1	(0.309)	28.82tw	391	136	No Calib	
155) Cl7(193)		28.78	394	11443m	0.0467 ng	
Corrected Values:				11401	0.0465 ng	-7.2
156) Cl8(200)		28.83tw	428	10419m	0.0482 ng	-4.0
157) Cl7(191)		28.91	394	11899m	0.0460 ng	-8.2
158) Cl7(170) -S1	(0.309)	29.50tw	391	2066	No Calib	
159) Cl7(170)		29.45	394	8831m	0.0571 ng	
Corrected Values:				8193	0.0532 ng	4.3
160) Cl8(198)		29.48	428	7816m	0.0504 ng	-0.2
161) Cl8(199)		29.51tw	428	6009m	0.0465 ng	-7.0
162) Cl7(190)		29.56	394	11536m	0.0473 ng	-6.0
163) Cl6(169) -S2	(1.610)	29.68tw	356	3452	No Calib	
164) Cl6(169)		29.65	360	18042m	0.0730 ng	
Corrected Values:				12484	0.0520 ng	2.0
165) Cl8(203)		29.69tw	428	8365m	0.0513 ng	0.6
166) Cl9(208)		30.19	464	7572m	0.0485 ng	-4.9
167) Cl7(189)		30.33	394	9928m	0.0521 ng	2.2
168) Cl9(207)		30.39t	464	8679m	0.0474 ng	-5.4
169) Cl8(195) -S1	(0.400)	30.39t	425	65	No Calib	

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9328.D MF0785.M Tue Mar 17 13:24:23 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9328.D
 Acq On : 11 Mar 2015 7:21 pm
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 08:58:42 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 08:57:50 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%DIF
170) Cl8(195)		30.39t	428	7287m	0.0506 ng	
Corrected Values:				7261	0.0504 ng	-1.2
171) Cl8(194)		30.89	428	5604m	0.0480 ng	-5.9
172) Cl8(205)		31.04	428	8246m	0.0508 ng	-0.4
173) Cl9(206)		31.54	464	4347m	0.0436 ng	-14.5
174) Cl10(209)		32.05	498	4795m	0.0443 ng	-14.8

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9328.D MF0785.M Tue Mar 17 13:24:23 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9337.D
 Acq On : 12 Mar 2015 2:33 am
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 20
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 09:20:27 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:20:09 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	51762m	0.1000	ng
78) Cl6(161)	25.73t	360	42593m	0.1000	ng

System Monitoring Compounds					
26) Cl3(34)-S1	(0.135)	15.30t	255	1790m	0.0000 ng
27) Cl3(34)		15.29tw	256	25119m	0.0401 ng
Spiked Amount	0.0400			Recovery	= 99.25%
Corrected Values:				24877	0.0397 ng
114) Cl6(152)		22.42	360	16404m	0.0388 ng
Spiked Amount	0.0402			Recovery	= 96.61%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	64945m	0.0355	ng
3) Cl1(1)		9.94	188	48665m	0.0367	ng
4) Cl1(3)		11.13	188	48239m	0.0390	ng
5) Cl2(4)		11.42	222	23527m	0.0379	ng
6) Cl2(7)		12.30	222	33447m	0.0401	ng
7) Cl2(9)		12.26	222	44027m	0.0382	ng
8) Cl2(6)		12.54	222	38367m	0.0378	ng
9) Cl2(5)		12.76	222	37111m	0.0381	ng
10) Cl2(8)		12.84	222	39436m	0.0366	ng
11) Cl3(19)		13.30	256	15853m	0.0383	ng
12) Cl3(30)		13.70	256	25056m	0.0393	ng
13) Cl2(11)-S1	(0.135)	14.14tw	221	8621	No Calib	
14) Cl2(11)		14.13tw	222	39187m	0.0426	ng
Corrected Values:				38023	0.0414	ng
15) Cl3(18)		14.15tw	256	18102m	0.0385	ng
16) Cl3(17)		14.26	256	18001m	0.0381	ng
17) Cl2(12)		14.35	222	36379m	0.0399	ng
18) Cl2(13)-S1	(0.135)	14.49t	221	1056	No Calib	
19) Cl2(13)		14.49t	222	35337m	0.0395	ng
Corrected Values:				35194	0.0393	ng
20) Cl3(27)		14.50tw	256	24922m	0.0372	ng
21) Cl3(24)		14.63	256	24342m	0.0379	ng
22) Cl3(16)		14.83	256	14231m	0.0407	ng
23) Cl2(15)		14.89	222	44420m	0.0430	ng
24) Cl3(32)		14.95	256	25580m	0.0380	ng
25) Cl4(54)		15.30t	292	23562m	0.0372	ng
28) Cl3(29)		15.52	256	25631m	0.0409	ng
29) Cl3(26)-S1	(0.135)	15.87t	255	5203	No Calib	
30) Cl3(26)		15.83	256	28539m	0.0421	ng
Corrected Values:				27837	0.0411	ng
31) Cl4(50)		15.87t	292	16906	0.0379	ng
32) Cl3(25)		15.95	256	25669m	0.0399	ng
33) Cl3(31)-S1	(0.135)	16.32t	255	5906	No Calib	
34) Cl3(31)		16.29	256	28519m	0.0427	ng
Corrected Values:				27722	0.0416	ng
35) Cl4(53)		16.32t	292	17989m	0.0400	ng
36) Cl3(28)		16.40	256	26976m	0.0397	ng
37) Cl3(33)		16.50	256	24688m	0.0399	ng
38) Cl4(51)		16.59	292	18951m	0.0401	ng

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 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9337.D MF0785.M Tue Mar 17 13:24:45 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9337.D
 Acq On : 12 Mar 2015 2:33 am
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 20
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 09:20:27 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:20:09 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.92	292	16111m	0.0439 ng
40) Cl3(22)		17.00	256	25348m	0.0417 ng
41) Cl4(46)		17.18	292	12322	0.0367 ng
42) Cl4(43)		17.57	292	14618m	0.0399 ng
43) Cl4(52)		17.62	292	18416m	0.0435 ng
44) Cl4(48)		17.77	292	19041m	0.0439 ng
45) Cl4(49)		17.83	292	17315m	0.0415 ng
46) Cl5(104)		18.02tw	326	20576m	0.0396 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.03tw	292	20566m	0.0404 ng
Corrected Values:				20566	0.0404 ng
49) Cl4(75)		18.10	292	23629m	0.0387 ng
50) Cl4(44)		18.46	292	15854m	0.0423 ng
51) Cl4(42)		18.68	292	15285	0.0408 ng
52) Cl4(71)		18.90	292	23701m	0.0434 ng
53) Cl4(41)		19.00	292	12974m	0.0402 ng
54) Cl4(64)		19.29	292	24730m	0.0437 ng
55) Cl4(40)		19.36t	292	11782m	0.0372 ng
56) Cl3(37)-S1	(0.135)	19.36t	255	7603	No Calib
57) Cl3(37)		19.36t	256	27763m	0.0445 ng
Corrected Values:				26737	0.0429 ng
58) Cl5(100)		19.72	326	16534	0.0436 ng
59) Cl4(67)		20.01	292	24192	0.0458 ng
60) Cl4(63)		20.41	292	22782	0.0449 ng
61) Cl5(95)		20.55	326	14612	0.0436 ng
62) Cl4(74)		20.61	292	24413m	0.0421 ng
63) Cl4(70)		20.76	292	25364m	0.0442 ng
64) Cl5(91)-S1	(0.220)	20.98tw	323	337	No Calib
65) Cl5(91)		20.92tw	326	15763	0.0417 ng
Corrected Values:				15689	0.0415 ng
66) Cl4(66)-S1	(0.174)	20.93tw	289	5431	No Calib
67) Cl4(66)-S2	(0.650)	20.99t	288	7865	No Calib
68) Cl4(66)		20.95	292	29544	0.0524 ng
Corrected Values:				23487	0.0422 ng
69) Cl6(155)		20.99t	360	18830m	0.0395 ng
70) Cl4(80)		21.27	292	22713	0.0430 ng
71) Cl5(92)		21.56T	326	14250m	0.0387 ng
72) Cl5(84)		21.56T	326	10640m	0.0413 ng
73) Cl4(56)-S1	(0.174)	21.58	289	9094	No Calib
74) Cl4(56)		21.61	292	25024	0.0446 ng
Corrected Values:				23442	0.0420 ng
75) Cl4(60)-S1	(0.174)	21.85t	289	2770	No Calib
76) Cl4(60)		21.87	292	23903m	0.0442 ng
Corrected Values:				23421	0.0434 ng
77) Cl5(101)		21.85t	326	17565m	0.0447 ng
79) Cl5(99)		22.12	326	17455m	0.0409 ng
80) Cl5(83)		22.52	326	12240m	0.0401 ng
81) Cl5(125)		22.66	326	19470m	0.0395 ng
82) Cl5(97)		22.81	326	14282m	0.0395 ng
83) Cl5(87)		23.26	326	15181m	0.0443 ng

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 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9337.D MF0785.M Tue Mar 17 13:24:45 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9337.D
 Acq On : 12 Mar 2015 2:33 am
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 20
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 09:20:27 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:20:09 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	16198	0.0378 ng
85) Cl5(115)		23.47	326	23781m	0.0443 ng
86) Cl6(154)		23.54	360	14453m	0.0370 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.49	326	14742m	0.0363 ng
Corrected Values:				14742	0.0363 ng
89) Cl5(110)		23.78	326	21268	0.0414 ng
90) Cl4(81)		23.88	292	23690m	0.0428 ng
91) Cl5(82)-S1	(0.220)	24.22t	323	2755	No Calib
92) Cl5(82)		24.22t	326	13370	0.0417 ng
Corrected Values:				12764	0.0398 ng
93) Cl6(151)		24.22t	360	12548m	0.0397 ng
94) Cl6(135)		24.32	360	12013m	0.0382 ng
95) Cl4(77)-S2	(0.650)	24.46t	288	7426	No Calib
96) Cl4(77)		24.42	292	26819	0.0487 ng
Corrected Values:				21992	0.0403 ng
97) Cl6(144)		24.46t	360	12619m	0.0372 ng
98) Cl6(149)		24.68	360	13617m	0.0403 ng
99) Cl6(139)		24.80	360	13722m	0.0405 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	2183	No Calib
101) Cl5(124)		24.85	326	22107	0.0403 ng
Corrected Values:				21627	0.0395 ng
102) Cl6(140)		24.90t	360	13150	0.0390 ng
103) Cl5(123)		25.06	326	20726	0.0428 ng
104) Cl6(134)		25.15	360	10823m	0.0406 ng
105) Cl7(188)		25.25t	394	14749m	0.0391 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	3051	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	5565	No Calib
108) Cl5(118)		25.28	326	28325	0.0538 ng
Corrected Values:				21644	0.0416 ng
109) Cl6(131)		25.31t	360	11921m	0.0389 ng
110) Cl7(184)		25.54	394	15093m	0.0417 ng
111) Cl6(146)		25.62	360	14119m	0.0404 ng
112) Cl5(114)-S1	(0.220)	25.73t	323e	550	No Calib
113) Cl5(114)		25.66	326	21421m	0.0417 ng
Corrected Values:				21300	0.0415 ng
115) Cl6(153)		25.88	360	15130	0.0414 ng
116) Cl7(179)		26.11	394	13493m	0.0394 ng
117) Cl5(105)-S1	(0.220)	26.27tw	323	2112	No Calib
118) Cl5(105)		26.23	326	21124m	0.0454 ng
Corrected Values:				20659	0.0445 ng
119) Cl6(141)		26.28tw	360	12160	0.0409 ng #
120) Cl7(176)		26.37	394	12945m	0.0374 ng
121) Cl6(127)-S1	(0.265)	26.48tw	323	1387	No Calib
122) Cl5(127)		26.51	326	21893m	0.0425 ng
123) Cl6(137)		26.49tw	360	12502m	0.0415 ng
124) Cl6(130)		26.63	360	11918m	0.0386 ng
125) Cl6(164)		26.69	360	16097m	0.0404 ng
126) Cl6(138)		26.82	360	14620m	0.0398 ng
127) Cl6(163)-S1	(0.265)	26.91t	357	1936	No Calib

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9337.D MF0785.M Tue Mar 17 13:24:45 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9337.D
 Acq On : 12 Mar 2015 2:33 am
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 20
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 09:20:27 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:20:09 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.87	360	16725m	0.0438 ng
Corrected Values:				16212	0.0425 ng
129) Cl7(178)		26.91t	394	9916	0.0378 ng
130) Cl6(158)		26.96	360	17314	0.0390 ng
131) Cl7(175)		27.10	394	10694m	0.0422 ng
132) Cl7(187)		27.18	394	11634m	0.0399 ng
133) Cl6(166) -S1	(0.265)	27.35t	357	884	No Calib
134) Cl6(166)		27.35t	360	16329	0.0409 ng
Corrected Values:				16095	0.0404 ng
135) Cl7(183)		27.35t	394	10786m	0.0390 ng
136) Cl5(126)		27.52	326	19530m	0.0482 ng
137) Cl6(128) -S1	(0.265)	27.69tw	357	1522	No Calib
138) Cl6(128)		27.67	360	12102	0.0425 ng
Corrected Values:				11699	0.0412 ng
139) Cl7(185)		27.70tw	394	9908m	0.0407 ng
140) Cl7(174)		27.81	394	9570m	0.0392 ng
141) Cl6(167)		27.90	360	17218m	0.0454 ng
142) Cl8(202)		27.98	428	10818m	0.0387 ng
143) Cl7(177)		28.08	394	9544	0.0422 ng
144) Cl8(201)		28.20t	428	10547m	0.0384 ng
145) Cl7(171) -S1	(0.309)	28.20t	391	185	No Calib
146) Cl7(171)		28.20t	394	9710m	0.0400 ng
Corrected Values:				9653	0.0398 ng
147) Cl7(173)		28.29	394	9000m	0.0408 ng
148) Cl8(197)		28.42	428	10412	0.0394 ng
149) Cl6(156) -S1	(0.265)	28.54t	357	1801	No Calib
150) Cl6(156)		28.51	360	16551m	0.0455 ng
Corrected Values:				16074	0.0443 ng
151) Cl7(172)		28.54t	394	9528m	0.0410 ng
152) Cl6(157)		28.60	360	15605	0.0408 ng
153) Cl7(180)		28.74	394	11148m	0.0416 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		28.79	394	13342m	0.0427 ng
Corrected Values:				13342	0.0427 ng
156) Cl8(200)		28.83	428	10452m	0.0381 ng
157) Cl7(191)		28.91	394	13994m	0.0424 ng
158) Cl7(170) -S1	(0.309)	29.51t	391	2302	No Calib
159) Cl7(170)		29.45	394	10064	0.0511 ng
Corrected Values:				9353	0.0477 ng
160) Cl8(198)		29.48	428	7927m	0.0408 ng
161) Cl8(199)		29.51t	428	6718m	0.0407 ng
162) Cl7(190)		29.57	394	12798	0.0413 ng
163) Cl6(169) -S2	(1.610)	29.69t	356	3620	No Calib
164) Cl6(169)		29.65	360	16157m	0.0525 ng
Corrected Values:				10329	0.0348 ng
165) Cl8(203)		29.69t	428	8443m	0.0409 ng
166) Cl9(208)		30.19	464	9057	0.0454 ng
167) Cl7(189)		30.33	394	13217m	0.0539 ng
168) Cl9(207)		30.39tw	464	9249	0.0399 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

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 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9337.D MF0785.M Tue Mar 17 13:24:46 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9337.D
Acq On : 12 Mar 2015 2:33 am
Sample : ID17 mid
Misc : 5-315 CCV
MS Integration Params: rteint.p

Vial: 20
Operator: RR
Inst : Inst. F
Multiplr: 1.00

Quant Time: Mar 12 09:20:27 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Thu Mar 12 09:20:09 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	7190	0.0394 ng
Corrected Values:				7190	0.0394 ng
171) Cl8(194)		30.89	428	7326	0.0489 ng
172) Cl8(205)		31.04	428	9313	0.0451 ng
173) Cl9(206)		31.54	464	6266m	0.0487 ng
174) Cl10(209)		32.05	498	6316m	0.0455 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9337.D MF0785.M Tue Mar 17 13:24:46 2015 040221CFS

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Data File : G:\F\DATA\SF0785\F9346.D
 Acq On : 12 Mar 2015 9:46 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 29
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 11:21:37 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 11:20:49 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	70780m	0.1000	ng
78) Cl6(161)	25.73t	360	57584m	0.1000	ng

System Monitoring Compounds					
26) Cl3(34)-S1	(0.135)	15.29t	255	4811m	0.0000 ng
27) Cl3(34)		15.29t	256	66194m	0.0763 ng
Spiked Amount	0.0800			Recovery	= 94.38%
Corrected Values:				65545	0.0755 ng
114) Cl6(152)		22.41	360	46528m	0.0810 ng
Spiked Amount	0.0803			Recovery	= 100.85%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	157392m	0.0631	ng
3) Cl1(1)		9.94	188	119902m	0.0660	ng
4) Cl1(3)		11.14	188	121113m	0.0709	ng
5) Cl2(4)		11.42	222	59893m	0.0703	ng
6) Cl2(7)		12.31	222	77269m	0.0675	ng
7) Cl2(9)		12.26	222	119678m	0.0746	ng
8) Cl2(6)		12.55	222	101410m	0.0723	ng
9) Cl2(5)		12.77	222	97785m	0.0725	ng
10) Cl2(8)		12.84	222	103346m	0.0693	ng
11) Cl3(19)		13.30	256	41121m	0.0722	ng
12) Cl3(30)		13.70	256	67941m	0.0767	ng
13) Cl2(11)-S1	(0.135)	14.15t	221	23896	No Calib	
14) Cl2(11)		14.14tw	222	102391m	0.0798	ng
Corrected Values:				99165	0.0773	ng
15) Cl3(18)		14.15t	256	47791m	0.0734	ng
16) Cl3(17)		14.27	256	48076m	0.0735	ng
17) Cl2(12)		14.35	222	98184m	0.0769	ng
18) Cl2(13)-S1	(0.135)	14.51t	221	3062	No Calib	
19) Cl2(13)		14.50tw	222	94425m	0.0756	ng
Corrected Values:				94012	0.0753	ng
20) Cl3(27)		14.51t	256	65821m	0.0708	ng
21) Cl3(24)		14.63	256	64296m	0.0724	ng
22) Cl3(16)		14.83	256	37689m	0.0782	ng
23) Cl2(15)		14.89	222	110522m	0.0770	ng
24) Cl3(32)		14.96	256	66763m	0.0718	ng
25) Cl4(54)		15.30tw	292	63862m	0.0737	ng
28) Cl3(29)		15.53	256	67874m	0.0778	ng
29) Cl3(26)-S1	(0.135)	15.88t	255	15269	No Calib	
30) Cl3(26)		15.84	256	75546m	0.0799	ng
Corrected Values:				73485	0.0777	ng
31) Cl4(50)		15.88t	292	47096m	0.0761	ng
32) Cl3(25)		15.96	256	67764m	0.0757	ng
33) Cl3(31)-S1	(0.135)	16.33t	255	15701	No Calib	
34) Cl3(31)		16.30	256	77041m	0.0829	ng
Corrected Values:				74921	0.0806	ng
35) Cl4(53)		16.33t	292	47554m	0.0761	ng
36) Cl3(28)		16.41	256	71266m	0.0751	ng
37) Cl3(33)		16.51	256	66393m	0.0769	ng
38) Cl4(51)		16.60	292	48216m	0.0736	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9346.D MF0785.M Thu Mar 26 14:36:56 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9346.D

Acq On : 12 Mar 2015 9:46 am

Sample : ID18 mid

Misc : 5-315 CCV

MS Integration Params: rteint.p

Vial: 29

Operator: RR

Inst : Inst. F

Multiplr: 1.00

Quant Time: Mar 12 11:21:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:49 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.92	292	41544m	0.0817 ng
40) Cl3(22)		17.01	256	67536m	0.0795 ng
41) Cl4(46)		17.19	292	37604m	0.0804 ng
42) Cl4(43)		17.57	292	46218m	0.0893 ng
43) Cl4(52)		17.63	292	49219m	0.0835 ng
44) Cl4(48)		17.78	292	54162m	0.0894 ng
45) Cl4(49)		17.84	292	44185m	0.0761 ng
46) Cl5(104)		18.03t	326	58625m	0.0812 ng
47) Cl4(47)-S1	(0.174)	18.04tw	289	2552	No Calib
48) Cl4(47)		18.03t	292	58109m	0.0828 ng
Corrected Values:				57665	0.0821 ng
49) Cl4(75)		18.11	292	69052m	0.0809 ng
50) Cl4(44)		18.47	292	45525m	0.0866 ng
51) Cl4(42)		18.69	292	45361m	0.0864 ng
52) Cl4(71)		18.91	292	65245m	0.0853 ng
53) Cl4(41)		19.00	292	38332m	0.0846 ng
54) Cl4(64)		19.29	292	69087m	0.0877 ng
55) Cl4(40)		19.38tw	292	35716m	0.0809 ng
56) Cl3(37)-S1	(0.135)	19.37t	255	22461	No Calib
57) Cl3(37)		19.37t	256	75976	0.0866 ng
Corrected Values:				72944	0.0832 ng
58) Cl5(100)		19.73	326	46799m	0.0880 ng
59) Cl4(67)		20.02	292	69288m	0.0925 ng
60) Cl4(63)		20.42	292	65466m	0.0908 ng
61) Cl5(95)		20.55	326	39740m	0.0849 ng
62) Cl4(74)		20.63	292	69931m	0.0854 ng
63) Cl4(70)		20.76	292	68696m	0.0853 ng
64) Cl5(91)-S1	(0.220)	21.00t	323	687	No Calib
65) Cl5(91)		20.93tw	326	44560m	0.0844 ng
Corrected Values:				44409	0.0841 ng
66) Cl4(66)-S1	(0.174)	20.92tw	289	12707	No Calib
67) Cl4(66)-S2	(0.650)	21.00t	288	22738	No Calib
68) Cl4(66)		20.96	292	82414m	0.1040 ng
Corrected Values:				65423	0.0833 ng
69) Cl6(155)		21.01tw	360	54078m	0.0815 ng
70) Cl4(80)		21.28	292	66310m	0.0883 ng
71) Cl5(92)		21.56T	326	40944m	0.0785 ng
72) Cl5(84)		21.56T	326	35075m	0.0928 ng
73) Cl4(56)-S1	(0.174)	21.57tw	289	23916	No Calib
74) Cl4(56)		21.62	292	69262m	0.0877 ng
Corrected Values:				65101	0.0826 ng
75) Cl4(60)-S1	(0.174)	21.86t	289	6178	No Calib
76) Cl4(60)		21.87tw	292	67522m	0.0885 ng
Corrected Values:				66447	0.0871 ng
77) Cl5(101)		21.86t	326	48236m	0.0870 ng
79) Cl5(99)		22.13	326	48841m	0.0828 ng
80) Cl5(83)		22.53	326	34167m	0.0813 ng
81) Cl5(125)		22.67	326	54709m	0.0806 ng
82) Cl5(97)		22.81	326	39889m	0.0796 ng
83) Cl5(87)		23.27	326	41096m	0.0866 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9346.D MF0785.M Thu Mar 26 14:36:56 2015

040221CFS

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Data File : G:\F\DATA\SF0785\F9346.D
 Acq On : 12 Mar 2015 9:46 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 29
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 11:21:37 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 11:20:49 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	45169m	0.0774 ng
85) Cl5(115)		23.48	326	66806m	0.0882 ng
86) Cl6(154)		23.54	360	42300m	0.0782 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.50	326	42930m	0.0778 ng
Corrected Values:				42930	0.0778 ng
89) Cl5(110)		23.79	326	58688m	0.0825 ng
90) Cl4(81)		23.89	292	64938m	0.0840 ng
91) Cl5(82)-S1	(0.220)	24.22tw	323	7900	No Calib
92) Cl5(82)		24.24tw	326	38258m	0.0864 ng
Corrected Values:				36520	0.0826 ng
93) Cl6(151)		24.23tw	360	36221m	0.0830 ng
94) Cl6(135)		24.33	360	34152m	0.0786 ng
95) Cl4(77)-S2	(0.650)	24.46tw	288	21676	No Calib
96) Cl4(77)		24.42	292	77101m	0.1005 ng
Corrected Values:				63012	0.0828 ng
97) Cl6(144)		24.47tw	360	35882m	0.0766 ng
98) Cl6(149)		24.69	360	39237m	0.0839 ng
99) Cl6(139)		24.81	360	38751m	0.0825 ng
100) Cl5(124)-S1	(0.220)	24.91t	323	5374	No Calib
101) Cl5(124)		24.86	326	62909m	0.0824 ng
Corrected Values:				61727	0.0809 ng
102) Cl6(140)		24.91t	360	35949m	0.0774 ng
103) Cl5(123)		25.07	326	59329m	0.0879 ng
104) Cl6(134)		25.16	360	30285m	0.0821 ng
105) Cl7(188)		25.25t	394	41621m	0.0797 ng
106) Cl5(118)-S1	(0.220)	25.32t	323	10138	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	14473	No Calib
108) Cl5(118)		25.29	326	76890m	0.1054 ng
Corrected Values:				59029	0.0816 ng
109) Cl6(131)		25.32t	360	32571m	0.0767 ng
110) Cl7(184)		25.55	394	41365m	0.0827 ng
111) Cl6(146)		25.63	360	40558m	0.0829 ng
112) Cl5(114)-S1	(0.220)	25.73t	323e	797	No Calib
113) Cl5(114)		25.67	326	58519m	0.0816 ng
Corrected Values:				58344	0.0814 ng
115) Cl6(153)		25.89	360	40970	0.0814 ng
116) Cl7(179)		26.12	394	38462m	0.0814 ng
117) Cl5(105)-S1	(0.220)	26.28t	323	4501	No Calib
118) Cl5(105)		26.24	326	56175m	0.0864 ng
Corrected Values:				55185	0.0849 ng
119) Cl6(141)		26.28t	360	33544m	0.0806 ng
120) Cl7(176)		26.38	394	36926m	0.0773 ng
121) Cl6(127)-S1	(0.265)	26.49tw	323	3984	No Calib
122) Cl5(127)		26.51tw	326	60010m	0.0834 ng
123) Cl6(137)		26.50tw	360	34404m	0.0821 ng
124) Cl6(130)		26.63	360	32781m	0.0784 ng
125) Cl6(164)		26.69	360	43636m	0.0793 ng
126) Cl6(138)		26.82	360	39991m	0.0787 ng
127) Cl6(163)-S1	(0.265)	26.92t	357	5689	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9346.D MF0785.M Thu Mar 26 14:36:57 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9346.D
 Acq On : 12 Mar 2015 9:46 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 29
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 11:21:37 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 11:20:49 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.87	360	43083m	0.0824 ng
Corrected Values:				41575	0.0796 ng
129) Cl7(178)		26.92t	394	27131	0.0753 ng
130) Cl6(158)		26.97	360	46034	0.0750 ng
131) Cl7(175)		27.10	394	29185m	0.0831 ng
132) Cl7(187)		27.19	394	31887m	0.0792 ng
133) Cl6(166) -S1	(0.265)	27.36t	357	2631	No Calib
134) Cl6(166)		27.36t	360	46499	0.0838 ng
Corrected Values:				45802	0.0825 ng
135) Cl7(183)		27.36t	394	30574m	0.0793 ng
136) Cl5(126)		27.52	326	55822m	0.0972 ng
137) Cl6(128) -S1	(0.265)	27.70t	357	3427	No Calib
138) Cl6(128)		27.67	360	33173	0.0838 ng
Corrected Values:				32265	0.0816 ng
139) Cl7(185)		27.70t	394	28103m	0.0829 ng
140) Cl7(174)		27.82	394	28419m	0.0833 ng
141) Cl6(167)		27.91	360	48268m	0.0902 ng
142) Cl8(202)		27.98	428	31185m	0.0804 ng
143) Cl7(177)		28.08	394	26688m	0.0845 ng
144) Cl8(201)		28.21t	428	30076m	0.0787 ng
145) Cl7(171) -S1	(0.309)	28.20tw	391	410	No Calib
146) Cl7(171)		28.21t	394	27568m	0.0819 ng
Corrected Values:				27441	0.0815 ng
147) Cl7(173)		28.30	394	25009m	0.0815 ng
148) Cl8(197)		28.42	428	30590m	0.0829 ng
149) Cl6(156) -S1	(0.265)	28.55t	357	4499	No Calib
150) Cl6(156)		28.52	360	47328m	0.0921 ng
Corrected Values:				46136	0.0899 ng
151) Cl7(172)		28.55t	394	26393m	0.0810 ng
152) Cl6(157)		28.61	360	44208m	0.0823 ng
153) Cl7(180)		28.75	394	32562m	0.0866 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.79	394	34699m	0.0798 ng
Corrected Values:				34699	0.0798 ng
156) Cl8(200)		28.83	428	29197m	0.0766 ng
157) Cl7(191)		28.92	394	38350m	0.0829 ng
158) Cl7(170) -S1	(0.309)	29.48tw	391	6164	No Calib
159) Cl7(170)		29.46	394	27293m	0.0979 ng
Corrected Values:				25388	0.0915 ng
160) Cl8(198)		29.49tw	428	20074m	0.0725 ng
161) Cl8(199)		29.52	428	17025m	0.0746 ng
162) Cl7(190)		29.58	394	36004m	0.0826 ng
163) Cl6(169) -S2	(1.610)	29.69tw	356	9116	No Calib
164) Cl6(169)		29.66	360	54226m	0.1212 ng
Corrected Values:				39549	0.0907 ng
165) Cl8(203)		29.70tw	428	22862m	0.0793 ng
166) Cl9(208)		30.20	464	25330m	0.0898 ng
167) Cl7(189)		30.33	394	35024m	0.0992 ng
168) Cl9(207)		30.39tw	464	25898m	0.0792 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9346.D MF0785.M Thu Mar 26 14:36:57 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9346.D
Acq On : 12 Mar 2015 9:46 am
Sample : ID18 mid
Misc : 5-315 CCV
MS Integration Params: rteint.p

Vial: 29
Operator: RR
Inst : Inst. F
Multiplr: 1.00

Quant Time: Mar 12 11:21:37 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Thu Mar 12 11:20:49 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	19933m	0.0786 ng
Corrected Values:				19933	0.0786 ng
171) Cl8(194)		30.89	428	20904	0.0970 ng
172) Cl8(205)		31.05	428	26307m	0.0896 ng
173) Cl9(206)		31.55	464	18583m	0.1009 ng
174) Cl10(209)		32.06	498	18235m	0.0926 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9346.D MF0785.M Thu Mar 26 14:36:58 2015 040221CFS

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Data File : G:\F\DATA\SF0786\F9357.D
 Acq On : 13 Mar 2015 12:38 pm
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 3
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 15 08:52:25 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 11:21:35 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	69992m	0.1000	ng
78) Cl6(161)	25.75t	360	59151m	0.1000	ng

System Monitoring Compounds					
26) Cl3(34)-S1	(0.135)	15.30t	255	2162m	0.0000 ng
27) Cl3(34)		15.30t	256	32238m	0.0381 ng
Spiked Amount	0.0400			Recovery	= 94.50%
Corrected Values:				31946	0.0378 ng
114) Cl6(152)		22.43	360	22400m	0.0382 ng
Spiked Amount	0.0402			Recovery	= 95.12%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	78787m	0.0318	ng
3) Cl1(1)		9.94	188	61099m	0.0341	ng
4) Cl1(3)		11.14	188	60199m	0.0361	ng
5) Cl2(4)		11.43	222	30112m	0.0359	ng
6) Cl2(7)		12.32	222	41549m	0.0369	ng
7) Cl2(9)		12.27	222	56623m	0.0364	ng
8) Cl2(6)		12.55	222	49172m	0.0358	ng
9) Cl2(5)		12.77	222	47653m	0.0362	ng
10) Cl2(8)		12.85	222	50917m	0.0350	ng
11) Cl3(19)		13.31	256	19875m	0.0356	ng
12) Cl3(30)		13.71	256	32149m	0.0374	ng
13) Cl2(11)-S1	(0.135)	14.15tw	221	11508	No Calib	
14) Cl2(11)		14.14tw	222	50050m	0.0403	ng
Corrected Values:				48496	0.0391	ng
15) Cl3(18)		14.16tw	256	23415m	0.0369	ng
16) Cl3(17)		14.28	256	22926m	0.0359	ng
17) Cl2(12)		14.36	222	45703m	0.0372	ng
18) Cl2(13)-S1	(0.135)	14.51t	221	1450	No Calib	
19) Cl2(13)		14.51t	222	45625m	0.0378	ng
Corrected Values:				45429	0.0376	ng
20) Cl3(27)		14.51t	256	32082m	0.0354	ng
21) Cl3(24)		14.64	256	31038m	0.0358	ng
22) Cl3(16)		14.83	256	17595m	0.0373	ng
23) Cl2(15)		14.89	222	56042m	0.0403	ng
24) Cl3(32)		14.97	256	33043m	0.0364	ng
25) Cl4(54)		15.30t	292	31097m	0.0363	ng
28) Cl3(29)		15.53	256	33141m	0.0392	ng
29) Cl3(26)-S1	(0.135)	15.89t	255	7527	No Calib	
30) Cl3(26)		15.84	256	36921m	0.0403	ng
Corrected Values:				35905	0.0393	ng
31) Cl4(50)		15.89t	292	22983m	0.0381	ng
32) Cl3(25)		15.96	256	34079m	0.0392	ng
33) Cl3(31)-S1	(0.135)	16.33tw	255	7537	No Calib	
34) Cl3(31)		16.31	256	36144m	0.0402	ng
Corrected Values:				35127	0.0391	ng
35) Cl4(53)		16.34tw	292	22355m	0.0368	ng
36) Cl3(28)		16.42	256	34756m	0.0379	ng
37) Cl3(33)		16.52	256	31209m	0.0374	ng
38) Cl4(51)		16.61	292	23611m	0.0370	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9357.D MF0785.M Tue Mar 17 13:30:39 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9357.D
 Acq On : 13 Mar 2015 12:38 pm
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 3
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 15 08:52:25 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 11:21:35 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.93	292	19721m	0.0398 ng
40) Cl3(22)		17.02	256	32783m	0.0400 ng
41) Cl4(46)		17.19	292	18924m	0.0415 ng
42) Cl4(43)		17.57	292	20879m	0.0421 ng
43) Cl4(52)		17.63	292	23474m	0.0411 ng
44) Cl4(48)		17.79	292	26017m	0.0444 ng
45) Cl4(49)		17.85	292	21512m	0.0383 ng
46) Cl5(104)		18.04t	326	27344m	0.0389 ng
47) Cl4(47)-S1	(0.174)	18.02	289	879	No Calib
48) Cl4(47)		18.04t	292	27731m	0.0403 ng
Corrected Values:				27578	0.0400 ng
49) Cl4(75)		18.12	292	32159m	0.0390 ng
50) Cl4(44)		18.49	292	21181m	0.0418 ng
51) Cl4(42)		18.69	292	20685m	0.0408 ng
52) Cl4(71)		18.92	292	31042m	0.0421 ng
53) Cl4(41)		19.01	292	17404m	0.0399 ng
54) Cl4(64)		19.30	292	32239m	0.0422 ng
55) Cl4(40)		19.38t	292	15909m	0.0372 ng
56) Cl3(37)-S1	(0.135)	19.38t	255	9798	No Calib
57) Cl3(37)		19.37tw	256	34935	0.0415 ng
Corrected Values:				33612	0.0400 ng
58) Cl5(100)		19.74	326	21974m	0.0428 ng
59) Cl4(67)		20.03	292	31742m	0.0445 ng
60) Cl4(63)		20.43	292	30006m	0.0438 ng
61) Cl5(95)		20.56	326	19011m	0.0420 ng
62) Cl4(74)		20.64	292	32887m	0.0420 ng
63) Cl4(70)		20.77	292	31213m	0.0404 ng
64) Cl5(91)-S1	(0.220)	21.01t	323	468	No Calib
65) Cl5(91)		20.94t	326	20337m	0.0399 ng
Corrected Values:				20234	0.0397 ng
66) Cl4(66)-S1	(0.174)	20.94t	289	5940	No Calib
67) Cl4(66)-S2	(0.650)	21.01t	288	10643	No Calib
68) Cl4(66)		20.97	292	39209m	0.0515 ng
Corrected Values:				31257	0.0415 ng
69) Cl6(155)		21.02tw	360	25902m	0.0402 ng
70) Cl4(80)		21.29	292	30828m	0.0432 ng
71) Cl5(92)		21.57t	326	19346m	0.0388 ng
72) Cl5(84)		21.58Tw	326	13349m	0.0384 ng
73) Cl4(56)-S1	(0.174)	21.57t	289	11054	No Calib
74) Cl4(56)		21.62	292	33481m	0.0442 ng
Corrected Values:				31558	0.0418 ng
75) Cl4(60)-S1	(0.174)	21.86t	289	2770	No Calib
76) Cl4(60)		21.88	292	30778m	0.0422 ng
Corrected Values:				30296	0.0416 ng
77) Cl5(101)		21.86t	326	22990m	0.0433 ng
79) Cl5(99)		22.15	326	22616m	0.0383 ng
80) Cl5(83)		22.54	326	16792m	0.0396 ng
81) Cl5(125)		22.68	326	27742m	0.0405 ng
82) Cl5(97)		22.82	326	19983m	0.0398 ng
83) Cl5(87)		23.28	326	20536m	0.0432 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9357.D MF0785.M Tue Mar 17 13:30:39 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9357.D
 Acq On : 13 Mar 2015 12:38 pm
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 3
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 15 08:52:25 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 11:21:35 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.36	360	23264m	0.0391 ng
85) Cl5(115)		23.49	326	28408m	0.0384 ng
86) Cl6(154)		23.56	360	20236m	0.0373 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.51	326	20962m	0.0372 ng
Corrected Values:				20962	0.0372 ng
89) Cl5(110)		23.80	326	28935m	0.0406 ng
90) Cl4(81)		23.91	292	30185m	0.0394 ng
91) Cl5(82)-S1	(0.220)	24.24t	323	3553	No Calib
92) Cl5(82)		24.24t	326	17735m	0.0398 ng
Corrected Values:				16953	0.0381 ng
93) Cl6(151)		24.24t	360	17252m	0.0393 ng
94) Cl6(135)		24.34	360	16075m	0.0369 ng
95) Cl4(77)-S2	(0.650)	24.47t	288	9659	No Calib
96) Cl4(77)		24.44	292	36178m	0.0474 ng
Corrected Values:				29900	0.0395 ng
97) Cl6(144)		24.47t	360	17427m	0.0370 ng
98) Cl6(149)		24.70	360	18993m	0.0404 ng
99) Cl6(139)		24.82	360	18773m	0.0399 ng
100) Cl5(124)-S1	(0.220)	24.92t	323	2567	No Calib
101) Cl5(124)		24.87	326	30085m	0.0395 ng
Corrected Values:				29520	0.0388 ng
102) Cl6(140)		24.92t	360	17638m	0.0377 ng
103) Cl5(123)		25.08	326	27479m	0.0409 ng
104) Cl6(134)		25.17	360	14460m	0.0391 ng
105) Cl7(188)		25.27t	394	19956m	0.0381 ng
106) Cl5(118)-S1	(0.220)	25.33t	323	5061	No Calib
107) Cl5(118)-S2	(1.080)	25.27t	322	6817	No Calib
108) Cl5(118)		25.30	326	36940m	0.0507 ng
Corrected Values:				28465	0.0395 ng
109) Cl6(131)		25.33t	360	16436m	0.0386 ng
110) Cl7(184)		25.55	394	20475m	0.0407 ng
111) Cl6(146)		25.64	360	20143m	0.0415 ng
112) Cl5(114)-S1	(0.220)	25.75t	323e	543	No Calib
113) Cl5(114)		25.67	326	28780m	0.0404 ng
Corrected Values:				28661	0.0402 ng
115) Cl6(153)		25.91	360	20211m	0.0399 ng
116) Cl7(179)		26.12	394	18748m	0.0394 ng
117) Cl5(105)-S1	(0.220)	26.28tw	323	2472	No Calib
118) Cl5(105)		26.25	326	28264m	0.0438 ng
Corrected Values:				27720	0.0430 ng
119) Cl6(141)		26.29tw	360	16199m	0.0393 ng
120) Cl7(176)		26.39	394	18572m	0.0386 ng
121) Cl6(127)-S1	(0.265)	26.50tw	323	1900	No Calib
122) Cl5(127)		26.51t	326	30315m	0.0424 ng
123) Cl6(137)		26.51t	360	17415m	0.0416 ng
124) Cl6(130)		26.64	360	16561m	0.0387 ng
125) Cl6(164)		26.69	360	21599m	0.0391 ng
126) Cl6(138)		26.83	360	21474m	0.0420 ng
127) Cl6(163)-S1	(0.265)	26.92t	357	2539	No Calib

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9357.D MF0785.M Tue Mar 17 13:30:39 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9357.D
 Acq On : 13 Mar 2015 12:38 pm
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 3
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 15 08:52:25 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 11:21:35 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.88	360	22562m	0.0426 ng
Corrected Values:				21889	0.0413 ng
129) Cl7(178)		26.92t	394	14031	0.0385 ng
130) Cl6(158)		26.98	360	24482	0.0397 ng
131) Cl7(175)		27.10	394	15304m	0.0434 ng
132) Cl7(187)		27.20	394	16468m	0.0407 ng
133) Cl6(166) -S1	(0.265)	27.37t	357	1251	No Calib
134) Cl6(166)		27.37t	360	23506m	0.0424 ng
Corrected Values:				23174	0.0418 ng
135) Cl7(183)		27.37t	394	15239m	0.0396 ng
136) Cl5(126)		27.52	326	26701m	0.0475 ng
137) Cl6(128) -S1	(0.265)	27.70tw	357	1880	No Calib
138) Cl6(128)		27.68	360	16937	0.0428 ng
Corrected Values:				16439	0.0416 ng
139) Cl7(185)		27.71tw	394	13776m	0.0408 ng
140) Cl7(174)		27.82	394	13752m	0.0405 ng
141) Cl6(167)		27.91	360	23927m	0.0454 ng
142) Cl8(202)		27.99	428	15923m	0.0410 ng
143) Cl7(177)		28.09	394	13386m	0.0426 ng
144) Cl8(201)		28.22t	428	15797m	0.0412 ng
145) Cl7(171) -S1	(0.309)	28.21tw	391	235	No Calib
146) Cl7(171)		28.22t	394	13867m	0.0411 ng
Corrected Values:				13794	0.0409 ng
147) Cl7(173)		28.30	394	12888m	0.0420 ng
148) Cl8(197)		28.43	428	15545m	0.0422 ng
149) Cl6(156) -S1	(0.265)	28.56t	357	2210	No Calib
150) Cl6(156)		28.53	360	23467m	0.0464 ng
Corrected Values:				22881	0.0453 ng
151) Cl7(172)		28.56t	394	13137	0.0407 ng
152) Cl6(157)		28.62	360	22196m	0.0418 ng
153) Cl7(180)		28.76	394	14748m	0.0397 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.80	394	16964m	0.0392 ng
Corrected Values:				16964	0.0392 ng
156) Cl8(200)		28.83	428	15133m	0.0397 ng
157) Cl7(191)		28.93	394	20099m	0.0438 ng
158) Cl7(170) -S1	(0.309)	29.49t	391	2054	No Calib
159) Cl7(170)		29.47	394	13623	0.0499 ng
Corrected Values:				12988	0.0477 ng
160) Cl8(198)		29.49t	428	10889m	0.0404 ng
161) Cl8(199)		29.52	428	10242m	0.0446 ng
162) Cl7(190)		29.58	394	18558m	0.0430 ng
163) Cl6(169) -S2	(1.610)	29.70t	356	4618	No Calib
164) Cl6(169)		29.67	360	27016	0.0623 ng
Corrected Values:				19581	0.0463 ng
165) Cl8(203)		29.70t	428	11703m	0.0408 ng
166) Cl9(208)		30.20	464	12289m	0.0444 ng
167) Cl7(189)		30.34	394	16816m	0.0497 ng
168) Cl9(207)		30.39	464	12678m	0.0394 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9357.D MF0785.M Tue Mar 17 13:30:39 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9357.D

Vial: 3

Acq On : 13 Mar 2015 12:38 pm

Operator: LMG

Sample : ID17 mid

Inst : Inst. F

Misc : 5-315 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:25 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:21:35 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.41	428	9617	0.0380 ng
Corrected Values:				9617	0.0380 ng
171) Cl8(194)		30.90	428	9963m	0.0480 ng
172) Cl8(205)		31.05	428	12820	0.0448 ng
173) Cl9(206)		31.56	464	7941m	0.0447 ng
174) Cl10(209)		32.06	498	7842m	0.0409 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9357.D MF0785.M Tue Mar 17 13:30:39 2015

040221CFS

Page 5

Data File : G:\F\DATA\SF0786\F9366.D
 Acq On : 13 Mar 2015 7:49 pm
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 12
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 15 08:53:45 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Sun Mar 15 08:52:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	74721m	0.1000	ng
78) Cl6(161)	25.75tw	360	62730m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.30t	255	4945m	0.0000	ng
27) Cl3(34)	15.30t	256	71782m	0.0783	ng
Spiked Amount	0.0800		Recovery	=	97.00%
Corrected Values:			71114	0.0776	ng
114) Cl6(152)	22.45	360	50638m	0.0809	ng
Spiked Amount	0.0803		Recovery	=	100.72%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.76	154	163629m	0.0621	ng
3) Cl1(1)	9.94	188	128663m	0.0671	ng
4) Cl1(3)	11.14	188	134109m	0.0743	ng
5) Cl2(4)	11.43	222	66142m	0.0735	ng
6) Cl2(7)	12.32	222	85487m	0.0708	ng
7) Cl2(9)	12.28	222	133632m	0.0788	ng
8) Cl2(6)	12.56	222	109268m	0.0738	ng
9) Cl2(5)	12.78	222	107294m	0.0754	ng
10) Cl2(8)	12.85	222	107551m	0.0683	ng
11) Cl3(19)	13.32	256	43516m	0.0723	ng
12) Cl3(30)	13.72	256	72752m	0.0778	ng
13) Cl2(11)-S1 (0.135)	14.16tw	221	25284	No Calib	
14) Cl2(11)	14.15tw	222	109914m	0.0811	ng
Corrected Values:			106501	0.0786	ng
15) Cl3(18)	14.17tw	256	50534m	0.0735	ng
16) Cl3(17)	14.29	256	51387m	0.0744	ng
17) Cl2(12)	14.37	222	105591m	0.0783	ng
18) Cl2(13)-S1 (0.135)	14.52t	221	3062	No Calib	
19) Cl2(13)	14.52t	222	99166m	0.0752	ng
Corrected Values:			98753	0.0749	ng
20) Cl3(27)	14.52t	256	71475m	0.0729	ng
21) Cl3(24)	14.64	256	69104m	0.0737	ng
22) Cl3(16)	14.84	256	39168m	0.0770	ng
23) Cl2(15)	14.90	222	123260m	0.0813	ng
24) Cl3(32)	14.98	256	71189m	0.0726	ng
25) Cl4(54)	15.31tw	292	67359m	0.0736	ng
28) Cl3(29)	15.54	256	72907m	0.0792	ng
29) Cl3(26)-S1 (0.135)	15.90t	255	16854	No Calib	
30) Cl3(26)	15.84	256	85508m	0.0855	ng
Corrected Values:			83233	0.0833	ng
31) Cl4(50)	15.90t	292	52009m	0.0795	ng
32) Cl3(25)	15.97	256	74465m	0.0787	ng
33) Cl3(31)-S1 (0.135)	16.34tw	255	17465	No Calib	
34) Cl3(31)	16.32	256	82878m	0.0844	ng
Corrected Values:			80520	0.0821	ng
35) Cl4(53)	16.35tw	292	50671m	0.0768	ng
36) Cl3(28)	16.43	256	78934m	0.0787	ng
37) Cl3(33)	16.53	256	71631m	0.0785	ng
38) Cl4(51)	16.61	292	51587m	0.0746	ng

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9366.D MF0785.M Tue Mar 17 13:30:55 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9366.D
 Acq On : 13 Mar 2015 7:49 pm
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 12
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 15 08:53:45 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Sun Mar 15 08:52:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4 (45)		16.94	292	43839m	0.0816 ng
40) Cl3 (22)		17.03	256	74246m	0.0827 ng
41) Cl4 (46)		17.20	292	40454m	0.0819 ng
42) Cl4 (43)		17.58	292	44679m	0.0820 ng
43) Cl4 (52)		17.64	292	46005m	0.0741 ng
44) Cl4 (48)		17.80	292	56071m	0.0877 ng
45) Cl4 (49)		17.86	292	46789m	0.0764 ng
46) Cl5 (104)		18.04t	326	61021m	0.0800 ng
47) Cl4 (47) -S1	(0.174)	18.04t	289	1946	No Calib
48) Cl4 (47)		18.05tw	292	60108m	0.0811 ng
Corrected Values:				59769	0.0806 ng
49) Cl4 (75)		18.13	292	69735m	0.0775 ng
50) Cl4 (44)		18.49	292	46845m	0.0845 ng
51) Cl4 (42)		18.70	292	47284m	0.0854 ng
52) Cl4 (71)		18.93	292	67534m	0.0837 ng
53) Cl4 (41)		19.02	292	39016m	0.0817 ng
54) Cl4 (64)		19.31	292	73083m	0.0879 ng
55) Cl4 (40)		19.39t	292	31271m	0.0673 ng
56) Cl3 (37) -S1	(0.135)	19.39t	255	22514	No Calib
57) Cl3 (37)		19.39t	256	79348	0.0857 ng
Corrected Values:				76309	0.0825 ng
58) Cl5 (100)		19.75	326	49140m	0.0875 ng
59) Cl4 (67)		20.04	292	71832m	0.0909 ng
60) Cl4 (63)		20.44	292	72271m	0.0948 ng
61) Cl5 (95)		20.58	326	44100m	0.0891 ng
62) Cl4 (74)		20.65	292	77316m	0.0892 ng
63) Cl4 (70)		20.78	292	73836m	0.0868 ng
64) Cl5 (91) -S1	(0.220)	21.03tw	323	1309	No Calib
65) Cl5 (91)		20.96t	326	47275m	0.0848 ng
Corrected Values:				46987	0.0843 ng
66) Cl4 (66) -S1	(0.174)	20.96t	289	13387	No Calib
67) Cl4 (66) -S2	(0.650)	21.02t	288	24415	No Calib
68) Cl4 (66)		20.98	292	89487m	0.1068 ng
Corrected Values:				71288	0.0858 ng
69) Cl6 (155)		21.02t	360	58233m	0.0831 ng
70) Cl4 (80)		21.31	292	71963m	0.0907 ng
71) Cl5 (92)		21.59T	326	48202m	0.0872 ng
72) Cl5 (84)		21.59T	326	33413m	0.0846 ng
73) Cl4 (56) -S1	(0.174)	21.59t	289	25228	No Calib
74) Cl4 (56)		21.64	292	75070m	0.0899 ng
Corrected Values:				70680	0.0848 ng
75) Cl4 (60) -S1	(0.174)	21.88tw	289	6590	No Calib
76) Cl4 (60)		21.90tw	292	70167m	0.0872 ng
Corrected Values:				69020	0.0858 ng
77) Cl5 (101)		21.89tw	326	50558m	0.0864 ng
79) Cl5 (99)		22.15	326	51875m	0.0808 ng
80) Cl5 (83)		22.55	326	36158m	0.0790 ng
81) Cl5 (125)		22.69	326	57452m	0.0778 ng
82) Cl5 (97)		22.83	326	42910m	0.0786 ng
83) Cl5 (87)		23.29	326	43975m	0.0852 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9366.D MF0785.M Tue Mar 17 13:30:55 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9366.D
 Acq On : 13 Mar 2015 7:49 pm
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 12
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 15 08:53:45 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Sun Mar 15 08:52:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.38	360	48292m	0.0760 ng
85) Cl5(115)		23.50	326	57746m	0.0710 ng
86) Cl6(154)		23.58	360	44311m	0.0752 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.52	326	43840m	0.0729 ng
Corrected Values:				43840	0.0729 ng
89) Cl5(110)		23.81	326	65290m	0.0842 ng
90) Cl4(81)		23.92	292	70240m	0.0835 ng
91) Cl5(82)-S1	(0.220)	24.24t	323	8119	No Calib
92) Cl5(82)		24.25tw	326	41994m	0.0871 ng
Corrected Values:				40208	0.0835 ng
93) Cl6(151)		24.24t	360	38927m	0.0819 ng
94) Cl6(135)		24.35	360	37784m	0.0798 ng
95) Cl4(77)-S2	(0.650)	24.48t	288	22908	No Calib
96) Cl4(77)		24.45	292	84046m	0.1005 ng
Corrected Values:				69156	0.0833 ng
97) Cl6(144)		24.48t	360	40471m	0.0792 ng
98) Cl6(149)		24.71	360	43904m	0.0861 ng
99) Cl6(139)		24.83	360	42601m	0.0832 ng
100) Cl5(124)-S1	(0.220)	24.94t	323	6433	No Calib
101) Cl5(124)		24.88	326	71456m	0.0858 ng
Corrected Values:				70041	0.0841 ng
102) Cl6(140)		24.94t	360	40466m	0.0799 ng
103) Cl5(123)		25.08	326	64667m	0.0879 ng
104) Cl6(134)		25.18	360	34798m	0.0865 ng
105) Cl7(188)		25.28t	394	47148m	0.0828 ng
106) Cl5(118)-S1	(0.220)	25.35tw	323	9130	No Calib
107) Cl5(118)-S2	(1.080)	25.28t	322	16124	No Calib
108) Cl5(118)		25.31	326	86299m	0.1085 ng
Corrected Values:				66876	0.0848 ng
109) Cl6(131)		25.34tw	360	37526m	0.0810 ng
110) Cl7(184)		25.57	394	46665m	0.0856 ng
111) Cl6(146)		25.65	360	44726m	0.0839 ng
112) Cl5(114)-S1	(0.220)	25.76tw	323e	754	No Calib
113) Cl5(114)		25.68	326	63845m	0.0817 ng
Corrected Values:				63679	0.0815 ng
115) Cl6(153)		25.91	360	45488m	0.0829 ng
116) Cl7(179)		26.13	394	43701m	0.0848 ng
117) Cl5(105)-S1	(0.220)	26.30t	323	5434	No Calib
118) Cl5(105)		26.26	326	60871m	0.0859 ng
Corrected Values:				59676	0.0843 ng
119) Cl6(141)		26.30t	360	36624m	0.0808 ng
120) Cl7(176)		26.39	394	41282m	0.0793 ng
121) Cl6(127)-S1	(0.265)	26.51t	323	4174	No Calib
122) Cl5(127)		26.53	326	63923m	0.0816 ng
123) Cl6(137)		26.51t	360	38019m	0.0832 ng
124) Cl6(130)		26.64	360	36141m	0.0793 ng
125) Cl6(164)		26.70	360	47029m	0.0785 ng
126) Cl6(138)		26.84	360	42111m	0.0762 ng
127) Cl6(163)-S1	(0.265)	26.92tw	357	6214	No Calib

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9366.D MF0785.M Tue Mar 17 13:30:56 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9366.D
 Acq On : 13 Mar 2015 7:49 pm
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 12
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 15 08:53:45 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Sun Mar 15 08:52:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.89	360	47473m	0.0833 ng
Corrected Values:				45826	0.0805 ng
129) Cl7(178)		26.93tw	394	29553m	0.0753 ng
130) Cl6(158)		26.98	360	49758m	0.0744 ng
131) Cl7(175)		27.12	394	32160m	0.0840 ng
132) Cl7(187)		27.21	394	33524m	0.0765 ng
133) Cl6(166)-S1	(0.265)	27.37tw	357	2656	No Calib
134) Cl6(166)		27.38t	360	48487m	0.0803 ng
Corrected Values:				47783	0.0792 ng
135) Cl7(183)		27.38t	394	32186m	0.0768 ng
136) Cl5(126)		27.53	326	56361m	0.0905 ng
137) Cl6(128)-S1	(0.265)	27.71t	357	3752	No Calib
138) Cl6(128)		27.69	360	33580	0.0781 ng
Corrected Values:				32586	0.0759 ng
139) Cl7(185)		27.71t	394	28061m	0.0763 ng
140) Cl7(174)		27.82	394	29114m	0.0785 ng
141) Cl6(167)		27.92	360	49927m	0.0859 ng
142) Cl8(202)		28.00	428	31639m	0.0750 ng
143) Cl7(177)		28.10	394	27006m	0.0787 ng
144) Cl8(201)		28.23t	428	31298m	0.0753 ng
145) Cl7(171)-S1	(0.309)	28.23t	391	396	No Calib
146) Cl7(171)		28.23t	394	28280m	0.0772 ng
Corrected Values:				28158	0.0769 ng
147) Cl7(173)		28.30	394	24694m	0.0741 ng
148) Cl8(197)		28.44	428	31595m	0.0787 ng
149) Cl6(156)-S1	(0.265)	28.56tw	357	4529	No Calib
150) Cl6(156)		28.54	360	47872m	0.0859 ng
Corrected Values:				46672	0.0839 ng
151) Cl7(172)		28.57tw	394	27120m	0.0766 ng
152) Cl6(157)		28.63	360	44393m	0.0761 ng
153) Cl7(180)		28.77	394	29788m	0.0734 ng
154) Cl7(193)-S1	(0.309)	28.84t	391	476	No Calib
155) Cl7(193)		28.81	394	38625m	0.0814 ng
Corrected Values:				38478	0.0811 ng
156) Cl8(200)		28.84t	428	30006m	0.0724 ng
157) Cl7(191)		28.94	394	39922m	0.0794 ng
158) Cl7(170)-S1	(0.309)	29.49t	391	3535	No Calib
159) Cl7(170)		29.47	394	27660m	0.0916 ng
Corrected Values:				26568	0.0882 ng
160) Cl8(198)		29.49t	428	22035m	0.0730 ng
161) Cl8(199)		29.53	428	20225m	0.0811 ng
162) Cl7(190)		29.59	394	36611m	0.0774 ng
163) Cl6(169)-S2	(1.610)	29.71t	356	9361	No Calib
164) Cl6(169)		29.67	360	55354	0.1142 ng
Corrected Values:				40283	0.0853 ng
165) Cl8(203)		29.71t	428	22977m	0.0734 ng
166) Cl9(208)		30.21	464	26041m	0.0851 ng
167) Cl7(189)		30.35	394	34985m	0.0918 ng
168) Cl9(207)		30.40	464	25707m	0.0725 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9366.D MF0785.M Tue Mar 17 13:30:56 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9366.D
Acq On : 13 Mar 2015 7:49 pm
Sample : ID18 mid
Misc : 5-315 CCV
MS Integration Params: rteint.p

Vial: 12
Operator: LMG
Inst : Inst. F
Multiplr: 1.00

Quant Time: Mar 15 08:53:45 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Sun Mar 15 08:52:56 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.42	428	20066m	0.0728 ng
Corrected Values:				20066	0.0728 ng
171) Cl8(194)		30.91	428	20206m	0.0870 ng
172) Cl8(205)		31.06	428	25924	0.0817 ng
173) Cl9(206)		31.56	464	16690m	0.0845 ng
174) Cl10(209)		32.06	498	16807m	0.0793 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9366.D MF0785.M Tue Mar 17 13:30:56 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0786\F9375.D
 Acq On : 15 Mar 2015 9:24 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 11
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:51:05 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:50:59 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.12	326	73775m	0.1000	ng
78) Cl6(161)	25.76tw	360	59451m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.30t	255	5276m	0.0000	ng
27) Cl3(34)	15.30t	256	71933m	0.0795	ng
Spiked Amount	0.0800		Recovery	=	98.38%
Corrected Values:			71221	0.0787	ng
114) Cl6(152)	22.45	360	47814m	0.0806	ng
Spiked Amount	0.0803		Recovery	=	100.35%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.76	154	175608m	0.0676	ng
3) Cl1(1)	9.94	188	133982m	0.0707	ng
4) Cl1(3)	11.15	188	134348m	0.0754	ng
5) Cl2(4)	11.43	222	66126m	0.0744	ng
6) Cl2(7)	12.32	222	92947m	0.0779	ng
7) Cl2(9)	12.27	222	124899m	0.0747	ng
8) Cl2(6)	12.56	222	109422m	0.0748	ng
9) Cl2(5)	12.78	222	104410m	0.0743	ng
10) Cl2(8)	12.85	222	115223m	0.0741	ng
11) Cl3(19)	13.32	256	45149m	0.0760	ng
12) Cl3(30)	13.72	256	72748m	0.0787	ng
13) Cl2(11)-S1 (0.135)	14.17t	221	25466	No Calib	
14) Cl2(11)	14.16tw	222	111270m	0.0831	ng
Corrected Values:			107832	0.0806	ng
15) Cl3(18)	14.17t	256	51620m	0.0760	ng
16) Cl3(17)	14.29	256	52876m	0.0775	ng
17) Cl2(12)	14.37	222	105440m	0.0792	ng
18) Cl2(13)-S1 (0.135)	14.52t	221	3022	No Calib	
19) Cl2(13)	14.52t	222	102153m	0.0784	ng
Corrected Values:			101745	0.0781	ng
20) Cl3(27)	14.53tw	256	71451m	0.0738	ng
21) Cl3(24)	14.65	256	69979m	0.0756	ng
22) Cl3(16)	14.85	256	40462m	0.0806	ng
23) Cl2(15)	14.90	222	127902m	0.0853	ng
24) Cl3(32)	14.98	256	72234m	0.0745	ng
25) Cl4(54)	15.31tw	292	68481m	0.0758	ng
28) Cl3(29)	15.54	256	73975m	0.0813	ng
29) Cl3(26)-S1 (0.135)	15.90t	255	16446	No Calib	
30) Cl3(26)	15.85	256	81739m	0.0828	ng
Corrected Values:			79519	0.0806	ng
31) Cl4(50)	15.90t	292	51011m	0.0790	ng
32) Cl3(25)	15.97	256	73477m	0.0787	ng
33) Cl3(31)-S1 (0.135)	16.34tw	255	16778	No Calib	
34) Cl3(31)	16.32	256	82297m	0.0849	ng
Corrected Values:			80032	0.0826	ng
35) Cl4(53)	16.35tw	292	50898m	0.0781	ng
36) Cl3(28)	16.43	256	78084m	0.0788	ng
37) Cl3(33)	16.53	256	70087m	0.0778	ng
38) Cl4(51)	16.61	292	52377m	0.0767	ng

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9375.D MF0785.M Tue Mar 17 13:30:57 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9375.D
 Acq On : 15 Mar 2015 9:24 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 11
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:51:05 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:50:59 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.94	292	43002m	0.0811 ng
40) Cl3(22)		17.03	256	72753m	0.0821 ng
41) Cl4(46)		17.20	292	39335m	0.0807 ng
42) Cl4(43)		17.58	292	46491m	0.0863 ng
43) Cl4(52)		17.64	292	47926m	0.0781 ng
44) Cl4(48)		17.80	292	53538m	0.0849 ng
45) Cl4(49)		17.86	292	48235m	0.0797 ng
46) Cl5(104)		18.04t	326	60621m	0.0805 ng
47) Cl4(47)-S1	(0.174)	18.04t	289	1792	No Calib
48) Cl4(47)		18.05tw	292	62416m	0.0853 ng
Corrected Values:				62104	0.0848 ng
49) Cl4(75)		18.14	292	68221m	0.0768 ng
50) Cl4(44)		18.50	292	46570m	0.0851 ng
51) Cl4(42)		18.70	292	45884m	0.0840 ng
52) Cl4(71)		18.93	292	65857m	0.0827 ng
53) Cl4(41)		19.03	292	40347m	0.0855 ng
54) Cl4(64)		19.31	292	73265m	0.0892 ng
55) Cl4(40)		19.39t	292	35417m	0.0770 ng
56) Cl3(37)-S1	(0.135)	19.39t	255	22619	No Calib
57) Cl3(37)		19.39t	256	77964	0.0853 ng
Corrected Values:				74910	0.0820 ng
58) Cl5(100)		19.75	326	48342m	0.0872 ng
59) Cl4(67)		20.04	292	69422m	0.0891 ng
60) Cl4(63)		20.44	292	67636m	0.0901 ng
61) Cl5(95)		20.58	326	41415m	0.0849 ng
62) Cl4(74)		20.65	292	71928m	0.0843 ng
63) Cl4(70)		20.78	292	71518m	0.0852 ng
64) Cl5(91)-S1	(0.220)	21.03tw	323	726	No Calib
65) Cl5(91)		20.96tw	326	45549	0.0828 ng
Corrected Values:				45389	0.0825 ng
66) Cl4(66)-S1	(0.174)	20.95tw	289	12959	No Calib
67) Cl4(66)-S2	(0.650)	21.02t	288	22996	No Calib
68) Cl4(66)		20.98	292	85607m	0.1036 ng
Corrected Values:				68405	0.0835 ng
69) Cl6(155)		21.02t	360	56020m	0.0810 ng
70) Cl4(80)		21.31	292	68181m	0.0872 ng
71) Cl5(92)		21.59T	326	44566m	0.0819 ng
72) Cl5(84)		21.59T	326	34788m	0.0887 ng
73) Cl4(56)-S1	(0.174)	21.59t	289	23892	No Calib
74) Cl4(56)		21.64	292	72466m	0.0880 ng
Corrected Values:				68309	0.0831 ng
75) Cl4(60)-S1	(0.174)	21.88tw	289	6082	No Calib
76) Cl4(60)		21.91	292	68661m	0.0864 ng
Corrected Values:				67603	0.0851 ng
77) Cl5(101)		21.89tw	326	49623m	0.0859 ng
79) Cl5(99)		22.15	326	49869m	0.0820 ng
80) Cl5(83)		22.56	326	35317m	0.0814 ng
81) Cl5(125)		22.69	326	56967m	0.0813 ng
82) Cl5(97)		22.84	326	41746m	0.0806 ng
83) Cl5(87)		23.29	326	42751m	0.0873 ng

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9375.D MF0785.M Tue Mar 17 13:30:58 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9375.D
 Acq On : 15 Mar 2015 9:24 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 11
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:51:05 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:50:59 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.38	360	47111m	0.0782 ng
85) Cl5(115)		23.51Tw	326	63209m	0.0813 ng
86) Cl6(154)		23.58	360	43198m	0.0773 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.52Tw	326	45551m	0.0800 ng
Corrected Values:				45551	0.0800 ng
89) Cl5(110)		23.82	326	61326m	0.0834 ng
90) Cl4(81)		23.92	292	67479m	0.0846 ng
91) Cl5(82)-S1	(0.220)	24.25t	323	8244	No Calib
92) Cl5(82)		24.25t	326	40313m	0.0882 ng
Corrected Values:				38499	0.0843 ng
93) Cl6(151)		24.25t	360	38492m	0.0854 ng
94) Cl6(135)		24.36	360	35457m	0.0790 ng
95) Cl4(77)-S2	(0.650)	24.48t	288	21398	No Calib
96) Cl4(77)		24.45	292	80615m	0.1017 ng
Corrected Values:				66706	0.0848 ng
97) Cl6(144)		24.48t	360	37781m	0.0781 ng
98) Cl6(149)		24.71	360	39728m	0.0824 ng
99) Cl6(139)		24.83	360	40500m	0.0835 ng
100) Cl5(124)-S1	(0.220)	24.94t	323	6108	No Calib
101) Cl5(124)		24.88	326	66111m	0.0838 ng
Corrected Values:				64767	0.0822 ng
102) Cl6(140)		24.94t	360	37796m	0.0788 ng
103) Cl5(123)		25.08	326	59282m	0.0852 ng
104) Cl6(134)		25.18	360	31972m	0.0839 ng
105) Cl7(188)		25.28tw	394	44080m	0.0817 ng
106) Cl5(118)-S1	(0.220)	25.34t	323	10052	No Calib
107) Cl5(118)-S2	(1.080)	25.27tw	322	15088	No Calib
108) Cl5(118)		25.31	326	79157m	0.1051 ng
Corrected Values:				60651	0.0812 ng
109) Cl6(131)		25.34t	360	34820m	0.0794 ng
110) Cl7(184)		25.57	394	43497m	0.0842 ng
111) Cl6(146)		25.66	360	42625m	0.0843 ng
112) Cl5(114)-S1	(0.220)	25.75tw	323e	835	No Calib
113) Cl5(114)		25.68	326	60817m	0.0821 ng
Corrected Values:				60633	0.0819 ng
115) Cl6(153)		25.91	360	43703m	0.0840 ng
116) Cl7(179)		26.13	394	41734m	0.0854 ng
117) Cl5(105)-S1	(0.220)	26.30tw	323	5175	No Calib
118) Cl5(105)		26.26	326	58608m	0.0872 ng
Corrected Values:				57469	0.0856 ng
119) Cl6(141)		26.31tw	360	35877m	0.0834 ng
120) Cl7(176)		26.39	394	39970m	0.0810 ng
121) Cl6(127)-S1	(0.265)	26.51t	323	4373	No Calib
122) Cl5(127)		26.53	326	63734m	0.0857 ng
123) Cl6(137)		26.51t	360	37181m	0.0858 ng
124) Cl6(130)		26.65	360	34632m	0.0802 ng
125) Cl6(164)		26.71	360	48090m	0.0845 ng
126) Cl6(138)		26.84	360	42078m	0.0802 ng
127) Cl6(163)-S1	(0.265)	26.93t	357	6021	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9375.D MF0785.M Tue Mar 17 13:30:58 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9375.D
 Acq On : 15 Mar 2015 9:24 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 11
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:51:05 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:50:59 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.89	360	47910m	0.0886 ng
Corrected Values:				46314	0.0857 ng
129) Cl7(178)		26.93t	394	30006m	0.0806 ng
130) Cl6(158)		26.98	360	50734m	0.0799 ng
131) Cl7(175)		27.11	394	31439m	0.0865 ng
132) Cl7(187)		27.21	394	34728m	0.0834 ng
133) Cl6(166)-S1	(0.265)	27.38t	357	2612	No Calib
134) Cl6(166)		27.38t	360	49906m	0.0869 ng
Corrected Values:				49214	0.0858 ng
135) Cl7(183)		27.38t	394	33349m	0.0837 ng
136) Cl5(126)		27.53	326	56629m	0.0956 ng
137) Cl6(128)-S1	(0.265)	27.71tw	357	3994	No Calib
138) Cl6(128)		27.69	360	36215m	0.0884 ng
Corrected Values:				35157	0.0859 ng
139) Cl7(185)		27.72tw	394	30333m	0.0865 ng
140) Cl7(174)		27.83	394	29695m	0.0843 ng
141) Cl6(167)		27.93	360	49924m	0.0903 ng
142) Cl8(202)		28.00	428	33646m	0.0839 ng
143) Cl7(177)		28.10	394	28573m	0.0874 ng
144) Cl8(201)		28.23t	428	32880m	0.0831 ng
145) Cl7(171)-S1	(0.309)	28.22tw	391	334	No Calib
146) Cl7(171)		28.23t	394	29722m	0.0853 ng
Corrected Values:				29619	0.0851 ng
147) Cl7(173)		28.31	394	26811m	0.0845 ng
148) Cl8(197)		28.44	428	32873m	0.0861 ng
149) Cl6(156)-S1	(0.265)	28.57t	357	4887	No Calib
150) Cl6(156)		28.53	360	49527m	0.0933 ng
Corrected Values:				48232	0.0910 ng
151) Cl7(172)		28.57t	394	28593m	0.0848 ng
152) Cl6(157)		28.63	360	46617m	0.0840 ng
153) Cl7(180)		28.77	394	33945m	0.0874 ng
154) Cl7(193)-S1	(0.309)	28.85t	391	344	No Calib
155) Cl7(193)		28.82	394	36877m	0.0820 ng
Corrected Values:				36771	0.0818 ng
156) Cl8(200)		28.85t	428	31163m	0.0791 ng
157) Cl7(191)		28.94	394	41552m	0.0868 ng
158) Cl7(170)-S1	(0.309)	29.53t	391	6495	No Calib
159) Cl7(170)		29.48	394	29591m	0.1024 ng
Corrected Values:				27584	0.0960 ng
160) Cl8(198)		29.50	428	22145m	0.0771 ng
161) Cl8(199)		29.53t	428	18093m	0.0767 ng
162) Cl7(190)		29.60	394	38772m	0.0860 ng
163) Cl6(169)-S2	(1.610)	29.71tw	356	9294	No Calib
164) Cl6(169)		29.67	360	57140	0.1235 ng
Corrected Values:				42177	0.0935 ng
165) Cl8(203)		29.72tw	428	24952m	0.0836 ng
166) Cl9(208)		30.21	464	27801m	0.0951 ng
167) Cl7(189)		30.35	394	35406m	0.0974 ng
168) Cl9(207)		30.41tw	464	28203m	0.0833 ng
169) Cl8(195)-S1	(0.400)	30.42t	425	265	No Calib

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9375.D MF0785.M Tue Mar 17 13:30:58 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9375.D
 Acq On : 15 Mar 2015 9:24 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 11
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:51:05 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:50:59 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.42t	428	21537m	0.0821 ng
Corrected Values:				21431	0.0817 ng
171) Cl8(194)		30.91	428	21250m	0.0956 ng
172) Cl8(205)		31.06	428	26073m	0.0863 ng
173) Cl9(206)		31.57	464	16786m	0.0892 ng
174) Cl10(209)		32.07	498	15962m	0.0794 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9375.D MF0785.M Tue Mar 17 13:30:58 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0786\F9386.D
 Acq On : 15 Mar 2015 6:14 pm
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 22
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:27:29 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:26:40 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	93754m	0.1000	ng
78) Cl6(161)	25.77tw	360	78318m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.32t	255	3180m	0.0000	ng
27) Cl3(34)	15.32t	256	44830m	0.0395	ng
Spiked Amount	0.0400			Recovery	= 98.00%
Corrected Values:			44401	0.0392	ng
114) Cl6(152)	22.45	360	32659m	0.0420	ng
Spiked Amount	0.0402			Recovery	= 104.58%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	104750m	0.0316	ng
3) Cl1(1)		9.94	188	82377m	0.0343	ng
4) Cl1(3)		11.15	188	80778m	0.0361	ng
5) Cl2(4)		11.43	222	40283m	0.0358	ng
6) Cl2(7)		12.32	222	58984m	0.0391	ng
7) Cl2(9)		12.29	222	72628m	0.0349	ng
8) Cl2(6)		12.56	222	66549m	0.0362	ng
9) Cl2(5)		12.79	222	62773m	0.0356	ng
10) Cl2(8)		12.86	222	71438m	0.0366	ng
11) Cl3(19)		13.33	256	27916m	0.0373	ng
12) Cl3(30)		13.73	256	43355m	0.0376	ng
13) Cl2(11)-S1 (0.135)		14.17t	221	15207	No Calib	
14) Cl2(11)		14.17t	222	67759m	0.0407	ng
Corrected Values:				65706	0.0396	ng
15) Cl3(18)		14.17t	256	31233m	0.0367	ng
16) Cl3(17)		14.29	256	32031m	0.0374	ng
17) Cl2(12)		14.39	222	62271m	0.0378	ng
18) Cl2(13)-S1 (0.135)		14.53t	221	1533	No Calib	
19) Cl2(13)		14.53t	222	62188m	0.0384	ng
Corrected Values:				61981	0.0383	ng
20) Cl3(27)		14.53t	256	43997m	0.0362	ng
21) Cl3(24)		14.65	256	42458m	0.0365	ng
22) Cl3(16)		14.85	256	24040m	0.0380	ng
23) Cl2(15)		14.92	222	79140m	0.0424	ng
24) Cl3(32)		14.99	256	45109m	0.0370	ng
25) Cl4(54)		15.32t	292	41464m	0.0362	ng
28) Cl3(29)		15.55	256	44704m	0.0395	ng
29) Cl3(26)-S1 (0.135)		15.90t	255	9742	No Calib	
30) Cl3(26)		15.86	256	49139m	0.0401	ng
Corrected Values:				47824	0.0390	ng
31) Cl4(50)		15.90t	292	29964m	0.0371	ng
32) Cl3(25)		15.98	256	45378m	0.0389	ng
33) Cl3(31)-S1 (0.135)		16.35tw	255	10361	No Calib	
34) Cl3(31)		16.33	256	48983m	0.0406	ng
Corrected Values:				47584	0.0395	ng
35) Cl4(53)		16.36tw	292	31160m	0.0383	ng
36) Cl3(28)		16.44	256	46768m	0.0381	ng
37) Cl3(33)		16.54	256	45662m	0.0407	ng
38) Cl4(51)		16.62	292	31760m	0.0372	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9386.D MF0785.M Tue Mar 17 13:31:19 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9386.D
 Acq On : 15 Mar 2015 6:14 pm
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 22
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:27:29 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:26:40 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.95	292	26450m	0.0399 ng
40) Cl3(22)		17.04	256	44049m	0.0401 ng
41) Cl4(46)		17.21	292	23840m	0.0391 ng
42) Cl4(43)		17.60	292	22645m	0.0344 ng
43) Cl4(52)		17.66	292	35220m	0.0458 ng
44) Cl4(48)		17.81	292	28989m	0.0371 ng
45) Cl4(49)		17.86	292	32828m	0.0434 ng
46) Cl5(104)		18.05t	326	36538m	0.0388 ng
47) Cl4(47)-S1	(0.174)	18.05t	289	1192	No Calib
48) Cl4(47)		18.07	292	34742m	0.0377 ng
Corrected Values:				34535	0.0375 ng
49) Cl4(75)		18.15	292	46102m	0.0416 ng
50) Cl4(44)		18.52	292	27948m	0.0412 ng
51) Cl4(42)		18.72	292	27812m	0.0410 ng
52) Cl4(71)		18.94	292	40626m	0.0411 ng
53) Cl4(41)		19.04	292	24893m	0.0425 ng
54) Cl4(64)		19.33	292	44384m	0.0433 ng
55) Cl4(40)		19.41t	292	21506m	0.0375 ng
56) Cl3(37)-S1	(0.135)	19.41t	255	13876	No Calib
57) Cl3(37)		19.41t	256	47021	0.0417 ng
Corrected Values:				45148	0.0401 ng
58) Cl5(100)		19.77	326	29328m	0.0427 ng
59) Cl4(67)		20.07	292	41599m	0.0436 ng
60) Cl4(63)		20.47	292	40368m	0.0440 ng
61) Cl5(95)		20.60	326	26211m	0.0432 ng
62) Cl4(74)		20.66	292	44002m	0.0419 ng
63) Cl4(70)		20.80	292	43400m	0.0419 ng
64) Cl5(91)-S1	(0.220)	21.03tw	323	479	No Calib
65) Cl5(91)		20.96t	326	29019m	0.0424 ng
Corrected Values:				28914	0.0422 ng
66) Cl4(66)-S1	(0.174)	20.96t	289	7820	No Calib
67) Cl4(66)-S2	(0.650)	21.04tw	288	13834	No Calib
68) Cl4(66)		21.00	292	52529m	0.0515 ng
Corrected Values:				42176	0.0418 ng
69) Cl6(155)		21.05tw	360	34466m	0.0399 ng
70) Cl4(80)		21.32	292	42121m	0.0440 ng
71) Cl5(92)		21.61T	326	27972m	0.0417 ng
72) Cl5(84)		21.61T	326	21884m	0.0465 ng
73) Cl4(56)-S1	(0.174)	21.61t	289	15266	No Calib
74) Cl4(56)		21.65	292	44886m	0.0442 ng
Corrected Values:				42230	0.0417 ng
75) Cl4(60)-S1	(0.174)	21.89tw	289	3890	No Calib
76) Cl4(60)		21.92	292	41754m	0.0427 ng
Corrected Values:				41077	0.0421 ng
77) Cl5(101)		21.90tw	326	30472m	0.0429 ng
79) Cl5(99)		22.17	326	31105m	0.0397 ng
80) Cl5(83)		22.57	326	23576m	0.0419 ng
81) Cl5(125)		22.71	326	35552m	0.0392 ng
82) Cl5(97)		22.86	326	26638m	0.0401 ng
83) Cl5(87)		23.30	326	26602m	0.0423 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9386.D MF0785.M Tue Mar 17 13:31:19 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9386.D
 Acq On : 15 Mar 2015 6:14 pm
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 22
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:27:29 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:26:40 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.39	360	29521m	0.0375 ng
85) Cl5(115)		23.52	326	34616m	0.0355 ng
86) Cl6(154)		23.58	360	26875m	0.0374 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.54	326	29535m	0.0395 ng
Corrected Values:				29535	0.0395 ng
89) Cl5(110)		23.83	326	38110m	0.0404 ng
90) Cl4(81)		23.94	292	40763m	0.0402 ng
91) Cl5(82)-S1	(0.220)	24.27t	323	4716	No Calib
92) Cl5(82)		24.26tw	326	25966m	0.0439 ng
Corrected Values:				24928	0.0422 ng
93) Cl6(151)		24.27t	360	21968m	0.0379 ng
94) Cl6(135)		24.36	360	23025m	0.0398 ng
95) Cl4(77)-S2	(0.650)	24.50t	288	13373	No Calib
96) Cl4(77)		24.48	292	49027m	0.0485 ng
Corrected Values:				40335	0.0403 ng
97) Cl6(144)		24.50t	360	23115m	0.0371 ng
98) Cl6(149)		24.72	360	24667m	0.0397 ng
99) Cl6(139)		24.84	360	24328m	0.0391 ng
100) Cl5(124)-S1	(0.220)	24.95t	323	3718	No Calib
101) Cl5(124)		24.90	326	39656m	0.0394 ng
Corrected Values:				38838	0.0386 ng
102) Cl6(140)		24.95t	360	23630m	0.0382 ng
103) Cl5(123)		25.10	326	37916m	0.0426 ng
104) Cl6(134)		25.19	360	19126m	0.0390 ng
105) Cl7(188)		25.30tw	394	27212m	0.0392 ng
106) Cl5(118)-S1	(0.220)	25.35tw	323	6462	No Calib
107) Cl5(118)-S2	(1.080)	25.29tw	322	9409	No Calib
108) Cl5(118)		25.32	326	49347m	0.0511 ng
Corrected Values:				37763	0.0396 ng
109) Cl6(131)		25.36tw	360	22054m	0.0391 ng
110) Cl7(184)		25.58	394	27212m	0.0409 ng
111) Cl6(146)		25.67	360	25381m	0.0395 ng
112) Cl5(114)-S1	(0.220)	25.78tw	323E	1069	No Calib
113) Cl5(114)		25.70	326	39154m	0.0415 ng
Corrected Values:				38919	0.0412 ng
115) Cl6(153)		25.92	360	27397m	0.0408 ng
116) Cl7(179)		26.15	394	24852m	0.0394 ng
117) Cl5(105)-S1	(0.220)	26.32t	323	3288	No Calib
118) Cl5(105)		26.27	326	35997m	0.0423 ng
Corrected Values:				35274	0.0415 ng
119) Cl6(141)		26.32t	360	22702m	0.0415 ng
120) Cl7(176)		26.40	394	24274m	0.0381 ng
121) Cl6(127)-S1	(0.265)	26.52tw	323	2906	No Calib
122) Cl5(127)		26.55	326	40463m	0.0427 ng
123) Cl6(137)		26.53tw	360	22948m	0.0414 ng
124) Cl6(130)		26.67	360	20367m	0.0360 ng
125) Cl6(164)		26.72	360	32131m	0.0437 ng
126) Cl6(138)		26.86	360	27425m	0.0406 ng
127) Cl6(163)-S1	(0.265)	26.95t	357	3618	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9386.D MF0785.M Tue Mar 17 13:31:19 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9386.D
 Acq On : 15 Mar 2015 6:14 pm
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 22
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:27:29 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:26:40 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.91	360	32563m	0.0464 ng
Corrected Values:				31604	0.0450 ng
129) Cl7(178)		26.95t	394	18421m	0.0382 ng
130) Cl6(158)		26.99	360	31230m	0.0383 ng
131) Cl7(175)		27.13	394	19603m	0.0421 ng
132) Cl7(187)		27.22	394	21039m	0.0393 ng
133) Cl6(166)-S1	(0.265)	27.40tw	357	1544	No Calib
134) Cl6(166)		27.39t	360	30749m	0.0419 ng
Corrected Values:				30340	0.0413 ng
135) Cl7(183)		27.39t	394	20555m	0.0403 ng
136) Cl5(126)		27.55	326	35317m	0.0475 ng
137) Cl6(128)-S1	(0.265)	27.72tw	357	2614	No Calib
138) Cl6(128)		27.70	360	22412m	0.0428 ng
Corrected Values:				21719	0.0415 ng
139) Cl7(185)		27.73tw	394	18255m	0.0408 ng
140) Cl7(174)		27.84	394	18008m	0.0401 ng
141) Cl6(167)		27.94	360	31346m	0.0450 ng
142) Cl8(202)		28.01	428	20688m	0.0402 ng
143) Cl7(177)		28.12	394	17636m	0.0424 ng
144) Cl8(201)		28.24t	428	20246m	0.0400 ng
145) Cl7(171)-S1	(0.309)	28.24t	391	283	No Calib
146) Cl7(171)		28.24t	394	18072m	0.0405 ng
Corrected Values:				17985	0.0403 ng
147) Cl7(173)		28.32	394	16534m	0.0408 ng
148) Cl8(197)		28.45	428	20250m	0.0415 ng
149) Cl6(156)-S1	(0.265)	28.58tw	357	2928	No Calib
150) Cl6(156)		28.54	360	30714m	0.0459 ng
Corrected Values:				29938	0.0448 ng
151) Cl7(172)		28.59tw	394	17678m	0.0413 ng
152) Cl6(157)		28.65	360	29111m	0.0414 ng
153) Cl7(180)		28.77	394	19513m	0.0397 ng
154) Cl7(193)-S1	(0.309)	28.85t	391	240	No Calib
155) Cl7(193)		28.83	394	24748m	0.0430 ng
Corrected Values:				24674	0.0429 ng
156) Cl8(200)		28.85t	428	19818m	0.0393 ng
157) Cl7(191)		28.95	394	25684m	0.0423 ng
158) Cl7(170)-S1	(0.309)	29.55t	391	4022	No Calib
159) Cl7(170)		29.49	394	19365m	0.0533 ng
Corrected Values:				18122	0.0501 ng
160) Cl8(198)		29.52	428	15131m	0.0422 ng
161) Cl8(199)		29.55t	428	12829m	0.0423 ng
162) Cl7(190)		29.61	394	24098m	0.0422 ng
163) Cl6(169)-S2	(1.610)	29.72tw	356	5796	No Calib
164) Cl6(169)		29.68	360	36456m	0.0634 ng
Corrected Values:				27124	0.0482 ng
165) Cl8(203)		29.73tw	428	15285m	0.0403 ng
166) Cl9(208)		30.22	464	17460m	0.0475 ng
167) Cl7(189)		30.37	394	20810m	0.0468 ng
168) Cl9(207)		30.42tw	464	17418m	0.0408 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9386.D MF0785.M Tue Mar 17 13:31:20 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9386.D
Acq On : 15 Mar 2015 6:14 pm
Sample : ID17 mid
Misc : 5-315 CCV
MS Integration Params: rteint.p

Vial: 22
Operator: LMG
Inst : Inst. F
Multiplr: 1.00

Quant Time: Mar 16 08:27:29 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Mon Mar 16 08:26:40 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.43tw	428	13461m	0.0401 ng
Corrected Values:				13461	0.0401 ng
171) Cl8(194)		30.93	428	13150m	0.0478 ng
172) Cl8(205)		31.07	428	16148m	0.0427 ng
173) Cl9(206)		31.58	464	10111m	0.0431 ng
174) Cl10(209)		32.08	498	10271m	0.0405 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9386.D MF0785.M Tue Mar 17 13:31:20 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0786\F9395.D
 Acq On : 16 Mar 2015 1:25 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 31
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:28:09 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:28:00 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	215179m	0.1000	ng
78) Cl6(161)	25.77tw	360	176801m	0.1000	ng

System Monitoring Compounds					
26) Cl3(34)-S1	(0.135)	15.31t	255	14962m	0.0000 ng
27) Cl3(34)		15.31t	256	208036m	0.0788 ng
Spiked Amount	0.0800			Recovery	= 97.63%
Corrected Values:				206016	0.0781 ng
114) Cl6(152)		22.45	360	141279m	0.0801 ng
Spiked Amount	0.0803			Recovery	= 99.73%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	499592m	0.0659	ng
3) Cl1(1)		9.94	188	375351m	0.0679	ng
4) Cl1(3)		11.15	188	378800m	0.0729	ng
5) Cl2(4)		11.43	222	186232m	0.0718	ng
6) Cl2(7)		12.32	222e	288564m	0.0829	ng
7) Cl2(9)		12.28	222	302817m	0.0624	ng
8) Cl2(6)		12.56	222e	329764m	0.0773	ng
9) Cl2(5)		12.79	222	302971m	0.0739	ng
10) Cl2(8)		12.86	222e	360150m	0.0793	ng
11) Cl3(19)		13.32	256e	132305m	0.0763	ng
12) Cl3(30)		13.73	256e	210922m	0.0783	ng
13) Cl2(11)-S1	(0.135)	14.17t	221e	74569	No Calib	
14) Cl2(11)		14.17t	222e	311201m	0.0798	ng
Corrected Values:				301134	0.0772	ng
15) Cl3(18)		14.17t	256	145803m	0.0736	ng
16) Cl3(17)		14.29	256e	150014m	0.0754	ng
17) Cl2(12)		14.38	222e	301406m	0.0777	ng
18) Cl2(13)-S1	(0.135)	14.53t	221e	9080	No Calib	
19) Cl2(13)		14.53t	222e	292112m	0.0769	ng
Corrected Values:				290886	0.0766	ng
20) Cl3(27)		14.53t	256e	205929m	0.0729	ng
21) Cl3(24)		14.65	256e	202064m	0.0748	ng
22) Cl3(16)		14.85	256e	114237m	0.0780	ng
23) Cl2(15)		14.91	222e	343159m	0.0786	ng
24) Cl3(32)		14.99	256e	206955m	0.0732	ng
25) Cl4(54)		15.32tw	292e	196256m	0.0745	ng
28) Cl3(29)		15.55	256e	211741m	0.0798	ng
29) Cl3(26)-S1	(0.135)	15.90t	255e	47735	No Calib	
30) Cl3(26)		15.86	256e	233497m	0.0812	ng
Corrected Values:				227053	0.0790	ng
31) Cl4(50)		15.90t	292e	145616m	0.0773	ng
32) Cl3(25)		15.98	256e	209626m	0.0770	ng
33) Cl3(31)-S1	(0.135)	16.36t	255e	50353	No Calib	
34) Cl3(31)		16.32	256e	233551m	0.0826	ng
Corrected Values:				226753	0.0803	ng
35) Cl4(53)		16.36t	292e	146280m	0.0770	ng
36) Cl3(28)		16.44	256e	227367m	0.0787	ng
37) Cl3(33)		16.55	256e	217219m	0.0826	ng
38) Cl4(51)		16.62	292e	152336m	0.0765	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9395.D MF0785.M Tue Mar 17 13:31:40 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9395.D
 Acq On : 16 Mar 2015 1:25 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 31
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:28:09 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:28:00 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.95	292e	128755m	0.0832 ng
40) Cl3(22)		17.03	256e	207611m	0.0803 ng
41) Cl4(46)		17.21	292e	115138m	0.0810 ng
42) Cl4(43)		17.60	292e	124254m	0.0793 ng
43) Cl4(52)		17.65	292e	149749m	0.0835 ng
44) Cl4(48)		17.81	292	140165m	0.0764 ng
45) Cl4(49)		17.87	292e	149986m	0.0848 ng
46) Cl5(104)		18.05tw	326e	174067m	0.0793 ng
47) Cl4(47)-S1	(0.174)	18.04tw	289e	6006	No Calib
48) Cl4(47)		18.06tw	292e	169145m	0.0793 ng
Corrected Values:				168100	0.0788 ng
49) Cl4(75)		18.15	292e	210025m	0.0810 ng
50) Cl4(44)		18.51	292e	135519m	0.0849 ng
51) Cl4(42)		18.72	292e	134495m	0.0844 ng
52) Cl4(71)		18.94	292e	192703m	0.0829 ng
53) Cl4(41)		19.04	292e	119212m	0.0865 ng
54) Cl4(64)		19.32	292e	203338m	0.0850 ng
55) Cl4(40)		19.40t	292e	112235m	0.0835 ng
56) Cl3(37)-S1	(0.135)	19.40t	255e	66765	No Calib
57) Cl3(37)		19.41tw	256e	225781m	0.0847 ng
Corrected Values:				216768	0.0814 ng
58) Cl5(100)		19.77	326e	140825m	0.0871 ng
59) Cl4(67)		20.06	292e	205569m	0.0904 ng
60) Cl4(63)		20.46	292e	194316m	0.0888 ng
61) Cl5(95)		20.59	326e	120740m	0.0849 ng
62) Cl4(74)		20.66	292e	203943m	0.0820 ng
63) Cl4(70)		20.80	292e	210512m	0.0860 ng
64) Cl5(91)-S1	(0.220)	21.05tw	323e	2562	No Calib
65) Cl5(91)		20.96t	326e	136158m	0.0848 ng
Corrected Values:				135594	0.0845 ng
66) Cl4(66)-S1	(0.174)	20.96t	289e	38340	No Calib
67) Cl4(66)-S2	(0.650)	21.03tw	288	68392	No Calib
68) Cl4(66)		21.00	292e	250126m	0.1038 ng
Corrected Values:				199000	0.0833 ng
69) Cl6(155)		21.04tw	360e	164809m	0.0817 ng
70) Cl4(80)		21.32	292e	200324m	0.0878 ng
71) Cl5(92)		21.60t	326	113034m	0.0716 ng
72) Cl5(84)		21.61Tw	326	95551m	0.0841 ng
73) Cl4(56)-S1	(0.174)	21.60t	289e	71737	No Calib
74) Cl4(56)		21.65	292e	210177m	0.0875 ng
Corrected Values:				197695	0.0825 ng
75) Cl4(60)-S1	(0.174)	21.90t	289e	18415	No Calib
76) Cl4(60)		21.92	292e	200228m	0.0864 ng
Corrected Values:				197024	0.0851 ng
77) Cl5(101)		21.90t	326e	145396m	0.0863 ng
79) Cl5(99)		22.17	326e	146447m	0.0810 ng
80) Cl5(83)		22.57	326e	102199m	0.0792 ng
81) Cl5(125)		22.71	326e	162588m	0.0781 ng
82) Cl5(97)		22.85	326e	125917m	0.0817 ng
83) Cl5(87)		23.31	326e	124490m	0.0855 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9395.D MF0785.M Tue Mar 17 13:31:40 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9395.D
 Acq On : 16 Mar 2015 1:25 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 31
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:28:09 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:28:00 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.39	360e	139594m	0.0779 ng
85) Cl5(115)		23.53Tw	326	156109m	0.0683 ng
86) Cl6(154)		23.59	360e	129575m	0.0780 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.54Tw	326e	137785m	0.0814 ng
Corrected Values:				137785	0.0814 ng
89) Cl5(110)		23.82	326e	178456m	0.0817 ng
90) Cl4(81)		23.94	292e	196012m	0.0827 ng
91) Cl5(82)-S1	(0.220)	24.27t	323e	22226	No Calib
92) Cl5(82)		24.27t	326e	116072m	0.0854 ng
Corrected Values:				111182	0.0819 ng
93) Cl6(151)		24.27t	360e	108897m	0.0813 ng
94) Cl6(135)		24.36	360e	107733m	0.0807 ng
95) Cl4(77)-S2	(0.650)	24.49t	288e	63714	No Calib
96) Cl4(77)		24.47	292e	232305m	0.0987 ng
Corrected Values:				190891	0.0817 ng
97) Cl6(144)		24.49t	360e	113407m	0.0788 ng
98) Cl6(149)		24.72	360e	114498m	0.0799 ng
99) Cl6(139)		24.84	360e	115327m	0.0800 ng
100) Cl5(124)-S1	(0.220)	24.95t	323e	18114	No Calib
101) Cl5(124)		24.90	326e	190550m	0.0813 ng
Corrected Values:				186565	0.0797 ng
102) Cl6(140)		24.95t	360e	113737m	0.0797 ng
103) Cl5(123)		25.09	326e	181408m	0.0875 ng
104) Cl6(134)		25.19	360e	93346m	0.0824 ng
105) Cl7(188)		25.30tw	394e	128892m	0.0804 ng
106) Cl5(118)-S1	(0.220)	25.35t	323e	30660	No Calib
107) Cl5(118)-S2	(1.080)	25.29tw	322e	45634	No Calib
108) Cl5(118)		25.32	326e	234940m	0.1049 ng
Corrected Values:				178910	0.0806 ng
109) Cl6(131)		25.35t	360e	100501m	0.0771 ng
110) Cl7(184)		25.57	394e	127103m	0.0828 ng
111) Cl6(146)		25.67	360e	120228m	0.0802 ng
112) Cl5(114)-S1	(0.220)	25.76tw	323E	1870	No Calib
113) Cl5(114)		25.69	326e	180822m	0.0821 ng
Corrected Values:				180411	0.0819 ng
115) Cl6(153)		25.91	360e	128448m	0.0830 ng
116) Cl7(179)		26.15	394e	121040m	0.0834 ng
117) Cl5(105)-S1	(0.220)	26.32t	323e	14875	No Calib
118) Cl5(105)		26.27	326e	172054m	0.0862 ng
Corrected Values:				168781	0.0846 ng
119) Cl6(141)		26.32t	360e	106873m	0.0835 ng
120) Cl7(176)		26.40	394e	117869m	0.0803 ng
121) Cl6(127)-S1	(0.265)	26.52t	323e	12246	No Calib
122) Cl5(127)		26.54	326e	179991m	0.0816 ng
123) Cl6(137)		26.52t	360e	108082m	0.0839 ng
124) Cl6(130)		26.66	360e	95790m	0.0746 ng
125) Cl6(164)		26.72	360e	146901m	0.0867 ng
126) Cl6(138)		26.86	360	109002m	0.0702 ng
127) Cl6(163)-S1	(0.265)	26.94t	357e	18396	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9395.D MF0785.M Tue Mar 17 13:31:40 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9395.D
 Acq On : 16 Mar 2015 1:25 am
 Sample : ID18 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 31
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:28:09 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:28:00 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.90	360e	149735m	0.0929 ng
Corrected Values:				144860	0.0900 ng
129) Cl7(178)		26.94t	394e	89249m	0.0806 ng
130) Cl6(158)		26.99	360e	151505m	0.0803 ng
131) Cl7(175)		27.13	394e	90719m	0.0841 ng
132) Cl7(187)		27.22	394e	103997m	0.0840 ng
133) Cl6(166) -S1	(0.265)	27.39t	357e	7899	No Calib
134) Cl6(166)		27.39t	360e	147417m	0.0864 ng
Corrected Values:				145324	0.0852 ng
135) Cl7(183)		27.39t	394e	96872m	0.0818 ng
136) Cl5(126)		27.55	326e	162619m	0.0925 ng
137) Cl6(128) -S1	(0.265)	27.73t	357e	11662	No Calib
138) Cl6(128)		27.70	360e	104454m	0.0858 ng
Corrected Values:				101364	0.0834 ng
139) Cl7(185)		27.73t	394e	86556m	0.0832 ng
140) Cl7(174)		27.84	394e	88255m	0.0843 ng
141) Cl6(167)		27.94	360e	141891m	0.0866 ng
142) Cl8(202)		28.00	428e	98637m	0.0827 ng
143) Cl7(177)		28.11	394e	80948m	0.0835 ng
144) Cl8(201)		28.24t	428e	96273m	0.0819 ng
145) Cl7(171) -S1	(0.309)	28.24t	391e	1035	No Calib
146) Cl7(171)		28.24t	394e	85089m	0.0823 ng
Corrected Values:				84769	0.0820 ng
147) Cl7(173)		28.32	394e	78427m	0.0831 ng
148) Cl8(197)		28.45	428e	95899m	0.0845 ng
149) Cl6(156) -S1	(0.265)	28.58t	357e	13936	No Calib
150) Cl6(156)		28.54	360e	145328m	0.0921 ng
Corrected Values:				141635	0.0899 ng
151) Cl7(172)		28.58t	394e	82759m	0.0826 ng
152) Cl6(157)		28.64	360e	136251m	0.0826 ng
153) Cl7(180)		28.78	394e	95594m	0.0830 ng
154) Cl7(193) -S1	(0.309)	28.86t	391e	1000	No Calib
155) Cl7(193)		28.82	394e	111090m	0.0830 ng
Corrected Values:				110781	0.0828 ng
156) Cl8(200)		28.86t	428e	92193m	0.0787 ng
157) Cl7(191)		28.95	394e	120246m	0.0846 ng
158) Cl7(170) -S1	(0.309)	29.54t	391e	19750	No Calib
159) Cl7(170)		29.49	394e	88465m	0.1028 ng
Corrected Values:				82362	0.0963 ng
160) Cl8(198)		29.53tw	428e	73745m	0.0857 ng
161) Cl8(199)		29.54t	428e	57055m	0.0811 ng
162) Cl7(190)		29.60	394e	113699m	0.0848 ng
163) Cl6(169) -S2	(1.610)	29.72tw	356	27371	No Calib
164) Cl6(169)		29.68	360e	166903m	0.1215 ng
Corrected Values:				122836	0.0917 ng
165) Cl8(203)		29.73tw	428e	72241m	0.0815 ng
166) Cl9(208)		30.22	464e	80662m	0.0929 ng
167) Cl7(189)		30.37	394e	106813m	0.0986 ng
168) Cl9(207)		30.42t	464e	81008m	0.0806 ng
169) Cl8(195) -S1	(0.400)	30.42t	425e	486	No Calib

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9395.D MF0785.M Tue Mar 17 13:31:41 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9395.D
Acq On : 16 Mar 2015 1:25 am
Sample : ID18 mid
Misc : 5-315 CCV
MS Integration Params: rteint.p

Vial: 31
Operator: LMG
Inst : Inst. F
Multiplr: 1.00

Quant Time: Mar 16 08:28:09 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Mon Mar 16 08:28:00 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.43tw	428e	61262m	0.0787 ng
Corrected Values:				61068	0.0784 ng
171) Cl8(194)		30.93	428e	62427m	0.0946 ng
172) Cl8(205)		31.07	428e	77480m	0.0862 ng
173) Cl9(206)		31.58	464e	50821m	0.0907 ng
174) Cl10(209)		32.07	498e	49747m	0.0830 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9395.D MF0785.M Tue Mar 17 13:31:41 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0786\F9404.D
 Acq On : 16 Mar 2015 10:33 am
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 40
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 13:40:16 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 13:39:13 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	92376m	0.1000	ng
78) Cl6(161)	25.77tw	360	79815m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.31t	255	3132m	0.0000	ng
27) Cl3(34)	15.31t	256	45259m	0.0405	ng
Spiked Amount	0.0400			Recovery	= 100.25%
Corrected Values:			44836	0.0401	ng
114) Cl6(152)	22.45	360	31016m	0.0392	ng
Spiked Amount	0.0402			Recovery	= 97.61%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	115559m	0.0354	ng
3) Cl1(1)		9.94	188	85447m	0.0361	ng
4) Cl1(3)		11.15	188	85697m	0.0388	ng
5) Cl2(4)		11.43	222	42533m	0.0384	ng
6) Cl2(7)		12.32	222	66753m	0.0448	ng
7) Cl2(9)		12.28	222	69020m	0.0337	ng
8) Cl2(6)		12.56	222	68897m	0.0380	ng
9) Cl2(5)		12.78	222	62632m	0.0360	ng
10) Cl2(8)		12.86	222	69663m	0.0362	ng
11) Cl3(19)		13.32	256	28646m	0.0388	ng
12) Cl3(30)		13.72	256	44946m	0.0395	ng
13) Cl2(11)-S1 (0.135)		14.17t	221	15380	No Calib	
14) Cl2(11)		14.16tw	222	69105m	0.0421	ng
Corrected Values:				67029	0.0409	ng
15) Cl3(18)		14.17t	256	31108m	0.0371	ng
16) Cl3(17)		14.29	256	34029m	0.0403	ng
17) Cl2(12)		14.38	222	65345m	0.0401	ng
18) Cl2(13)-S1 (0.135)		14.52t	221	1694	No Calib	
19) Cl2(13)		14.52t	222	61519m	0.0385	ng
Corrected Values:				61290	0.0384	ng
20) Cl3(27)		14.53tw	256	42948m	0.0359	ng
21) Cl3(24)		14.65	256	41748m	0.0364	ng
22) Cl3(16)		14.84	256	24003m	0.0385	ng
23) Cl2(15)		14.91	222	81363m	0.0441	ng
24) Cl3(32)		14.98	256	45743m	0.0381	ng
25) Cl4(54)		15.32tw	292	42722m	0.0378	ng
28) Cl3(29)		15.54	256	45013m	0.0403	ng
29) Cl3(26)-S1 (0.135)		15.90t	255	9745	No Calib	
30) Cl3(26)		15.86	256	48028m	0.0398	ng
Corrected Values:				46712	0.0387	ng
31) Cl4(50)		15.90t	292	30536m	0.0383	ng
32) Cl3(25)		15.98	256	46621m	0.0406	ng
33) Cl3(31)-S1 (0.135)		16.35tw	255	10564	No Calib	
34) Cl3(31)		16.32	256	50453m	0.0424	ng
Corrected Values:				49027	0.0412	ng
35) Cl4(53)		16.36tw	292	31466m	0.0392	ng
36) Cl3(28)		16.43	256	46244m	0.0382	ng
37) Cl3(33)		16.54	256	46093m	0.0417	ng
38) Cl4(51)		16.62	292	32620m	0.0387	ng

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 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9404.D MF0785.M Tue Mar 17 13:31:55 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9404.D
 Acq On : 16 Mar 2015 10:33 am
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 40
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 13:40:16 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 13:39:13 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.95	292	27562m	0.0421 ng
40) Cl3(22)		17.03	256	45975m	0.0424 ng
41) Cl4(46)		17.21	292	25220m	0.0419 ng
42) Cl4(43)		17.59	292	25269m	0.0387 ng
43) Cl4(52)		17.65	292	33704m	0.0446 ng
44) Cl4(48)		17.81	292	28008m	0.0364 ng
45) Cl4(49)		17.86	292	34410m	0.0461 ng
46) Cl5(104)		18.05tw	326	36636m	0.0395 ng
47) Cl4(47)-S1	(0.174)	18.04tw	289	1146	No Calib
48) Cl4(47)		18.06tw	292	34144m	0.0376 ng
Corrected Values:				33945	0.0374 ng
49) Cl4(75)		18.14	292	40904m	0.0376 ng
50) Cl4(44)		18.50	292	28121m	0.0420 ng
51) Cl4(42)		18.71	292	27634m	0.0413 ng
52) Cl4(71)		18.94	292	39647m	0.0408 ng
53) Cl4(41)		19.03	292	25334m	0.0438 ng
54) Cl4(64)		19.32	292	43350m	0.0430 ng
55) Cl4(40)		19.39tw	292	23789m	0.0419 ng
56) Cl3(37)-S1	(0.135)	19.40t	255	13265	No Calib
57) Cl3(37)		19.40t	256	45535	0.0410 ng
Corrected Values:				43744	0.0395 ng
58) Cl5(100)		19.77	326	28881m	0.0427 ng
59) Cl4(67)		20.06	292	41376m	0.0440 ng
60) Cl4(63)		20.45	292	39580m	0.0438 ng
61) Cl5(95)		20.59	326	25722m	0.0430 ng
62) Cl4(74)		20.66	292	42457m	0.0411 ng
63) Cl4(70)		20.79	292	43809m	0.0428 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.96tw	326	27627m	0.0410 ng
Corrected Values:				27627	0.0410 ng
66) Cl4(66)-S1	(0.174)	20.95tw	289	7937	No Calib
67) Cl4(66)-S2	(0.650)	21.02tw	288	13875	No Calib
68) Cl4(66)		20.99	292	51548m	0.0513 ng
Corrected Values:				41148	0.0414 ng
69) Cl6(155)		21.03tw	360	34355m	0.0404 ng
70) Cl4(80)		21.32	292	42524m	0.0450 ng
71) Cl5(92)		21.60t	326	28018m	0.0424 ng
72) Cl5(84)		21.61Tw	326	18774m	0.0408 ng
73) Cl4(56)-S1	(0.174)	21.60t	289	15814	No Calib
74) Cl4(56)		21.65	292	46591m	0.0465 ng
Corrected Values:				43839	0.0439 ng
75) Cl4(60)-S1	(0.174)	21.90tw	289	4014	No Calib
76) Cl4(60)		21.92	292	43551m	0.0451 ng
Corrected Values:				42853	0.0444 ng
77) Cl5(101)		21.89tw	326	31131m	0.0444 ng
79) Cl5(99)		22.16	326	31170m	0.0391 ng
80) Cl5(83)		22.57	326	22361m	0.0391 ng
81) Cl5(125)		22.71	326	34128m	0.0370 ng
82) Cl5(97)		22.84	326	25459m	0.0377 ng
83) Cl5(87)		23.30	326	26066m	0.0407 ng

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 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9404.D MF0785.M Tue Mar 17 13:31:55 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9404.D
 Acq On : 16 Mar 2015 10:33 am
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 40
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 13:40:16 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 13:39:13 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.38	360	29344m	0.0366 ng
85) Cl5(115)		23.51	326	34331m	0.0346 ng
86) Cl6(154)		23.58	360	26191m	0.0358 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.53	326	29661m	0.0389 ng
Corrected Values:				29661	0.0389 ng
89) Cl5(110)		23.82	326	37287m	0.0388 ng
90) Cl4(81)		23.94	292	38539m	0.0374 ng
91) Cl5(82)-S1	(0.220)	24.26t	323	4640	No Calib
92) Cl5(82)		24.26t	326	23888m	0.0398 ng
Corrected Values:				22867	0.0381 ng
93) Cl6(151)		24.26t	360	21137m	0.0358 ng
94) Cl6(135)		24.36	360	22780m	0.0387 ng
95) Cl4(77)-S2	(0.650)	24.48tw	288	13464	No Calib
96) Cl4(77)		24.47tw	292	48913m	0.0475 ng
Corrected Values:				40161	0.0394 ng
97) Cl6(144)		24.49tw	360	23384m	0.0368 ng
98) Cl6(149)		24.72	360	24033m	0.0380 ng
99) Cl6(139)		24.84	360	24296m	0.0384 ng
100) Cl5(124)-S1	(0.220)	24.95t	323	3802	No Calib
101) Cl5(124)		24.89	326	39284m	0.0383 ng
Corrected Values:				38448	0.0375 ng
102) Cl6(140)		24.95t	360	23628m	0.0375 ng
103) Cl5(123)		25.10	326	36584m	0.0404 ng
104) Cl6(134)		25.19	360	18718m	0.0375 ng
105) Cl7(188)		25.28t	394	26056m	0.0369 ng
106) Cl5(118)-S1	(0.220)	25.34tw	323	6204	No Calib
107) Cl5(118)-S2	(1.080)	25.28t	322	9402	No Calib
108) Cl5(118)		25.32	326	47970m	0.0488 ng
Corrected Values:				36451	0.0376 ng
109) Cl6(131)		25.35tw	360	20957m	0.0366 ng
110) Cl7(184)		25.58	394	26321m	0.0389 ng
111) Cl6(146)		25.67	360	24612m	0.0377 ng
112) Cl5(114)-S1	(0.220)	25.76tw	323E	943	No Calib
113) Cl5(114)		25.69	326	37795m	0.0394 ng
Corrected Values:				37588	0.0392 ng
115) Cl6(153)		25.91	360	26987m	0.0395 ng
116) Cl7(179)		26.14	394	25642m	0.0399 ng
117) Cl5(105)-S1	(0.220)	26.31t	323	3222	No Calib
118) Cl5(105)		26.27	326	37856m	0.0435 ng
Corrected Values:				37147	0.0428 ng
119) Cl6(141)		26.31t	360	22642m	0.0406 ng
120) Cl7(176)		26.39	394	24549m	0.0379 ng
121) Cl6(127)-S1	(0.265)	26.52t	323	2727	No Calib
122) Cl5(127)		26.54	326	40866m	0.0424 ng
123) Cl6(137)		26.52t	360	23610m	0.0418 ng
124) Cl6(130)		26.66	360	22784m	0.0394 ng
125) Cl6(164)		26.71	360	31159m	0.0417 ng
126) Cl6(138)		26.85	360	26189m	0.0381 ng
127) Cl6(163)-S1	(0.265)	26.94t	357	3902	No Calib

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 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9404.D MF0785.M Tue Mar 17 13:31:55 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9404.D
 Acq On : 16 Mar 2015 10:33 am
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 40
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 13:40:16 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 13:39:13 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.89	360	31413m	0.0439 ng
Corrected Values:				30379	0.0425 ng
129) Cl7(178)		26.94t	394	18820m	0.0383 ng
130) Cl6(158)		26.99	360	32878m	0.0395 ng
131) Cl7(175)		27.12	394	19941m	0.0420 ng
132) Cl7(187)		27.22	394	22233m	0.0407 ng
133) Cl6(166) -S1	(0.265)	27.39t	357	1770	No Calib
134) Cl6(166)		27.39t	360	31011m	0.0415 ng
Corrected Values:				30542	0.0409 ng
135) Cl7(183)		27.39t	394	21077m	0.0406 ng
136) Cl5(126)		27.55	326	33499m	0.0444 ng
137) Cl6(128) -S1	(0.265)	27.72t	357	2408	No Calib
138) Cl6(128)		27.70	360	21731m	0.0408 ng
Corrected Values:				21093	0.0397 ng
139) Cl7(185)		27.72t	394	17926m	0.0394 ng
140) Cl7(174)		27.83	394	17717m	0.0388 ng
141) Cl6(167)		27.93	360	29509m	0.0418 ng
142) Cl8(202)		28.00	428	19658m	0.0376 ng
143) Cl7(177)		28.11	394	17539m	0.0414 ng
144) Cl8(201)		28.23t	428	20049m	0.0389 ng
145) Cl7(171) -S1	(0.309)	28.23t	391	224	No Calib
146) Cl7(171)		28.24tw	394	18193m	0.0400 ng
Corrected Values:				18124	0.0398 ng
147) Cl7(173)		28.31	394	15926m	0.0387 ng
148) Cl8(197)		28.45	428	19351m	0.0391 ng
149) Cl6(156) -S1	(0.265)	28.58t	357	2883	No Calib
150) Cl6(156)		28.54	360	28900m	0.0426 ng
Corrected Values:				28136	0.0415 ng
151) Cl7(172)		28.58t	394	17180m	0.0395 ng
152) Cl6(157)		28.64	360	28048m	0.0393 ng
153) Cl7(180)		28.77	394	17305m	0.0348 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.82	394	25050m	0.0427 ng
Corrected Values:				25050	0.0427 ng
156) Cl8(200)		28.85	428	19516m	0.0380 ng
157) Cl7(191)		28.95	394	25359m	0.0411 ng
158) Cl7(170) -S1	(0.309)	29.53tw	391	3814	No Calib
159) Cl7(170)		29.49tw	394	18044m	0.0490 ng
Corrected Values:				16865	0.0460 ng
160) Cl8(198)		29.50tw	428	13182m	0.0366 ng
161) Cl8(199)		29.54tw	428	13197m	0.0426 ng
162) Cl7(190)		29.61	394	23016m	0.0398 ng
163) Cl6(169) -S2	(1.610)	29.72tw	356	5578	No Calib
164) Cl6(169)		29.68	360	34204m	0.0587 ng
Corrected Values:				25223	0.0443 ng
165) Cl8(203)		29.73tw	428	14636m	0.0380 ng
166) Cl9(208)		30.21	464	16770m	0.0449 ng
167) Cl7(189)		30.36	394	20809m	0.0460 ng
168) Cl9(207)		30.41tw	464	16884m	0.0389 ng
169) Cl8(195) -S1	(0.400)	30.42tw	425	137	No Calib

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 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9404.D MF0785.M Tue Mar 17 13:31:55 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9404.D
 Acq On : 16 Mar 2015 10:33 am
 Sample : ID17 mid
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 40
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 13:40:16 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 13:39:13 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID17) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.43tw	428	13061m	0.0382 ng
Corrected Values:				13006	0.0381 ng
171) Cl8(194)		30.92	428	12909m	0.0462 ng
172) Cl8(205)		31.07	428	17190m	0.0445 ng
173) Cl9(206)		31.58	464	10767m	0.0449 ng
174) Cl10(209)		32.07	498	11881m	0.0456 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9404.D MF0785.M Tue Mar 17 13:31:56 2015 040221CFS

Page 5

Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 11:24:50 2015
 Response via : Initial Calibration
 Standard Mult: 1.000 ()
 Total Cpnds : 174

ID13 =F9408.D ID15 =F9410.D ID16 =F9411.D ID18 =F9413.D
 ID19 =F9414.D ID20 =F9415.D

Compound			ID13	ID15	ID16	ID18	ID19	ID20

1	i	Cl5(96)	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000
2		Biphenyl	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
3	P1	Cl1(1)	0.00250	0.01001	0.02002	0.08008	0.16016	0.32032
4	P1	Cl1(3)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
5	P2	Cl2(4)	0.00251	0.01003	0.02006	0.08024	0.16048	0.32096
6		Cl2(7)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
7		Cl2(9)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
8		Cl2(6)	0.00250	0.01002	0.02004	0.08016	0.16032	0.32064
9		Cl2(5)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
10		Cl2(8)	0.00250	0.01002	0.02004	0.08016	0.16032	0.32064
11	P3	Cl3(19)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
12		Cl3(30)	0.00250	0.01002	0.02004	0.08016	0.16032	0.32064
13		Cl2(11)-S1	-----	-----	-----	-----	-----	-----
14		Cl2(11)	0.00251	0.01003	0.02006	0.08024	0.16048	0.32096
15		Cl3(18)	0.00251	0.01005	0.02010	0.08040	0.16080	0.32160
16		Cl3(17)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
17		Cl2(12)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
18		Cl2(13)-S1	-----	-----	-----	-----	-----	-----
19		Cl2(13)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
20		Cl3(27)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
21		Cl3(24)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
22		Cl3(16)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
23	P2	Cl2(15)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
24		Cl3(32)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
25	P4	Cl4(54)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
26	S	Cl3(34)-S1	-----	-----	-----	-----	-----	-----
27	S	Cl3(34)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
28		Cl3(29)	0.00250	0.01001	0.02002	0.08008	0.16016	0.32032
29		Cl3(26)-S1	-----	-----	-----	-----	-----	-----
30		Cl3(26)	0.00250	0.01001	0.02002	0.08008	0.16016	0.32032
31		Cl4(50)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
32		Cl3(25)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
33		Cl3(31)-S1	-----	-----	-----	-----	-----	-----
34		Cl3(31)	0.00251	0.01005	0.02010	0.08040	0.16080	0.32160
35		Cl4(53)	0.00251	0.01003	0.02006	0.08024	0.16048	0.32096
36		Cl3(28)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
37		Cl3(33)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
38		Cl4(51)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
39		Cl4(45)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
40		Cl3(22)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
41		Cl4(46)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
42		Cl4(43)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
43		Cl4(52)	0.00250	0.01001	0.02002	0.08008	0.16016	0.32032
44		Cl4(48)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
45		Cl4(49)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
46	P5	Cl5(104)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
47		Cl4(47)-S1	-----	-----	-----	-----	-----	-----
48		Cl4(47)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
49		Cl4(75)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
50		Cl4(44)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
51		Cl4(42)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
52		Cl4(71)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
53		Cl4(41)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
54		Cl4(64)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
55		Cl4(40)	0.00251	0.01005	0.02010	0.08040	0.16080	0.32160
56		Cl3(37)-S1	-----	-----	-----	-----	-----	-----
57	J1	Cl3(37)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
58		Cl5(100)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
59		Cl4(67)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
60		Cl4(63)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
61		Cl5(95)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
62		Cl4(74)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
63		Cl4(70)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
64		Cl5(91)-S1	-----	-----	-----	-----	-----	-----
65		Cl5(91)	0.00251	0.01005	0.02010	0.08040	0.16080	0.32160

66		C14 (66) -S1	-----	-----	-----	-----	-----	
67		C14 (66) -S2	-----	-----	-----	-----	-----	330 of 602
68		C14 (66)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
69	P6	C16 (155)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
70		C14 (80)	0.00251	0.01005	0.02010	0.08040	0.16080	0.32160
71		C15 (92)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
72		C15 (84)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
73		C14 (56) -S1	-----	-----	-----	-----	-----	
74		C14 (56)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
75		C14 (60) -S1	-----	-----	-----	-----	-----	
76		C14 (60)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
77		C15 (101)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
78	i	C16 (161)	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000
79		C15 (99)	0.00250	0.01002	0.02004	0.08016	0.16032	0.32064
80		C15 (83)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
81		C15 (125)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
82		C15 (97)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
83		C15 (87)	0.00249	0.00997	0.01994	0.07976	0.15952	0.31904
84		C16 (136)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
85		C15 (115)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
86		C16 (154)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
87		C15 (85) -S1	-----	-----	-----	-----	-----	
88		C15 (85)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
89		C15 (110)	0.00250	0.01001	0.02002	0.08008	0.16016	0.32032
90		C14 (81)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
91		C15 (82) -S1	-----	-----	-----	-----	-----	
92		C15 (82)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
93		C16 (151)	0.00250	0.01002	0.02004	0.08016	0.16032	0.32064
94		C16 (135)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
95		C14 (77) -S2	-----	-----	-----	-----	-----	
96	P4	C14 (77)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
97		C16 (144)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
98		C16 (149)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
99		C16 (139)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
100		C15 (124) -S1	-----	-----	-----	-----	-----	
101		C15 (124)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
102		C16 (140)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
103		C15 (123)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
104		C16 (134)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
105	P7	C17 (188)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
106		C15 (118) -S1	-----	-----	-----	-----	-----	
107		C15 (118) -S2	-----	-----	-----	-----	-----	
108		C15 (118)	0.00250	0.01002	0.02004	0.08016	0.16032	0.32064
109		C16 (131)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
110		C17 (184)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
111		C16 (146)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
112		C15 (114) -S1	-----	-----	-----	-----	-----	
113		C15 (114)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
114	S	C16 (152)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
115		C16 (153)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
116		C17 (179)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
117		C15 (105) -S1	-----	-----	-----	-----	-----	
118		C15 (105)	0.00250	0.01001	0.02002	0.08008	0.16016	0.32032
119		C16 (141)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
120		C17 (176)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
121		C16 (127) -S1	-----	-----	-----	-----	-----	
122		C15 (127)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
123		C16 (137)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
124		C16 (130)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
125		C16 (164)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
126		C16 (138)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
127		C16 (163) -S1	-----	-----	-----	-----	-----	
128		C16 (163)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
129		C17 (178)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
130		C16 (158)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
131		C17 (175)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
132		C17 (187)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
133		C16 (166) -S1	-----	-----	-----	-----	-----	
134		C16 (166)	0.00251	0.01005	0.02010	0.08040	0.16080	0.32160
135		C17 (183)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
136	P5	C15 (126)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
137		C16 (128) -S1	-----	-----	-----	-----	-----	
138		C16 (128)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
139		C17 (185)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
140		C17 (174)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000
141		C16 (167)	0.00250	0.01002	0.02004	0.08016	0.16032	0.32064
142	P8	C18 (202)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128
143		C17 (177)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000

144	Cl8 (201)	0.00250	0.01001	0.02002	0.08008	0.16016	0.32032	
145	Cl7 (171) -S1	-----	-----	-----	-----	-----	-----	331 of 602
146	Cl7 (171)	0.00251	0.01005	0.02010	0.08040	0.16080	0.32160	
147	Cl7 (173)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128	
148	Cl8 (197)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000	
149	Cl6 (156) -S1	-----	-----	-----	-----	-----	-----	
150	Cl6 (156)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000	
151	Cl7 (172)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000	
152	Cl6 (157)	0.00251	0.01005	0.02010	0.08040	0.16080	0.32160	
153	Cl7 (180)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000	
154	Cl7 (193) -S1	-----	-----	-----	-----	-----	-----	
155	Cl7 (193)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128	
156	Cl8 (200)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000	
157	Cl7 (191)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128	
158	Cl7 (170) -S1	-----	-----	-----	-----	-----	-----	
159	Cl7 (170)	0.00251	0.01005	0.02010	0.08040	0.16080	0.32160	
160	Cl8 (198)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128	
161	Cl8 (199)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000	
162	Cl7 (190)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128	
163	Cl6 (169) -S2	-----	-----	-----	-----	-----	-----	
164	P6 Cl6 (169)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128	
165	Cl8 (203)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000	
166	P9 Cl9 (208)	0.00251	0.01004	0.02008	0.08032	0.16064	0.32128	
167	P7 Cl7 (189)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000	
168	Cl9 (207)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000	
169	Cl8 (195) -S1	-----	-----	-----	-----	-----	-----	
170	Cl8 (195)	0.00250	0.01002	0.02004	0.08016	0.16032	0.32064	
171	Cl8 (194)	0.00250	0.01002	0.02004	0.08016	0.16032	0.32064	
172	P8 Cl8 (205)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000	
173	P9 Cl9 (206)	0.00250	0.01000	0.02000	0.08000	0.16000	0.32000	
174	Cl10 (209)	0.00250	0.01002	0.02004	0.08016	0.16032	0.32064	

Standards Loaded From LIMS

Solution ID : ID13 - 315 Curve Level 1
Last Updated : 8/21/2014 4:00:06 PM
Create Date : Jul 25 2014 12:00AM DMS
Expire Date : 6/30/2015
Approval Date: Not Approved
Override Date: No Override

Solution ID : ID15 - 315 Curve Level 3
Last Updated : 8/21/2014 4:00:06 PM
Create Date : Jul 25 2014 12:00AM DMS
Expire Date : 6/30/2015
Approval Date: Not Approved
Override Date: No Override

Solution ID : ID16 - 315 Curve Level 4
Last Updated : 8/21/2014 4:00:06 PM
Create Date : Jul 25 2014 12:00AM DMS
Expire Date : 6/30/2015
Approval Date: Not Approved
Override Date: No Override

Solution ID : ID18 - 315 Curve Level 6
Last Updated : 8/21/2014 4:00:07 PM
Create Date : Jul 25 2014 12:00AM DMS
Expire Date : 6/30/2015
Approval Date: Not Approved
Override Date: No Override

Solution ID : ID19 - 315 Curve Level 7
Last Updated : 8/21/2014 4:00:07 PM
Create Date : Jul 25 2014 12:00AM DMS
Expire Date : 6/30/2015
Approval Date: Not Approved
Override Date: No Override

Solution ID : ID20 - 315 Curve Level 8
Last Updated : 8/21/2014 4:00:07 PM
Create Date : Jul 25 2014 12:00AM DMS

Expire Date : 6/30/2015
Approval Date: Not Approved
Override Date: No Override

Data File : G:\F\DATA\SF0787\F9408.D
 Acq On : 16 Mar 2015 6:41 pm
 Sample : ID13
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 3
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:20:50 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:18:41 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.06	326	108833m	0.1000	ng
78) Cl6(161)	25.71	360	87559m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.26tw	255	245m	0.0000	ng
27) Cl3(34)	15.25tw	256	2859m	0.0031	ng
Spiked Amount	0.0025		Recovery	=	124.00%
Corrected Values:			2826	0.0031	ng
114) Cl6(152)	22.37	360	2283m	0.0026	ng
Spiked Amount	0.0025		Recovery	=	103.59%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.74	154	10094	0.0027	ng
3) Cl1(1)		9.91	188	5727m	0.0024	ng
4) Cl1(3)		11.11	188	5358m	0.0028	ng
5) Cl2(4)		11.38	222	2549m	0.0022	ng
6) Cl2(7)		12.27	222	4091m	0.0030	ng
7) Cl2(9)		12.24	222	3853m	0.0027	ng
8) Cl2(6)		12.51	222	4044m	0.0027	ng
9) Cl2(5)		12.73	222	3669m	0.0026	ng
10) Cl2(8)		12.80	222	4143m	0.0029	ng
11) Cl3(19)		13.27	256	2016m	0.0029	ng
12) Cl3(30)		13.67	256	2920m	0.0033	ng
13) Cl2(11)-S1 (0.135)		14.11t	221	919	No Calib	
14) Cl2(11)		14.10tw	222	3890m	0.0034	ng
Corrected Values:				3766	0.0033	ng
15) Cl3(18)		14.11t	256	2204m	0.0033	ng
16) Cl3(17)		14.23	256	2207m	0.0032	ng
17) Cl2(12)		14.32	222	3593m	0.0034	ng
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	
19) Cl2(13)		14.47tw	222	3607m	0.0036	ng
Corrected Values:				3607	0.0036	ng
20) Cl3(27)		14.46tw	256	2789m	0.0032	ng
21) Cl3(24)		14.58	256	2704m	0.0031	ng
22) Cl3(16)		14.79	256	1614m	0.0026	ng
23) Cl2(15)		14.89	222	8685m	0.0053	ng
24) Cl3(32)		14.92	256	2839m	0.0029	ng
25) Cl4(54)		15.24tw	292	3465m	0.0031	ng
28) Cl3(29)		15.48	256	2912m	0.0034	ng
29) Cl3(26)-S1 (0.135)		15.83tw	255	576	No Calib	
30) Cl3(26)		15.78	256	3236m	0.0037	ng
Corrected Values:				3158	0.0036	ng
31) Cl4(50)		15.84tw	292	2138m	0.0034	ng
32) Cl3(25)		15.90	256	2934m	0.0032	ng
33) Cl3(31)-S1 (0.135)		16.28tw	255	597	No Calib	
34) Cl3(31)		16.25	256	3173m	0.0034	ng
Corrected Values:				3092	0.0033	ng
35) Cl4(53)		16.29tw	292	2114m	0.0036	ng
36) Cl3(28)		16.38	256	3088m	0.0036	ng
37) Cl3(33)		16.47	256	2675m	0.0034	ng
38) Cl4(51)		16.56	292	2247m	0.0036	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9408.D MF0787.M Wed Mar 25 09:02:31 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9408.D
 Acq On : 16 Mar 2015 6:41 pm
 Sample : ID13
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 3
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:20:50 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:18:41 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.88	292	1748m	0.0030 ng
40) Cl3(22)		16.97	256	2752m	0.0037 ng
41) Cl4(46)		17.13	292	1673m	0.0032 ng
42) Cl4(43)		17.52	292	1766m	0.0040 ng
43) Cl4(52)		17.58	292	1991m	0.0033 ng
44) Cl4(48)		17.75	292	1705m	0.0030 ng
45) Cl4(49)		17.81	292	1671m	0.0029 ng
46) Cl5(104)		17.98tw	326	2698m	0.0038 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		17.99tw	292	2218m	0.0026 ng
Corrected Values:				2218	0.0026 ng
49) Cl4(75)		18.06	292	2781m	0.0040 ng
50) Cl4(44)		18.43	292	1869m	0.0034 ng
51) Cl4(42)		18.64	292	1956m	0.0035 ng
52) Cl4(71)		18.87	292	2606m	0.0037 ng
53) Cl4(41)		18.97	292	1629m	0.0036 ng
54) Cl4(64)		19.24	292	2858m	0.0031 ng
55) Cl4(40)		19.32t	292	1383m	0.0034 ng
56) Cl3(37)-S1	(0.135)	19.33tw	255	788	No Calib
57) Cl3(37)		19.32t	256	3120m	0.0043 ng
Corrected Values:				3014	0.0042 ng
58) Cl5(100)		19.68	326	2103m	0.0036 ng
59) Cl4(67)		19.98	292	2809m	0.0040 ng
60) Cl4(63)		20.37	292	2615m	0.0041 ng
61) Cl5(95)		20.52	326	1817m	0.0035 ng
62) Cl4(74)		20.59	292	2448m	0.0037 ng
63) Cl4(70)		20.72	292	2655m	0.0039 ng
64) Cl5(91)-S1	(0.220)	21.02	323	306	No Calib
65) Cl5(91)		20.88tw	326	1677m	0.0033 ng
Corrected Values:				1610	0.0032 ng
66) Cl4(66)-S1	(0.174)	20.89tw	289	549	No Calib
67) Cl4(66)-S2	(0.650)	20.94tw	288	781	No Calib
68) Cl4(66)		20.93tw	292	3133m	0.0045 ng
Corrected Values:				2529	0.0040 ng
69) Cl6(155)		20.96	360	2453m	0.0039 ng
70) Cl4(80)		21.25	292	2696m	0.0043 ng
71) Cl5(92)		21.51Tw	326	1814m	0.0040 ng
72) Cl5(84)		21.52Tw	326	1419m	0.0029 ng
73) Cl4(56)-S1	(0.174)	21.50tw	289	823	No Calib
74) Cl4(56)		21.56	292	2752m	0.0045 ng
Corrected Values:				2609	0.0044 ng
75) Cl4(60)-S1	(0.174)	21.82tw	289	297	No Calib
76) Cl4(60)		21.84	292	2644m	0.0042 ng
Corrected Values:				2592	0.0042 ng
77) Cl5(101)		21.81tw	326	2241m	0.0044 ng
79) Cl5(99)		22.08	326	2284m	0.0036 ng
80) Cl5(83)		22.47	326	1463m	0.0027 ng
81) Cl5(125)		22.63	326	2224m	0.0027 ng
82) Cl5(97)		22.76	326	1701m	0.0039 ng
83) Cl5(87)		23.23	326	1891m	0.0030 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9408.D MF0787.M Wed Mar 25 09:02:31 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9408.D
 Acq On : 16 Mar 2015 6:41 pm
 Sample : ID13
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 3
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:20:50 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:18:41 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.31	360	2586m	0.0033 ng
85) Cl5(115)		23.43	326	2703m	0.0037 ng
86) Cl6(154)		23.51	360	1866m	0.0039 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.47	326	1965m	0.0040 ng
Corrected Values:				1965	0.0040 ng
89) Cl5(110)		23.74	326	2634m	0.0036 ng
90) Cl4(81)		23.87	292	2532m	0.0041 ng
91) Cl5(82)-S1	(0.220)	24.21	323	696	No Calib
92) Cl5(82)		24.18t	326	2174m	0.0041 ng
Corrected Values:				2021	0.0038 ng
93) Cl6(151)		24.18t	360	1685m	0.0035 ng
94) Cl6(135)		24.28	360	1576m	0.0038 ng
95) Cl4(77)-S2	(0.650)	24.42tw	288	708	No Calib
96) Cl4(77)		24.38	292	2773m	0.0041 ng
Corrected Values:				2313	0.0037 ng
97) Cl6(144)		24.43tw	360	1680m	0.0038 ng
98) Cl6(149)		24.65	360	1870m	0.0036 ng
99) Cl6(139)		24.77	360	1640m	0.0036 ng
100) Cl5(124)-S1	(0.220)	24.88t	323	222	No Calib
101) Cl5(124)		24.83	326	2808m	0.0042 ng
Corrected Values:				2759	0.0041 ng
102) Cl6(140)		24.88t	360	1818m	0.0036 ng
103) Cl5(123)		25.02	326	2673m	0.0038 ng
104) Cl6(134)		25.13	360	1390m	0.0037 ng
105) Cl7(188)		25.22	394	2115m	0.0043 ng
106) Cl5(118)-S1	(0.220)	25.27tw	323	324	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	468	No Calib
108) Cl5(118)		25.25t	326	3353m	0.0050 ng
Corrected Values:				2777	0.0044 ng
109) Cl6(131)		25.28tw	360	1398m	0.0036 ng
110) Cl7(184)		25.52	394	1821m	0.0033 ng
111) Cl6(146)		25.61t	360	1542m	0.0037 ng
112) Cl5(114)-S1	(0.220)	25.61t	323	167	No Calib
113) Cl5(114)		25.63	326	2535m	0.0041 ng
Corrected Values:				2498	0.0041 ng
115) Cl6(153)		25.86	360	1944m	0.0033 ng
116) Cl7(179)		26.09	394	1723m	0.0032 ng
117) Cl5(105)-S1	(0.220)	26.25t	323	157	No Calib
118) Cl5(105)		26.21	326	2465m	0.0044 ng
Corrected Values:				2430	0.0043 ng
119) Cl6(141)		26.25t	360	1499m	0.0045 ng
120) Cl7(176)		26.34	394	1814m	0.0037 ng
121) Cl6(127)-S1	(0.265)	26.45	323	379	No Calib
122) Cl5(127)		26.48tw	326	2776m	0.0042 ng
123) Cl6(137)		26.47tw	360	1702m	0.0040 ng
124) Cl6(130)		26.61	360	1571m	0.0034 ng
125) Cl6(164)		26.66	360	1993m	0.0035 ng
126) Cl6(138)		26.81	360	1518m	0.0030 ng
127) Cl6(163)-S1	(0.265)	26.89tw	357	303	No Calib

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 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9408.D MF0787.M Wed Mar 25 09:02:32 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9408.D
 Acq On : 16 Mar 2015 6:41 pm
 Sample : ID13
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 3
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:20:50 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:18:41 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.84	360	2368m	0.0034 ng
Corrected Values:				2288	0.0033 ng
129) Cl7(178)		26.88tw	394	1441m	0.0037 ng
130) Cl6(158)		26.94	360	2257m	0.0041 ng
131) Cl7(175)		27.07	394	1420m	0.0032 ng
132) Cl7(187)		27.16	394	1507m	0.0038 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		27.34t	360	2230m	0.0039 ng
Corrected Values:				2230	0.0039 ng
135) Cl7(183)		27.34t	394	1453m	0.0042 ng
136) Cl5(126)		27.51	326	2221m	0.0043 ng
137) Cl6(128)-S1	(0.265)	27.68t	357	162	No Calib
138) Cl6(128)		27.65	360	1602m	0.0040 ng
Corrected Values:				1559	0.0039 ng
139) Cl7(185)		27.68t	394	1189m	0.0035 ng
140) Cl7(174)		27.79	394	1263m	0.0042 ng
141) Cl6(167)		27.88	360	2059m	0.0045 ng
142) Cl8(202)		27.96	428	1407m	0.0041 ng
143) Cl7(177)		28.06	394	1245m	0.0043 ng
144) Cl8(201)		28.19t	428	1271m	0.0037 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.19t	394	1351m	0.0037 ng
Corrected Values:				1351	0.0037 ng
147) Cl7(173)		28.27	394	1170m	0.0045 ng
148) Cl8(197)		28.41	428	1443m	0.0041 ng
149) Cl6(156)-S1	(0.265)	28.54t	357	207	No Calib
150) Cl6(156)		28.50	360	2225m	0.0048 ng
Corrected Values:				2170	0.0047 ng
151) Cl7(172)		28.54t	394	1141m	0.0042 ng
152) Cl6(157)		28.60	360	2049m	0.0051 ng
153) Cl7(180)		28.73	394	1410m	0.0039 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.78	394	1717m	0.0043 ng
Corrected Values:				1717	0.0043 ng
156) Cl8(200)		28.81	428	1353m	0.0042 ng
157) Cl7(191)		28.90	394	1760m	0.0044 ng
158) Cl7(170)-S1	(0.309)	29.48tw	391	331	No Calib
159) Cl7(170)		29.44	394	1413m	0.0045 ng
Corrected Values:				1311	0.0042 ng
160) Cl8(198)		29.47tw	428	1046m	0.0060 ng
161) Cl8(199)		29.49tw	428	622m	0.0030 ng
162) Cl7(190)		29.55	394	1586m	0.0044 ng
163) Cl6(169)-S2	(1.610)	29.68t	356	419	No Calib
164) Cl6(169)		29.64	360	2289m	0.0061 ng
Corrected Values:				1614	0.0051 ng
165) Cl8(203)		29.68t	428	1063m	0.0040 ng
166) Cl9(208)		30.18	464	1145m	0.0042 ng
167) Cl7(189)		30.33	394	1538m	0.0052 ng
168) Cl9(207)		30.37	464	1202m	0.0048 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9408.D MF0787.M Wed Mar 25 09:02:32 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9408.D
Acq On : 16 Mar 2015 6:41 pm
Sample : ID13
Misc : 5-315 ICAL
MS Integration Params: rteint.p

Vial: 3
Operator: DMS
Inst : Inst. F
Multiplr: 1.00

Quant Time: Mar 17 11:20:50 2015 Quant Results File: MF0787.RES
Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Tue Mar 17 11:18:41 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID13) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39	428	989m	0.0039 ng
Corrected Values:				989	0.0039 ng
171) Cl8(194)		30.88	428	987m	0.0051 ng
172) Cl8(205)		31.03	428	1322m	0.0050 ng
173) Cl9(206)		31.54	464	827m	0.0043 ng
174) Cl10(209)		32.04	498	1051m	0.0048 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9408.D MF0787.M Wed Mar 25 09:02:32 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0787\F9410.D
 Acq On : 16 Mar 2015 8:17 pm
 Sample : ID15
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 5
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:21:35 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:20:47 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.06	326	112590m	0.1000	ng
78) Cl6(161)	25.71	360	90762m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.25t	255	710m	0.0000	ng
27) Cl3(34)	15.25t	256	11228m	0.0090	ng
Spiked Amount	0.0100			Recovery	= 90.00%
Corrected Values:			11132	0.0090	ng
114) Cl6(152)	22.37	360	9063m	0.0101	ng
Spiked Amount	0.0100			Recovery	= 100.60%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.74	154	36301m	0.0092	ng
3) Cl1(1)	9.91	188	21819m	0.0078	ng
4) Cl1(3)	11.11	188	21118m	0.0085	ng
5) Cl2(4)	11.39	222	9681m	0.0074	ng
6) Cl2(7)	12.27	222	13754m	0.0081	ng
7) Cl2(9)	12.23	222	17288m	0.0079	ng
8) Cl2(6)	12.51	222	15641m	0.0078	ng
9) Cl2(5)	12.74	222	14984m	0.0077	ng
10) Cl2(8)	12.80	222	16820m	0.0081	ng
11) Cl3(19)	13.27	256	7304m	0.0086	ng
12) Cl3(30)	13.67	256	11411m	0.0092	ng
13) Cl2(11)-S1 (0.135)	14.11t	221	2976	No Calib	
14) Cl2(11)	14.10tw	222	15716m	0.0091	ng
Corrected Values:			15314	0.0089	ng
15) Cl3(18)	14.11t	256	8434m	0.0092	ng
16) Cl3(17)	14.23	256	8550m	0.0091	ng
17) Cl2(12)	14.31	222	14212m	0.0085	ng
18) Cl2(13)-S1 (0.135)	14.45	221	306	No Calib	
19) Cl2(13)	14.47t	222	13918m	0.0086	ng
Corrected Values:			13877	0.0086	ng
20) Cl3(27)	14.47t	256	11369m	0.0088	ng
21) Cl3(24)	14.59	256	11064m	0.0088	ng
22) Cl3(16)	14.79	256	6292m	0.0087	ng
23) Cl2(15)	14.85	222	21920m	0.0109	ng
24) Cl3(32)	14.92	256	11313m	0.0085	ng
25) Cl4(54)	15.25t	292	11551m	0.0088	ng
28) Cl3(29)	15.48	256	11439m	0.0094	ng
29) Cl3(26)-S1 (0.135)	15.84t	255	2288	No Calib	
30) Cl3(26)	15.79	256	12681m	0.0098	ng
Corrected Values:			12372	0.0096	ng
31) Cl4(50)	15.84t	292	8401m	0.0096	ng
32) Cl3(25)	15.91	256	11704m	0.0093	ng
33) Cl3(31)-S1 (0.135)	16.28tw	255	2292	No Calib	
34) Cl3(31)	16.26	256	12508m	0.0096	ng
Corrected Values:			12199	0.0094	ng
35) Cl4(53)	16.29tw	292	8420m	0.0097	ng
36) Cl3(28)	16.38	256	12744m	0.0098	ng
37) Cl3(33)	16.47	256	11298m	0.0095	ng
38) Cl4(51)	16.55	292	8686m	0.0095	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9410.D MF0787.M Wed Mar 25 09:02:34 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9410.D
 Acq On : 16 Mar 2015 8:17 pm
 Sample : ID15
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 5
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:21:35 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:20:47 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.88	292	7291m	0.0098 ng
40) Cl3(22)		16.97	256	11379m	0.0100 ng
41) Cl4(46)		17.14	292	6540m	0.0097 ng
42) Cl4(43)		17.53	292	6658m	0.0098 ng
43) Cl4(52)		17.58	292	9195m	0.0109 ng
44) Cl4(48)		17.74	292	7240m	0.0087 ng
45) Cl4(49)		17.79	292	9423m	0.0112 ng
46) Cl5(104)		17.98t	326	10396m	0.0102 ng
47) Cl4(47)-S1	(0.174)	17.97tw	289	380	No Calib
48) Cl4(47)		17.98t	292	8984m	0.0085 ng
Corrected Values:				8918	0.0085 ng
49) Cl4(75)		18.07	292	11742m	0.0103 ng
50) Cl4(44)		18.43	292	7650m	0.0103 ng
51) Cl4(42)		18.64	292	6912m	0.0094 ng
52) Cl4(71)		18.86	292	10323m	0.0099 ng
53) Cl4(41)		18.96	292	7094m	0.0111 ng
54) Cl4(64)		19.23	292	10832m	0.0095 ng
55) Cl4(40)		19.31tw	292	5944m	0.0097 ng
56) Cl3(37)-S1	(0.135)	19.32t	255	3037	No Calib
57) Cl3(37)		19.32t	256	11302m	0.0100 ng
Corrected Values:				10892	0.0097 ng
58) Cl5(100)		19.69	326	8843m	0.0116 ng
59) Cl4(67)		19.98	292	11041m	0.0110 ng
60) Cl4(63)		20.37	292	10693m	0.0112 ng
61) Cl5(95)		20.50	326	7211m	0.0107 ng
62) Cl4(74)		20.58	292	11216m	0.0104 ng
63) Cl4(70)		20.72	292	11503m	0.0106 ng
64) Cl5(91)-S1	(0.220)	20.96t	323	132	No Calib
65) Cl5(91)		20.89tw	326	8276m	0.0111 ng
Corrected Values:				8247	0.0110 ng
66) Cl4(66)-S1	(0.174)	20.88tw	289	2209	No Calib
67) Cl4(66)-S2	(0.650)	20.95tw	288	2925	No Calib
68) Cl4(66)		20.91	292	12938m	0.0122 ng
Corrected Values:				10653	0.0104 ng
69) Cl6(155)		20.96t	360	10525m	0.0113 ng
70) Cl4(80)		21.25	292	10689m	0.0109 ng
71) Cl5(92)		21.52T	326	7489m	0.0107 ng
72) Cl5(84)		21.52T	326	6150m	0.0115 ng
73) Cl4(56)-S1	(0.174)	21.52t	289	3549	No Calib
74) Cl4(56)		21.56	292	11119m	0.0110 ng
Corrected Values:				10501	0.0105 ng
75) Cl4(60)-S1	(0.174)	21.83tw	289	734	No Calib
76) Cl4(60)		21.84tw	292	10647m	0.0107 ng
Corrected Values:				10519	0.0106 ng
77) Cl5(101)		21.81	326	8528m	0.0114 ng
79) Cl5(99)		22.09	326	8884m	0.0106 ng
80) Cl5(83)		22.49	326	6391m	0.0102 ng
81) Cl5(125)		22.63	326	10014m	0.0100 ng
82) Cl5(97)		22.76	326	7297m	0.0108 ng
83) Cl5(87)		23.22	326	7507m	0.0107 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9410.D MF0787.M Wed Mar 25 09:02:34 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9410.D
 Acq On : 16 Mar 2015 8:17 pm
 Sample : ID15
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 5
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:21:35 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:20:47 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units

84) Cl6(136)		23.31	360	8812m	0.0100	ng
85) Cl5(115)		23.43	326	9106m	0.0092	ng
86) Cl6(154)		23.50tw	360	7632m	0.0104	ng
87) Cl5(85)-S1	(0.220)	23.51tw	323	509	No Calib	
88) Cl5(85)		23.46	326	7932m	0.0104	ng
Corrected Values:				7820	0.0103	ng
89) Cl5(110)		23.75	326	10742m	0.0108	ng
90) Cl4(81)		23.85	292	10190m	0.0103	ng
91) Cl5(82)-S1	(0.220)	24.19tw	323	1451	No Calib	
92) Cl5(82)		24.18t	326	7544m	0.0117	ng
Corrected Values:				7225	0.0112	ng
93) Cl6(151)		24.18t	360	6751m	0.0108	ng
94) Cl6(135)		24.30	360	6587m	0.0109	ng
95) Cl4(77)-S2	(0.650)	24.42t	288	3127	No Calib	
96) Cl4(77)		24.38	292	12201m	0.0119	ng
Corrected Values:				10168	0.0102	ng
97) Cl6(144)		24.42t	360	6915m	0.0107	ng
98) Cl6(149)		24.65	360	6971m	0.0104	ng
99) Cl6(139)		24.78	360	6717m	0.0104	ng
100) Cl5(124)-S1	(0.220)	24.88t	323	872	No Calib	
101) Cl5(124)		24.82	326	11257m	0.0110	ng
Corrected Values:				11065	0.0109	ng
102) Cl6(140)		24.88t	360	7093m	0.0107	ng
103) Cl5(123)		25.02	326	10615m	0.0113	ng
104) Cl6(134)		25.12	360	5803m	0.0112	ng
105) Cl7(188)		25.22tw	394	7803m	0.0109	ng
106) Cl5(118)-S1	(0.220)	25.29tw	323	1508	No Calib	
107) Cl5(118)-S2	(1.080)	25.23tw	322	2133	No Calib	
108) Cl5(118)		25.25	326	13112m	0.0133	ng
Corrected Values:				10476	0.0110	ng
109) Cl6(131)		25.28tw	360	6322m	0.0108	ng
110) Cl7(184)		25.51	394	7743m	0.0108	ng
111) Cl6(146)		25.61t	360	6887m	0.0106	ng
112) Cl5(114)-S1	(0.220)	25.61t	323e	702	No Calib	
113) Cl5(114)		25.63	326	11110m	0.0116	ng
Corrected Values:				10956	0.0115	ng
115) Cl6(153)		25.86	360	7704m	0.0105	ng
116) Cl7(179)		26.08	394	7427m	0.0108	ng
117) Cl5(105)-S1	(0.220)	26.25tw	323	788	No Calib	
118) Cl5(105)		26.21	326	10255m	0.0119	ng
Corrected Values:				10082	0.0117	ng
119) Cl6(141)		26.26tw	360	6326m	0.0117	ng
120) Cl7(176)		26.34	394	7107m	0.0106	ng
121) Cl6(127)-S1	(0.265)	26.44	323	816	No Calib	
122) Cl5(127)		26.48tw	326	11261m	0.0116	ng
123) Cl6(137)		26.47tw	360	6773m	0.0116	ng
124) Cl6(130)		26.61	360	5302m	0.0088	ng
125) Cl6(164)		26.66	360	9241m	0.0117	ng
126) Cl6(138)		26.80	360	6060m	0.0086	ng
127) Cl6(163)-S1	(0.265)	26.88tw	357	998	No Calib	

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9410.D MF0787.M Wed Mar 25 09:02:34 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9410.D
 Acq On : 16 Mar 2015 8:17 pm
 Sample : ID15
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 5
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:21:35 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:20:47 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.84	360	9624m	0.0122 ng
Corrected Values:				9360	0.0119 ng
129) Cl7(178)		26.89tw	394	5170m	0.0101 ng
130) Cl6(158)		26.94	360	9666m	0.0115 ng
131) Cl7(175)		27.07	394	5768m	0.0112 ng
132) Cl7(187)		27.16	394	6108m	0.0109 ng
133) Cl6(166)-S1	(0.265)	27.34t	357	363	No Calib
134) Cl6(166)		27.34t	360	9083m	0.0117 ng
Corrected Values:				8987	0.0116 ng
135) Cl7(183)		27.34t	394	5982m	0.0115 ng
136) Cl5(126)		27.49	326	9497m	0.0125 ng
137) Cl6(128)-S1	(0.265)	27.68t	357	787	No Calib
138) Cl6(128)		27.65	360	6455m	0.0117 ng
Corrected Values:				6246	0.0114 ng
139) Cl7(185)		27.68t	394	5152m	0.0109 ng
140) Cl7(174)		27.79	394	5190m	0.0114 ng
141) Cl6(167)		27.88	360	8178m	0.0118 ng
142) Cl8(202)		27.96	428	5733m	0.0110 ng
143) Cl7(177)		28.06	394	4782m	0.0113 ng
144) Cl8(201)		28.18tw	428	5721m	0.0110 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.19tw	394	5110m	0.0107 ng
Corrected Values:				5110	0.0107 ng
147) Cl7(173)		28.27	394	4439m	0.0111 ng
148) Cl8(197)		28.40	428	5736m	0.0114 ng
149) Cl6(156)-S1	(0.265)	28.54t	357	794	No Calib
150) Cl6(156)		28.50	360	8928m	0.0131 ng
Corrected Values:				8718	0.0128 ng
151) Cl7(172)		28.54t	394	4896m	0.0114 ng
152) Cl6(157)		28.60	360	8228m	0.0121 ng
153) Cl7(180)		28.73	394	5169m	0.0103 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.77	394	7580m	0.0127 ng
Corrected Values:				7580	0.0127 ng
156) Cl8(200)		28.81	428	5583m	0.0110 ng
157) Cl7(191)		28.90	394	7001m	0.0115 ng
158) Cl7(170)-S1	(0.309)	29.46	391	1067	No Calib
159) Cl7(170)		29.44	394	5407m	0.0140 ng
Corrected Values:				5077	0.0132 ng
160) Cl8(198)		29.48Tw	428	4453m	0.0135 ng
161) Cl8(199)		29.49Tw	428	3450m	0.0108 ng
162) Cl7(190)		29.56	394	7051m	0.0123 ng
163) Cl6(169)-S2	(1.610)	29.67tw	356	1652	No Calib
164) Cl6(169)		29.65	360	10008m	0.0174 ng
Corrected Values:				7348	0.0135 ng
165) Cl8(203)		29.68tw	428	4265m	0.0110 ng
166) Cl9(208)		30.17	464	4730m	0.0124 ng
167) Cl7(189)		30.33	394	6586m	0.0147 ng
168) Cl9(207)		30.38tw	464	5013m	0.0120 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9410.D MF0787.M Wed Mar 25 09:02:34 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9410.D
Acq On : 16 Mar 2015 8:17 pm
Sample : ID15
Misc : 5-315 ICAL
MS Integration Params: rteint.p

Vial: 5
Operator: DMS
Inst : Inst. F
Multiplr: 1.00

Quant Time: Mar 17 11:21:35 2015 Quant Results File: MF0787.RES
Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Tue Mar 17 11:20:47 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID15) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39tw	428	3846m	0.0110 ng
Corrected Values:				3846	0.0110 ng
171) Cl8(194)		30.88	428	3982m	0.0143 ng
172) Cl8(205)		31.03	428	5090m	0.0133 ng
173) Cl9(206)		31.53	464	3459m	0.0138 ng
174) Cl10(209)		32.04	498	4013m	0.0146 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9410.D MF0787.M Wed Mar 25 09:02:34 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0787\F9411.D
 Acq On : 16 Mar 2015 9:05 pm
 Sample : ID16
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 6
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:22:21 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:21:33 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.06	326	112544m	0.1000	ng
78) Cl6(161)	25.71	360	94046m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.24tw	255	1360m	0.0000	ng
27) Cl3(34)	15.25t	256	23660m	0.0180	ng
Spiked Amount	0.0200			Recovery	= 89.00%
Corrected Values:			23476	0.0178	ng
114) Cl6(152)	22.37	360	18926m	0.0203	ng
Spiked Amount	0.0201			Recovery	= 101.10%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.74	154	72902m	0.0183	ng
3) Cl1(1)	9.91	188	45065m	0.0158	ng
4) Cl1(3)	11.11	188	43656m	0.0167	ng
5) Cl2(4)	11.38	222	19789m	0.0148	ng
6) Cl2(7)	12.27	222	27651m	0.0156	ng
7) Cl2(9)	12.23	222	36900m	0.0155	ng
8) Cl2(6)	12.51	222	32026m	0.0150	ng
9) Cl2(5)	12.73	222	30957m	0.0151	ng
10) Cl2(8)	12.80	222	34078m	0.0152	ng
11) Cl3(19)	13.26	256	14994m	0.0170	ng
12) Cl3(30)	13.67	256	23640m	0.0178	ng
13) Cl2(11)-S1 (0.135)	14.11t	221	6393	No Calib	
14) Cl2(11)	14.11t	222	31845m	0.0169	ng
Corrected Values:			30982	0.0164	ng
15) Cl3(18)	14.11t	256	16887m	0.0172	ng
16) Cl3(17)	14.23	256	17303m	0.0174	ng
17) Cl2(12)	14.31	222	30730m	0.0165	ng
18) Cl2(13)-S1 (0.135)	0.00	221	0	N.D.	d
19) Cl2(13)	14.46tw	222	28604m	0.0158	ng
Corrected Values:			28604	0.0158	ng
20) Cl3(27)	14.47tw	256	23744m	0.0170	ng
21) Cl3(24)	14.59	256	22881m	0.0170	ng
22) Cl3(16)	14.79	256	12945m	0.0173	ng
23) Cl2(15)	14.85	222	40000m	0.0187	ng
24) Cl3(32)	14.92	256	23876m	0.0168	ng
25) Cl4(54)	15.25t	292	23745m	0.0175	ng
28) Cl3(29)	15.48	256	23617m	0.0181	ng
29) Cl3(26)-S1 (0.135)	15.84t	255	4558	No Calib	
30) Cl3(26)	15.78	256	26274m	0.0187	ng
Corrected Values:			25659	0.0183	ng
31) Cl4(50)	15.84t	292	16548m	0.0177	ng
32) Cl3(25)	15.91	256	23775m	0.0177	ng
33) Cl3(31)-S1 (0.135)	16.29t	255	4631	No Calib	
34) Cl3(31)	16.26	256	25953m	0.0186	ng
Corrected Values:			25328	0.0182	ng
35) Cl4(53)	16.29t	292	17167m	0.0183	ng
36) Cl3(28)	16.37	256	24605m	0.0176	ng
37) Cl3(33)	16.47	256	24023m	0.0187	ng
38) Cl4(51)	16.55	292	17122m	0.0174	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9411.D MF0787.M Wed Mar 25 09:02:36 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9411.D
 Acq On : 16 Mar 2015 9:05 pm
 Sample : ID16
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 6
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:22:21 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:21:33 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.88	292	14469m	0.0187 ng
40) Cl3(22)		16.96	256	23481m	0.0188 ng
41) Cl4(46)		17.14	292	13215m	0.0186 ng
42) Cl4(43)		17.53	292	11739m	0.0159 ng
43) Cl4(52)		17.58	292	17127m	0.0193 ng
44) Cl4(48)		17.75	292	15692m	0.0175 ng
45) Cl4(49)		17.80	292	17522m	0.0200 ng
46) Cl5(104)		17.98t	326	22601m	0.0206 ng
47) Cl4(47)-S1	(0.174)	17.98t	289	536	No Calib
48) Cl4(47)		17.99tw	292	19019m	0.0175 ng
Corrected Values:				18926	0.0174 ng
49) Cl4(75)		18.07	292	24152m	0.0192 ng
50) Cl4(44)		18.43	292	15320m	0.0195 ng
51) Cl4(42)		18.63	292	15454m	0.0196 ng
52) Cl4(71)		18.85	292	21574m	0.0191 ng
53) Cl4(41)		18.95	292	13458m	0.0199 ng
54) Cl4(64)		19.24	292	24525m	0.0204 ng
55) Cl4(40)		19.32t	292	10901m	0.0166 ng
56) Cl3(37)-S1	(0.135)	19.32t	255	6486	No Calib
57) Cl3(37)		19.33tw	256	23845	0.0188 ng
Corrected Values:				22969	0.0182 ng
58) Cl5(100)		19.68	326	17641m	0.0220 ng
59) Cl4(67)		19.98	292	22589m	0.0207 ng
60) Cl4(63)		20.37	292	21877m	0.0210 ng
61) Cl5(95)		20.50	326	15081m	0.0213 ng
62) Cl4(74)		20.58	292	22987m	0.0194 ng
63) Cl4(70)		20.72	292	23436m	0.0198 ng
64) Cl5(91)-S1	(0.220)	21.02	323	679	No Calib
65) Cl5(91)		20.89	326	16930m	0.0213 ng
Corrected Values:				16781	0.0211 ng
66) Cl4(66)-S1	(0.174)	20.87	289	3818	No Calib
67) Cl4(66)-S2	(0.650)	20.96t	288	6671	No Calib
68) Cl4(66)		20.92	292	27699m	0.0238 ng
Corrected Values:				22699	0.0199 ng
69) Cl6(155)		20.96t	360	21483m	0.0215 ng
70) Cl4(80)		21.24	292	22295m	0.0206 ng
71) Cl5(92)		21.52t	326	16833m	0.0219 ng
72) Cl5(84)		21.53Tw	326	12786m	0.0234 ng
73) Cl4(56)-S1	(0.174)	21.52t	289	7333	No Calib
74) Cl4(56)		21.56	292	23795m	0.0209 ng
Corrected Values:				22519	0.0199 ng
75) Cl4(60)-S1	(0.174)	21.81t	289	1832	No Calib
76) Cl4(60)		21.83	292	22569m	0.0204 ng
Corrected Values:				22250	0.0201 ng
77) Cl5(101)		21.81t	326	18432m	0.0226 ng
79) Cl5(99)		22.08	326	18707m	0.0205 ng
80) Cl5(83)		22.49	326	12923m	0.0195 ng
81) Cl5(125)		22.63	326	21368m	0.0200 ng
82) Cl5(97)		22.76	326	15453m	0.0203 ng
83) Cl5(87)		23.23	326	15815m	0.0213 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9411.D MF0787.M Wed Mar 25 09:02:36 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9411.D
 Acq On : 16 Mar 2015 9:05 pm
 Sample : ID16
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 6
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:22:21 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:21:33 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units

84) Cl6(136)		23.30	360	18669m	0.0200	ng
85) Cl5(115)		23.42	326	20429m	0.0183	ng
86) Cl6(154)		23.50t	360	16129m	0.0195	ng
87) Cl5(85)-S1	(0.220)	23.50t	323	1083	No Calib	
88) Cl5(85)		23.46	326	19140m	0.0220	ng
Corrected Values:				18902	0.0217	ng
89) Cl5(110)		23.74	326	23456m	0.0214	ng
90) Cl4(81)		23.85	292	22060m	0.0193	ng
91) Cl5(82)-S1	(0.220)	24.18t	323	2791	No Calib	
92) Cl5(82)		24.18t	326	15596m	0.0225	ng
Corrected Values:				14982	0.0216	ng
93) Cl6(151)		24.18t	360	14109m	0.0207	ng
94) Cl6(135)		24.29	360	13327m	0.0200	ng
95) Cl4(77)-S2	(0.650)	24.42t	288	6343	No Calib	
96) Cl4(77)		24.38	292	25505m	0.0221	ng
Corrected Values:				21382	0.0188	ng
97) Cl6(144)		24.42t	360	14432m	0.0200	ng
98) Cl6(149)		24.65	360	15035m	0.0207	ng
99) Cl6(139)		24.77	360	14259m	0.0198	ng
100) Cl5(124)-S1	(0.220)	24.88tw	323	1758	No Calib	
101) Cl5(124)		24.83	326	23004m	0.0200	ng
Corrected Values:				22617	0.0197	ng
102) Cl6(140)		24.87tw	360	14953m	0.0207	ng
103) Cl5(123)		25.02	326	22254m	0.0216	ng
104) Cl6(134)		25.12	360	11886m	0.0209	ng
105) Cl7(188)		25.23tw	394	16070m	0.0201	ng
106) Cl5(118)-S1	(0.220)	25.29tw	323	2789	No Calib	
107) Cl5(118)-S2	(1.080)	25.22tw	322	4564	No Calib	
108) Cl5(118)		25.25	326	28897m	0.0260	ng
Corrected Values:				23354	0.0214	ng
109) Cl6(131)		25.28tw	360	13053m	0.0201	ng
110) Cl7(184)		25.51	394	16418m	0.0211	ng
111) Cl6(146)		25.61tw	360	15548m	0.0211	ng
112) Cl5(114)-S1	(0.220)	25.60tw	323E	1667	No Calib	
113) Cl5(114)		25.63	326	23907m	0.0221	ng
Corrected Values:				23540	0.0218	ng
115) Cl6(153)		25.85	360	16514m	0.0209	ng
116) Cl7(179)		26.08	394	15132m	0.0205	ng
117) Cl5(105)-S1	(0.220)	26.26t	323	1543	No Calib	
118) Cl5(105)		26.21	326	21438m	0.0220	ng
Corrected Values:				21099	0.0217	ng
119) Cl6(141)		26.26t	360	13648m	0.0219	ng
120) Cl7(176)		26.34	394	15134m	0.0204	ng
121) Cl6(127)-S1	(0.265)	26.45tw	323	1619	No Calib	
122) Cl5(127)		26.48	326	23822m	0.0219	ng
123) Cl6(137)		26.46tw	360	13886m	0.0217	ng
124) Cl6(130)		26.61	360	11511m	0.0174	ng
125) Cl6(164)		26.66	360	19509m	0.0227	ng
126) Cl6(138)		26.80	360	13301m	0.0171	ng
127) Cl6(163)-S1	(0.265)	26.89t	357	2224	No Calib	

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9411.D MF0787.M Wed Mar 25 09:02:36 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9411.D
 Acq On : 16 Mar 2015 9:05 pm
 Sample : ID16
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 6
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:22:21 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:21:33 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.85	360	18088m	0.0218 ng
Corrected Values:				17499	0.0211 ng
129) Cl7(178)		26.89t	394	11031m	0.0196 ng
130) Cl6(158)		26.94	360	19463m	0.0207 ng
131) Cl7(175)		27.08	394	11663m	0.0213 ng
132) Cl7(187)		27.16	394	12995m	0.0209 ng
133) Cl6(166)-S1	(0.265)	27.34t	357	1020	No Calib
134) Cl6(166)		27.34t	360	18781m	0.0220 ng
Corrected Values:				18511	0.0217 ng
135) Cl7(183)		27.34t	394	12304m	0.0210 ng
136) Cl5(126)		27.50	326	19850m	0.0234 ng
137) Cl6(128)-S1	(0.265)	27.68t	357	1360	No Calib
138) Cl6(128)		27.65	360	13254m	0.0219 ng
Corrected Values:				12894	0.0213 ng
139) Cl7(185)		27.68t	394	10954m	0.0211 ng
140) Cl7(174)		27.79	394	10730m	0.0209 ng
141) Cl6(167)		27.88	360	18615m	0.0234 ng
142) Cl8(202)		27.95	428	12239m	0.0207 ng
143) Cl7(177)		28.06	394	10588m	0.0222 ng
144) Cl8(201)		28.18tw	428	11889m	0.0204 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.19tw	394	10590m	0.0204 ng
Corrected Values:				10590	0.0204 ng
147) Cl7(173)		28.27	394	9686m	0.0210 ng
148) Cl8(197)		28.40	428	11706m	0.0209 ng
149) Cl6(156)-S1	(0.265)	28.54t	357	1588	No Calib
150) Cl6(156)		28.49	360	18423m	0.0241 ng
Corrected Values:				18002	0.0236 ng
151) Cl7(172)		28.54t	394	10257m	0.0211 ng
152) Cl6(157)		28.60	360	17385m	0.0220 ng
153) Cl7(180)		28.73	394	10951m	0.0195 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.77	394	15813m	0.0238 ng
Corrected Values:				15813	0.0238 ng
156) Cl8(200)		28.81	428	11759m	0.0204 ng
157) Cl7(191)		28.90	394	15248m	0.0220 ng
158) Cl7(170)-S1	(0.309)	29.49t	391	2321	No Calib
159) Cl7(170)		29.44	394	11564m	0.0276 ng
Corrected Values:				10847	0.0259 ng
160) Cl8(198)		29.47	428	7584m	0.0198 ng
161) Cl8(199)		29.49t	428	9080m	0.0255 ng
162) Cl7(190)		29.56	394	14704m	0.0226 ng
163) Cl6(169)-S2	(1.610)	29.67tw	356	3322	No Calib
164) Cl6(169)		29.64	360	21326m	0.0328 ng
Corrected Values:				15978	0.0253 ng
165) Cl8(203)		29.68tw	428	9023m	0.0207 ng
166) Cl9(208)		30.18	464	10122m	0.0240 ng
167) Cl7(189)		30.32	394	12931m	0.0257 ng
168) Cl9(207)		30.38tw	464	10161m	0.0212 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9411.D MF0787.M Wed Mar 25 09:02:36 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9411.D
 Acq On : 16 Mar 2015 9:05 pm
 Sample : ID16
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 6
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:22:21 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:21:33 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID16) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39tw	428	8096m	0.0208 ng
Corrected Values:				8096	0.0208 ng
171) Cl8(194)		30.88	428	8382m	0.0268 ng
172) Cl8(205)		31.03	428	10678m	0.0247 ng
173) Cl9(206)		31.53	464	6995m	0.0257 ng
174) Cl10(209)		32.03	498	8259m	0.0277 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9411.D MF0787.M Wed Mar 25 09:02:36 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0787\F9413.D
 Acq On : 16 Mar 2015 10:41 pm
 Sample : ID18
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 8
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:23:58 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:23:06 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.05	326	119261m	0.1000	ng
78) Cl6(161)	25.70	360	96714m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.24t	255	5475m	0.0000	ng
27) Cl3(34)	15.24t	256	100327m	0.0687	ng
Spiked Amount	0.0800			Recovery	= 85.25%
Corrected Values:			99588	0.0682	ng
114) Cl6(152)	22.37	360	78898m	0.0818	ng
Spiked Amount	0.0803			Recovery	= 101.84%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.73	154	301577m	0.0718	ng
3) Cl1(1)	9.91	188	190134m	0.0621	ng
4) Cl1(3)	11.11	188	185628m	0.0646	ng
5) Cl2(4)	11.38	222	81833m	0.0570	ng
6) Cl2(7)	12.26	222	125735m	0.0652	ng
7) Cl2(9)	12.23	222	141384m	0.0528	ng
8) Cl2(6)	12.50	222	135212m	0.0573	ng
9) Cl2(5)	12.73	222	128961m	0.0570	ng
10) Cl2(8)	12.80	222	142804m	0.0569	ng
11) Cl3(19)	13.27	256	63042m	0.0657	ng
12) Cl3(30)	13.67	256	101836m	0.0684	ng
13) Cl2(11)-S1 (0.135)	14.11t	221	27718	No Calib	
14) Cl2(11)	14.10tw	222	136375m	0.0635	ng
Corrected Values:			132633	0.0618	ng
15) Cl3(18)	14.11t	256	72455m	0.0661	ng
16) Cl3(17)	14.23	256	72696m	0.0661	ng
17) Cl2(12)	14.31	222	131658m	0.0616	ng
18) Cl2(13)-S1 (0.135)	14.47t	221	2288	No Calib	
19) Cl2(13)	14.46tw	222	125939m	0.0602	ng
Corrected Values:			125630	0.0600	ng
20) Cl3(27)	14.47t	256	99773m	0.0638	ng
21) Cl3(24)	14.59	256	97295m	0.0651	ng
22) Cl3(16)	14.78	256	56419m	0.0696	ng
23) Cl2(15)	14.84	222	151935m	0.0631	ng
24) Cl3(32)	14.92	256	100533m	0.0643	ng
25) Cl4(54)	15.25tw	292	98817m	0.0676	ng
28) Cl3(29)	15.48	256	103042m	0.0703	ng
29) Cl3(26)-S1 (0.135)	15.83tw	255	19778	No Calib	
30) Cl3(26)	15.78	256	114461m	0.0720	ng
Corrected Values:			111791	0.0704	ng
31) Cl4(50)	15.84tw	292	72100m	0.0692	ng
32) Cl3(25)	15.91	256	101160m	0.0672	ng
33) Cl3(31)-S1 (0.135)	16.28tw	255	20132	No Calib	
34) Cl3(31)	16.25	256	115841m	0.0742	ng
Corrected Values:			113123	0.0725	ng
35) Cl4(53)	16.29tw	292	73338m	0.0697	ng
36) Cl3(28)	16.37	256	106534m	0.0668	ng
37) Cl3(33)	16.47	256	102680m	0.0707	ng
38) Cl4(51)	16.55	292	75742m	0.0687	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9413.D MF0787.M Wed Mar 25 09:02:52 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9413.D
 Acq On : 16 Mar 2015 10:41 pm
 Sample : ID18
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 8
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:23:58 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:23:06 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.87	292	62683m	0.0733 ng
40) Cl3(22)		16.96	256	104593m	0.0732 ng
41) Cl4(46)		17.14	292	57085m	0.0726 ng
42) Cl4(43)		17.52	292	56222m	0.0652 ng
43) Cl4(52)		17.57	292	77879m	0.0785 ng
44) Cl4(48)		17.74	292	62740m	0.0621 ng
45) Cl4(49)		17.80	292	70494m	0.0722 ng
46) Cl5(104)		17.98t	326	97633m	0.0802 ng
47) Cl4(47)-S1	(0.174)	17.98t	289	2210	No Calib
48) Cl4(47)		17.98t	292	78908m	0.0668 ng
Corrected Values:				78523	0.0665 ng
49) Cl4(75)		18.06	292	103848m	0.0724 ng
50) Cl4(44)		18.42	292	65787m	0.0747 ng
51) Cl4(42)		18.64	292	65764m	0.0747 ng
52) Cl4(71)		18.86	292	95208m	0.0742 ng
53) Cl4(41)		18.95	292	57526m	0.0757 ng
54) Cl4(64)		19.24	292	99488m	0.0753 ng
55) Cl4(40)		19.32t	292	55457m	0.0746 ng
56) Cl3(37)-S1	(0.135)	19.32t	255	27167	No Calib
57) Cl3(37)		19.32t	256	107651m	0.0732 ng
Corrected Values:				103983	0.0708 ng
58) Cl5(100)		19.68	326	77416m	0.0865 ng
59) Cl4(67)		19.97	292	99641m	0.0796 ng
60) Cl4(63)		20.37	292	95059m	0.0789 ng
61) Cl5(95)		20.50	326	65357m	0.0829 ng
62) Cl4(74)		20.58	292	102862m	0.0749 ng
63) Cl4(70)		20.72	292	101547m	0.0752 ng
64) Cl5(91)-S1	(0.220)	20.96t	323	1353	No Calib
65) Cl5(91)		20.88tw	326	75914m	0.0853 ng
Corrected Values:				75616	0.0850 ng
66) Cl4(66)-S1	(0.174)	20.87tw	289	16179	No Calib
67) Cl4(66)-S2	(0.650)	20.95tw	288	28490	No Calib
68) Cl4(66)		20.91	292	120205m	0.0905 ng
Corrected Values:				98871	0.0750 ng
69) Cl6(155)		20.96t	360	93763m	0.0838 ng
70) Cl4(80)		21.24	292	97205m	0.0774 ng
71) Cl5(92)		21.51T	326	63352m	0.0724 ng
72) Cl5(84)		21.51T	326	61984m	0.0968 ng
73) Cl4(56)-S1	(0.174)	21.52tw	289	31176	No Calib
74) Cl4(56)		21.56	292	103581m	0.0781 ng
Corrected Values:				98156	0.0742 ng
75) Cl4(60)-S1	(0.174)	21.80tw	289	7142	No Calib
76) Cl4(60)		21.83	292	98436m	0.0770 ng
Corrected Values:				97193	0.0761 ng
77) Cl5(101)		21.81tw	326	78146m	0.0838 ng
79) Cl5(99)		22.09	326	80001m	0.0809 ng
80) Cl5(83)		22.48	326	57052m	0.0808 ng
81) Cl5(125)		22.62	326	89603m	0.0787 ng
82) Cl5(97)		22.76	326	67662m	0.0803 ng
83) Cl5(87)		23.22	326	68220m	0.0857 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9413.D MF0787.M Wed Mar 25 09:02:53 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9413.D
 Acq On : 16 Mar 2015 10:41 pm
 Sample : ID18
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 8
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:23:58 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:23:06 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.29	360	77656m	0.0792 ng
85) Cl5(115)		23.44	326	91896m	0.0732 ng
86) Cl6(154)		23.50tw	360	70771m	0.0779 ng
87) Cl5(85)-S1	(0.220)	23.49tw	323	4557	No Calib
88) Cl5(85)		23.46	326	78697m	0.0851 ng
Corrected Values:				77694	0.0840 ng
89) Cl5(110)		23.74	326	97784m	0.0818 ng
90) Cl4(81)		23.85	292	95056m	0.0736 ng
91) Cl5(82)-S1	(0.220)	24.18t	323	10290	No Calib
92) Cl5(82)		24.18t	326	65616m	0.0882 ng
Corrected Values:				63352	0.0852 ng
93) Cl6(151)		24.18t	360	61562m	0.0840 ng
94) Cl6(135)		24.28	360	56680m	0.0777 ng
95) Cl4(77)-S2	(0.650)	24.42t	288	26715	No Calib
96) Cl4(77)		24.39	292	109291m	0.0854 ng
Corrected Values:				91926	0.0723 ng
97) Cl6(144)		24.42t	360	61638m	0.0783 ng
98) Cl6(149)		24.65	360	65146m	0.0830 ng
99) Cl6(139)		24.77	360	63371m	0.0804 ng
100) Cl5(124)-S1	(0.220)	24.87t	323	7883	No Calib
101) Cl5(124)		24.82	326	102578m	0.0801 ng
Corrected Values:				100844	0.0787 ng
102) Cl6(140)		24.87t	360	60847m	0.0780 ng
103) Cl5(123)		25.02	326	96788m	0.0855 ng
104) Cl6(134)		25.12	360	51285m	0.0828 ng
105) Cl7(188)		25.22t	394	70617m	0.0805 ng
106) Cl5(118)-S1	(0.220)	25.28t	323	13887	No Calib
107) Cl5(118)-S2	(1.080)	25.22t	322	20545	No Calib
108) Cl5(118)		25.25	326	125664m	0.1026 ng
Corrected Values:				100420	0.0826 ng
109) Cl6(131)		25.28t	360	56006m	0.0785 ng
110) Cl7(184)		25.51	394	70077m	0.0834 ng
111) Cl6(146)		25.61tw	360	67397m	0.0821 ng
112) Cl5(114)-S1	(0.220)	25.60tw	323E	6808	No Calib
113) Cl5(114)		25.62tw	326	98610m	0.0819 ng
Corrected Values:				97112	0.0807 ng
115) Cl6(153)		25.85	360	70314m	0.0831 ng
116) Cl7(179)		26.08	394	66379m	0.0836 ng
117) Cl5(105)-S1	(0.220)	26.25t	323	6685	No Calib
118) Cl5(105)		26.21	326	92786m	0.0850 ng
Corrected Values:				91315	0.0837 ng
119) Cl6(141)		26.25t	360	59407m	0.0848 ng
120) Cl7(176)		26.34	394	64800m	0.0807 ng
121) Cl6(127)-S1	(0.265)	26.46t	323	5379	No Calib
122) Cl5(127)		26.48	326	100249m	0.0830 ng
123) Cl6(137)		26.46t	360	59814m	0.0849 ng
124) Cl6(130)		26.60	360	50890m	0.0724 ng
125) Cl6(164)		26.66	360	80645m	0.0870 ng
126) Cl6(138)		26.80	360	58614m	0.0690 ng
127) Cl6(163)-S1	(0.265)	26.89t	357	8953	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9413.D MF0787.M Wed Mar 25 09:02:53 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9413.D
 Acq On : 16 Mar 2015 10:41 pm
 Sample : ID18
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 8
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:23:58 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:23:06 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.84	360	83495m	0.0947 ng
Corrected Values:				81122	0.0921 ng
129) Cl7(178)		26.89t	394	47811m	0.0790 ng
130) Cl6(158)		26.94	360	80150m	0.0777 ng
131) Cl7(175)		27.08	394	51134m	0.0865 ng
132) Cl7(187)		27.16	394	54291m	0.0802 ng
133) Cl6(166) -S1	(0.265)	27.34t	357	3702	No Calib
134) Cl6(166)		27.34t	360	82587m	0.0884 ng
Corrected Values:				81606	0.0874 ng
135) Cl7(183)		27.34t	394	53204m	0.0821 ng
136) Cl5(126)		27.50	326	85846m	0.0895 ng
137) Cl6(128) -S1	(0.265)	27.68t	357	5891	No Calib
138) Cl6(128)		27.64	360	58957m	0.0884 ng
Corrected Values:				57396	0.0862 ng
139) Cl7(185)		27.68t	394	47817m	0.0840 ng
140) Cl7(174)		27.79	394	48201m	0.0841 ng
141) Cl6(167)		27.88	360	80873m	0.0900 ng
142) Cl8(202)		27.96	428	52003m	0.0798 ng
143) Cl7(177)		28.06	394	44129m	0.0832 ng
144) Cl8(201)		28.18t	428	51766m	0.0806 ng
145) Cl7(171) -S1	(0.309)	28.18t	391	451	No Calib
146) Cl7(171)		28.18t	394	46564m	0.0823 ng
Corrected Values:				46425	0.0821 ng
147) Cl7(173)		28.27	394	41150m	0.0799 ng
148) Cl8(197)		28.40	428	50827m	0.0820 ng
149) Cl6(156) -S1	(0.265)	28.54t	357	7033	No Calib
150) Cl6(156)		28.50	360	80982m	0.0938 ng
Corrected Values:				79118	0.0917 ng
151) Cl7(172)		28.54t	394	46484m	0.0847 ng
152) Cl6(157)		28.60	360	77417m	0.0856 ng
153) Cl7(180)		28.73	394	48157m	0.0768 ng
154) Cl7(193) -S1	(0.309)	28.80tw	391	354	No Calib
155) Cl7(193)		28.77	394	66156m	0.0901 ng
Corrected Values:				66047	0.0899 ng
156) Cl8(200)		28.81tw	428	50689m	0.0791 ng
157) Cl7(191)		28.90	394	68149m	0.0875 ng
158) Cl7(170) -S1	(0.309)	29.49t	391	10123	No Calib
159) Cl7(170)		29.44	394	50270m	0.1065 ng
Corrected Values:				47142	0.1004 ng
160) Cl8(198)		29.48tw	428	33065m	0.0712 ng
161) Cl8(199)		29.49t	428	46006m	0.1178 ng
162) Cl7(190)		29.55	394	65606m	0.0892 ng
163) Cl6(169) -S2	(1.610)	29.67t	356	14181	No Calib
164) Cl6(169)		29.64	360	92191m	0.1226 ng
Corrected Values:				69360	0.0944 ng
165) Cl8(203)		29.67t	428	39837m	0.0821 ng
166) Cl9(208)		30.18	464	43208m	0.0911 ng
167) Cl7(189)		30.32	394	61179m	0.1028 ng
168) Cl9(207)		30.38tw	464	45942m	0.0834 ng
169) Cl8(195) -S1	(0.400)	30.37tw	425	208	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9413.D MF0787.M Wed Mar 25 09:02:53 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9413.D
 Acq On : 16 Mar 2015 10:41 pm
 Sample : ID18
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 8
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:23:58 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:23:06 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID18) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39tw	428	35529m	0.0833 ng
Corrected Values:				35446	0.0831 ng
171) Cl8(194)		30.87	428	36081m	0.0994 ng
172) Cl8(205)		31.03	428	46376m	0.0938 ng
173) Cl9(206)		31.53	464	30645m	0.0992 ng
174) Cl10(209)		32.03	498	35329m	0.1057 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9413.D MF0787.M Wed Mar 25 09:02:53 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0787\F9414.D
 Acq On : 16 Mar 2015 11:29 pm
 Sample : ID19
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 9
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 08:27:11 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 08:27:04 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID19) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.06	326	113666m	0.1000	ng
78) Cl6(161)	25.70	360	90860m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.24tw	255	10470m	0.0000	ng
27) Cl3(34)	15.25t	256	191184m	0.1361	ng
Spiked Amount	0.1600			Recovery	= 84.44%
Corrected Values:			189771	0.1351	ng
114) Cl6(152)	22.38	360	151359m	0.1652	ng
Spiked Amount	0.1606			Recovery	= 102.84%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.74	154e	574014	0.1450	ng
3) Cl1(1)	9.91	188	368886m	0.1265	ng
4) Cl1(3)	11.11	188	363980m	0.1317	ng
5) Cl2(4)	11.39	222	162155m	0.1181	ng
6) Cl2(7)	12.27	222	230184m	0.1255	ng
7) Cl2(9)	12.23	222	292590m	0.1126	ng
8) Cl2(6)	12.51	222	266434m	0.1180	ng
9) Cl2(5)	12.73	222	254215m	0.1169	ng
10) Cl2(8)	12.80	222	277241m	0.1156	ng
11) Cl3(19)	13.27	256	122351m	0.1333	ng
12) Cl3(30)	13.67	256	191504m	0.1334	ng
13) Cl2(11)-S1 (0.135)	14.11t	221	53478	No Calib	
14) Cl2(11)	14.10tw	222	266765m	0.1279	ng
Corrected Values:			259545	0.1245	ng
15) Cl3(18)	14.11t	256	140356m	0.1336	ng
16) Cl3(17)	14.23	256	140482m	0.1331	ng
17) Cl2(12)	14.32	222	251198m	0.1212	ng
18) Cl2(13)-S1 (0.135)	14.47t	221	4656	No Calib	
19) Cl2(13)	14.46tw	222	239317m	0.1187	ng
Corrected Values:			238688	0.1184	ng
20) Cl3(27)	14.47t	256	194907m	0.1306	ng
21) Cl3(24)	14.59	256	184555m	0.1294	ng
22) Cl3(16)	14.79	256	106188m	0.1366	ng
23) Cl2(15)	14.85	222	287888m	0.1238	ng
24) Cl3(32)	14.92	256	193988m	0.1297	ng
25) Cl4(54)	15.25t	292e	187075m	0.1355	ng
28) Cl3(29)	15.48	256	194626m	0.1373	ng
29) Cl3(26)-S1 (0.135)	15.84t	255	37754	No Calib	
30) Cl3(26)	15.79	256	217740m	0.1416	ng
Corrected Values:			212643	0.1383	ng
31) Cl4(50)	15.84t	292e	139345m	0.1395	ng
32) Cl3(25)	15.91	256	198847m	0.1366	ng
33) Cl3(31)-S1 (0.135)	16.28tw	255	39882	No Calib	
34) Cl3(31)	16.26	256	216251m	0.1428	ng
Corrected Values:			210867	0.1393	ng
35) Cl4(53)	16.29tw	292	138772m	0.1378	ng
36) Cl3(28)	16.38	256	210295m	0.1360	ng
37) Cl3(33)	16.47	256	197588m	0.1406	ng
38) Cl4(51)	16.55	292	144315m	0.1371	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9414.D MF0787.M Wed Mar 25 09:27:59 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9414.D
 Acq On : 16 Mar 2015 11:29 pm
 Sample : ID19
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 9
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 08:27:11 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 08:27:04 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID19) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.88	292e	120913m	0.1461 ng
40) Cl3(22)		16.97	256	192299m	0.1388 ng
41) Cl4(46)		17.14	292e	109499m	0.1440 ng
42) Cl4(43)		17.52	292	111015m	0.1318 ng
43) Cl4(52)		17.58	292e	147101m	0.1529 ng
44) Cl4(48)		17.74	292	125836m	0.1280 ng
45) Cl4(49)		17.80	292e	148731m	0.1564 ng
46) Cl5(104)		17.98t	326e	185578m	0.1595 ng
47) Cl4(47)-S1	(0.174)	17.98t	289	3817	No Calib
48) Cl4(47)		17.98t	292	155102m	0.1370 ng
Corrected Values:				154438	0.1364 ng
49) Cl4(75)		18.07	292e	196248m	0.1427 ng
50) Cl4(44)		18.43	292e	128134m	0.1486 ng
51) Cl4(42)		18.64	292e	125737m	0.1466 ng
52) Cl4(71)		18.86	292e	184310m	0.1474 ng
53) Cl4(41)		18.95	292e	108250m	0.1460 ng
54) Cl4(64)		19.24	292e	194561m	0.1510 ng
55) Cl4(40)		19.32t	292e	103409m	0.1448 ng
56) Cl3(37)-S1	(0.135)	19.32t	255	54545	No Calib
57) Cl3(37)		19.32t	256e	205283m	0.1434 ng
Corrected Values:				197919	0.1384 ng
58) Cl5(100)		19.68	326e	147330m	0.1679 ng
59) Cl4(67)		19.98	292e	191394m	0.1544 ng
60) Cl4(63)		20.37	292e	182697m	0.1529 ng
61) Cl5(95)		20.51	326e	128832m	0.1672 ng
62) Cl4(74)		20.59	292e	199135m	0.1476 ng
63) Cl4(70)		20.72	292e	196469m	0.1491 ng
64) Cl5(91)-S1	(0.220)	20.96t	323	1993	No Calib
65) Cl5(91)		20.89tw	326e	144730m	0.1672 ng
Corrected Values:				144292	0.1667 ng
66) Cl4(66)-S1	(0.174)	20.88tw	289	32063	No Calib
67) Cl4(66)-S2	(0.650)	20.96t	288	56121	No Calib
68) Cl4(66)		20.91	292e	230965m	0.1775 ng
Corrected Values:				188907	0.1464 ng
69) Cl6(155)		20.96t	360e	178675m	0.1666 ng
70) Cl4(80)		21.24	292e	186270m	0.1499 ng
71) Cl5(92)		21.52T	326e	136739m	0.1582 ng
72) Cl5(84)		21.52T	326e	111800m	0.1680 ng
73) Cl4(56)-S1	(0.174)	21.51tw	289	61206	No Calib
74) Cl4(56)		21.57	292e	200538m	0.1553 ng
Corrected Values:				189888	0.1473 ng
75) Cl4(60)-S1	(0.174)	21.81t	289	14169	No Calib
76) Cl4(60)		21.83	292e	189199m	0.1511 ng
Corrected Values:				186734	0.1493 ng
77) Cl5(101)		21.81t	326e	154303m	0.1681 ng
79) Cl5(99)		22.09	326e	156017m	0.1636 ng
80) Cl5(83)		22.48	326e	111095m	0.1627 ng
81) Cl5(125)		22.63	326e	175305m	0.1597 ng
82) Cl5(97)		22.76	326e	134229m	0.1666 ng
83) Cl5(87)		23.22	326e	132096m	0.1693 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9414.D MF0787.M Wed Mar 25 09:27:59 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9414.D
 Acq On : 16 Mar 2015 11:29 pm
 Sample : ID19
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 9
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 08:27:11 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 08:27:04 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID19) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units

84) Cl6(136)		23.30	360e	151828m	0.1631 ng
85) Cl5(115)		23.44	326e	194333m	0.1550 ng
86) Cl6(154)		23.51tw	360e	137976m	0.1599 ng
87) Cl5(85)-S1	(0.220)	23.50tw	323	8602	No Calib
88) Cl5(85)		23.47	326e	136562m	0.1623 ng
Corrected Values:				134670	0.1599 ng
89) Cl5(110)		23.74	326e	192011m	0.1662 ng
90) Cl4(81)		23.85	292e	182310m	0.1461 ng
91) Cl5(82)-S1	(0.220)	24.18t	323	19944	No Calib
92) Cl5(82)		24.18t	326e	129112m	0.1803 ng
Corrected Values:				124724	0.1745 ng
93) Cl6(151)		24.18t	360e	116561m	0.1656 ng
94) Cl6(135)		24.29	360e	115300m	0.1653 ng
95) Cl4(77)-S2	(0.650)	24.42t	288	52055	No Calib
96) Cl4(77)		24.39	292e	212964m	0.1717 ng
Corrected Values:				179128	0.1456 ng
97) Cl6(144)		24.42t	360e	119965m	0.1601 ng
98) Cl6(149)		24.65	360e	127007m	0.1680 ng
99) Cl6(139)		24.78	360e	126390m	0.1663 ng
100) Cl5(124)-S1	(0.220)	24.88t	323	15071	No Calib
101) Cl5(124)		24.83	326e	201061m	0.1633 ng
Corrected Values:				197745	0.1607 ng
102) Cl6(140)		24.88t	360e	121670m	0.1629 ng
103) Cl5(123)		25.03	326e	189237m	0.1711 ng
104) Cl6(134)		25.13	360e	98007m	0.1652 ng
105) Cl7(188)		25.23tw	394e	135841m	0.1628 ng
106) Cl5(118)-S1	(0.220)	25.28t	323	28008	No Calib
107) Cl5(118)-S2	(1.080)	25.22tw	322	39480	No Calib
108) Cl5(118)		25.25	326e	243157m	0.2067 ng
Corrected Values:				194357	0.1664 ng
109) Cl6(131)		25.28t	360e	111940m	0.1637 ng
110) Cl7(184)		25.51	394e	134646m	0.1662 ng
111) Cl6(146)		25.61tw	360e	136665m	0.1706 ng
112) Cl5(114)-S1	(0.220)	25.60tw	323E	13577	No Calib
113) Cl5(114)		25.63	326e	190479m	0.1631 ng
Corrected Values:				187492	0.1607 ng
115) Cl6(153)		25.86	360e	136850m	0.1677 ng
116) Cl7(179)		26.08	394e	125696m	0.1650 ng
117) Cl5(105)-S1	(0.220)	26.25t	323	12828	No Calib
118) Cl5(105)		26.21	326e	181939m	0.1706 ng
Corrected Values:				179117	0.1681 ng
119) Cl6(141)		26.25t	360e	114709m	0.1695 ng
120) Cl7(176)		26.34	394e	122004m	0.1594 ng
121) Cl6(127)-S1	(0.265)	26.47t	323	9733	No Calib
122) Cl5(127)		26.48tw	326e	192349m	0.1634 ng
123) Cl6(137)		26.47t	360e	116577m	0.1703 ng
124) Cl6(130)		26.60	360e	97121m	0.1489 ng
125) Cl6(164)		26.67	360e	161493m	0.1810 ng
126) Cl6(138)		26.80	360	109761m	0.1344 ng
127) Cl6(163)-S1	(0.265)	26.89t	357e	18209	No Calib

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9414.D MF0787.M Wed Mar 25 09:28:00 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9414.D
 Acq On : 16 Mar 2015 11:29 pm
 Sample : ID19
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 9
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 08:27:11 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 08:27:04 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID19) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.85	360e	173767m	0.2037 ng
Corrected Values:				168942	0.1983 ng
129) Cl7(178)		26.89t	394e	91680m	0.1594 ng
130) Cl6(158)		26.94	360e	163395m	0.1659 ng
131) Cl7(175)		27.08	394e	97360m	0.1684 ng
132) Cl7(187)		27.16	394e	107282m	0.1652 ng
133) Cl6(166) -S1	(0.265)	27.34t	357e	7372	No Calib
134) Cl6(166)		27.34t	360e	160039m	0.1762 ng
Corrected Values:				158085	0.1741 ng
135) Cl7(183)		27.34t	394e	103254m	0.1657 ng
136) Cl5(126)		27.50	326e	167345m	0.1750 ng
137) Cl6(128) -S1	(0.265)	27.67tw	357e	11608	No Calib
138) Cl6(128)		27.65	360e	114089m	0.1760 ng
Corrected Values:				111013	0.1715 ng
139) Cl7(185)		27.68tw	394e	92712m	0.1674 ng
140) Cl7(174)		27.79	394e	91485m	0.1658 ng
141) Cl6(167)		27.88	360e	158999m	0.1789 ng
142) Cl8(202)		27.96	428e	99009m	0.1591 ng
143) Cl7(177)		28.06	394e	86883m	0.1684 ng
144) Cl8(201)		28.18t	428e	100913m	0.1632 ng
145) Cl7(171) -S1	(0.309)	28.18t	391	818	No Calib
146) Cl7(171)		28.18t	394e	96439m	0.1754 ng
Corrected Values:				96186	0.1749 ng
147) Cl7(173)		28.27	394e	81649m	0.1651 ng
148) Cl8(197)		28.41	428e	98810m	0.1645 ng
149) Cl6(156) -S1	(0.265)	28.54t	357e	14406	No Calib
150) Cl6(156)		28.49	360e	158194m	0.1851 ng
Corrected Values:				154376	0.1810 ng
151) Cl7(172)		28.54t	394e	90869m	0.1700 ng
152) Cl6(157)		28.60	360e	149916m	0.1720 ng
153) Cl7(180)		28.73	394e	94218m	0.1536 ng
154) Cl7(193) -S1	(0.309)	28.81t	391	768	No Calib
155) Cl7(193)		28.77	394e	120224m	0.1693 ng
Corrected Values:				119987	0.1690 ng
156) Cl8(200)		28.81t	428e	98676m	0.1606 ng
157) Cl7(191)		28.90	394e	131173m	0.1724 ng
158) Cl7(170) -S1	(0.309)	29.49t	391e	19934	No Calib
159) Cl7(170)		29.44	394e	98523m	0.2052 ng
Corrected Values:				92363	0.1941 ng
160) Cl8(198)		29.47	428	64534m	0.1409 ng
161) Cl8(199)		29.49t	428e	76901m	0.2035 ng
162) Cl7(190)		29.55	394e	125183m	0.1741 ng
163) Cl6(169) -S2	(1.610)	29.67tw	356e	28855	No Calib
164) Cl6(169)		29.64	360e	184555m	0.2410 ng
Corrected Values:				138098	0.1867 ng
165) Cl8(203)		29.68tw	428e	79418m	0.1675 ng
166) Cl9(208)		30.18	464e	84718m	0.1785 ng
167) Cl7(189)		30.33	394e	120355m	0.1957 ng
168) Cl9(207)		30.38tw	464e	89002m	0.1660 ng
169) Cl8(195) -S1	(0.400)	30.37tw	425	397	No Calib

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9414.D MF0787.M Wed Mar 25 09:28:00 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9414.D
 Acq On : 16 Mar 2015 11:29 pm
 Sample : ID19
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 9
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 08:27:11 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 08:27:04 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID19) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39tw	428e	70684m	0.1714 ng
Corrected Values:				70525	0.1711 ng
171) Cl8(194)		30.88	428e	69606m	0.1878 ng
172) Cl8(205)		31.03	428e	91487m	0.1845 ng
173) Cl9(206)		31.53	464e	58788m	0.1874 ng
174) Cl10(209)		32.04	498e	65958m	0.1963 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9414.D MF0787.M Wed Mar 25 09:28:00 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0787\F9415.D
 Acq On : 17 Mar 2015 12:17 am
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:24:49 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:23:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.06	326	124219m	0.1000	ng
78) Cl6(161)	25.71	360	101802m	0.1000	ng

System Monitoring Compounds					
26) Cl3(34)-S1	(0.135)	15.25t	255	22154m	0.0000 ng
27) Cl3(34)		15.25t	256	412890m	0.2666 ng
Spiked Amount	0.3200			Recovery	= 82.72%
Corrected Values:				409899	0.2647 ng
114) Cl6(152)		22.38	360	326727m	0.3125 ng
Spiked Amount	0.3213			Recovery	= 97.27%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.74	154e	1045227	0.2453	ng
3) Cl1(1)		9.91	188e	689559m	0.2171	ng
4) Cl1(3)		11.11	188e	705488m	0.2320	ng
5) Cl2(4)		11.39	222e	318359m	0.2117	ng
6) Cl2(7)		12.27	222e	467348m	0.2356	ng
7) Cl2(9)		12.23	222e	598016m	0.2078	ng
8) Cl2(6)		12.51	222e	517681m	0.2100	ng
9) Cl2(5)		12.74	222e	510854m	0.2141	ng
10) Cl2(8)		12.80	222e	546114m	0.2096	ng
11) Cl3(19)		13.27	256e	250531m	0.2496	ng
12) Cl3(30)		13.67	256e	404574m	0.2556	ng
13) Cl2(11)-S1	(0.135)	14.11t	221e	113342	No Calib	
14) Cl2(11)		14.11t	222e	565226m	0.2437	ng
Corrected Values:				549925	0.2373	ng
15) Cl3(18)		14.11t	256E	298641m	0.2606	ng
16) Cl3(17)		14.23	256E	294640m	0.2554	ng
17) Cl2(12)		14.32	222e	530113m	0.2304	ng
18) Cl2(13)-S1	(0.135)	14.47t	221e	11039	No Calib	
19) Cl2(13)		14.47t	222e	506685m	0.2305	ng
Corrected Values:				505195	0.2298	ng
20) Cl3(27)		14.47t	256E	406448m	0.2524	ng
21) Cl3(24)		14.59	256e	389232m	0.2527	ng
22) Cl3(16)		14.79	256E	225789m	0.2637	ng
23) Cl2(15)		14.85	222e	607641m	0.2367	ng
24) Cl3(32)		14.92	256E	413638m	0.2540	ng
25) Cl4(54)		15.25t	292E	397219m	0.2698	ng
28) Cl3(29)		15.48	256E	415268m	0.2640	ng
29) Cl3(26)-S1	(0.135)	15.84t	255e	79643	No Calib	
30) Cl3(26)		15.79	256E	459117m	0.2696	ng
Corrected Values:				448365	0.2634	ng
31) Cl4(50)		15.84t	292E	293741m	0.2698	ng
32) Cl3(25)		15.91	256E	423576m	0.2621	ng
33) Cl3(31)-S1	(0.135)	16.28tw	255e	85558	No Calib	
34) Cl3(31)		16.26	256E	464095m	0.2743	ng
Corrected Values:				452545	0.2677	ng
35) Cl4(53)		16.29tw	292E	297162m	0.2715	ng
36) Cl3(28)		16.37	256E	448505m	0.2614	ng
37) Cl3(33)		16.47	256E	420294m	0.2700	ng
38) Cl4(51)		16.55	292E	302034m	0.2655	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
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 F9415.D MF0787.M Wed Mar 25 09:02:55 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9415.D
 Acq On : 17 Mar 2015 12:17 am
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:24:49 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:23:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4 (45)		16.88	292E	254264m	0.2756 ng
40) Cl3 (22)		16.97	256E	406549m	0.2637 ng
41) Cl4 (46)		17.14	292E	230220m	0.2725 ng
42) Cl4 (43)		17.52	292e	238220m	0.2524 ng
43) Cl4 (52)		17.58	292E	315931m	0.2936 ng
44) Cl4 (48)		17.74	292E	298199m	0.2698 ng
45) Cl4 (49)		17.80	292E	284724m	0.2684 ng
46) Cl5 (104)		17.98t	326E	393340m	0.3117 ng
47) Cl4 (47) -S1	(0.174)	17.98t	289e	8306	No Calib
48) Cl4 (47)		17.98t	292E	317864m	0.2555 ng
Corrected Values:				316419	0.2544 ng
49) Cl4 (75)		18.07	292E	416670m	0.2795 ng
50) Cl4 (44)		18.43	292E	273335m	0.2794 ng
51) Cl4 (42)		18.64	292E	271403m	0.2807 ng
52) Cl4 (71)		18.87	292E	392551m	0.2800 ng
53) Cl4 (41)		18.96	292E	249323m	0.2969 ng
54) Cl4 (64)		19.24	292E	418179m	0.2874 ng
55) Cl4 (40)		19.32t	292E	226694m	0.2896 ng
56) Cl3 (37) -S1	(0.135)	19.32t	255e	118886	No Calib
57) Cl3 (37)		19.32t	256E	448428m	0.2804 ng
Corrected Values:				432378	0.2708 ng
58) Cl5 (100)		19.69	326E	318394m	0.3182 ng
59) Cl4 (67)		19.98	292E	416767m	0.2913 ng
60) Cl4 (63)		20.37	292E	397493m	0.2881 ng
61) Cl5 (95)		20.51	326E	277815m	0.3182 ng
62) Cl4 (74)		20.58	292E	417449m	0.2730 ng
63) Cl4 (70)		20.72	292E	411945m	0.2789 ng
64) Cl5 (91) -S1	(0.220)	20.96t	323e	3397	No Calib
65) Cl5 (91)		20.89t	326E	311407m	0.3205 ng
Corrected Values:				310660	0.3198 ng
66) Cl4 (66) -S1	(0.174)	20.89t	289e	68196	No Calib
67) Cl4 (66) -S2	(0.650)	20.96t	288e	119624	No Calib
68) Cl4 (66)		20.91	292E	500556m	0.3398 ng
Corrected Values:				410934	0.2822 ng
69) Cl6 (155)		20.96t	360E	383406m	0.3274 ng
70) Cl4 (80)		21.24	292E	405277m	0.2838 ng
71) Cl5 (92)		21.52T	326E	286957m	0.2922 ng
72) Cl5 (84)		21.52T	326E	243158m	0.2922 ng
73) Cl4 (56) -S1	(0.174)	21.52t	289e	132691	No Calib
74) Cl4 (56)		21.57	292E	428193m	0.2976 ng
Corrected Values:				405105	0.2820 ng
75) Cl4 (60) -S1	(0.174)	21.81tw	289e	30802	No Calib
76) Cl4 (60)		21.84	292E	405708m	0.2873 ng
Corrected Values:				400348	0.2837 ng
77) Cl5 (101)		21.82tw	326E	330379m	0.3163 ng
79) Cl5 (99)		22.09	326E	332043m	0.3002 ng
80) Cl5 (83)		22.48	326E	232966m	0.2921 ng
81) Cl5 (125)		22.63	326E	383844m	0.3003 ng
82) Cl5 (97)		22.76	326E	277030m	0.3024 ng
83) Cl5 (87)		23.23	326E	285012m	0.3059 ng

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9415.D MF0787.M Wed Mar 25 09:02:55 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9415.D
 Acq On : 17 Mar 2015 12:17 am
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:24:49 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:23:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.30	360E	329110m	0.3111 ng
85) Cl5(115)		23.44	326E	404088m	0.2681 ng
86) Cl6(154)		23.50tw	360E	297522m	0.3065 ng
87) Cl5(85)-S1	(0.220)	23.51tw	323	19425	No Calib
88) Cl5(85)		23.47	326E	311890m	0.3730 ng
Corrected Values:				307616	0.3664 ng
89) Cl5(110)		23.75	326E	416426m	0.3095 ng
90) Cl4(81)		23.85	292E	402963m	0.2790 ng
91) Cl5(82)-S1	(0.220)	24.18t	323E	42339	No Calib
92) Cl5(82)		24.18t	326E	265366m	0.3208 ng
Corrected Values:				256051	0.3102 ng
93) Cl6(151)		24.18t	360E	250302m	0.3080 ng
94) Cl6(135)		24.29	360E	247862m	0.3119 ng
95) Cl4(77)-S2	(0.650)	24.42t	288e	114628	No Calib
96) Cl4(77)		24.39	292E	474712m	0.3281 ng
Corrected Values:				400204	0.2798 ng
97) Cl6(144)		24.42t	360E	259336m	0.3059 ng
98) Cl6(149)		24.65	360E	279035m	0.3177 ng
99) Cl6(139)		24.78	360E	276964m	0.3145 ng
100) Cl5(124)-S1	(0.220)	24.87tw	323E	33439	No Calib
101) Cl5(124)		24.83	326E	438624m	0.3104 ng
Corrected Values:				431267	0.3054 ng
102) Cl6(140)		24.88tw	360E	270442m	0.3159 ng
103) Cl5(123)		25.03	326E	417758m	0.3186 ng
104) Cl6(134)		25.12	360E	216278m	0.3174 ng
105) Cl7(188)		25.22t	394E	293468m	0.3112 ng
106) Cl5(118)-S1	(0.220)	25.28t	323E	59759	No Calib
107) Cl5(118)-S2	(1.080)	25.22t	322e	86364	No Calib
108) Cl5(118)		25.26	326E	530101m	0.3913 ng
Corrected Values:				423681	0.3160 ng
109) Cl6(131)		25.28t	360E	244957m	0.3132 ng
110) Cl7(184)		25.52	394E	296595m	0.3147 ng
111) Cl6(146)		25.61tw	360E	298151m	0.3168 ng
112) Cl5(114)-S1	(0.220)	25.60tw	323E	28744	No Calib
113) Cl5(114)		25.63	326E	413843m	0.3041 ng
Corrected Values:				407519	0.2998 ng
115) Cl6(153)		25.86	360E	300369m	0.3162 ng
116) Cl7(179)		26.09	394E	279312m	0.3169 ng
117) Cl5(105)-S1	(0.220)	26.26t	323E	28423	No Calib
118) Cl5(105)		26.21	326E	405445m	0.3218 ng
Corrected Values:				399192	0.3173 ng
119) Cl6(141)		26.26t	360E	251730m	0.3212 ng
120) Cl7(176)		26.34	394E	272334m	0.3125 ng
121) Cl6(127)-S1	(0.265)	26.46t	323E	20972	No Calib
122) Cl5(127)		26.49	326E	429297m	0.3090 ng
123) Cl6(137)		26.46t	360E	255440m	0.3184 ng
124) Cl6(130)		26.61	360E	211725m	0.3006 ng
125) Cl6(164)		26.66	360E	317665m	0.3092 ng
126) Cl6(138)		26.81	360E	286761m	0.2999 ng
127) Cl6(163)-S1	(0.265)	26.89t	357E	39534	No Calib

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9415.D MF0787.M Wed Mar 25 09:02:55 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9415.D
 Acq On : 17 Mar 2015 12:17 am
 Sample : ID20
 Misc : 5-315 ICAL
 MS Integration Params: rteint.p

Vial: 10
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 17 11:24:49 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 17 11:23:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.85	360E	337037m	0.3406 ng
Corrected Values:				326560	0.3309 ng
129) Cl7(178)		26.89t	394E	204857m	0.3141 ng
130) Cl6(158)		26.94	360E	356725m	0.3190 ng
131) Cl7(175)		27.08	394E	215692m	0.3122 ng
132) Cl7(187)		27.16	394E	234972m	0.3145 ng
133) Cl6(166) -S1	(0.265)	27.34t	357E	16354	No Calib
134) Cl6(166)		27.34t	360E	348855m	0.3266 ng
Corrected Values:				344521	0.3229 ng
135) Cl7(183)		27.34t	394E	229796m	0.3203 ng
136) Cl5(126)		27.50	326E	379767m	0.3247 ng
137) Cl6(128) -S1	(0.265)	27.68t	357E	25651	No Calib
138) Cl6(128)		27.65	360E	254142m	0.3330 ng
Corrected Values:				247344	0.3249 ng
139) Cl7(185)		27.68t	394E	204985m	0.3142 ng
140) Cl7(174)		27.79	394E	200757m	0.3150 ng
141) Cl6(167)		27.88	360E	349559m	0.3276 ng
142) Cl8(202)		27.96	428E	218705m	0.3089 ng
143) Cl7(177)		28.06	394E	191770m	0.3171 ng
144) Cl8(201)		28.18t	428E	220177m	0.3088 ng
145) Cl7(171) -S1	(0.309)	28.18t	391E	1815	No Calib
146) Cl7(171)		28.19tw	394E	209517m	0.3249 ng
Corrected Values:				208956	0.3241 ng
147) Cl7(173)		28.27	394E	177492m	0.3141 ng
148) Cl8(197)		28.40	428E	216676m	0.3090 ng
149) Cl6(156) -S1	(0.265)	28.54t	357E	31400	No Calib
150) Cl6(156)		28.50	360E	352242m	0.3419 ng
Corrected Values:				343921	0.3348 ng
151) Cl7(172)		28.54t	394E	199983m	0.3185 ng
152) Cl6(157)		28.60	360E	331231m	0.3304 ng
153) Cl7(180)		28.73	394E	204682m	0.2822 ng
154) Cl7(193) -S1	(0.309)	28.81t	391E	1790	No Calib
155) Cl7(193)		28.77	394E	298216m	0.3564 ng
Corrected Values:				297663	0.3558 ng
156) Cl8(200)		28.81t	428E	215274m	0.3068 ng
157) Cl7(191)		28.90	394E	289224m	0.3222 ng
158) Cl7(170) -S1	(0.309)	29.49t	391E	44165	No Calib
159) Cl7(170)		29.44	394E	216946m	0.3613 ng
Corrected Values:				203299	0.3428 ng
160) Cl8(198)		29.47	428E	179811m	0.3259 ng
161) Cl8(199)		29.49t	428E	129936m	0.2982 ng
162) Cl7(190)		29.55	394E	274579m	0.3228 ng
163) Cl6(169) -S2	(1.610)	29.67tw	356E	64197	No Calib
164) Cl6(169)		29.64	360E	408031m	0.4280 ng
Corrected Values:				304674	0.3360 ng
165) Cl8(203)		29.68tw	428E	175550m	0.3132 ng
166) Cl9(208)		30.18	464E	183682m	0.3170 ng
167) Cl7(189)		30.33	394E	265646m	0.3406 ng
168) Cl9(207)		30.38t	464E	194362m	0.3103 ng
169) Cl8(195) -S1	(0.400)	30.38t	425E	752	No Calib

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9415.D MF0787.M Wed Mar 25 09:02:56 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9415.D
Acq On : 17 Mar 2015 12:17 am
Sample : ID20
Misc : 5-315 ICAL
MS Integration Params: rteint.p

Vial: 10
Operator: DMS
Inst : Inst. F
Multiplr: 1.00

Quant Time: Mar 17 11:24:49 2015 Quant Results File: MF0787.RES
Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Tue Mar 17 11:23:56 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 (ID20) RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39tw	428E	154815m	0.3232 ng
Corrected Values:				154514	0.3226 ng
171) Cl8(194)		30.88	428E	159003m	0.3396 ng
172) Cl8(205)		31.03	428E	205351m	0.3376 ng
173) Cl9(206)		31.53	464E	135469m	0.3423 ng
174) Cl10(209)		32.04	498E	150984m	0.3602 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9415.D MF0787.M Wed Mar 25 09:02:56 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0787\F9416.D
 Acq On : 17 Mar 2015 1:05 am
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 11:26:11 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 11:24:50 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.05	326	119016m	0.1003	ng
78) Cl6(161)	25.71	360	95374m	0.1005	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.24t	255	3285m	0.0000	ng	
27) Cl3(34)	15.24t	256	63793m	0.0514	ng	
Spiked Amount	0.0502			Recovery	=	101.59%
Corrected Values:			63350	0.0510	ng	
114) Cl6(152)	22.37	360	48689m	0.0494	ng	
Spiked Amount	0.0501			Recovery	=	98.60%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%DIF
2) Biphenyl		8.73	154	197831m	0.0495	ng	-1.5
3) Cl1(1)		9.91	188	120851m	0.0482	ng	-5.5
4) Cl1(3)		11.11	188	116114m	0.0477	ng	-6.5
5) Cl2(4)		11.38	222	52317m	0.0486	ng	-2.8
6) Cl2(7)		12.27	222	71360m	0.0458	ng	-8.7
7) Cl2(9)		12.23	222	106970m	0.0566	ng	13.2
8) Cl2(6)		12.51	222	84688m	0.0477	ng	-5.2
9) Cl2(5)		12.73	222	83765m	0.0499	ng	-0.6
10) Cl2(8)		12.80	222	79873m	0.0431	ng	-15.5
11) Cl3(19)		13.27	256	42954m	0.0530	ng	3.9
12) Cl3(30)		13.67	256	64503m	0.0509	ng	1.7
13) Cl2(11)-S1 (0.135)		14.11t	221	17275	No Calib		
14) Cl2(11)		14.10tw	222	88863m	0.0528	ng	
Corrected Values:				86531	0.0515	ng	2.7
15) Cl3(18)		14.11t	256	46383m	0.0509	ng	-0.2
16) Cl3(17)		14.23	256	45352m	0.0493	ng	-2.4
17) Cl2(12)		14.31	222	87944m	0.0532	ng	6.2
18) Cl2(13)-S1 (0.135)		14.46t	221	1961	No Calib		
19) Cl2(13)		14.46t	222	84078m	0.0537	ng	
Corrected Values:				83813	0.0536	ng	6.6
20) Cl3(27)		14.47tw	256	65572m	0.0514	ng	2.4
21) Cl3(24)		14.59	256	54222m	0.0446	ng	-11.0
22) Cl3(16)		14.79	256	40124m	0.0574	ng	14.8
23) Cl2(15)		14.85	222	95466m	0.0489	ng	-2.2
24) Cl3(32)		14.92	256	66034m	0.0521	ng	3.9
25) Cl4(54)		15.25tw	292	59956m	0.0485	ng	-4.9
28) Cl3(29)		15.48	256	63611m	0.0497	ng	-1.0
29) Cl3(26)-S1 (0.135)		15.84t	255	11497	No Calib		
30) Cl3(26)		15.79	256	65449m	0.0468	ng	
Corrected Values:				63897	0.0457	ng	-8.8
31) Cl4(50)		15.84t	292	42686m	0.0470	ng	-7.5
32) Cl3(25)		15.91	256	62935m	0.0489	ng	-2.8
33) Cl3(31)-S1 (0.135)		16.29t	255	14128	No Calib		
34) Cl3(31)		16.26	256	74677m	0.0539	ng	
Corrected Values:				72770	0.0526	ng	3.1
35) Cl4(53)		16.29t	292	50438m	0.0553	ng	10.4
36) Cl3(28)		16.37	256	71005m	0.0523	ng	2.5
37) Cl3(33)		16.47	256	62190m	0.0484	ng	-3.3
38) Cl4(51)		16.55	292	47267m	0.0498	ng	-1.4

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9416.D MF0787.M Wed Mar 25 09:02:58 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9416.D
 Acq On : 17 Mar 2015 1:05 am
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 11:26:11 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 11:24:50 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%DIF
39) Cl4 (45)		16.87	292	39758m	0.0501 ng	-1.0
40) Cl3 (22)		16.97	256	66415m	0.0519 ng	3.8
41) Cl4 (46)		17.14	292	36355m	0.0507 ng	0.8
42) Cl4 (43)		17.52	292	39709m	0.0558 ng	10.9
43) Cl4 (52)		17.58	292	44236m	0.0459 ng	-10.0
44) Cl4 (48)		17.74	292	42044m	0.0541 ng	7.8
45) Cl4 (49)		17.80	292	47281m	0.0487 ng	-2.6
46) Cl5 (104)		17.98t	326	63511m	0.0521 ng	2.2
47) Cl4 (47) -S1	(0.174)	17.98t	289	1348	No Calib	
48) Cl4 (47)		17.98t	292	52505m	0.0517 ng	
Corrected Values:				52270	0.0515 ng	1.8
49) Cl4 (75)		18.07	292	57385m	0.0445 ng	-11.4
50) Cl4 (44)		18.42	292	39965m	0.0480 ng	-5.9
51) Cl4 (42)		18.64	292	41055m	0.0503 ng	0.3
52) Cl4 (71)		18.87	292	59218m	0.0495 ng	-1.4
53) Cl4 (41)		18.95	292	40690m	0.0583 ng	15.8
54) Cl4 (64)		19.24	292	68086m	0.0542 ng	7.9
55) Cl4 (40)		19.32t	292	30201m	0.0454 ng	-9.7
56) Cl3 (37) -S1	(0.135)	19.32t	255	17994	No Calib	
57) Cl3 (37)		19.32t	256	64676m	0.0505 ng	
Corrected Values:				62247	0.0486 ng	-4.7
58) Cl5 (100)		19.69	326	47208m	0.0493 ng	-1.6
59) Cl4 (67)		19.98	292	61634m	0.0500 ng	-0.4
60) Cl4 (63)		20.37	292	57914m	0.0489 ng	-2.4
61) Cl5 (95)		20.50	326	51332m	0.0619 ng	23.8N
62) Cl4 (74)		20.58	292	70140m	0.0540 ng	5.9
63) Cl4 (70)		20.72	292	62593m	0.0489 ng	-4.1
64) Cl5 (91) -S1	(0.220)	21.02	323	1099	No Calib	
65) Cl5 (91)		20.88t	326	45162m	0.0485 ng	
Corrected Values:				44920	0.0482 ng	-3.8
66) Cl4 (66) -S1	(0.174)	20.88t	289	9691	No Calib	
67) Cl4 (66) -S2	(0.650)	20.96t	288	18167	No Calib	
68) Cl4 (66)		20.91	292	77557m	0.0631 ng	
Corrected Values:				64062	0.0522 ng	2.4
69) Cl6 (155)		20.96t	360	59101m	0.0508 ng	-0.4
70) Cl4 (80)		21.24	292	60113m	0.0500 ng	-0.2
71) Cl5 (92)		21.51T	326	40400m	0.0474 ng	-5.5
72) Cl5 (84)		21.51T	326	41246m	0.0559 ng	11.8
73) Cl4 (56) -S1	(0.174)	21.51t	289	20244	No Calib	
74) Cl4 (56)		21.56	292	61995m	0.0505 ng	
Corrected Values:				58473	0.0477 ng	-5.1
75) Cl4 (60) -S1	(0.174)	21.81t	289	5341	No Calib	
76) Cl4 (60)		21.83	292	59189m	0.0489 ng	
Corrected Values:				58260	0.0482 ng	-4.0
77) Cl5 (101)		21.81t	326	51113m	0.0515 ng	1.0
79) Cl5 (99)		22.09	326	50972m	0.0504 ng	-1.2
80) Cl5 (83)		22.49	326	38118m	0.0527 ng	3.3
81) Cl5 (125)		22.63	326	60575m	0.0538 ng	7.4
82) Cl5 (97)		22.76	326	41799m	0.0483 ng	-3.7
83) Cl5 (87)		23.22	326	41966m	0.0489 ng	-4.1

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9416.D MF0787.M Wed Mar 25 09:02:58 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9416.D
 Acq On : 17 Mar 2015 1:05 am
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 11:26:11 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 11:24:50 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%DIF
84) Cl6(136)		23.30	360	51020m	0.0520	ng	3.8
85) Cl5(115)		23.44	326	54304m	0.0452	ng	-10.0
86) Cl6(154)		23.50t	360	43727m	0.0492	ng	-1.7
87) Cl5(85)-S1	(0.220)	23.50t	323	3014	No Calib		
88) Cl5(85)		23.46	326	44257m	0.0488	ng	
Corrected Values:				43594	0.0480	ng	-4.2
89) Cl5(110)		23.75	326	61859m	0.0502	ng	-1.6
90) Cl4(81)		23.86	292	62287m	0.0530	ng	6.0
91) Cl5(82)-S1	(0.220)	24.19tw	323	7153	No Calib		
92) Cl5(82)		24.18t	326	38749m	0.0474	ng	
Corrected Values:				37175	0.0455	ng	-9.0
93) Cl6(151)		24.18t	360	40005m	0.0524	ng	2.7
94) Cl6(135)		24.28	360	35386m	0.0487	ng	-2.6
95) Cl4(77)-S2	(0.650)	24.42t	288	14946	No Calib		
96) Cl4(77)		24.39	292	66057m	0.0577	ng	
Corrected Values:				56342	0.0494	ng	-3.1
97) Cl6(144)		24.42t	360	34724m	0.0449	ng	-10.6
98) Cl6(149)		24.65	360	37655m	0.0466	ng	-8.6
99) Cl6(139)		24.78	360	38707m	0.0487	ng	-3.2
100) Cl5(124)-S1	(0.220)	24.87tw	323	4627	No Calib		
101) Cl5(124)		24.83	326	59958m	0.0477	ng	
Corrected Values:				58940	0.0469	ng	-6.5
102) Cl6(140)		24.88tw	360	36075m	0.0470	ng	-6.9
103) Cl5(123)		25.03	326	57859m	0.0479	ng	-6.1
104) Cl6(134)		25.12	360	32289m	0.0511	ng	1.7
105) Cl7(188)		25.22tw	394	30787m	0.0353	ng	-1.9
106) Cl5(118)-S1	(0.220)	25.28t	323	7326	No Calib		
107) Cl5(118)-S2	(1.080)	25.21tw	322	9071	No Calib		
108) Cl5(118)		25.25	326	74522m	0.0594	ng	
Corrected Values:				63113	0.0505	ng	-1.0
109) Cl6(131)		25.28t	360	34639m	0.0490	ng	-2.1
110) Cl7(184)		25.51	394	43081m	0.0496	ng	-1.0
111) Cl6(146)		25.61tw	360	41782m	0.0488	ng	-2.5
112) Cl5(114)-S1	(0.220)	25.60tw	323	3708	No Calib		
113) Cl5(114)		25.63	326	63544m	0.0522	ng	
Corrected Values:				62728	0.0515	ng	1.0
115) Cl6(153)		25.86	360	46373m	0.0527	ng	3.3
116) Cl7(179)		26.08	394	38848m	0.0480	ng	-4.6
117) Cl5(105)-S1	(0.220)	26.25t	323	4147	No Calib		
118) Cl5(105)		26.21	326	59474m	0.0523	ng	
Corrected Values:				58562	0.0515	ng	1.0
119) Cl6(141)		26.25t	360	35448m	0.0483	ng	-3.6
120) Cl7(176)		26.34	394	41432m	0.0523	ng	3.2
121) Cl6(127)-S1	(0.265)	26.46tw	323	3292	No Calib		
122) Cl5(127)		26.48tw	326	59550m	0.0481	ng	-3.8
123) Cl6(137)		26.47tw	360	37839m	0.0507	ng	1.2
124) Cl6(130)		26.60	360	30209m	0.0480	ng	-4.4
125) Cl6(164)		26.66	360	40943m	0.0388	ng	-22.9N
126) Cl6(138)		26.80	360	39536m	0.0590	ng	15.7
127) Cl6(163)-S1	(0.265)	26.89t	357	5462	No Calib		

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9416.D MF0787.M Wed Mar 25 09:02:58 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9416.D
 Acq On : 17 Mar 2015 1:05 am
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 11:26:11 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 11:24:50 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%DIF
128) Cl6(163)		26.85	360	46239m	0.0427 ng	
Corrected Values:				44792	0.0414 ng	-17.5
129) Cl7(178)		26.89t	394	28381m	0.0484 ng	-4.3
130) Cl6(158)		26.94	360	50106m	0.0486 ng	-2.8
131) Cl7(175)		27.08	394	30254m	0.0483 ng	-3.4
132) Cl7(187)		27.16	394	35184m	0.0513 ng	0.6
133) Cl6(166) -S1	(0.265)	27.34t	357	2519	No Calib	
134) Cl6(166)		27.34t	360	48815m	0.0482 ng	
Corrected Values:				48147	0.0476 ng	-5.5
135) Cl7(183)		27.34t	394	34342m	0.0520 ng	2.0
136) Cl5(126)		27.50	326	53580m	0.0508 ng	-0.4
137) Cl6(128) -S1	(0.265)	27.68t	357	3762	No Calib	
138) Cl6(128)		27.65	360	36036m	0.0508 ng	
Corrected Values:				35039	0.0495 ng	-2.9
139) Cl7(185)		27.68t	394	31154m	0.0525 ng	5.0
140) Cl7(174)		27.79	394	29097m	0.0491 ng	-2.2
141) Cl6(167)		27.88	360	49943m	0.0495 ng	-2.9
142) Cl8(202)		27.95	428	31212m	0.0488 ng	-4.3
143) Cl7(177)		28.06	394	27550m	0.0497 ng	-2.5
144) Cl8(201)		28.18t	428	30713m	0.0475 ng	-5.0
145) Cl7(171) -S1	(0.309)	28.18t	391	273	No Calib	
146) Cl7(171)		28.18t	394	29369m	0.0493 ng	
Corrected Values:				29285	0.0491 ng	-1.8
147) Cl7(173)		28.27	394	25992m	0.0501 ng	-0.3
148) Cl8(197)		28.41	428	29993m	0.0473 ng	-6.7
149) Cl6(156) -S1	(0.265)	28.53t	357	4301	No Calib	
150) Cl6(156)		28.50	360	49195m	0.0501 ng	
Corrected Values:				48055	0.0489 ng	-4.1
151) Cl7(172)		28.53t	394	27952m	0.0484 ng	-4.5
152) Cl6(157)		28.59	360	47479m	0.0498 ng	-0.4
153) Cl7(180)		28.73	394	29907m	0.0495 ng	-2.9
154) Cl7(193) -S1	(0.309)	28.81t	391	321	No Calib	
155) Cl7(193)		28.77	394	34838m	0.0457 ng	
Corrected Values:				34739	0.0456 ng	-9.0
156) Cl8(200)		28.81t	428	30150m	0.0476 ng	-5.2
157) Cl7(191)		28.90	394	38008m	0.0455 ng	-9.2
158) Cl7(170) -S1	(0.309)	29.49t	391	6041	No Calib	
159) Cl7(170)		29.44	394	32488m	0.0553 ng	
Corrected Values:				30621	0.0522 ng	2.4
160) Cl8(198)		29.47	428	20293m	0.0541 ng	7.1
161) Cl8(199)		29.49t	428	23347m	0.0416 ng	-16.8
162) Cl7(190)		29.55	394	37444m	0.0466 ng	-7.4
163) Cl6(169) -S2	(1.610)	29.67tw	356	9387	No Calib	
164) Cl6(169)		29.64	360	60083m	0.0686 ng	
Corrected Values:				44970	0.0518 ng	1.6
165) Cl8(203)		29.68tw	428	24679m	0.0493 ng	-3.3
166) Cl9(208)		30.18	464	25362m	0.0469 ng	-8.0
167) Cl7(189)		30.32	394	38156m	0.0502 ng	-1.6
168) Cl9(207)		30.38tw	464	27192m	0.0477 ng	-4.8
169) Cl8(195) -S1	(0.400)	30.37tw	425	87	No Calib	

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9416.D MF0787.M Wed Mar 25 09:02:58 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9416.D
 Acq On : 17 Mar 2015 1:05 am
 Sample : ID21 ICC
 Misc : 5-315 ICC
 MS Integration Params: rteint.p

Vial: 11
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 11:26:11 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 11:24:50 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%DIF
170) Cl8(195)		30.39tw	428	22629m	0.0507 ng	
Corrected Values:				22594	0.0506 ng	-0.8
171) Cl8(194)		30.87	428	21205m	0.0481 ng	-5.7
172) Cl8(205)		31.03	428	27732m	0.0480 ng	-5.9
173) Cl9(206)		31.53	464	16876m	0.0453 ng	-11.2
174) Cl10(209)		32.04	498	18649m	0.0438 ng	-15.8

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9416.D MF0787.M Wed Mar 25 09:02:58 2015 040221CFS

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Data File : G:\F\DATA\SF0787\F9436A.D
 Acq On : 18 Mar 2015 8:03 am
 Sample : ID18 MID
 Misc : 5-315 15-0072
 MS Integration Params: rteint.p

Vial: 1
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 16:35:34 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 16:35:26 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.08	326	112054m	0.1000	ng
78) Cl6(161)	25.73	360	93837m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.26tw	255	5030m	0.0000	ng
27) Cl3(34)	15.27t	256	96748m	0.0825	ng
Spiked Amount	0.0800			Recovery	= 102.38%
Corrected Values:			96069	0.0819	ng
114) Cl6(152)	22.39	360	75311m	0.0773	ng
Spiked Amount	0.0803			Recovery	= 96.24%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.74	154	292173m	0.0787	ng
3) Cl1(1)	9.92	188	190904m	0.0814	ng
4) Cl1(3)	11.12	188	185279m	0.0810	ng
5) Cl2(4)	11.40	222	82215m	0.0814	ng
6) Cl2(7)	12.29	222	131492m	0.0904	ng
7) Cl2(9)	12.25	222	138791m	0.0777	ng
8) Cl2(6)	12.53	222	134306m	0.0805	ng
9) Cl2(5)	12.74	222	125405m	0.0793	ng
10) Cl2(8)	12.82	222	145398m	0.0836	ng
11) Cl3(19)	13.28	256	60785m	0.0798	ng
12) Cl3(30)	13.69	256	100423m	0.0842	ng
13) Cl2(11)-S1 (0.135)	14.12t	221	26986	No Calib	
14) Cl2(11)	14.12t	222	131214m	0.0825	ng
Corrected Values:			127571	0.0802	ng
15) Cl3(18)	14.13tw	256	70032m	0.0813	ng
16) Cl3(17)	14.25	256	69402m	0.0800	ng
17) Cl2(12)	14.34	222	128927m	0.0827	ng
18) Cl2(13)-S1 (0.135)	14.48t	221	2878	No Calib	
19) Cl2(13)	14.48t	222	121578m	0.0823	ng
Corrected Values:			121189	0.0821	ng
20) Cl3(27)	14.48t	256	97714m	0.0811	ng
21) Cl3(24)	14.60	256	92794m	0.0810	ng
22) Cl3(16)	14.81	256	52962m	0.0804	ng
23) Cl2(15)	14.87	222	149082m	0.0828	ng
24) Cl3(32)	14.94	256	96915m	0.0809	ng
25) Cl4(54)	15.27t	292	94972m	0.0818	ng
28) Cl3(29)	15.50	256	98311m	0.0814	ng
29) Cl3(26)-S1 (0.135)	15.86t	255	19281	No Calib	
30) Cl3(26)	15.81	256	109593m	0.0830	ng
Corrected Values:			106990	0.0810	ng
31) Cl4(50)	15.86t	292	70926m	0.0827	ng
32) Cl3(25)	15.94	256	98063m	0.0805	ng
33) Cl3(31)-S1 (0.135)	16.31t	255	20188	No Calib	
34) Cl3(31)	16.28	256	109373m	0.0837	ng
Corrected Values:			106648	0.0816	ng
35) Cl4(53)	16.31t	292	70299m	0.0818	ng
36) Cl3(28)	16.39	256	102821m	0.0800	ng
37) Cl3(33)	16.50	256	100184m	0.0824	ng
38) Cl4(51)	16.57	292	72483m	0.0810	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9436A.D MF0787.M Wed Mar 25 09:03:00 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9436A.D
 Acq On : 18 Mar 2015 8:03 am
 Sample : ID18 MID
 Misc : 5-315 15-0072
 MS Integration Params: rteint.p

Vial: 1
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 16:35:34 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 16:35:26 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.90	292	60931m	0.0814 ng
40) Cl3(22)		16.98	256	98117m	0.0814 ng
41) Cl4(46)		17.16	292	54684m	0.0808 ng
42) Cl4(43)		17.55	292	53781m	0.0796 ng
43) Cl4(52)		17.61	292	69881m	0.0767 ng
44) Cl4(48)		17.76	292	69084m	0.0924 ng
45) Cl4(49)		17.82	292	72826m	0.0795 ng
46) Cl5(104)		18.00tw	326	91425m	0.0793 ng
47) Cl4(47)-S1	(0.174)	18.01t	289	2142	No Calib
48) Cl4(47)		18.01t	292	81947m	0.0857 ng
Corrected Values:				81574	0.0853 ng
49) Cl4(75)		18.10	292	97223m	0.0799 ng
50) Cl4(44)		18.46	292	63954m	0.0812 ng
51) Cl4(42)		18.66	292	63081m	0.0817 ng
52) Cl4(71)		18.88	292	94803m	0.0836 ng
53) Cl4(41)		18.99	292	53400m	0.0808 ng
54) Cl4(64)		19.27	292	100647m	0.0847 ng
55) Cl4(40)		19.35t	292	50313m	0.0793 ng
56) Cl3(37)-S1	(0.135)	19.34tw	255	26772	No Calib
57) Cl3(37)		19.35t	256	106144m	0.0872 ng
Corrected Values:				102530	0.0843 ng
58) Cl5(100)		19.71	326	73378m	0.0810 ng
59) Cl4(67)		20.00	292	97902m	0.0837 ng
60) Cl4(63)		20.40	292	93697m	0.0835 ng
61) Cl5(95)		20.54	326	63419m	0.0808 ng
62) Cl4(74)		20.61	292	98701m	0.0802 ng
63) Cl4(70)		20.74	292	96089m	0.0794 ng
64) Cl5(91)-S1	(0.220)	20.99tw	323	1524	No Calib
65) Cl5(91)		20.91tw	326	70750m	0.0799 ng
Corrected Values:				70415	0.0796 ng
66) Cl4(66)-S1	(0.174)	20.90tw	289	15988	No Calib
67) Cl4(66)-S2	(0.650)	20.98t	288	28531	No Calib
68) Cl4(66)		20.94	292	117906m	0.1014 ng
Corrected Values:				96579	0.0831 ng
69) Cl6(155)		20.98t	360	88209m	0.0802 ng
70) Cl4(80)		21.27	292	95732m	0.0840 ng
71) Cl5(92)		21.54Tw	326	68129m	0.0838 ng
72) Cl5(84)		21.55t	326	53422m	0.0765 ng
73) Cl4(56)-S1	(0.174)	21.55t	289	30729	No Calib
74) Cl4(56)		21.60	292	100557m	0.0864 ng
Corrected Values:				95210	0.0818 ng
75) Cl4(60)-S1	(0.174)	21.85t	289	7133	No Calib
76) Cl4(60)		21.86tw	292	94548m	0.0825 ng
Corrected Values:				93307	0.0814 ng
77) Cl5(101)		21.85t	326	76405m	0.0811 ng
79) Cl5(99)		22.11	326	76754m	0.0765 ng
80) Cl5(83)		22.51	326	55450m	0.0772 ng
81) Cl5(125)		22.65	326	86136m	0.0770 ng
82) Cl5(97)		22.79	326	64468m	0.0748 ng
83) Cl5(87)		23.25	326	65072m	0.0764 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9436A.D MF0787.M Wed Mar 25 09:03:00 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9436A.D
 Acq On : 18 Mar 2015 8:03 am
 Sample : ID18 MID
 Misc : 5-315 15-0072
 MS Integration Params: rteint.p

Vial: 1
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 16:35:34 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 16:35:26 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units

84) Cl6(136)		23.34	360	74142m	0.0762 ng
85) Cl5(115)		23.47Tw	326	81910m	0.0678 ng
86) Cl6(154)		23.54tw	360	68407m	0.0774 ng
87) Cl5(85)-S1	(0.220)	23.53tw	323	4167	No Calib
88) Cl5(85)		23.48Tw	326	73563m	0.0825 ng
Corrected Values:				72646	0.0814 ng
89) Cl5(110)		23.77	326	95849m	0.0782 ng
90) Cl4(81)		23.88	292	96419m	0.0825 ng
91) Cl5(82)-S1	(0.220)	24.22tw	323	10458	No Calib
92) Cl5(82)		24.21t	326	61538m	0.0761 ng
Corrected Values:				59237	0.0732 ng
93) Cl6(151)		24.21t	360	58878m	0.0779 ng
94) Cl6(135)		24.31	360	53400m	0.0736 ng
95) Cl4(77)-S2	(0.650)	24.44tw	288	27145	No Calib
96) Cl4(77)		24.41	292	112521m	0.0986 ng
Corrected Values:				94877	0.0833 ng
97) Cl6(144)		24.45tw	360	58650m	0.0762 ng
98) Cl6(149)		24.67	360	63391m	0.0786 ng
99) Cl6(139)		24.79	360	62785m	0.0789 ng
100) Cl5(124)-S1	(0.220)	24.90t	323	7623	No Calib
101) Cl5(124)		24.84	326	101533m	0.0809 ng
Corrected Values:				99856	0.0795 ng
102) Cl6(140)		24.90t	360	59060m	0.0772 ng
103) Cl5(123)		25.05	326	95707m	0.0795 ng
104) Cl6(134)		25.14	360	49314m	0.0786 ng
105) Cl7(188)		25.25t	394	67524m	0.0775 ng
106) Cl5(118)-S1	(0.220)	25.31t	323	13773	No Calib
107) Cl5(118)-S2	(1.080)	25.25t	322	19983	No Calib
108) Cl5(118)		25.27	326	124264m	0.0998 ng
Corrected Values:				99652	0.0801 ng
109) Cl6(131)		25.31t	360	55048m	0.0780 ng
110) Cl7(184)		25.55	394	67551m	0.0782 ng
111) Cl6(146)		25.62t	360	66013m	0.0768 ng
112) Cl5(114)-S1	(0.220)	25.62t	323	6769	No Calib
113) Cl5(114)		25.66	326	96818m	0.0802 ng
Corrected Values:				95329	0.0790 ng
115) Cl6(153)		25.88	360	68851m	0.0787 ng
116) Cl7(179)		26.10	394	64269m	0.0798 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	7018	No Calib
118) Cl5(105)		26.23	326	93503m	0.0824 ng
Corrected Values:				91959	0.0810 ng
119) Cl6(141)		26.27t	360	57339m	0.0784 ng
120) Cl7(176)		26.36	394	62230m	0.0792 ng
121) Cl6(127)-S1	(0.265)	26.49t	323	4813	No Calib
122) Cl5(127)		26.51	326	98539m	0.0800 ng
123) Cl6(137)		26.49t	360	58870m	0.0793 ng
124) Cl6(130)		26.63	360	55323m	0.0884 ng
125) Cl6(164)		26.68	360	75339m	0.0715 ng
126) Cl6(138)		26.82	360	63600m	0.0934 ng
127) Cl6(163)-S1	(0.265)	26.92tw	357	8981	No Calib

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9436A.D MF0787.M Wed Mar 25 09:03:01 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9436A.D
 Acq On : 18 Mar 2015 8:03 am
 Sample : ID18 MID
 Misc : 5-315 15-0072
 MS Integration Params: rteint.p

Vial: 1
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 16:35:34 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 16:35:26 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	79274m	0.0730 ng
Corrected Values:				76894	0.0708 ng
129) Cl7(178)		26.91tw	394	45982m	0.0788 ng
130) Cl6(158)		26.96	360	81059m	0.0788 ng
131) Cl7(175)		27.10	394	50109m	0.0804 ng
132) Cl7(187)		27.18	394	53646m	0.0786 ng
133) Cl6(166) -S1	(0.265)	27.35t	357	3804	No Calib
134) Cl6(166)		27.35t	360	80576m	0.0799 ng
Corrected Values:				79568	0.0789 ng
135) Cl7(183)		27.35t	394	51648m	0.0785 ng
136) Cl5(126)		27.52	326	91870m	0.0870 ng
137) Cl6(128) -S1	(0.265)	27.70t	357	5815	No Calib
138) Cl6(128)		27.66	360	57388m	0.0811 ng
Corrected Values:				55847	0.0790 ng
139) Cl7(185)		27.70t	394	46220m	0.0782 ng
140) Cl7(174)		27.81	394	45754m	0.0777 ng
141) Cl6(167)		27.90	360	81587m	0.0809 ng
142) Cl8(202)		27.98	428	49722m	0.0784 ng
143) Cl7(177)		28.08	394	42710m	0.0774 ng
144) Cl8(201)		28.20t	428	49739m	0.0772 ng
145) Cl7(171) -S1	(0.309)	28.19tw	391	487	No Calib
146) Cl7(171)		28.20t	394	44681m	0.0748 ng
Corrected Values:				44531	0.0745 ng
147) Cl7(173)		28.29	394	39834m	0.0770 ng
148) Cl8(197)		28.42	428	47505	0.0752 ng
149) Cl6(156) -S1	(0.265)	28.55t	357	6823	No Calib
150) Cl6(156)		28.51	360	80229m	0.0818 ng
Corrected Values:				78421	0.0800 ng
151) Cl7(172)		28.55t	394	43260m	0.0749 ng
152) Cl6(157)		28.61	360	74730m	0.0785 ng
153) Cl7(180)		28.75	394	46691m	0.0776 ng
154) Cl7(193) -S1	(0.309)	28.83t	391	546	No Calib
155) Cl7(193)		28.79	394	64656m	0.0851 ng
Corrected Values:				64487	0.0849 ng
156) Cl8(200)		28.83t	428	46296m	0.0734 ng
157) Cl7(191)		28.92	394	63937m	0.0766 ng
158) Cl7(170) -S1	(0.309)	29.51t	391	9607	No Calib
159) Cl7(170)		29.46	394	45818m	0.0784 ng
Corrected Values:				42849	0.0734 ng
160) Cl8(198)		29.49	428	33268m	0.0868 ng
161) Cl8(199)		29.51t	428	32976m	0.0593 ng
162) Cl7(190)		29.57	394	58983m	0.0736 ng
163) Cl6(169) -S2	(1.610)	29.69tw	356	13632	No Calib
164) Cl6(169)		29.66	360	88343m	0.1013 ng
Corrected Values:				66395	0.0765 ng
165) Cl8(203)		29.70tw	428	35674m	0.0714 ng
166) Cl9(208)		30.19	464	38132m	0.0708 ng
167) Cl7(189)		30.33	394	54379m	0.0715 ng
168) Cl9(207)		30.39t	464	38090m	0.0670 ng
169) Cl8(195) -S1	(0.400)	30.39t	425	155	No Calib

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9436A.D MF0787.M Wed Mar 25 09:03:01 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9436A.D
 Acq On : 18 Mar 2015 8:03 am
 Sample : ID18 MID
 Misc : 5-315 15-0072
 MS Integration Params: rteint.p

Vial: 1
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 18 16:35:34 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Wed Mar 18 16:35:26 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	28601m	0.0644 ng
Corrected Values:				28539	0.0643 ng
171) Cl8(194)		30.89	428	29233m	0.0666 ng
172) Cl8(205)		31.05	428	36993m	0.0643 ng
173) Cl9(206)		31.55	464	23707m	0.0640 ng
174) Cl10(209)		32.05	498	25686m	0.0609 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9436A.D MF0787.M Wed Mar 25 09:03:01 2015 040221CFS

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Data File : G:\F\DATA\SF0787\F9445.D
 Acq On : 18 Mar 2015 4:02 pm
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 38
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 08:35:39 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 08:35:29 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.06	326	171772m	0.1000	ng
78) Cl6(161)	25.72	360	148099m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.25tw	255	8432m	0.0000	ng
27) Cl3(34)	15.26t	256	144232m	0.0802	ng
Spiked Amount	0.0800			Recovery	= 99.50%
Corrected Values:			143094	0.0796	ng
114) Cl6(152)	22.39	360	118970m	0.0773	ng
Spiked Amount	0.0803			Recovery	= 96.24%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.74	154	372231m	0.0648	ng
3) Cl1(1)	9.91	188	243690m	0.0674	ng
4) Cl1(3)	11.12	188	249987m	0.0711	ng
5) Cl2(4)	11.39	222	111302m	0.0717	ng
6) Cl2(7)	12.27	222	186477m	0.0834	ng
7) Cl2(9)	12.24	222	188862m	0.0690	ng
8) Cl2(6)	12.52	222	189310m	0.0739	ng
9) Cl2(5)	12.74	222	175510m	0.0723	ng
10) Cl2(8)	12.81	222	206214m	0.0772	ng
11) Cl3(19)	13.28	256	88245m	0.0755	ng
12) Cl3(30)	13.68	256	143984m	0.0787	ng
13) Cl2(11)-S1 (0.135)	14.12t	221	39958	No Calib	
14) Cl2(11)	14.11tw	222	194093m	0.0796	ng
Corrected Values:			188699	0.0774	ng
15) Cl3(18)	14.12t	256	101453m	0.0769	ng
16) Cl3(17)	14.23	256	101915m	0.0766	ng
17) Cl2(12)	14.33	222	188283m	0.0787	ng
18) Cl2(13)-S1 (0.135)	14.47t	221	3424	No Calib	
19) Cl2(13)	14.47t	222	180948m	0.0799	ng
Corrected Values:			180486	0.0797	ng
20) Cl3(27)	14.47t	256	146279m	0.0792	ng
21) Cl3(24)	14.59	256	137878m	0.0785	ng
22) Cl3(16)	14.80	256	79499m	0.0787	ng
23) Cl2(15)	14.86	222	213625m	0.0772	ng
24) Cl3(32)	14.93	256	144410m	0.0787	ng
25) Cl4(54)	15.26t	292	144716m	0.0813	ng
28) Cl3(29)	15.49	256	147631m	0.0797	ng
29) Cl3(26)-S1 (0.135)	15.84tw	255	28862	No Calib	
30) Cl3(26)	15.80	256	164610m	0.0813	ng
Corrected Values:			160714	0.0794	ng
31) Cl4(50)	15.85tw	292	105681m	0.0803	ng
32) Cl3(25)	15.93	256	147585m	0.0790	ng
33) Cl3(31)-S1 (0.135)	16.29tw	255	29708	No Calib	
34) Cl3(31)	16.26	256	160851m	0.0803	ng
Corrected Values:			156840	0.0782	ng
35) Cl4(53)	16.30tw	292	105271m	0.0799	ng
36) Cl3(28)	16.38	256	157980m	0.0801	ng
37) Cl3(33)	16.48	256	146424m	0.0786	ng
38) Cl4(51)	16.56	292	109508m	0.0798	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9445.D MF0787.M Wed Mar 25 09:30:00 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9445.D
 Acq On : 18 Mar 2015 4:02 pm
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 38
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 08:35:39 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 08:35:29 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.89	292	90937m	0.0792 ng
40) Cl3(22)		16.97	256	142058m	0.0769 ng
41) Cl4(46)		17.15	292	83331m	0.0803 ng
42) Cl4(43)		17.53	292	83288m	0.0804 ng
43) Cl4(52)		17.59	292	113811m	0.0815 ng
44) Cl4(48)		17.74	292	108183m	0.0943 ng
45) Cl4(49)		17.80	292	100987m	0.0718 ng
46) Cl5(104)		17.98t	326	139953m	0.0792 ng
47) Cl4(47)-S1	(0.174)	17.98t	289	3106	No Calib
48) Cl4(47)		18.00	292	115833m	0.0790 ng
Corrected Values:				115293	0.0786 ng
49) Cl4(75)		18.08	292	152159m	0.0816 ng
50) Cl4(44)		18.44	292	95748m	0.0793 ng
51) Cl4(42)		18.65	292	95219m	0.0804 ng
52) Cl4(71)		18.88	292	139033m	0.0800 ng
53) Cl4(41)		18.97	292	84048m	0.0830 ng
54) Cl4(64)		19.26	292	146880m	0.0806 ng
55) Cl4(40)		19.33t	292	81800m	0.0840 ng
56) Cl3(37)-S1	(0.135)	19.33t	255	39907	No Calib
57) Cl3(37)		19.34tw	256	156768m	0.0841 ng
Corrected Values:				151381	0.0812 ng
58) Cl5(100)		19.70	326	112252m	0.0808 ng
59) Cl4(67)		19.99	292	146464m	0.0817 ng
60) Cl4(63)		20.39	292	140465m	0.0817 ng
61) Cl5(95)		20.52	326	97716m	0.0812 ng
62) Cl4(74)		20.60	292	150856m	0.0800 ng
63) Cl4(70)		20.73	292	150508m	0.0811 ng
64) Cl5(91)-S1	(0.220)	20.96t	323	1537	No Calib
65) Cl5(91)		20.90t	326	108512m	0.0800 ng
Corrected Values:				108174	0.0797 ng
66) Cl4(66)-S1	(0.174)	20.90t	289	24030	No Calib
67) Cl4(66)-S2	(0.650)	20.96t	288	42066	No Calib
68) Cl4(66)		20.93	292	175494m	0.0984 ng
Corrected Values:				143970	0.0808 ng
69) Cl6(155)		20.97tw	360	136923m	0.0812 ng
70) Cl4(80)		21.26	292	143795m	0.0823 ng
71) Cl5(92)		21.53T	326	95814m	0.0770 ng
72) Cl5(84)		21.53T	326	90396m	0.0845 ng
73) Cl4(56)-S1	(0.174)	21.53t	289	46842	No Calib
74) Cl4(56)		21.58	292	152184m	0.0853 ng
Corrected Values:				144033	0.0807 ng
75) Cl4(60)-S1	(0.174)	21.82	289	11120	No Calib
76) Cl4(60)		21.85tw	292	144106m	0.0820 ng
Corrected Values:				142171	0.0809 ng
77) Cl5(101)		21.84tw	326	117762m	0.0815 ng
79) Cl5(99)		22.09	326	116832m	0.0738 ng
80) Cl5(83)		22.50	326	82726m	0.0730 ng
81) Cl5(125)		22.63	326	133259m	0.0755 ng
82) Cl5(97)		22.78	326	99226m	0.0730 ng
83) Cl5(87)		23.23	326	99725m	0.0742 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9445.D MF0787.M Wed Mar 25 09:30:00 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9445.D
 Acq On : 18 Mar 2015 4:02 pm
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 38
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 08:35:39 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 08:35:29 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.31	360	113452m	0.0739 ng
85) Cl5(115)		23.45	326	116020m	0.0610 ng
86) Cl6(154)		23.52t	360	105644m	0.0757 ng
87) Cl5(85)-S1	(0.220)	23.52t	323	7016	No Calib
88) Cl5(85)		23.47	326	120232m	0.0854 ng
Corrected Values:				118688	0.0843 ng
89) Cl5(110)		23.76	326	144583m	0.0747 ng
90) Cl4(81)		23.87	292	142827m	0.0775 ng
91) Cl5(82)-S1	(0.220)	24.19t	323	15384	No Calib
92) Cl5(82)		24.19t	326	96737m	0.0758 ng
Corrected Values:				93353	0.0731 ng
93) Cl6(151)		24.20tw	360	87088m	0.0730 ng
94) Cl6(135)		24.30	360	89463m	0.0781 ng
95) Cl4(77)-S2	(0.650)	24.43t	288	39695	No Calib
96) Cl4(77)		24.40	292	167289m	0.0929 ng
Corrected Values:				141487	0.0788 ng
97) Cl6(144)		24.43t	360	92944m	0.0765 ng
98) Cl6(149)		24.66	360	95655m	0.0752 ng
99) Cl6(139)		24.78	360	95625m	0.0762 ng
100) Cl5(124)-S1	(0.220)	24.89t	323	12238	No Calib
101) Cl5(124)		24.84	326	154683m	0.0781 ng
Corrected Values:				151991	0.0767 ng
102) Cl6(140)		24.89t	360	95697m	0.0792 ng
103) Cl5(123)		25.04	326	143805m	0.0757 ng
104) Cl6(134)		25.13	360	76060m	0.0768 ng
105) Cl7(188)		25.24tw	394	104480m	0.0760 ng
106) Cl5(118)-S1	(0.220)	25.29tw	323	20319	No Calib
107) Cl5(118)-S2	(1.080)	25.23tw	322	30263	No Calib
108) Cl5(118)		25.26	326	186119m	0.0948 ng
Corrected Values:				148965	0.0759 ng
109) Cl6(131)		25.30tw	360	84471m	0.0759 ng
110) Cl7(184)		25.53	394	104030m	0.0763 ng
111) Cl6(146)		25.61t	360	104116m	0.0768 ng
112) Cl5(114)-S1	(0.220)	25.61t	323	9982	No Calib
113) Cl5(114)		25.64	326	150569m	0.0791 ng
Corrected Values:				148373	0.0779 ng
115) Cl6(153)		25.87	360	105356m	0.0764 ng
116) Cl7(179)		26.09	394	99282m	0.0781 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	10484	No Calib
118) Cl5(105)		26.21	326	139337m	0.0778 ng
Corrected Values:				137031	0.0766 ng
119) Cl6(141)		26.27t	360	88759m	0.0769 ng
120) Cl7(176)		26.35	394	96175m	0.0775 ng
121) Cl6(127)-S1	(0.265)	26.47t	323	7158	No Calib
122) Cl5(127)		26.50	326	151683m	0.0781 ng
123) Cl6(137)		26.47t	360	91969m	0.0785 ng
124) Cl6(130)		26.61	360	74157m	0.0751 ng
125) Cl6(164)		26.67	360	113108m	0.0680 ng
126) Cl6(138)		26.80	360	98560m	0.0918 ng
127) Cl6(163)-S1	(0.265)	26.90t	357	13585	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9445.D MF0787.M Wed Mar 25 09:30:00 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9445.D
 Acq On : 18 Mar 2015 4:02 pm
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 38
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 08:35:39 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 08:35:29 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	119654m	0.0698 ng
Corrected Values:				116054	0.0677 ng
129) Cl7(178)		26.90t	394	70678m	0.0768 ng
130) Cl6(158)		26.95	360	123871m	0.0763 ng
131) Cl7(175)		27.09	394	73621m	0.0749 ng
132) Cl7(187)		27.17	394	83174m	0.0772 ng
133) Cl6(166) -S1	(0.265)	27.35tw	357	5623	No Calib
134) Cl6(166)		27.34t	360	122847m	0.0772 ng
Corrected Values:				121357	0.0763 ng
135) Cl7(183)		27.34t	394	78167m	0.0753 ng
136) Cl5(126)		27.51	326	136431m	0.0820 ng
137) Cl6(128) -S1	(0.265)	27.69t	357	8700	No Calib
138) Cl6(128)		27.66	360	87490m	0.0784 ng
Corrected Values:				85184	0.0764 ng
139) Cl7(185)		27.69t	394	72252m	0.0774 ng
140) Cl7(174)		27.79	394	70954m	0.0763 ng
141) Cl6(167)		27.89	360	123037m	0.0774 ng
142) Cl8(202)		27.96	428	76775m	0.0767 ng
143) Cl7(177)		28.07	394	66546m	0.0764 ng
144) Cl8(201)		28.19t	428	76654m	0.0754 ng
145) Cl7(171) -S1	(0.309)	28.20tw	391	683	No Calib
146) Cl7(171)		28.19t	394	70627m	0.0749 ng
Corrected Values:				70416	0.0747 ng
147) Cl7(173)		28.28	394	64792m	0.0794 ng
148) Cl8(197)		28.42	428	76907m	0.0772 ng
149) Cl6(156) -S1	(0.265)	28.54t	357	10432	No Calib
150) Cl6(156)		28.50	360	124181m	0.0802 ng
Corrected Values:				121417	0.0785 ng
151) Cl7(172)		28.54t	394	68671m	0.0754 ng
152) Cl6(157)		28.60	360	116920m	0.0779 ng
153) Cl7(180)		28.74	394	72555m	0.0764 ng
154) Cl7(193) -S1	(0.309)	28.82t	391	617	No Calib
155) Cl7(193)		28.78	394	102777m	0.0857 ng
Corrected Values:				102586	0.0856 ng
156) Cl8(200)		28.82t	428	73696m	0.0740 ng
157) Cl7(191)		28.91	394	101912m	0.0773 ng
158) Cl7(170) -S1	(0.309)	29.50t	391	15044	No Calib
159) Cl7(170)		29.45	394	75376m	0.0816 ng
Corrected Values:				70727	0.0767 ng
160) Cl8(198)		29.47	428	40868m	0.0689 ng
161) Cl8(199)		29.50t	428	56064m	0.0640 ng
162) Cl7(190)		29.56	394	97307m	0.0769 ng
163) Cl6(169) -S2	(1.610)	29.68tw	356	20960	No Calib
164) Cl6(169)		29.65	360	147162m	0.1068 ng
Corrected Values:				113416	0.0826 ng
165) Cl8(203)		29.69tw	428	60274m	0.0763 ng
166) Cl9(208)		30.18	464	64900m	0.0763 ng
167) Cl7(189)		30.33	394	103879m	0.0862 ng
168) Cl9(207)		30.38t	464	66728m	0.0743 ng
169) Cl8(195) -S1	(0.400)	30.38t	425	264	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9445.D MF0787.M Wed Mar 25 09:30:00 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9445.D
 Acq On : 18 Mar 2015 4:02 pm
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 38
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 08:35:39 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 08:35:29 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39tw	428	51240m	0.0729 ng
Corrected Values:				51134	0.0728 ng
171) Cl8(194)		30.88	428	51937m	0.0748 ng
172) Cl8(205)		31.04	428	64643m	0.0711 ng
173) Cl9(206)		31.54	464	36774m	0.0629 ng
174) Cl10(209)		32.04	498	38757m	0.0582 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9445.D MF0787.M Wed Mar 25 09:30:00 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0787\F9457.D
 Acq On : 19 Mar 2015 1:37 am
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 48
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 10:19:26 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 10:19:21 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.06	326	173253m	0.1000	ng
78) Cl6(161)	25.72	360	141923m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.25tw	255	7929m	0.0000	ng
27) Cl3(34)	15.26t	256	145275m	0.0801	ng
Spiked Amount	0.0800			Recovery	= 99.38%
Corrected Values:			144205	0.0795	ng
114) Cl6(152)	22.38	360	118071m	0.0801	ng
Spiked Amount	0.0803			Recovery	= 99.73%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.74	154	365803m	0.0631	ng
3) Cl1(1)	9.91	188	246010m	0.0674	ng
4) Cl1(3)	11.12	188	251688m	0.0710	ng
5) Cl2(4)	11.39	222	109964m	0.0702	ng
6) Cl2(7)	12.28	222	150070m	0.0662	ng
7) Cl2(9)	12.24	222	226601m	0.0821	ng
8) Cl2(6)	12.52	222	188255m	0.0728	ng
9) Cl2(5)	12.74	222	177867m	0.0726	ng
10) Cl2(8)	12.81	222	204236m	0.0758	ng
11) Cl3(19)	13.27	256	88340m	0.0749	ng
12) Cl3(30)	13.68	256	144910m	0.0785	ng
13) Cl2(11)-S1 (0.135)	14.11t	221	38460	No Calib	
14) Cl2(11)	14.11t	222	194800m	0.0792	ng
Corrected Values:			189608	0.0771	ng
15) Cl3(18)	14.12tw	256	102408m	0.0769	ng
16) Cl3(17)	14.23	256	101897m	0.0759	ng
17) Cl2(12)	14.32	222	189092m	0.0784	ng
18) Cl2(13)-S1 (0.135)	14.47t	221	3007	No Calib	
19) Cl2(13)	14.47t	222	178628m	0.0782	ng
Corrected Values:			178222	0.0780	ng
20) Cl3(27)	14.47t	256	145429m	0.0781	ng
21) Cl3(24)	14.59	256	135945m	0.0767	ng
22) Cl3(16)	14.79	256	79978m	0.0785	ng
23) Cl2(15)	14.85	222	221875m	0.0796	ng
24) Cl3(32)	14.93	256	143748m	0.0776	ng
25) Cl4(54)	15.26t	292	142310m	0.0792	ng
28) Cl3(29)	15.49	256	146859m	0.0786	ng
29) Cl3(26)-S1 (0.135)	15.84tw	255	29129	No Calib	
30) Cl3(26)	15.80	256	162420m	0.0795	ng
Corrected Values:			158488	0.0776	ng
31) Cl4(50)	15.85tw	292	105887m	0.0798	ng
32) Cl3(25)	15.92	256	147160m	0.0781	ng
33) Cl3(31)-S1 (0.135)	16.30t	255	29429	No Calib	
34) Cl3(31)	16.26	256	165822m	0.0820	ng
Corrected Values:			161849	0.0801	ng
35) Cl4(53)	16.30t	292	106477m	0.0801	ng
36) Cl3(28)	16.38	256	158767m	0.0798	ng
37) Cl3(33)	16.49	256	148493m	0.0790	ng
38) Cl4(51)	16.56	292	110050m	0.0795	ng

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9457.D MF0787.M Wed Mar 25 09:03:06 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9457.D
 Acq On : 19 Mar 2015 1:37 am
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 48
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 10:19:26 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 10:19:21 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.88	292	92147m	0.0796 ng
40) Cl3(22)		16.97	256	144664m	0.0776 ng
41) Cl4(46)		17.15	292	82072m	0.0784 ng
42) Cl4(43)		17.54	292	86137m	0.0824 ng
43) Cl4(52)		17.59	292	112479m	0.0799 ng
44) Cl4(48)		17.75	292	98041m	0.0851 ng
45) Cl4(49)		17.80	292	102948m	0.0726 ng
46) Cl5(104)		17.99tw	326	143725m	0.0807 ng
47) Cl4(47)-S1	(0.174)	17.98tw	289	3281	No Calib
48) Cl4(47)		18.00tw	292	119623m	0.0809 ng
Corrected Values:				119052	0.0805 ng
49) Cl4(75)		18.08	292	153333m	0.0815 ng
50) Cl4(44)		18.44	292	97356m	0.0799 ng
51) Cl4(42)		18.64	292	95523m	0.0800 ng
52) Cl4(71)		18.87	292	134547m	0.0767 ng
53) Cl4(41)		18.96	292	82858m	0.0811 ng
54) Cl4(64)		19.25	292	149248m	0.0812 ng
55) Cl4(40)		19.33t	292	80662m	0.0822 ng
56) Cl3(37)-S1	(0.135)	19.33t	255	41710	No Calib
57) Cl3(37)		19.33t	256	162098m	0.0862 ng
Corrected Values:				156467	0.0832 ng
58) Cl5(100)		19.70	326	113936m	0.0813 ng
59) Cl4(67)		19.99	292	149505m	0.0826 ng
60) Cl4(63)		20.39	292	140258m	0.0809 ng
61) Cl5(95)		20.52	326	97895m	0.0806 ng
62) Cl4(74)		20.59	292	151382m	0.0796 ng
63) Cl4(70)		20.73	292	152160m	0.0813 ng
64) Cl5(91)-S1	(0.220)	20.96tw	323	2142	No Calib
65) Cl5(91)		20.90tw	326	111242m	0.0813 ng
Corrected Values:				110771	0.0809 ng
66) Cl4(66)-S1	(0.174)	20.89tw	289	24331	No Calib
67) Cl4(66)-S2	(0.650)	20.97tw	288	42390	No Calib
68) Cl4(66)		20.92	292	176146m	0.0980 ng
Corrected Values:				144358	0.0803 ng
69) Cl6(155)		20.98tw	360	137606m	0.0809 ng
70) Cl4(80)		21.26	292	145057m	0.0824 ng
71) Cl5(92)		21.53T	326	116645m	0.0927 ng
72) Cl5(84)		21.53T	326	87536m	0.0811 ng
73) Cl4(56)-S1	(0.174)	21.54tw	289	47109	No Calib
74) Cl4(56)		21.58	292	152554m	0.0848 ng
Corrected Values:				144357	0.0802 ng
75) Cl4(60)-S1	(0.174)	21.82tw	289	10832	No Calib
76) Cl4(60)		21.84tw	292	144710m	0.0817 ng
Corrected Values:				142825	0.0806 ng
77) Cl5(101)		21.83tw	326	116483m	0.0800 ng
79) Cl5(99)		22.10	326	120027m	0.0791 ng
80) Cl5(83)		22.50	326	80862m	0.0745 ng
81) Cl5(125)		22.63	326	125925m	0.0744 ng
82) Cl5(97)		22.77	326	98676m	0.0757 ng
83) Cl5(87)		23.23	326	100277m	0.0778 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9457.D MF0787.M Wed Mar 25 09:03:06 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9457.D
 Acq On : 19 Mar 2015 1:37 am
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 48
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 10:19:26 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 10:19:21 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.31	360	114069m	0.0775 ng
85) Cl5(115)		23.46Tw	326	120766m	0.0661 ng
86) Cl6(154)		23.52t	360	102735m	0.0768 ng
87) Cl5(85)-S1	(0.220)	23.52t	323	6916	No Calib
88) Cl5(85)		23.47Tw	326	99724m	0.0739 ng
Corrected Values:				98202	0.0727 ng
89) Cl5(110)		23.76	326	146128m	0.0788 ng
90) Cl4(81)		23.86	292	142684m	0.0807 ng
91) Cl5(82)-S1	(0.220)	24.19t	323	15962	No Calib
92) Cl5(82)		24.19t	326	93308m	0.0763 ng
Corrected Values:				89796	0.0734 ng
93) Cl6(151)		24.19t	360	89523m	0.0784 ng
94) Cl6(135)		24.30	360	86973m	0.0792 ng
95) Cl4(77)-S2	(0.650)	24.42tw	288	38424	No Calib
96) Cl4(77)		24.41tw	292	169932m	0.0984 ng
Corrected Values:				144956	0.0842 ng
97) Cl6(144)		24.43tw	360	90835m	0.0780 ng
98) Cl6(149)		24.66	360	93085m	0.0763 ng
99) Cl6(139)		24.78	360	93142m	0.0774 ng
100) Cl5(124)-S1	(0.220)	24.89t	323	11732	No Calib
101) Cl5(124)		24.84	326	151216m	0.0796 ng
Corrected Values:				148635	0.0783 ng
102) Cl6(140)		24.89t	360	90901m	0.0785 ng
103) Cl5(123)		25.04	326	145727m	0.0800 ng
104) Cl6(134)		25.13	360	76212m	0.0803 ng
105) Cl7(188)		25.24tw	394	102770m	0.0780 ng
106) Cl5(118)-S1	(0.220)	25.29tw	323	19499	No Calib
107) Cl5(118)-S2	(1.080)	25.23tw	322	29626	No Calib
108) Cl5(118)		25.26	326	183326m	0.0974 ng
Corrected Values:				147040	0.0782 ng
109) Cl6(131)		25.30tw	360	83308m	0.0781 ng
110) Cl7(184)		25.53	394	102500m	0.0785 ng
111) Cl6(146)		25.61t	360	102774m	0.0790 ng
112) Cl5(114)-S1	(0.220)	25.61t	323	10017	No Calib
113) Cl5(114)		25.64	326	148005m	0.0811 ng
Corrected Values:				145801	0.0799 ng
115) Cl6(153)		25.87	360	103898m	0.0786 ng
116) Cl7(179)		26.09	394	98435m	0.0808 ng
117) Cl5(105)-S1	(0.220)	26.27t	323	9745	No Calib
118) Cl5(105)		26.21	326	139677m	0.0814 ng
Corrected Values:				137533	0.0801 ng
119) Cl6(141)		26.27t	360	87646m	0.0792 ng
120) Cl7(176)		26.35	394	94119m	0.0792 ng
121) Cl6(127)-S1	(0.265)	26.47t	323	7855	No Calib
122) Cl5(127)		26.50	326	149611m	0.0803 ng
123) Cl6(137)		26.47t	360	90599m	0.0807 ng
124) Cl6(130)		26.61	360	73450m	0.0776 ng
125) Cl6(164)		26.67	360	111323m	0.0698 ng
126) Cl6(138)		26.81	360	83889m	0.0822 ng
127) Cl6(163)-S1	(0.265)	26.90tw	357	13696	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9457.D MF0787.M Wed Mar 25 09:03:06 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9457.D
 Acq On : 19 Mar 2015 1:37 am
 Sample : ID18 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 48
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 10:19:26 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 10:19:21 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.86	360	115717m	0.0704 ng
Corrected Values:				112088	0.0682 ng
129) Cl7(178)		26.89tw	394	70372m	0.0797 ng
130) Cl6(158)		26.95	360	122879m	0.0789 ng
131) Cl7(175)		27.09	394	74174m	0.0787 ng
132) Cl7(187)		27.17	394	80813m	0.0783 ng
133) Cl6(166) -S1	(0.265)	27.34t	357	5346	No Calib
134) Cl6(166)		27.34t	360	121475m	0.0797 ng
Corrected Values:				120058	0.0788 ng
135) Cl7(183)		27.35tw	394	78072m	0.0785 ng
136) Cl5(126)		27.51	326	135294m	0.0848 ng
137) Cl6(128) -S1	(0.265)	27.69t	357	9137	No Calib
138) Cl6(128)		27.66	360	87119m	0.0814 ng
Corrected Values:				84698	0.0792 ng
139) Cl7(185)		27.69t	394	70789m	0.0791 ng
140) Cl7(174)		27.80	394	70602m	0.0792 ng
141) Cl6(167)		27.89	360	122858m	0.0806 ng
142) Cl8(202)		27.96	428	76084m	0.0793 ng
143) Cl7(177)		28.06	394	65744m	0.0787 ng
144) Cl8(201)		28.19t	428	76356m	0.0784 ng
145) Cl7(171) -S1	(0.309)	28.18tw	391	639	No Calib
146) Cl7(171)		28.19t	394	69222m	0.0766 ng
Corrected Values:				69025	0.0763 ng
147) Cl7(173)		28.28	394	61080m	0.0781 ng
148) Cl8(197)		28.41	428	76046m	0.0796 ng
149) Cl6(156) -S1	(0.265)	28.54t	357	10978	No Calib
150) Cl6(156)		28.50	360	121868m	0.0821 ng
Corrected Values:				118959	0.0802 ng
151) Cl7(172)		28.54t	394	68251m	0.0781 ng
152) Cl6(157)		28.60	360	116108m	0.0807 ng
153) Cl7(180)		28.74	394	73450m	0.0807 ng
154) Cl7(193) -S1	(0.309)	28.81tw	391	608	No Calib
155) Cl7(193)		28.78	394	98421m	0.0857 ng
Corrected Values:				98233	0.0855 ng
156) Cl8(200)		28.82tw	428	73700m	0.0772 ng
157) Cl7(191)		28.91	394	101292m	0.0802 ng
158) Cl7(170) -S1	(0.309)	29.49t	391	14381	No Calib
159) Cl7(170)		29.44	394	71219m	0.0805 ng
Corrected Values:				66775	0.0755 ng
160) Cl8(198)		29.47	428	40882m	0.0718 ng
161) Cl8(199)		29.49t	428	51873m	0.0617 ng
162) Cl7(190)		29.56	394	93539m	0.0772 ng
163) Cl6(169) -S2	(1.610)	29.68tw	356	20554	No Calib
164) Cl6(169)		29.65	360	138639m	0.1050 ng
Corrected Values:				105547	0.0803 ng
165) Cl8(203)		29.69tw	428	55326m	0.0731 ng
166) Cl9(208)		30.18	464	59228m	0.0727 ng
167) Cl7(189)		30.33	394	88468m	0.0768 ng
168) Cl9(207)		30.38t	464	60688m	0.0706 ng
169) Cl8(195) -S1	(0.400)	30.38t	425	297	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9457.D MF0787.M Wed Mar 25 09:03:07 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9457.D

Vial: 48

Acq On : 19 Mar 2015 1:37 am

Operator: DMS

Sample : ID18 MID

Inst : Inst. F

Misc : 5-315 CCV

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 19 10:19:26 2015

Quant Results File: MF0787.RES

Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 19 10:19:21 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39tw	428	47467m	0.0706 ng
Corrected Values:				47348	0.0704 ng
171) Cl8(194)		30.88	428	46417m	0.0699 ng
172) Cl8(205)		31.04	428	56605m	0.0651 ng
173) Cl9(206)		31.54	464	31659m	0.0566 ng
174) Cl10(209)		32.04	498	31405m	0.0493 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9457.D MF0787.M Wed Mar 25 09:03:07 2015

040221CFS

Page 5

Data File : G:\F\DATA\SF0787\F9467.D
 Acq On : 19 Mar 2015 9:36 am
 Sample : ID19 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 58
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 11:31:06 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 11:30:35 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.06	326	161553m	0.1000	ng
78) Cl6(161)	25.72	360	126836m	0.1000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.25tw	255	14475m	0.0000	ng
27) Cl3(34)	15.26t	256	270015m	0.1603	ng
Spiked Amount	0.1600			Recovery	= 99.50%
Corrected Values:			268061	0.1592	ng
114) Cl6(152)	22.38	360	214454m	0.1645	ng
Spiked Amount	0.1606			Recovery	= 102.40%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	8.74	154	716441m	0.1406	ng
3) Cl1(1)	9.91	188	479503m	0.1480	ng
4) Cl1(3)	11.12	188	490274m	0.1539	ng
5) Cl2(4)	11.39	222	213751m	0.1511	ng
6) Cl2(7)	12.27	222	357446m	0.1765	ng
7) Cl2(9)	12.24	222	359714m	0.1412	ng
8) Cl2(6)	12.51	222	359071m	0.1545	ng
9) Cl2(5)	12.74	222	335686m	0.1505	ng
10) Cl2(8)	12.80	222	392849m	0.1624	ng
11) Cl3(19)	13.27	256	167797m	0.1559	ng
12) Cl3(30)	13.68	256	266669m	0.1570	ng
13) Cl2(11)-S1 (0.135)	14.11t	221	73863	No Calib	
14) Cl2(11)	14.11t	222	372668m	0.1636	ng
Corrected Values:			362696	0.1592	ng
15) Cl3(18)	14.12tw	256	192217m	0.1559	ng
16) Cl3(17)	14.23	256	194399m	0.1575	ng
17) Cl2(12)	14.32	222	353945m	0.1592	ng
18) Cl2(13)-S1 (0.135)	14.47t	221	6434	No Calib	
19) Cl2(13)	14.47t	222	343347m	0.1631	ng
Corrected Values:			342478	0.1626	ng
20) Cl3(27)	14.47t	256	268107m	0.1563	ng
21) Cl3(24)	14.59	256	261780m	0.1607	ng
22) Cl3(16)	14.80	256	148517m	0.1580	ng
23) Cl2(15)	14.85	222	409083m	0.1614	ng
24) Cl3(32)	14.93	256	271304m	0.1582	ng
25) Cl4(54)	15.26t	292	263295m	0.1593	ng
28) Cl3(29)	15.49	256	274921m	0.1592	ng
29) Cl3(26)-S1 (0.135)	15.84t	255	53359	No Calib	
30) Cl3(26)	15.80	256	301440m	0.1603	ng
Corrected Values:			294237	0.1563	ng
31) Cl4(50)	15.84t	292	193845m	0.1583	ng
32) Cl3(25)	15.92	256	279377m	0.1596	ng
33) Cl3(31)-S1 (0.135)	16.29tw	255	56700	No Calib	
34) Cl3(31)	16.26	256	306225m	0.1638	ng
Corrected Values:			298570	0.1597	ng
35) Cl4(53)	16.30tw	292	197552m	0.1608	ng
36) Cl3(28)	16.38	256	301289m	0.1630	ng
37) Cl3(33)	16.48	256	278183m	0.1598	ng
38) Cl4(51)	16.56	292	204122m	0.1606	ng

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9467.D MF0787.M Wed Mar 25 09:03:10 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9467.D
 Acq On : 19 Mar 2015 9:36 am
 Sample : ID19 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 58
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 11:31:06 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 11:30:35 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.89	292	171083m	0.1604 ng
40) Cl3(22)		16.97	256	278650m	0.1631 ng
41) Cl4(46)		17.15	292	155800m	0.1617 ng
42) Cl4(43)		17.53	292	140835m	0.1442 ng
43) Cl4(52)		17.59	292	209366m	0.1604 ng
44) Cl4(48)		17.75	292	183305m	0.1639 ng
45) Cl4(49)		17.81	292	215199m	0.1695 ng
46) Cl5(104)		17.98t	326	261208m	0.1588 ng
47) Cl4(47)-S1	(0.174)	17.98t	289	5754	No Calib
48) Cl4(47)		17.99tw	292	221926m	0.1641 ng
Corrected Values:				220925	0.1633 ng
49) Cl4(75)		18.08	292	286981m	0.1656 ng
50) Cl4(44)		18.44	292	182863m	0.1618 ng
51) Cl4(42)		18.64	292	178688m	0.1609 ng
52) Cl4(71)		18.88	292	264182m	0.1623 ng
53) Cl4(41)		18.96	292	155138m	0.1600 ng
54) Cl4(64)		19.25	292	278852m	0.1631 ng
55) Cl4(40)		19.33t	292	149445m	0.1626 ng
56) Cl3(37)-S1	(0.135)	19.33t	255	78617	No Calib
57) Cl3(37)		19.34tw	256	303340m	0.1724 ng
Corrected Values:				292727	0.1664 ng
58) Cl5(100)		19.69	326	211469m	0.1624 ng
59) Cl4(67)		19.99	292	276109m	0.1634 ng
60) Cl4(63)		20.38	292	266536m	0.1646 ng
61) Cl5(95)		20.52	326	183998m	0.1621 ng
62) Cl4(74)		20.60	292	279892m	0.1594 ng
63) Cl4(70)		20.72	292	280283m	0.1625 ng
64) Cl5(91)-S1	(0.220)	20.96t	323	2656	No Calib
65) Cl5(91)		20.89tw	326	205064m	0.1610 ng
Corrected Values:				204480	0.1605 ng
66) Cl4(66)-S1	(0.174)	20.90tw	289	45835	No Calib
67) Cl4(66)-S2	(0.650)	20.96t	288	79402	No Calib
68) Cl4(66)		20.92	292	332456m	0.1984 ng
Corrected Values:				272870	0.1627 ng
69) Cl6(155)		20.96t	360	252661m	0.1601 ng
70) Cl4(80)		21.26	292	268259m	0.1632 ng
71) Cl5(92)		21.53T	326	193518m	0.1648 ng
72) Cl5(84)		21.53T	326	157835m	0.1575 ng
73) Cl4(56)-S1	(0.174)	21.53t	289	89065	No Calib
74) Cl4(56)		21.58	292	285417m	0.1710 ng
Corrected Values:				269920	0.1615 ng
75) Cl4(60)-S1	(0.174)	21.82t	289	20616	No Calib
76) Cl4(60)		21.84	292	270154m	0.1641 ng
Corrected Values:				266567	0.1619 ng
77) Cl5(101)		21.82t	326	217939m	0.1605 ng
79) Cl5(99)		22.10	326	222073m	0.1659 ng
80) Cl5(83)		22.49	326	148210m	0.1549 ng
81) Cl5(125)		22.63	326	235045m	0.1553 ng
82) Cl5(97)		22.77	326	177458m	0.1549 ng
83) Cl5(87)		23.23	326	182910m	0.1599 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9467.D MF0787.M Wed Mar 25 09:03:11 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9467.D
 Acq On : 19 Mar 2015 9:36 am
 Sample : ID19 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 58
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 11:31:06 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 11:30:35 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.31	360	208414m	0.1593 ng
85) Cl5(115)		23.45	326	227768m	0.1388 ng
86) Cl6(154)		23.51tw	360	188318m	0.1583 ng
87) Cl5(85)-S1	(0.220)	23.52tw	323	12384	No Calib
88) Cl5(85)		23.47	326	201367m	0.1679 ng
Corrected Values:				198643	0.1656 ng
89) Cl5(110)		23.76	326	266772m	0.1614 ng
90) Cl4(81)		23.86	292	262513m	0.1660 ng
91) Cl5(82)-S1	(0.220)	24.18tw	323	27158	No Calib
92) Cl5(82)		24.19t	326	177996m	0.1672 ng
Corrected Values:				172021	0.1612 ng
93) Cl6(151)		24.19t	360	161916m	0.1605 ng
94) Cl6(135)		24.30	360	161744m	0.1650 ng
95) Cl4(77)-S2	(0.650)	24.42tw	288	74274	No Calib
96) Cl4(77)		24.40	292	316255m	0.2035 ng
Corrected Values:				267977	0.1727 ng
97) Cl6(144)		24.43tw	360	170247m	0.1646 ng
98) Cl6(149)		24.66	360	177674m	0.1626 ng
99) Cl6(139)		24.78	360	171829m	0.1588 ng
100) Cl5(124)-S1	(0.220)	24.88tw	323	22114	No Calib
101) Cl5(124)		24.84	326	285494m	0.1682 ng
Corrected Values:				280629	0.1653 ng
102) Cl6(140)		24.89tw	360	175358m	0.1681 ng
103) Cl5(123)		25.04	326	268824m	0.1645 ng
104) Cl6(134)		25.13	360	140720m	0.1661 ng
105) Cl7(188)		25.23t	394	186938m	0.1598 ng
106) Cl5(118)-S1	(0.220)	25.29t	323	37809	No Calib
107) Cl5(118)-S2	(1.080)	25.23t	322	56503	No Calib
108) Cl5(118)		25.26	326	347201m	0.2080 ng
Corrected Values:				277860	0.1657 ng
109) Cl6(131)		25.29t	360	156194m	0.1631 ng
110) Cl7(184)		25.53	394	189535m	0.1624 ng
111) Cl6(146)		25.61t	360	186386m	0.1592 ng
112) Cl5(114)-S1	(0.220)	25.61t	323	19735	No Calib
113) Cl5(114)		25.63	326	272217m	0.1680 ng
Corrected Values:				267875	0.1653 ng
115) Cl6(153)		25.86	360	192229m	0.1626 ng
116) Cl7(179)		26.09	394	173881m	0.1596 ng
117) Cl5(105)-S1	(0.220)	26.26t	323	19409	No Calib
118) Cl5(105)		26.21	326	264143m	0.1707 ng
Corrected Values:				259873	0.1680 ng
119) Cl6(141)		26.26t	360	161447m	0.1632 ng
120) Cl7(176)		26.35	394	170648m	0.1604 ng
121) Cl6(127)-S1	(0.265)	26.47tw	323	13186	No Calib
122) Cl5(127)		26.49tw	326	275444m	0.1649 ng
123) Cl6(137)		26.48tw	360	163115m	0.1627 ng
124) Cl6(130)		26.61	360	137787m	0.1637 ng
125) Cl6(164)		26.66	360	216363m	0.1575 ng
126) Cl6(138)		26.81	360	155300m	0.1593 ng
127) Cl6(163)-S1	(0.265)	26.89tw	357	24030	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9467.D MF0787.M Wed Mar 25 09:03:11 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9467.D
 Acq On : 19 Mar 2015 9:36 am
 Sample : ID19 MID
 Misc : 5-315 CCV
 MS Integration Params: rteint.p

Vial: 58
 Operator: DMS
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 19 11:31:06 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 19 11:30:35 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.85	360	226640m	0.1595 ng
Corrected Values:				220272	0.1546 ng
129) Cl7(178)		26.90tw	394	121996m	0.1539 ng
130) Cl6(158)		26.95	360	225187m	0.1612 ng
131) Cl7(175)		27.08	394	135355m	0.1606 ng
132) Cl7(187)		27.16	394	143132m	0.1549 ng
133) Cl6(166) -S1	(0.265)	27.34t	357	9837	No Calib
134) Cl6(166)		27.34t	360	219347m	0.1614 ng
Corrected Values:				216740	0.1594 ng
135) Cl7(183)		27.34t	394	137336m	0.1536 ng
136) Cl5(126)		27.50	326	245595m	0.1697 ng
137) Cl6(128) -S1	(0.265)	27.68t	357	15872	No Calib
138) Cl6(128)		27.65	360	156147m	0.1623 ng
Corrected Values:				151941	0.1579 ng
139) Cl7(185)		27.68t	394	126153m	0.1572 ng
140) Cl7(174)		27.79	394	122639m	0.1542 ng
141) Cl6(167)		27.88	360	223765m	0.1635 ng
142) Cl8(202)		27.96	428	133270m	0.1555 ng
143) Cl7(177)		28.06	394	117118m	0.1563 ng
144) Cl8(201)		28.19t	428	133419m	0.1532 ng
145) Cl7(171) -S1	(0.309)	28.18tw	391	1125	No Calib
146) Cl7(171)		28.19t	394	123613m	0.1516 ng
Corrected Values:				123265	0.1512 ng
147) Cl7(173)		28.27	394	110454m	0.1579 ng
148) Cl8(197)		28.41	428	131052m	0.1534 ng
149) Cl6(156) -S1	(0.265)	28.54t	357	18734	No Calib
150) Cl6(156)		28.50	360	219599m	0.1644 ng
Corrected Values:				214634	0.1607 ng
151) Cl7(172)		28.54t	394	120583m	0.1536 ng
152) Cl6(157)		28.60	360	207476m	0.1607 ng
153) Cl7(180)		28.73	394	133578m	0.1645 ng
154) Cl7(193) -S1	(0.309)	28.81t	391	1123	No Calib
155) Cl7(193)		28.78	394	168141m	0.1584 ng
Corrected Values:				167794	0.1581 ng
156) Cl8(200)		28.81t	428	128460m	0.1507 ng
157) Cl7(191)		28.90	394	173417m	0.1531 ng
158) Cl7(170) -S1	(0.309)	29.49t	391	24931	No Calib
159) Cl7(170)		29.44	394	125659m	0.1584 ng
Corrected Values:				117955	0.1487 ng
160) Cl8(198)		29.48Tw	428	75467m	0.1366 ng
161) Cl8(199)		29.49t	428	82684m	0.1157 ng
162) Cl7(190)		29.56	394	160128m	0.1478 ng
163) Cl6(169) -S2	(1.610)	29.68t	356	35393	No Calib
164) Cl6(169)		29.65	360	248530m	0.2098 ng
Corrected Values:				191547	0.1618 ng
165) Cl8(203)		29.68t	428	99371m	0.1455 ng
166) Cl9(208)		30.18	464	100736m	0.1383 ng
167) Cl7(189)		30.33	394	158441m	0.1526 ng
168) Cl9(207)		30.38t	464	102115m	0.1325 ng
169) Cl8(195) -S1	(0.400)	30.38t	425	421	No Calib

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9467.D MF0787.M Wed Mar 25 09:03:11 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9467.D

Acq On : 19 Mar 2015 9:36 am

Sample : ID19 MID

Misc : 5-315 CCV

MS Integration Params: rteint.p

Vial: 58

Operator: DMS

Inst : Inst. F

Multiplr: 1.00

Quant Time: Mar 19 11:31:06 2015

Quant Results File: MF0787.RES

Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 19 11:30:35 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39tw	428	82584m	0.1365 ng
Corrected Values:				82416	0.1362 ng
171) Cl8(194)		30.88	428	80610m	0.1340 ng
172) Cl8(205)		31.03	428	101885m	0.1294 ng
173) Cl9(206)		31.53	464	57630m	0.1136 ng
174) Cl10(209)		32.04	498	54327m	0.0949 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9467.D MF0787.M Wed Mar 25 09:03:11 2015

040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9329.D
 Acq On : 11 Mar 2015 8:09 pm
 Sample : CF064PB-P(0)
 Misc : Procedural Blank 5-315 15-0072
 MS Integration Params: rteint.p

Vial: 12
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 09:42:32 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:20:09 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	44511m	100.0000	ng
78) Cl6(161)	25.73	360	37518m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.28t	255	405m	0.0000	ng
27) Cl3(34)	15.28t	256	217116m	388.9260	ng
Spiked Amount	400.0000			Recovery	= 97.21%
Corrected Values:			217061	388.8291	ng
114) Cl6(152)	22.40	360	146851m	378.0483	ng
Spiked Amount	401.6000			Recovery	= 94.14%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	0.00	154	0	N.D.	d
3) Cl1(1)	0.00	188	0	N.D.	
4) Cl1(3)	0.00	188	0	N.D.	
5) Cl2(4)	0.00	222	0	N.D.	
6) Cl2(7)	0.00	222	0	N.D.	
7) Cl2(9)	0.00	222	0	N.D.	
8) Cl2(6)	0.00	222	0	N.D.	
9) Cl2(5)	0.00	222	0	N.D.	
10) Cl2(8)	0.00	222	0	N.D.	
11) Cl3(19)	0.00	256	0	N.D.	
12) Cl3(30)	0.00	256	0	N.D.	
13) Cl2(11)-S1 (0.135)	0.00	221	0	N.D.	
14) Cl2(11)	0.00	222	0	N.D.	
Corrected Values:			0	ng	
15) Cl3(18)	0.00	256	0	N.D.	
16) Cl3(17)	0.00	256	0	N.D.	
17) Cl2(12)	0.00	222	0	N.D.	
18) Cl2(13)-S1 (0.135)	0.00	221	0	N.D.	
19) Cl2(13)	0.00	222	0	N.D.	
Corrected Values:			0	ng	
20) Cl3(27)	0.00	256	0	N.D.	
21) Cl3(24)	0.00	256	0	N.D.	
22) Cl3(16)	0.00	256	0	N.D.	
23) Cl2(15)	0.00	222	0	N.D.	
24) Cl3(32)	0.00	256	0	N.D.	
25) Cl4(54)	0.00	292	0	N.D.	d
28) Cl3(29)	0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)	0.00	255	0	N.D.	
30) Cl3(26)	0.00	256	0	N.D.	
Corrected Values:			0	ng	
31) Cl4(50)	0.00	292	0	N.D.	
32) Cl3(25)	0.00	256	0	N.D.	
33) Cl3(31)-S1 (0.135)	0.00	255	0	N.D.	
34) Cl3(31)	0.00	256	0	N.D.	
Corrected Values:			0	ng	
35) Cl4(53)	0.00	292	0	N.D.	
36) Cl3(28)	0.00	256	0	N.D.	
37) Cl3(33)	0.00	256	0	N.D.	
38) Cl4(51)	0.00	292	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9329.D MF0785.M Tue Mar 17 13:24:25 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9329.D

Vial: 12

Acq On : 11 Mar 2015 8:09 pm

Operator: RR

Sample : CF064PB-P(0)

Inst : Inst. F

Misc : Procedural Blank 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:42:32 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:20:09 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D.
40) Cl3(22)		0.00	256	0	N.D.
41) Cl4(46)		0.00	292	0	N.D.
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		0.00	292	0	N.D.
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		0.00	292	0	N.D.
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		0.00	292	0	N.D.
51) Cl4(42)		0.00	292	0	N.D.
52) Cl4(71)		0.00	292	0	N.D.
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		0.00	292	0	N.D.
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D.
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D.
59) Cl4(67)		0.00	292	0	N.D.
60) Cl4(63)		0.00	292	0	N.D.
61) Cl5(95)		0.00	326	0	N.D.
62) Cl4(74)		0.00	292	0	N.D.
63) Cl4(70)		0.00	292	0	N.D.
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D.
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D.
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D.
68) Cl4(66)		0.00	292	0	N.D.
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D.
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D.
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D.
74) Cl4(56)		0.00	292	0	N.D.
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D.
76) Cl4(60)		0.00	292	0	N.D.
Corrected Values:				0	ng
77) Cl5(101)		0.00	326	0	N.D.
79) Cl5(99)		0.00	326	0	N.D.
80) Cl5(83)		0.00	326	0	N.D.
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D.
83) Cl5(87)		0.00	326	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9329.D MF0785.M Tue Mar 17 13:24:25 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9329.D
 Acq On : 11 Mar 2015 8:09 pm
 Sample : CF064PB-P(0)
 Misc : Procedural Blank 5-315 15-0072
 MS Integration Params: rteint.p

Vial: 12
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 09:42:32 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:20:09 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D.
86) Cl6(154)		0.00	360	0	N.D.
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D.
Corrected Values:				0	ng
89) Cl5(110)		0.00	326	0	N.D.
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D.
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D.
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D.
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		0.00	360	0	N.D.
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D.
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D.
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D.
108) Cl5(118)		0.00	326	0	N.D.
Corrected Values:				0	ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D.
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D.
116) Cl7(179)		0.00	394	0	N.D.
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D.
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D.
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.
122) Cl5(127)		0.00	326	0	N.D.
123) Cl6(137)		0.00	360	0	N.D.
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D.
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

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 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9329.D MF0785.M Tue Mar 17 13:24:25 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9329.D
 Acq On : 11 Mar 2015 8:09 pm
 Sample : CF064PB-P(0)
 Misc : Procedural Blank 5-315 15-0072
 MS Integration Params: rteint.p

Vial: 12
 Operator: RR
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 12 09:42:32 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:20:09 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D.
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D.
130) Cl6(158)		0.00	360	0	N.D.
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D.
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		0.00	360	0	N.D.
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D.
136) Cl5(126)		0.00	326	0	N.D.
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		0.00	360	0	N.D.
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D.
141) Cl6(167)		0.00	360	0	N.D.
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D.
144) Cl8(201)		0.00	428	0	N.D.
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D.
150) Cl6(156)		0.00	360	0	N.D.
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D.
152) Cl6(157)		0.00	360	0	N.D.
153) Cl7(180)		0.00	394	0	N.D.
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D.
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		0.00	394	0	N.D.
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D.
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D.
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D.
166) Cl9(208)		0.00	464	0	N.D.
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9329.D MF0785.M Tue Mar 17 13:24:25 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9329.D Vial: 12
 Acq On : 11 Mar 2015 8:09 pm Operator: RR
 Sample : CF064PB-P(0) Inst : Inst. F
 Misc : Procedural Blank 5-315 15-0072 Multiplr: 1.00
 MS Integration Params: rteint.p

Quant Time: Mar 12 09:42:32 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:20:09 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D.
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9329.D MF0785.M Tue Mar 17 13:24:25 2015 040221CFS

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Data File : G:\F\DATA\SF0785\F9330.D

Vial: 13

Acq On : 11 Mar 2015 8:57 pm

Operator: RR

Sample : CF065LCS-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:42:43 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:42:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	42162m	100.0000	ng
78) Cl6(161)	25.73t	360	34842m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.29t	255	1563m	0.0000	ng
27) Cl3(34)	15.28tw	256	217262m	410.4799	ng
Spiked Amount	400.0000			Recovery	= 102.52%
Corrected Values:			217051	410.0882	ng
114) Cl6(152)	22.40	360	142791	395.0035	ng
Spiked Amount	401.6000			Recovery	= 98.36%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%REC
2) Biphenyl		8.75	154	2283	1.6172	ng	#
3) Cl1(1)		9.93	188	37366m	34.6247	ng	91
4) Cl1(3)		11.13	188	37264m	37.0432	ng	97
5) Cl2(4)		11.41	222	18318m	36.2324	ng	97
6) Cl2(7)		0.00	222	0	N.D.		
7) Cl2(9)		0.00	222	0	N.D.		
8) Cl2(6)		0.00	222	0	N.D. d		
9) Cl2(5)		0.00	222	0	N.D.		
10) Cl2(8)		12.83	222	30183m	34.4191	ng	90
11) Cl3(19)		13.29	256	12780m	37.9412	ng	99
12) Cl3(30)		0.00	256	0	N.D.		
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D. d		
14) Cl2(11)		0.00	222	0	N.D. d		
Corrected Values:				0	ng		
15) Cl3(18)		14.14	256	13497m	35.3422	ng	92
16) Cl3(17)		0.00	256	0	N.D.		
17) Cl2(12)		0.00	222	0	N.D.		
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.		
19) Cl2(13)		0.00	222	0	N.D. d		
Corrected Values:				0	ng		
20) Cl3(27)		0.00	256	0	N.D.		
21) Cl3(24)		0.00	256	0	N.D.		
22) Cl3(16)		0.00	256	0	N.D.		
23) Cl2(15)		14.88	222	26942	32.4277	ng	86
24) Cl3(32)		0.00	256	0	N.D.		
25) Cl4(54)		15.29t	292	17855m	34.6303	ng	91
28) Cl3(29)		0.00	256	0	N.D.		
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.		
30) Cl3(26)		0.00	256	0	N.D.		
Corrected Values:				0	ng		
31) Cl4(50)		0.00	292	0	N.D.		
32) Cl3(25)		0.00	256	0	N.D.		
33) Cl3(31)-S1 (0.135)		0.00	255	0	N.D.		
34) Cl3(31)		16.28	256	21557m	39.7715	ng	
Corrected Values:				21557	39.7715	ng	
35) Cl4(53)		0.00	292	0	N.D.		
36) Cl3(28)		16.40	256	21320m	38.5827	ng	101
37) Cl3(33)		0.00	256	0	N.D.		
38) Cl4(51)		0.00	292	0	N.D.		

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(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9330.D MF0785.M Thu Mar 26 14:30:48 2015

040221CFS

Page 1

Data File : G:\F\DATA\SF0785\F9330.D

Vial: 13

Acq On : 11 Mar 2015 8:57 pm

Operator: RR

Sample : CF065LCS-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:42:43 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:42:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
39) Cl4(45)		0.00	292	0	N.D.	
40) Cl3(22)		0.00	256	0	N.D.	
41) Cl4(46)		0.00	292	0	N.D.	
42) Cl4(43)		0.00	292	0	N.D.	
43) Cl4(52)		17.61	292	14487m	42.0348 ng	110
44) Cl4(48)		0.00	292	0	N.D.	
45) Cl4(49)		17.83	292	13900m	40.9502 ng	109
46) Cl5(104)		18.01	326	15917m	37.6303 ng	98
47) Cl4(47)-S1	(0.174)	17.99	289	466	No Calib	
48) Cl4(47)		0.00	292	0	N.D. d	
Corrected Values:				0	ng	
49) Cl4(75)		0.00	292	0	N.D.	
50) Cl4(44)		18.46	292	11976m	39.3307 ng	103
51) Cl4(42)		0.00	292	0	N.D.	
52) Cl4(71)		0.00	292	0	N.D.	
53) Cl4(41)		0.00	292	0	N.D.	
54) Cl4(64)		0.00	292	0	N.D.	
55) Cl4(40)		0.00	292	0	N.D. d	
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d	
57) Cl3(37)		19.35	256	19169	38.0171 ng	
Corrected Values:				19169	38.0171 ng	
58) Cl5(100)		0.00	326	0	N.D.	
59) Cl4(67)		0.00	292	0	N.D. d	
60) Cl4(63)		0.00	292	0	N.D.	
61) Cl5(95)		0.00	326	0	N.D.	
62) Cl4(74)		20.61	292	19574m	41.5183 ng	109
63) Cl4(70)		20.75	292	18664m	40.1205 ng	105
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.	
65) Cl5(91)		0.00	326	0	N.D. d	
Corrected Values:				0	ng	
66) Cl4(66)-S1	(0.174)	20.98t	289	1030	No Calib	
67) Cl4(66)-S2	(0.650)	20.98t	288	7007	No Calib	
68) Cl4(66)		20.94	292	22931m	50.0887 ng	
Corrected Values:				18197	40.2183 ng	
69) Cl6(155)		20.98t	360	15852m	40.8185 ng	107
70) Cl4(80)		0.00	292	0	N.D.	
71) Cl5(92)		0.00	326	0	N.D.	
72) Cl5(84)		0.00	326	0	N.D.	
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D.	
74) Cl4(56)		0.00	292	0	N.D. d	
Corrected Values:				0	ng	
75) Cl4(60)-S1	(0.174)	21.83tw	289	1752	No Calib	
76) Cl4(60)		0.00	292	0	N.D. d	
Corrected Values:				0	ng	
77) Cl5(101)		21.84tw	326	12914m	40.5160 ng	106
79) Cl5(99)		22.11	326	12912m	37.1559 ng	97
80) Cl5(83)		22.51	326	10701m	42.7682 ng	112
81) Cl5(125)		0.00	326	0	N.D.	
82) Cl5(97)		0.00	326	0	N.D.	
83) Cl5(87)		23.25	326	10905	39.0653 ng	102

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9330.D MF0785.M Thu Mar 26 14:30:48 2015

040221CFS

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Data File : G:\F\DATA\SF0785\F9330.D

Vial: 13

Acq On : 11 Mar 2015 8:57 pm

Operator: RR

Sample : CF065LCS-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:42:43 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:42:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
84) Cl6(136)		0.00	360	0	N.D. d	
85) Cl5(115)		0.00	326	0	N.D.	
86) Cl6(154)		0.00	360	0	N.D.	
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.	
88) Cl5(85)		0.00	326	0	N.D.	
Corrected Values:				0	ng	
89) Cl5(110)		23.77	326	17357m	41.3173 ng	108
90) Cl4(81)		23.88	292	17579m	39.0240 ng	104
91) Cl5(82)-S1	(0.220)	24.21t	323	2028	No Calib	
92) Cl5(82)		0.00	326	0	N.D. d	
Corrected Values:				0	ng	
93) Cl6(151)		24.21t	360	9790m	37.9166 ng	99
94) Cl6(135)		0.00	360	0	N.D.	
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.	
96) Cl4(77)		24.41	292	16801m	37.8174 ng	
Corrected Values:				16801	37.8174 ng	
97) Cl6(144)		0.00	360	0	N.D.	
98) Cl6(149)		24.67	360	10510m	38.0660 ng	100
99) Cl6(139)		0.00	360	0	N.D.	
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.	
101) Cl5(124)		0.00	326	0	N.D.	
Corrected Values:				0	ng	
102) Cl6(140)		0.00	360	0	N.D.	
103) Cl5(123)		25.05	326	15712m	39.8003 ng	104
104) Cl6(134)		0.00	360	0	N.D.	
105) Cl7(188)		25.25tw	394	11520m	37.3984 ng	98
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d	
107) Cl5(118)-S2	(1.080)	25.24tw	322	4379	No Calib	
108) Cl5(118)		25.27	326	21742	50.6317 ng	
Corrected Values:				17013	40.0960 ng	
109) Cl6(131)		0.00	360	0	N.D.	
110) Cl7(184)		0.00	394	0	N.D.	
111) Cl6(146)		0.00	360	0	N.D.	
112) Cl5(114)-S1	(0.220)	25.73t	323e	479	No Calib	
113) Cl5(114)		25.65	326	16146m	38.5886 ng	
Corrected Values:				16041	38.3517 ng	
115) Cl6(153)		25.88	360	11588	38.8413 ng	102
116) Cl7(179)		0.00	394	0	N.D. d	
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.	
118) Cl5(105)		26.22	326	15901m	41.9823 ng	
Corrected Values:				15901	41.9823 ng	
119) Cl6(141)		0.00	360	0	N.D.	
120) Cl7(176)		0.00	394	0	N.D.	
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.	
122) Cl5(127)		0.00	326	0	N.D. d	
123) Cl6(137)		0.00	360	0	N.D.	
124) Cl6(130)		0.00	360	0	N.D.	
125) Cl6(164)		0.00	360	0	N.D.	
126) Cl6(138)		26.81	360	10547m	35.2655 ng	92
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9330.D MF0785.M Thu Mar 26 14:30:49 2015

040221CFS

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Data File : G:\F\DATA\SF0785\F9330.D

Vial: 13

Acq On : 11 Mar 2015 8:57 pm

Operator: RR

Sample : CF065LCS-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:42:43 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:42:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
128) Cl6(163)		0.00	360	0	N.D. d	
Corrected Values:				0	ng	
129) Cl7(178)		0.00	394	0	N.D.	
130) Cl6(158)		26.96	360	13735m	37.9198 ng	101
131) Cl7(175)		0.00	394	0	N.D.	
132) Cl7(187)		27.17	394	8812m	37.1028 ng	97
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D. d	
134) Cl6(166)		0.00	360	0	N.D. d	
Corrected Values:				0	ng	
135) Cl7(183)		27.34	394	9586m	42.1741 ng	110
136) Cl5(126)		27.51	326	14595m	44.2971 ng	116
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D.	
138) Cl6(128)		27.67	360	9493m	40.8487 ng	
Corrected Values:				9493	40.8487 ng	
139) Cl7(185)		0.00	394	0	N.D.	
140) Cl7(174)		0.00	394	0	N.D.	
141) Cl6(167)		27.89	360	12331m	40.0862 ng	105
142) Cl8(202)		27.97	428	8363m	36.7156 ng	96
143) Cl7(177)		28.07	394	7312m	39.6581 ng	104
144) Cl8(201)		28.20	428	8221m	36.6454 ng	98
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D. d	
146) Cl7(171)		0.00	394	0	N.D. d	
Corrected Values:				0	ng	
147) Cl7(173)		0.00	394	0	N.D.	
148) Cl8(197)		0.00	428	0	N.D.	
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D.	
150) Cl6(156)		28.51	360	12200m	41.2667 ng	
Corrected Values:				12200	41.2667 ng	
151) Cl7(172)		0.00	394	0	N.D.	
152) Cl6(157)		28.60	360	12344m	39.5862 ng	106
153) Cl7(180)		28.74	394	8213m	37.6675 ng	98
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.	
155) Cl7(193)		0.00	394	0	N.D.	
Corrected Values:				0	ng	
156) Cl8(200)		0.00	428	0	N.D.	
157) Cl7(191)		0.00	394	0	N.D.	
158) Cl7(170) -S1	(0.309)	29.68t	391	527	No Calib	
159) Cl7(170)		29.45	394	7540	47.0395 ng	
Corrected Values:				7377	46.0784 ng	
160) Cl8(198)		0.00	428	0	N.D.	
161) Cl8(199)		0.00	428	0	N.D.	
162) Cl7(190)		0.00	394	0	N.D.	
163) Cl6(169) -S2	(1.610)	29.68t	356	2873	No Calib	
164) Cl6(169)		29.65	360	14893m	58.5635 ng	
Corrected Values:				10267	41.5948 ng	
165) Cl8(203)		29.69tw	428	6499m	38.5997 ng	101
166) Cl9(208)		30.19	464	6999m	43.0582 ng	113
167) Cl7(189)		30.33	394	8912m	45.1675 ng	118
168) Cl9(207)		0.00	464	0	N.D.	
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9330.D MF0785.M Thu Mar 26 14:30:49 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9330.D

Vial: 13

Acq On : 11 Mar 2015 8:57 pm

Operator: RR

Sample : CF065LCS-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:42:43 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:42:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%REC
170) Cl8(195)		30.39	428	5576m	37.4143	ng	
Corrected Values:				5576	37.4143	ng	
171) Cl8(194)		30.88	428	5255m	43.3218	ng	113
172) Cl8(205)		31.04	428	7086m	42.1840	ng	110
173) Cl9(206)		31.54	464	4931m	46.9448	ng	123
174) Cl10(209)		32.05	498	4430m	39.2993	ng	101

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9330.D MF0785.M Thu Mar 26 14:30:49 2015

040221CFS

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Data File : G:\F\DATA\SF0785\F9331.D

Vial: 14

Acq On : 11 Mar 2015 9:45 pm

Operator: RR

Sample : CF066LCSD-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample Duplicate 5-31 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:42:42 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	43992m	100.0000	ng
78) Cl6(161)	25.73tw	360	36964m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	15.28t	255	1756m	0.0000	ng
27) Cl3(34)		15.28t	256	220780m	399.9596	ng
Spiked Amount	400.0000			Recovery	=	99.88%
Corrected Values:				220543	399.5377	ng
114) Cl6(152)		22.40	360	146669m	383.0047	ng
Spiked Amount	401.6000			Recovery	=	95.37%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units	%REC
2) Biphenyl		0.00	154	0	N.D.	d	
3) Cl1(1)		9.93	188	39445m	35.0274	ng	92
4) Cl1(3)		11.13	188	39296m	37.4290	ng	98
5) Cl2(4)		11.41	222	18371m	34.8376	ng	93
6) Cl2(7)		0.00	222	0	N.D.		
7) Cl2(9)		0.00	222	0	N.D.		
8) Cl2(6)		0.00	222	0	N.D.	d	
9) Cl2(5)		0.00	222	0	N.D.		
10) Cl2(8)		12.83	222	31577m	34.5081	ng	90
11) Cl3(19)		13.29	256	13501m	38.4064	ng	100
12) Cl3(30)		0.00	256	0	N.D.		
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d	
14) Cl2(11)		0.00	222	0	N.D.	d	
Corrected Values:				0	ng		
15) Cl3(18)		14.14	256	14038m	35.2332	ng	92
16) Cl3(17)		0.00	256	0	N.D.		
17) Cl2(12)		0.00	222	0	N.D.		
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d	
19) Cl2(13)		0.00	222	0	N.D.	d	
Corrected Values:				0	ng		
20) Cl3(27)		0.00	256	0	N.D.		
21) Cl3(24)		0.00	256	0	N.D.		
22) Cl3(16)		0.00	256	0	N.D.		
23) Cl2(15)		14.88	222	29053m	33.4646	ng	89
24) Cl3(32)		0.00	256	0	N.D.		
25) Cl4(54)		15.29tw	292	18176m	33.7954	ng	88
28) Cl3(29)		0.00	256	0	N.D.		
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.		
30) Cl3(26)		0.00	256	0	N.D.		
Corrected Values:				0	ng		
31) Cl4(50)		0.00	292	0	N.D.		
32) Cl3(25)		0.00	256	0	N.D.		
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.		
34) Cl3(31)		16.29	256	21860m	38.6912	ng	
Corrected Values:				21860	38.6912	ng	
35) Cl4(53)		0.00	292	0	N.D.		
36) Cl3(28)		16.40	256	22136m	38.4011	ng	100
37) Cl3(33)		0.00	256	0	N.D.		
38) Cl4(51)		0.00	292	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9331.D MF0785.M Tue Mar 17 13:24:30 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9331.D

Vial: 14

Acq On : 11 Mar 2015 9:45 pm

Operator: RR

Sample : CF066LCSD-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample Duplicate 5-31 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:42:42 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
39) Cl4(45)		0.00	292	0	N.D.	
40) Cl3(22)		0.00	256	0	N.D.	
41) Cl4(46)		0.00	292	0	N.D.	
42) Cl4(43)		0.00	292	0	N.D.	
43) Cl4(52)		17.62	292	14763m	41.0846 ng	107
44) Cl4(48)		0.00	292	0	N.D.	
45) Cl4(49)		17.83	292	14312m	40.4276 ng	108
46) Cl5(104)		18.01	326	16330m	37.0225 ng	97
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d	
48) Cl4(47)		0.00	292	0	N.D.	
Corrected Values:				0	ng	
49) Cl4(75)		0.00	292	0	N.D.	
50) Cl4(44)		18.46	292	12591m	39.6192 ng	104
51) Cl4(42)		0.00	292	0	N.D.	
52) Cl4(71)		0.00	292	0	N.D.	
53) Cl4(41)		0.00	292	0	N.D.	
54) Cl4(64)		0.00	292	0	N.D.	
55) Cl4(40)		0.00	292	0	N.D. d	
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D.	
57) Cl3(37)		19.35	256	19967	37.9561 ng	
Corrected Values:				19967	37.9561 ng	
58) Cl5(100)		0.00	326	0	N.D.	
59) Cl4(67)		0.00	292	0	N.D. d	
60) Cl4(63)		0.00	292	0	N.D.	
61) Cl5(95)		0.00	326	0	N.D.	
62) Cl4(74)		20.60	292	20456m	41.5807 ng	109
63) Cl4(70)		20.75	292	19633m	40.4318 ng	106
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.	
65) Cl5(91)		0.00	326	0	N.D. d	
Corrected Values:				0	ng	
66) Cl4(66)-S1	(0.174)	20.97tw	289	1113	No Calib	
67) Cl4(66)-S2	(0.650)	20.98tw	288	7200	No Calib	
68) Cl4(66)		20.95	292	23909m	50.0542 ng	
Corrected Values:				19035	40.3148 ng	
69) Cl6(155)		20.99tw	360	16012m	39.5620 ng	103
70) Cl4(80)		0.00	292	0	N.D.	
71) Cl5(92)		0.00	326	0	N.D.	
72) Cl5(84)		0.00	326	0	N.D.	
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D.	
74) Cl4(56)		0.00	292	0	N.D. d	
Corrected Values:				0	ng	
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d	
76) Cl4(60)		0.00	292	0	N.D. d	
Corrected Values:				0	ng	
77) Cl5(101)		21.85	326	12959m	39.0478 ng	102
79) Cl5(99)		22.11	326	13592m	36.8776 ng	96
80) Cl5(83)		22.51	326	11385m	42.8871 ng	112
81) Cl5(125)		0.00	326	0	N.D.	
82) Cl5(97)		0.00	326	0	N.D.	
83) Cl5(87)		23.26	326	11490	38.8051 ng	101

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9331.D MF0785.M Tue Mar 17 13:24:30 2015

040221CFS

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Data File : G:\F\DATA\SF0785\F9331.D

Vial: 14

Acq On : 11 Mar 2015 9:45 pm

Operator: RR

Sample : CF066LCSD-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample Duplicate 5-31 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:42:42 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
84) Cl6(136)		0.00	360	0	N.D. d	
85) Cl5(115)		0.00	326	0	N.D.	
86) Cl6(154)		0.00	360	0	N.D.	
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.	
88) Cl5(85)		0.00	326	0	N.D.	
Corrected Values:				0	ng	
89) Cl5(110)		23.77	326	17356m	39.0306 ng	102
90) Cl4(81)		23.88	292	18512m	38.7526 ng	103
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d	
92) Cl5(82)		0.00	326	0	N.D. d	
Corrected Values:				0	ng	
93) Cl6(151)		24.21	360	10147m	37.0704 ng	97
94) Cl6(135)		0.00	360	0	N.D.	
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.	
96) Cl4(77)		24.41	292	17764m	37.6965 ng	
Corrected Values:				17764	37.6965 ng	
97) Cl6(144)		0.00	360	0	N.D.	
98) Cl6(149)		24.67	360	11116m	37.9534 ng	99
99) Cl6(139)		0.00	360	0	N.D.	
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.	
101) Cl5(124)		0.00	326	0	N.D.	
Corrected Values:				0	ng	
102) Cl6(140)		0.00	360	0	N.D.	
103) Cl5(123)		25.05	326	16089m	38.4737 ng	101
104) Cl6(134)		0.00	360	0	N.D.	
105) Cl7(188)		25.25t	394	11746m	36.0080 ng	94
106) Cl5(118)-S1	(0.220)	25.25t	323	617	No Calib	
107) Cl5(118)-S2	(1.080)	25.25t	322	4537	No Calib	
108) Cl5(118)		25.27	326	22258m	48.9364 ng	
Corrected Values:				17222	38.3563 ng	
109) Cl6(131)		0.00	360	0	N.D.	
110) Cl7(184)		0.00	394	0	N.D.	
111) Cl6(146)		0.00	360	0	N.D. d	
112) Cl5(114)-S1	(0.220)	25.72tw	323e	483	No Calib	
113) Cl5(114)		25.65	326	16450m	37.1431 ng	
Corrected Values:				16344	36.9175 ng	
115) Cl6(153)		25.87	360	11669m	36.9230 ng	97
116) Cl7(179)		0.00	394	0	N.D. d	
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.	
118) Cl5(105)		26.22	326	16289m	40.6195 ng	
Corrected Values:				16289	40.6195 ng	
119) Cl6(141)		0.00	360	0	N.D.	
120) Cl7(176)		0.00	394	0	N.D.	
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.	
122) Cl5(127)		0.00	326	0	N.D.	
123) Cl6(137)		0.00	360	0	N.D.	
124) Cl6(130)		0.00	360	0	N.D.	
125) Cl6(164)		0.00	360	0	N.D.	
126) Cl6(138)		26.81	360	10978m	34.6240 ng	91
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9331.D MF0785.M Tue Mar 17 13:24:30 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9331.D

Vial: 14

Acq On : 11 Mar 2015 9:45 pm

Operator: RR

Sample : CF066LCSD-P(0)

Inst : Inst. F

Misc : Laboratory Control Sample Duplicate 5-31 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:42:42 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
128) Cl6(163)		0.00	360	0	N.D.	
Corrected Values:				0	ng	
129) Cl7(178)		0.00	394	0	N.D.	
130) Cl6(158)		26.95	360	14089m	36.7225 ng	98
131) Cl7(175)		0.00	394	0	N.D.	
132) Cl7(187)		27.17	394	9146m	36.3309 ng	95
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D. d	
134) Cl6(166)		0.00	360	0	N.D. d	
Corrected Values:				0	ng	
135) Cl7(183)		27.35	394	9599m	39.9180 ng	104
136) Cl5(126)		27.51	326	14906m	42.7455 ng	112
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D.	
138) Cl6(128)		27.66	360	9740m	39.5648 ng	
Corrected Values:				9740	39.5648 ng	
139) Cl7(185)		0.00	394	0	N.D.	
140) Cl7(174)		0.00	394	0	N.D.	
141) Cl6(167)		27.89	360	12702m	38.9974 ng	102
142) Cl8(202)		27.97	428	8789m	36.3881 ng	95
143) Cl7(177)		28.07	394	7770m	39.7194 ng	104
144) Cl8(201)		28.20	428	8625m	36.2588 ng	97
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.	
146) Cl7(171)		0.00	394	0	N.D. d	
Corrected Values:				0	ng	
147) Cl7(173)		0.00	394	0	N.D.	
148) Cl8(197)		0.00	428	0	N.D.	
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D.	
150) Cl6(156)		28.51	360	12937m	41.2487 ng	
Corrected Values:				12937	41.2487 ng	
151) Cl7(172)		0.00	394	0	N.D.	
152) Cl6(157)		28.60	360	13147m	39.7300 ng	106
153) Cl7(180)		28.74	394	8391m	36.3469 ng	95
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.	
155) Cl7(193)		0.00	394	0	N.D.	
Corrected Values:				0	ng	
156) Cl8(200)		0.00	428	0	N.D.	
157) Cl7(191)		0.00	394	0	N.D.	
158) Cl7(170) -S1	(0.309)	29.68t	391	526	No Calib	
159) Cl7(170)		29.45	394	7693m	45.3367 ng	
Corrected Values:				7530	44.4284 ng	
160) Cl8(198)		0.00	428	0	N.D.	
161) Cl8(199)		0.00	428	0	N.D.	
162) Cl7(190)		0.00	394	0	N.D.	
163) Cl6(169) -S2	(1.610)	29.68t	356	2934	No Calib	
164) Cl6(169)		29.65	360	15608m	57.9061 ng	
Corrected Values:				10884	41.5659 ng	
165) Cl8(203)		29.69tw	428	6953m	38.9084 ng	102
166) Cl9(208)		30.19	464	7486m	43.3895 ng	113
167) Cl7(189)		30.33	394	9318m	44.5700 ng	117
168) Cl9(207)		0.00	464	0	N.D.	
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9331.D MF0785.M Tue Mar 17 13:24:30 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9331.D Vial: 14
 Acq On : 11 Mar 2015 9:45 pm Operator: RR
 Sample : CF066LCSD-P(0) Inst : Inst. F
 Misc : Laboratory Control Sample Duplicate 5-31 Multiplr: 1.00
 MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:49 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:42:42 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	%REC
170) Cl8(195)		30.39	428	5828m	36.8850 ng	
Corrected Values:				5828	36.8850 ng	
171) Cl8(194)		30.88	428	5756m	44.6160 ng	117
172) Cl8(205)		31.04	428	7697m	43.1189 ng	113
173) Cl9(206)		31.54	464	5331m	47.7837 ng	125
174) Cl10(209)		32.05	498	4905m	40.9201 ng	105

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9331.D MF0785.M Tue Mar 17 13:24:30 2015 040221CFS

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Data File : G:\F\DATA\SF0785\F9332.D

Vial: 15

Acq On : 11 Mar 2015 10:33 pm

Operator: RR

Sample : L0122-P(2)

Inst : Inst. F

Misc : S-14N-PCC15-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:53 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:47 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.09	326	44172m	95.0000	ng
78) Cl6(161)	25.73t	360	34664m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.28t	255	586m	0.0000	ng
27) Cl3(34)	15.28t	256	213050m	365.4125	ng
Spiked Amount	379.8670			Recovery	= 96.16%
Corrected Values:			212971	365.2793	ng
114) Cl6(152)	22.41	360	134025m	354.9579	ng
Spiked Amount	381.3865			Recovery	= 93.07%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	28617m	17.4019	ng
3) Cl1(1)		9.93	188	2365m	2.2970	ng
4) Cl1(3)		11.13	188	6478m	6.4843	ng
5) Cl2(4)		11.41	222	23077m	41.3300	ng
6) Cl2(7)		12.30	222	3050m	4.6340	ng
7) Cl2(9)		12.26	222	6540m	7.2465	ng
8) Cl2(6)		12.54	222	134872m	145.9920	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.83	222	139295m	142.1663	ng
11) Cl3(19)		13.29	256	11152m	30.1229	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D. d	
14) Cl2(11)		0.00	222	0	N.D. d	
Corrected Values:				0	ng	
15) Cl3(18)		14.14	256e	160378m	375.8040	ng
16) Cl3(17)		14.26	256	77589m	179.6111	ng
17) Cl2(12)		14.35	222	787m	2.4505	ng
18) Cl2(13)-S1 (0.135)		14.50t	221	1978	No Calib	
19) Cl2(13)		14.49tw	222	99889m	121.1079	ng
Corrected Values:				99622	120.7853	ng
20) Cl3(27)		14.50t	256	43249m	70.8317	ng
21) Cl3(24)		14.61	256	893m	2.5729	ng
22) Cl3(16)		14.83	256	7687m	24.6523	ng
23) Cl2(15)		14.88	222	120498m	126.5428	ng
24) Cl3(32)		14.95	256	80595m	131.6965	ng
25) Cl4(54)		15.29tw	292	1563m	3.2419	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D. d	
30) Cl3(26)		15.82	256e	414301m	631.6874	ng
Corrected Values:				414301	631.6874	ng
31) Cl4(50)		15.88	292	1078m	3.7841	ng
32) Cl3(25)		15.95	256e	264413m	428.7186	ng
33) Cl3(31)-S1 (0.135)		16.32t	255	17666	No Calib	
34) Cl3(31)		16.29	256E	461177m	684.7856	ng
Corrected Values:				458792	681.5468	ng
35) Cl4(53)		16.32t	292	49872m	121.0566	ng
36) Cl3(28)		16.40	256E	459240m	687.4004	ng
37) Cl3(33)		16.51	256	45683m	80.3448	ng
38) Cl4(51)		16.58	292	23302m	54.3537	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9332.D MF0785.M Tue Mar 17 13:24:32 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9332.D

Vial: 15

Acq On : 11 Mar 2015 10:33 pm

Operator: RR

Sample : L0122-P(2)

Inst : Inst. F

Misc : S-14N-PCC15-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:53 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:47 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	
39) Cl4(45)		16.91	292	9583m	29.3458 ng	
40) Cl3(22)		17.00	256	50836m	90.5876 ng	
41) Cl4(46)		17.18	292	8425m	28.1298 ng	
42) Cl4(43)		0.00	292	0	N.D.	
43) Cl4(52)		17.62	292E	423924m	955.0083 ng	
44) Cl4(48)		0.00	292	0	N.D.	
45) Cl4(49)		17.83	292E	400178m	906.5730 ng	
46) Cl5(104)		18.03tw	326	291	1.9272 ng	#
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d	
48) Cl4(47)		18.02tw	292	133132m	285.4683 ng	
Corrected Values:				133132	285.4683 ng	
49) Cl4(75)		18.10	292	8544m	16.5980 ng	
50) Cl4(44)		18.46	292	95122m	260.1519 ng	
51) Cl4(42)		18.67	292	65931m	185.6752 ng	
52) Cl4(71)		18.89	292	88602m	171.9839 ng	
53) Cl4(41)		0.00	292	0	N.D. d	
54) Cl4(64)		19.28	292	99075m	185.8909 ng	
55) Cl4(40)		19.41	292	18686m	64.6014 ng	
56) Cl3(37)-S1	(0.135)	19.36tw	255	5012	No Calib	
57) Cl3(37)		19.35tw	256	53504	92.4603 ng	
Corrected Values:				52827	91.3262 ng	
58) Cl5(100)		19.71	326	6263	19.0202 ng	
59) Cl4(67)		20.01	292	29259m	60.6047 ng	
60) Cl4(63)		20.41	292	7136	16.8563 ng	#
61) Cl5(95)		20.54	326e	122619m	369.2464 ng	
62) Cl4(74)		20.61	292	76676m	139.0364 ng	
63) Cl4(70)		20.75	292	81009m	149.9830 ng	
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.	
65) Cl5(91)		20.92t	326	67364m	189.1145 ng	
Corrected Values:				67364	189.1145 ng	
66) Cl4(66)-S1	(0.174)	20.92t	289	14715	No Calib	
67) Cl4(66)-S2	(0.650)	20.92t	288	1172	No Calib	
68) Cl4(66)		20.94	292	106039m	197.7740 ng	
Corrected Values:				102717	191.8585 ng	
69) Cl6(155)		0.00	360	0	N.D.	
70) Cl4(80)		21.25	292	3435	8.8302 ng	
71) Cl5(92)		21.56T	326	35977m	103.5745 ng	
72) Cl5(84)		21.56T	326	29701m	115.3535 ng	
73) Cl4(56)-S1	(0.174)	21.56t	289	21564	No Calib	
74) Cl4(56)		21.60	292	30905m	60.2811 ng	
Corrected Values:				27153	53.2610 ng	
75) Cl4(60)-S1	(0.174)	21.85t	289e	18517	No Calib	
76) Cl4(60)		21.86tw	292	17499m	36.3350 ng	
Corrected Values:				14277	30.0237 ng	
77) Cl5(101)		21.85t	326e	142713m	359.4491 ng	
79) Cl5(99)		22.11	326e	136477m	339.6309 ng	
80) Cl5(83)		22.51	326	31446m	116.2789 ng	
81) Cl5(125)		0.00	326	0	N.D. d	
82) Cl5(97)		22.80	326	41472m	128.8049 ng	
83) Cl5(87)		23.25	326	15627	52.8896 ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9332.D MF0785.M Tue Mar 17 13:24:32 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9332.D

Vial: 15

Acq On : 11 Mar 2015 10:33 pm

Operator: RR

Sample : L0122-P(2)

Inst : Inst. F

Misc : S-14N-PCC15-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:53 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:47 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.35	360	18991	51.5571 ng
85) Cl5(115)		23.47	326	2860m	7.3876 ng
86) Cl6(154)		23.54	360	5941	18.5058 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.52	326	9635m	27.9677 ng
Corrected Values:				9635	27.9677 ng
89) Cl5(110)		23.77	326e	259458m	509.0531 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.21tw	323	3266	No Calib
92) Cl5(82)		24.22t	326	4665	17.4921 ng
Corrected Values:				3946	14.9238 ng
93) Cl6(151)		24.22t	360	14958m	54.6415 ng
94) Cl6(135)		24.32	360	12583m	46.3319 ng
95) Cl4(77)-S2	(0.650)	24.45t	288	977	No Calib
96) Cl4(77)		24.42	292	13611m	29.6037 ng
Corrected Values:				12976	28.3078 ng
97) Cl6(144)		24.45t	360	1967m	7.8876 ng
98) Cl6(149)		24.67	360e	113525m	355.9483 ng
99) Cl6(139)		24.80	360	2497m	9.6240 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.84	326	4911	11.7152 ng
Corrected Values:				4911	11.7152 ng
102) Cl6(140)		24.90	360	373	2.2930 ng
103) Cl5(123)		25.06	326	15327	37.1043 ng
104) Cl6(134)		25.15	360	5872m	26.1363 ng
105) Cl7(188)		25.25	394	311	2.4787 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.28	326e	165443m	342.1858 ng
Corrected Values:				165443	342.1858 ng
109) Cl6(131)		25.36	360	3021m	12.5202 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.63	360	16949m	55.5726 ng
112) Cl5(114)-S1	(0.220)	25.73t	323	435	No Calib
113) Cl5(114)		25.66	326	2421m	7.0320 ng
Corrected Values:				2325	6.8219 ng
115) Cl6(153)		25.88	360e	133040m	382.5728 ng
116) Cl7(179)		26.11	394	4323m	15.2622 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.23	326	25879m	63.6011 ng
Corrected Values:				25879	63.6011 ng
119) Cl6(141)		26.27	360	5327	21.9140 ng
120) Cl7(176)		26.37	394	827	3.9172 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.49	360	3946m	16.1755 ng
124) Cl6(130)		26.63	360	4299m	16.7025 ng
125) Cl6(164)		26.68	360	8661m	25.7804 ng
126) Cl6(138)		26.82	360	40921m	124.8596 ng
127) Cl6(163)-S1	(0.265)	26.91t	357	400	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9332.D MF0785.M Tue Mar 17 13:24:32 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9332.D

Vial: 15

Acq On : 11 Mar 2015 10:33 pm

Operator: RR

Sample : L0122-P(2)

Inst : Inst. F

Misc : S-14N-PCC15-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:53 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:47 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	
128) Cl6(163)		26.86	360	37872m	113.0570 ng	
Corrected Values:				37766	112.7507 ng	
129) Cl7(178)		26.91t	394	1754	8.6160 ng	
130) Cl6(158)		26.96	360	13275	35.0439 ng	
131) Cl7(175)		27.10	394	374m	2.2117 ng	
132) Cl7(187)		27.18	394	12100m	48.0774 ng	
133) Cl6(166)-S1	(0.265)	27.35t	357	444	No Calib	
134) Cl6(166)		27.35t	360	904m	3.7523 ng	
Corrected Values:				786	3.4134 ng	
135) Cl7(183)		27.35t	394	4237m	18.7826 ng	
136) Cl5(126)		27.52	326	682	3.5212 ng	
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d	
138) Cl6(128)		27.67	360	11820m	48.1037 ng	
Corrected Values:				11820	48.1037 ng	
139) Cl7(185)		27.69	394	501m	3.4858 ng	
140) Cl7(174)		27.81	394	3592m	18.1626 ng	
141) Cl6(167)		27.90	360	8492m	27.0682 ng	
142) Cl8(202)		27.98	428	854m	5.0996 ng	
143) Cl7(177)		28.08	394	2567	14.4250 ng	
144) Cl8(201)		28.20tw	428	369	2.9985 ng	
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.	
146) Cl7(171)		28.21tw	394	1997m	10.3803 ng	
Corrected Values:				1997	10.3803 ng	
147) Cl7(173)		28.29	394	116	2.5593 ng	
148) Cl8(197)		28.42	428	116	1.9251 ng	
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d	
150) Cl6(156)		28.51	360	10196m	33.3103 ng	
Corrected Values:				10196	33.3103 ng	
151) Cl7(172)		28.55	394	1019	6.7274 ng	
152) Cl6(157)		28.61	360	2256	8.9876 ng	
153) Cl7(180)		28.74	394	13589m	58.0579 ng	
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.	
155) Cl7(193)		28.79	394	914m	4.9142 ng	
Corrected Values:				914	4.9142 ng	
156) Cl8(200)		28.83	428	207	2.6226 ng	#
157) Cl7(191)		28.91	394	480m	3.4757 ng	
158) Cl7(170)-S1	(0.309)	29.50tw	391	362	No Calib	
159) Cl7(170)		29.45	394	6134	36.9441 ng	
Corrected Values:				6022	36.3054 ng	
160) Cl8(198)		0.00	428	0	N.D.	
161) Cl8(199)		29.51tw	428	1671m	12.7216 ng	
162) Cl7(190)		29.57	394	1977	9.1027 ng	
163) Cl6(169)-S2	(1.610)	29.68tw	356	1167	No Calib	
164) Cl6(169)		29.69t	360	1620m	8.4591 ng	
Corrected Values:				-259	-1.0000 ng	
165) Cl8(203)		29.69t	428	2094m	12.9617 ng	
166) Cl9(208)		30.19	464	436	3.8757 ng	
167) Cl7(189)		30.33	394	629m	5.0148 ng	
168) Cl9(207)		30.39tw	464	169	3.1445 ng	#
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9332.D MF0785.M Tue Mar 17 13:24:32 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9332.D Vial: 15
 Acq On : 11 Mar 2015 10:33 pm Operator: RR
 Sample : L0122-P(2) Inst : Inst. F
 Misc : S-14N-PCC15-00-05 5-315 15-0072 Multiplr: 1.00
 MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:53 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:44:47 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40tw	428	528	4.5964 ng
Corrected Values:				528	4.5964 ng
171) Cl8(194)		30.89	428	1713	15.0266 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.55	464	946m	9.7156 ng
174) Cl10(209)		32.06	498	307m	3.6090 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9332.D MF0785.M Tue Mar 17 13:24:32 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9333.D

Vial: 16

Acq On : 11 Mar 2015 11:21 pm

Operator: RR

Sample : L0125-P(2)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	60131m	95.0000	ng
78) Cl6(161)	25.74	360	38686m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.28tw	255	1138m	0.0000	ng
27) Cl3(34)	15.29tw	256	259554m	327.6152	ng
Spiked Amount	379.8670			Recovery	= 86.19%
Corrected Values:			259400	327.4238	ng
114) Cl6(152)	22.42	360	135886m	323.7815	ng
Spiked Amount	381.3865			Recovery	= 84.90%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.74	154	40330m	18.0141	ng
3) Cl1(1)		9.93	188	47181m	29.1544	ng
4) Cl1(3)		11.13	188	42627m	28.3847	ng
5) Cl2(4)		11.42	222E	729358m	937.6372	ng
6) Cl2(7)		12.30	222	49666m	48.5974	ng
7) Cl2(9)		12.26	222	130159m	90.2605	ng
8) Cl2(6)		12.54	222E	2837958m	2579.2406	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.83	222E	2374668m	2399.5447	ng
11) Cl3(19)		13.30	256e	194057	380.0656	ng
12) Cl3(30)		13.70	256	1902m	3.5126	ng
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D. d	
14) Cl2(11)		0.00	222	0	N.D. d	
Corrected Values:				0	ng	
15) Cl3(18)		14.15	256E	2134965m	4764.9046	ng
16) Cl3(17)		14.27	256E	978019m	1733.5385	ng
17) Cl2(12)		0.00	222	0	N.D. d	
18) Cl2(13)-S1 (0.135)		14.50tw	221e	15270	No Calib	
19) Cl2(13)		14.49tw	222E	983102	932.0713	ng
Corrected Values:				981041	929.9305	ng
20) Cl3(27)		14.51tw	256E	492585	636.9841	ng
21) Cl3(24)		14.62	256	8261m	11.2394	ng
22) Cl3(16)		14.83	256	60802m	140.3070	ng
23) Cl2(15)		14.88	222E	796467m	597.0478	ng
24) Cl3(32)		14.95	256E	813658	1030.3467	ng
25) Cl4(54)		15.30tw	292	11110m	14.6148	ng
28) Cl3(29)		15.51	256	2138m	3.9064	ng
29) Cl3(26)-S1 (0.135)		15.84t	255	9928	No Calib	
30) Cl3(26)		15.84t	256E	3646610m	3439.5631	ng
Corrected Values:				3645270	3438.5026	ng
31) Cl4(50)		15.89	292	8777m	16.7322	ng
32) Cl3(25)		15.96	256E	2223950	2250.2047	ng
33) Cl3(31)-S1 (0.135)		16.33tw	255E	151950	No Calib	
34) Cl3(31)		16.31	256E	4431723m	3500.1696	ng
Corrected Values:				4411210	3488.0883	ng
35) Cl4(53)		16.34tw	292E	441222m	827.7295	ng
36) Cl3(28)		16.42	256E	3574337m	3253.8040	ng
37) Cl3(33)		16.52	256e	241663m	303.3881	ng
38) Cl4(51)		16.60	292e	166140	287.7811	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9333.D MF0785.M Tue Mar 17 13:24:34 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9333.D

Vial: 16

Acq On : 11 Mar 2015 11:21 pm

Operator: RR

Sample : L0125-P(2)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	94292m	202.4204 ng
40) Cl3(22)		17.01	256e	326166m	407.4015 ng
41) Cl4(46)		17.18	292	91504m	213.7844 ng
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.63	292E	2978357m	3629.8009 ng
44) Cl4(48)		17.80	292e	235641m	407.3358 ng
45) Cl4(49)		17.85	292E	2402138m	3029.9519 ng
46) Cl5(104)		18.04tw	326	1306	3.3034 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.03tw	292E	866288m	1320.9402 ng
Corrected Values:				866288	1320.9402 ng
49) Cl4(75)		18.10	292	55834m	73.2496 ng
50) Cl4(44)		18.48	292E	717800m	1158.5272 ng
51) Cl4(42)		18.68	292E	452998m	820.3756 ng
52) Cl4(71)		18.91	292E	596847m	768.5026 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.29	292E	588582m	718.1131 ng
55) Cl4(40)		19.40	292	32826m	83.0014 ng
56) Cl3(37)-S1	(0.135)	19.37tw	255	22747	No Calib
57) Cl3(37)		19.36tw	256	187047m	230.7677 ng
Corrected Values:				183976	227.1051 ng
58) Cl5(100)		19.72	326	32707	69.2314 ng
59) Cl4(67)		20.01	292	139955m	198.2076 ng
60) Cl4(63)		20.42	292	35934m	57.0033 ng
61) Cl5(95)		20.56	326E	635235	1183.9239 ng
62) Cl4(74)		20.63	292e	231547	294.2368 ng
63) Cl4(70)		20.76	292e	239904	315.8508 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.94tw	326E	373086	706.8244 ng
Corrected Values:				373086	706.8244 ng
66) Cl4(66)-S1	(0.174)	20.93t	289E	85191	No Calib
67) Cl4(66)-S2	(0.650)	20.93t	288	6052	No Calib
68) Cl4(66)		20.96	292E	383989	494.1042 ng
Corrected Values:				365232	472.0061 ng
69) Cl6(155)		21.01	360	384	2.0699 ng
70) Cl4(80)		21.26	292	13127	21.3962 ng
71) Cl5(92)		21.56Tw	326e	167346m	329.6024 ng
72) Cl5(84)		21.57t	326e	147222m	329.0759 ng
73) Cl4(56)-S1	(0.174)	21.57t	289e	115405	No Calib
74) Cl4(56)		21.62	292	112286m	155.8966 ng
Corrected Values:				92206	128.7200 ng
75) Cl4(60)-S1	(0.174)	21.86t	289E	77626	No Calib
76) Cl4(60)		21.87tw	292	56982m	83.5345 ng
Corrected Values:				43475	64.4178 ng
77) Cl5(101)		21.86t	326E	571888m	926.7376 ng
79) Cl5(99)		22.14	326E	552398	1052.4033 ng
80) Cl5(83)		22.51	326e	119012	362.9449 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.81	326e	174794m	469.1168 ng
83) Cl5(87)		23.27	326	47428m	137.2523 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9333.D MF0785.M

Tue Mar 17 13:24:34 2015

040221CFS

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Data File : G:\F\DATA\SF0785\F9333.D

Vial: 16

Acq On : 11 Mar 2015 11:21 pm

Operator: RR

Sample : L0125-P(2)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	
84) Cl6(136)		23.35	360	98853m	234.9982 ng	
85) Cl5(115)		23.41	326	41757m	78.3267 ng	
86) Cl6(154)		23.55	360	28989m	75.7092 ng	
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d	
88) Cl5(85)		23.53	326	26387m	67.5477 ng	
Corrected Values:				26387	67.5477 ng	
89) Cl5(110)		23.79	326E	1119550m	1563.5293 ng	
90) Cl4(81)		23.88	292	3058m	7.4193 ng	
91) Cl5(82)-S1	(0.220)	24.23t	323	15063	No Calib	
92) Cl5(82)		24.24tw	326	13407m	43.5708 ng	
Corrected Values:				10093	33.0690 ng	
93) Cl6(151)		24.23t	360	69068m	215.9971 ng	
94) Cl6(135)		24.33	360	57367m	182.8249 ng	
95) Cl4(77)-S2	(0.650)	24.47t	288	2868	No Calib	
96) Cl4(77)		24.42	292	44202m	81.9500 ng	
Corrected Values:				42338	78.6271 ng	
97) Cl6(144)		24.47t	360	9462m	29.4361 ng	
98) Cl6(149)		24.69	360E	530079m	1237.3037 ng	
99) Cl6(139)		24.81	360	11139m	34.5588 ng	
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d	
101) Cl5(124)		24.86	326	22102m	41.9384 ng	
Corrected Values:				22102	41.9384 ng	
102) Cl6(140)		24.90	360	622m	2.9165 ng	
103) Cl5(123)		25.08	326	59802m	122.7970 ng	
104) Cl6(134)		25.17	360	27729m	105.4622 ng	
105) Cl7(188)		25.27	394	1076m	4.4163 ng	
106) Cl5(118)-S1	(0.220)	25.37	323	5179	No Calib	
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d	
108) Cl5(118)		25.30	326E	587063m	999.8075 ng	
Corrected Values:				585924	998.0753 ng	
109) Cl6(131)		25.35	360	6954m	24.2699 ng	
110) Cl7(184)		25.54	394	110	1.1529 ng	#
111) Cl6(146)		25.64	360	68857m	189.8866 ng	
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d	
113) Cl5(114)		25.67	326	11224m	23.6725 ng	
Corrected Values:				11224	23.6725 ng	
115) Cl6(153)		25.90	360E	499026m	1092.0713 ng	
116) Cl7(179)		26.12	394	19974m	60.1650 ng	
117) Cl5(105)-S1	(0.220)	26.29t	323	3079	No Calib	
118) Cl5(105)		26.24	326	55279m	117.8976 ng	
Corrected Values:				54602	116.5295 ng	
119) Cl6(141)		26.29t	360	17181m	59.0685 ng	
120) Cl7(176)		26.38	394	3364m	11.0600 ng	
121) Cl6(127)-S1	(0.265)	26.50t	323	2255	No Calib	
122) Cl5(127)		0.00	326	0	N.D. d	
123) Cl6(137)		26.50t	360	14637m	50.2747 ng	
124) Cl6(130)		26.63	360	15669m	52.9342 ng	
125) Cl6(164)		26.69	360	37186m	94.9177 ng	
126) Cl6(138)		26.83	360e	119000m	309.1450 ng	
127) Cl6(163)-S1	(0.265)	26.93t	357	1630	No Calib	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9333.D MF0785.M Tue Mar 17 13:24:34 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9333.D

Vial: 16

Acq On : 11 Mar 2015 11:21 pm

Operator: RR

Sample : L0125-P(2)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.87	360e	142743m	357.5450 ng
Corrected Values:				142311	356.5532 ng
129) Cl7(178)		26.93t	394	7763	31.1357 ng
130) Cl6(158)		26.98	360	54393	123.7635 ng
131) Cl7(175)		27.11	394	1670m	7.4013 ng
132) Cl7(187)		27.19	394	52444m	179.3093 ng
133) Cl6(166) -S1	(0.265)	27.36tw	357	1625	No Calib
134) Cl6(166)		27.37t	360	5040	14.0864 ng
Corrected Values:				4609	12.9849 ng
135) Cl7(183)		27.37t	394	19145m	70.4126 ng
136) Cl5(126)		27.52	326	3143	9.5982 ng
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.68	360	35904	125.5706 ng
Corrected Values:				35904	125.5706 ng
139) Cl7(185)		27.71	394	2151m	10.1907 ng
140) Cl7(174)		27.82	394	14521m	60.8203 ng
141) Cl6(167)		27.91	360	33540m	88.4335 ng
142) Cl8(202)		27.99	428	3132m	12.8990 ng
143) Cl7(177)		28.09	394	10171m	46.6689 ng
144) Cl8(201)		28.21tw	428	1423m	6.7082 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.22tw	394	7774m	33.6393 ng
Corrected Values:				7774	33.6393 ng
147) Cl7(173)		28.30	394	510m	4.2791 ng
148) Cl8(197)		28.42	428	389m	2.9223 ng
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.52	360	38084m	103.6655 ng
Corrected Values:				38084	103.6655 ng
151) Cl7(172)		28.56	394	4665	21.9116 ng
152) Cl6(157)		28.62	360	8383m	24.0167 ng
153) Cl7(180)		28.76	394	53473m	190.5077 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.80	394	3655m	13.4297 ng
Corrected Values:				3655	13.4297 ng
156) Cl8(200)		28.84	428	1050m	5.6043 ng
157) Cl7(191)		28.93	394	1970m	7.8618 ng
158) Cl7(170) -S1	(0.309)	29.52t	391	1143	No Calib
159) Cl7(170)		29.47	394	26019	127.8402 ng
Corrected Values:				25666	126.2770 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.52t	428	7402m	46.6011 ng
162) Cl7(190)		29.58	394	9582	32.7702 ng
163) Cl6(169) -S2	(1.610)	29.70t	356	4688	No Calib
164) Cl6(169)		29.70t	360	8794	31.2052 ng
Corrected Values:				1246	6.5985 ng
165) Cl8(203)		29.70t	428	9474m	47.4994 ng
166) Cl9(208)		30.20	464	2056	12.0207 ng
167) Cl7(189)		30.34	394	2276m	11.7242 ng
168) Cl9(207)		30.40tw	464	666m	5.1813 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9333.D MF0785.M Tue Mar 17 13:24:35 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9333.D

Vial: 16

Acq On : 11 Mar 2015 11:21 pm

Operator: RR

Sample : L0125-P(2)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:44:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.41tw	428	2565	15.5628 ng
Corrected Values:				2565	15.5628 ng
171) Cl8(194)		30.90	428	7065m	49.0934 ng
172) Cl8(205)		31.05	428	495m	4.3491 ng
173) Cl9(206)		31.56	464	4321m	35.7043 ng
174) Cl10(209)		32.06	498	1165m	9.8048 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9333.D MF0785.M Tue Mar 17 13:24:35 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0785\F9334.D

Vial: 17

Acq On : 12 Mar 2015 12:09 am

Operator: RR

Sample : L0133-P(2)

Inst : Inst. F

Misc : S-14N-RBB22-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:01 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:56 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	50623m	95.0000	ng
78) Cl6(161)	25.74	360	37319m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.29tw	256	227320m	340.6050	ng
Spiked Amount	379.8670			Recovery	= 89.66%
Corrected Values:			227320	340.6050	ng
114) Cl6(152)	22.43	360	135019m	333.0958	ng
Spiked Amount	381.3865			Recovery	= 87.34%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.74	154	66064m	35.0597	ng
3) Cl1(1)		9.93	188	12689m	9.5304	ng
4) Cl1(3)		11.13	188	20640m	16.6577	ng
5) Cl2(4)		11.42	222e	211976m	327.5911	ng
6) Cl2(7)		12.30	222	11186m	13.4199	ng
7) Cl2(9)		12.26	222	37700m	31.9463	ng
8) Cl2(6)		12.54	222E	959520	941.8252	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.83	222E	859657m	826.8136	ng
11) Cl3(19)		13.30	256	77041m	178.9063	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D. d	
14) Cl2(11)		0.00	222	0	N.D. d	
Corrected Values:				0	ng	
15) Cl3(18)		14.15	256E	926545m	2075.3249	ng
16) Cl3(17)		14.27	256E	411554m	844.1118	ng
17) Cl2(12)		14.35	222	1911m	3.4848	ng
18) Cl2(13)-S1 (0.135)		14.50t	221e	10581	No Calib	
19) Cl2(13)		14.50t	222e	382180	410.8795	ng
Corrected Values:				380752	409.2915	ng
20) Cl3(27)		14.51tw	256e	278539m	413.2404	ng
21) Cl3(24)		14.62	256	2657	4.9578	ng
22) Cl3(16)		14.83	256	34580m	95.1338	ng
23) Cl2(15)		14.88	222	323452m	292.4737	ng
24) Cl3(32)		14.96	256e	349398	507.9216	ng
25) Cl4(54)		15.30tw	292	5098m	8.2087	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		15.83t	255	4491	No Calib	
30) Cl3(26)		15.83t	256E	1562670m	1913.9210	ng
Corrected Values:				1562064	1913.2567	ng
31) Cl4(50)		15.89	292	3855m	9.2937	ng
32) Cl3(25)		15.96	256E	974320m	1273.0224	ng
33) Cl3(31)-S1 (0.135)		16.33t	255e	65984	No Calib	
34) Cl3(31)		16.30	256E	1907512m	2078.5156	ng
Corrected Values:				1898604	2070.6585	ng
35) Cl4(53)		16.33t	292e	183617m	394.8293	ng
36) Cl3(28)		16.41	256E	1576586m	1877.2206	ng
37) Cl3(33)		16.51	256	163229m	244.7063	ng
38) Cl4(51)		16.60	292	80137m	162.7225	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9334.D MF0785.M Tue Mar 17 13:24:36 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9334.D

Vial: 17

Acq On : 12 Mar 2015 12:09 am

Operator: RR

Sample : L0133-P(2)

Inst : Inst. F

Misc : S-14N-RBB22-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:01 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:56 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	
39) Cl4(45)		16.92	292	36745	95.5420 ng	
40) Cl3(22)		17.01	256	138897m	211.1001 ng	
41) Cl4(46)		17.18	292	26912m	76.4220 ng	
42) Cl4(43)		0.00	292	0	N.D.	
43) Cl4(52)		17.63	292E	1373551m	2290.3334 ng	
44) Cl4(48)		17.79	292	103177m	219.1762 ng	
45) Cl4(49)		17.85	292E	1076701m	1860.9018 ng	
46) Cl5(104)		18.03t	326	671	2.5335 ng	
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d	
48) Cl4(47)		18.03t	292E	383839m	708.2806 ng	
Corrected Values:				383839	708.2806 ng	
49) Cl4(75)		18.11	292	26361m	41.7339 ng	
50) Cl4(44)		18.48	292E	266573m	584.0320 ng	
51) Cl4(42)		18.66	292e	182241m	424.4863 ng	
52) Cl4(71)		18.91	292e	229611m	374.4274 ng	
53) Cl4(41)		0.00	292	0	N.D. d	
54) Cl4(64)		19.29	292e	279857m	431.9298 ng	
55) Cl4(40)		19.40	292	14073m	42.8978 ng	
56) Cl3(37)-S1	(0.135)	19.37tw	255	10921	No Calib	
57) Cl3(37)		19.36tw	256	123181	181.9428 ng	
Corrected Values:				121707	179.8318 ng	
58) Cl5(100)		19.73	326	13390m	34.4978 ng	
59) Cl4(67)		20.02	292	58219m	102.4128 ng	
60) Cl4(63)		20.43	292	15461	30.2498 ng	
61) Cl5(95)		20.56	326E	323735	777.4914 ng	
62) Cl4(74)		20.63	292	156286m	239.5695 ng	
63) Cl4(70)		20.77	292e	220043m	342.5232 ng	
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d	
65) Cl5(91)		20.94tw	326e	164595	389.3075 ng	
Corrected Values:				164595	389.3075 ng	
66) Cl4(66)-S1	(0.174)	20.93tw	289e	38537	No Calib	
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d	
68) Cl4(66)		20.96	292e	245189	383.1350 ng	
Corrected Values:				238484	373.4004 ng	
69) Cl6(155)		20.99	360	235	1.8969 ng	#
70) Cl4(80)		21.27	292	9026m	17.8308 ng	
71) Cl5(92)		21.57T	326	91566m	220.9606 ng	
72) Cl5(84)		21.57T	326	70705m	212.7684 ng	
73) Cl4(56)-S1	(0.174)	21.57t	289	52849	No Calib	
74) Cl4(56)		21.62	292	68728m	114.3617 ng	
Corrected Values:				59532	99.4839 ng	
75) Cl4(60)-S1	(0.174)	21.86tw	289E	42457	No Calib	
76) Cl4(60)		21.87t	292	35420m	62.4244 ng	
Corrected Values:				28032	49.9146 ng	
77) Cl5(101)		21.87t	326E	321865m	657.9235 ng	
79) Cl5(99)		22.14	326E	286383m	620.0970 ng	
80) Cl5(83)		22.52	326	64836m	215.1259 ng	
81) Cl5(125)		0.00	326	0	N.D.	
82) Cl5(97)		22.81	326	88653m	251.6628 ng	
83) Cl5(87)		23.28	326	51356m	152.8291 ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9334.D MF0785.M Tue Mar 17 13:24:36 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9334.D

Vial: 17

Acq On : 12 Mar 2015 12:09 am

Operator: RR

Sample : L0133-P(2)

Inst : Inst. F

Misc : S-14N-RBB22-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:01 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:56 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.36	360	47445m	118.4149 ng
85) Cl5(115)		23.50	326	10140m	21.3876 ng
86) Cl6(154)		23.56	360	12424m	34.4890 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.53	326	25908m	68.7660 ng
Corrected Values:				25908	68.7660 ng
89) Cl5(110)		23.80	326E	566777	934.8756 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.24t	323	7492	No Calib
92) Cl5(82)		24.24t	326	12190	41.1336 ng
Corrected Values:				10542	35.7202 ng
93) Cl6(151)		24.24t	360	34621m	115.0162 ng
94) Cl6(135)		24.34	360	28014m	93.9572 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.43	292	28709m	56.0628 ng
Corrected Values:				28709	56.0628 ng
97) Cl6(144)		24.48	360	6169m	20.3459 ng
98) Cl6(149)		24.70	360E	256630m	693.0808 ng
99) Cl6(139)		24.82	360	5311m	17.7708 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		24.86	326	16174m	32.2640 ng
Corrected Values:				16174	32.2640 ng
102) Cl6(140)		24.91	360	952m	4.0220 ng
103) Cl5(123)		25.08	326	35792m	77.9566 ng
104) Cl6(134)		25.17	360	13720m	55.0813 ng
105) Cl7(188)		25.27	394	508m	2.9559 ng
106) Cl5(118)-S1	(0.220)	25.34	323	1793	No Calib
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.30	326E	384938	704.7044 ng
Corrected Values:				384544	704.0420 ng
109) Cl6(131)		25.36	360	4034m	15.1805 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.64	360	35434m	104.7818 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.67	326	6663	15.2616 ng
Corrected Values:				6663	15.2616 ng
115) Cl6(153)		25.90	360E	287796	710.3118 ng
116) Cl7(179)		26.12	394	10005m	31.8021 ng
117) Cl5(105)-S1	(0.220)	26.29t	323	2447	No Calib
118) Cl5(105)		26.25	326	63918m	139.9141 ng
Corrected Values:				63380	138.8035 ng
119) Cl6(141)		26.29t	360	16428m	58.5719 ng
120) Cl7(176)		26.38	394	2192m	7.8666 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.51	360	11214m	40.3123 ng
124) Cl6(130)		26.64	360	12088m	42.4028 ng
125) Cl6(164)		26.69	360	21411m	57.5020 ng
126) Cl6(138)		26.83	360	109829m	296.7183 ng
127) Cl6(163)-S1	(0.265)	26.92t	357	1107	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9334.D MF0785.M Tue Mar 17 13:24:37 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9334.D

Vial: 17

Acq On : 12 Mar 2015 12:09 am

Operator: RR

Sample : L0133-P(2)

Inst : Inst. F

Misc : S-14N-RBB22-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:01 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:44:56 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.88	360	81494m	219.3797 ng
Corrected Values:				81201	218.6347 ng
129) Cl7(178)		26.92t	394	4017	17.1827 ng
130) Cl6(158)		26.98	360	35186	83.7038 ng
131) Cl7(175)		27.12	394	905m	4.3725 ng
132) Cl7(187)		27.20	394	25974m	93.9317 ng
133) Cl6(166) -S1	(0.265)	27.37t	357	1217	No Calib
134) Cl6(166)		27.37t	360	2644m	8.2012 ng
Corrected Values:				2321	7.3421 ng
135) Cl7(183)		27.37t	394	10638m	41.4425 ng
136) Cl5(126)		27.53	326	2233	7.4908 ng
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.69	360	31875	116.0162 ng
Corrected Values:				31875	116.0162 ng
139) Cl7(185)		27.71	394	1179m	6.2825 ng
140) Cl7(174)		27.82	394	10011m	44.0862 ng
141) Cl6(167)		27.92	360	19413m	54.6681 ng
142) Cl8(202)		28.00	428	1798m	8.3607 ng
143) Cl7(177)		28.10	394	7026m	34.0004 ng
144) Cl8(201)		28.21tw	428	840m	4.6829 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.22tw	394	5081m	23.1674 ng
Corrected Values:				5081	23.1674 ng
147) Cl7(173)		28.30	394	359m	3.6562 ng
148) Cl8(197)		28.42	428	305	2.6425 ng
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.53	360	27718m	79.5708 ng
Corrected Values:				27718	79.5708 ng
151) Cl7(172)		28.57	394	2964	15.0756 ng
152) Cl6(157)		28.63	360	6784m	20.5612 ng
153) Cl7(180)		28.76	394	33538m	127.5645 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.80	394	1700m	7.3169 ng
Corrected Values:				1700	7.3169 ng
156) Cl8(200)		28.84	428	614m	4.0990 ng
157) Cl7(191)		28.93	394	1251m	5.8049 ng
158) Cl7(170) -S1	(0.309)	29.52tw	391	1042	No Calib
159) Cl7(170)		29.47	394	17315m	91.1534 ng
Corrected Values:				16993	89.5907 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.53tw	428	4308m	28.7256 ng
162) Cl7(190)		29.58	394	5159m	19.2345 ng
163) Cl6(169) -S2	(1.610)	29.69tw	356	2853	No Calib
164) Cl6(169)		29.70tw	360	4623m	18.2616 ng
Corrected Values:				30	2.5597 ng
165) Cl8(203)		29.71tw	428	5418m	28.9443 ng
166) Cl9(208)		30.21	464	1219	7.9206 ng
167) Cl7(189)		30.35	394	1168m	7.1944 ng
168) Cl9(207)		30.40	464	472m	4.4276 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9334.D MF0785.M Tue Mar 17 13:24:37 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9334.D Vial: 17
 Acq On : 12 Mar 2015 12:09 am Operator: RR
 Sample : L0133-P(2) Inst : Inst. F
 Misc : S-14N-RBB22-00-05 5-315 15-0072 Multiplr: 1.00
 MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:01 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:44:56 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.42	428	1530	10.1362 ng
Corrected Values:				1530	10.1362 ng
171) Cl8(194)		30.91	428	4132m	30.9765 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.56	464	2528m	22.3292 ng
174) Cl10(209)		32.06	498	895m	8.0240 ng

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9334.D MF0785.M Tue Mar 17 13:24:37 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9336.D

Vial: 19

Acq On : 12 Mar 2015 1:45 am

Operator: RR

Sample : L0239-P(2)

Inst : Inst. F

Misc : S-14D-2014-36-75-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:08 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:04 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.20	326	44991m	95.0000	ng
78) Cl6(161)	25.93	360	46653m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.24	255	3408m	0.0000	ng
27) Cl3(34)	15.37	256	209048m	352.2409	ng
Spiked Amount	379.8670			Recovery	= 92.53%
Corrected Values:			208588	351.4786	ng
114) Cl6(152)	22.66	360	119658m	239.0645	ng
Spiked Amount	381.3865			Recovery	= 62.68%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154E	11092551m	Below Cal	
3) Cl1(1)		0.00	188	0	N.D. d	
4) Cl1(3)		0.00	188	0	N.D. d	
5) Cl2(4)		11.45	222	29986m	52.6405	ng
6) Cl2(7)		12.32	222	4777m	6.7795	ng
7) Cl2(9)		12.29	222	6618m	7.2066	ng
8) Cl2(6)		12.57	222	183566m	195.3100	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.87	222	212948m	214.6502	ng
11) Cl3(19)		13.35	256	10390m	27.6060	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	
14) Cl2(11)		0.00	222	0	N.D. d	
Corrected Values:				0	ng	
15) Cl3(18)		14.23	256e	264471m	615.4874	ng
16) Cl3(17)		14.36	256	95503m	217.0906	ng
17) Cl2(12)		0.00	222	0	N.D. d	
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D. d	
19) Cl2(13)		14.51	222	21927m	27.2226	ng
Corrected Values:				21927	27.2226	ng
20) Cl3(27)		0.00	256	0	N.D.	
21) Cl3(24)		14.70	256	14811m	25.4707	ng
22) Cl3(16)		0.00	256	0	N.D.	
23) Cl2(15)		0.00	222	0	N.D. d	
24) Cl3(32)		0.00	256	0	N.D.	
25) Cl4(54)		0.00	292	0	N.D. d	
28) Cl3(29)		0.00	256	0	N.D.	
29) Cl3(26)-S1 (0.135)		15.93tw	255	4871	No Calib	
30) Cl3(26)		15.92tw	256E	833516m	1201.2548	ng
Corrected Values:				832858	1200.3747	ng
31) Cl4(50)		0.00	292	0	N.D. d	
32) Cl3(25)		16.05	256E	435060m	675.8993	ng
33) Cl3(31)-S1 (0.135)		16.42tw	255	14865	No Calib	
34) Cl3(31)		16.40	256E	1205356m	1568.7823	ng
Corrected Values:				1203349	1566.5860	ng
35) Cl4(53)		16.43tw	292	43503m	103.7232	ng
36) Cl3(28)		16.52	256E	1137554m	1560.4590	ng
37) Cl3(33)		16.63	256e	226131m	377.0838	ng
38) Cl4(51)		16.69	292	16026m	37.0548	ng

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9336.D MF0785.M Tue Mar 17 13:24:38 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9336.D

Vial: 19

Acq On : 12 Mar 2015 1:45 am

Operator: RR

Sample : L0239-P(2)

Inst : Inst. F

Misc : S-14D-2014-36-75-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:08 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:04 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		17.07	292	23179m	68.2935 ng
40) Cl3(22)		17.20	256e	245900m	410.3649 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.86	292E	817894m	1653.9619 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		18.04tw	292E	731968m	1495.3328 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	18.05tw	289e	7227	No Calib
48) Cl4(47)		18.15	292e	286323m	596.5625 ng
Corrected Values:				285066	593.9918 ng
49) Cl4(75)		18.22	292	22906m	40.8400 ng
50) Cl4(44)		18.58	292E	357958m	831.2405 ng
51) Cl4(42)		18.84	292e	199521m	513.3036 ng
52) Cl4(71)		19.02	292	116548m	219.9410 ng
53) Cl4(41)		19.11	292	13567m	45.6380 ng
54) Cl4(64)		19.40	292E	391542m	648.1091 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	19.47	255	21480	No Calib
57) Cl3(37)		19.50	256e	224656m	363.7477 ng
Corrected Values:				221756	359.2587 ng
58) Cl5(100)		19.83	326	7790m	22.9886 ng
59) Cl4(67)		20.18	292	109605m	206.7182 ng
60) Cl4(63)		20.67	292	77695m	155.3585 ng
61) Cl5(95)		20.72	326E	375070m	973.6382 ng
62) Cl4(74)		20.90	292E	510444m	769.9897 ng
63) Cl4(70)		21.02	292E	496183m	807.3072 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		21.15	326e	153004m	406.0781 ng
Corrected Values:				153004	406.0781 ng
66) Cl4(66)-S1	(0.174)	21.12	289	34276	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.30	292E	578053m	919.1505 ng
Corrected Values:				572089	910.9769 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		21.59	292	41990m	83.6045 ng
71) Cl5(92)		21.78Tw	326	111421m	296.0405 ng
72) Cl5(84)		21.79Tw	326e	116778m	343.7596 ng
73) Cl4(56)-S1	(0.174)	21.77tw	289e	76915	No Calib
74) Cl4(56)		21.89	292e	230327m	413.9744 ng
Corrected Values:				216944	390.8422 ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D.
76) Cl4(60)		22.15	292	165183m	304.6673 ng
Corrected Values:				165183	304.6673 ng
77) Cl5(101)		22.11	326E	680606m	1350.5075 ng
79) Cl5(99)		22.47	326E	518044m	852.9485 ng
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		22.93	326	86795m	146.5654 ng
82) Cl5(97)		23.09	326E	221108m	491.1561 ng
83) Cl5(87)		23.43	326e	209214m	435.6878 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9336.D MF0785.M Tue Mar 17 13:24:38 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9336.D

Vial: 19

Acq On : 12 Mar 2015 1:45 am

Operator: RR

Sample : L0239-P(2)

Inst : Inst. F

Misc : S-14D-2014-36-75-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:08 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:04 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.52	360	60017m	119.8029 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.71tw	360	12453m	27.9593 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.70tw	326e	108888m	253.2861 ng
Corrected Values:				108888	253.2861 ng
89) Cl5(110)		23.94	326E	1179235m	1408.1675 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		24.42tw	326	54325m	141.4587 ng
Corrected Values:				54325	141.4587 ng
93) Cl6(151)		24.41tw	360	55708m	146.8223 ng
94) Cl6(135)		24.48	360	49030m	130.5716 ng
95) Cl4(77)-S2	(0.650)	24.57	288	19132	No Calib
96) Cl4(77)		24.66	292	95341m	143.1245 ng
Corrected Values:				82905	125.2132 ng
97) Cl6(144)		24.61	360	12473m	32.0460 ng
98) Cl6(149)		24.85	360E	409738m	855.4815 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		25.07	326	39292m	60.8658 ng
Corrected Values:				39292	60.8658 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.30tw	326	118106m	194.8846 ng
104) Cl6(134)		25.31tw	360	24406m	77.6126 ng
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.52	326E	1005094m	1360.6765 ng
Corrected Values:				1005094	1360.6765 ng
109) Cl6(131)		25.55	360	16086m	45.1306 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.81	360	82469m	188.6690 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D.
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D. d
116) Cl7(179)		26.23	394	16807m	42.3726 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.35	326E	323767m	499.9740 ng
Corrected Values:				323767	499.9740 ng
119) Cl6(141)		26.39	360	51152m	140.6449 ng
120) Cl7(176)		26.47	394	5408m	14.3358 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.60	360	32829m	91.2534 ng
124) Cl6(130)		26.73	360	32824m	92.2201 ng
125) Cl6(164)		26.79	360	49754m	104.9818 ng
126) Cl6(138)		26.92	360E	394407m	762.8284 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9336.D MF0785.M Tue Mar 17 13:24:39 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9336.D

Vial: 19

Acq On : 12 Mar 2015 1:45 am

Operator: RR

Sample : L0239-P(2)

Inst : Inst. F

Misc : S-14D-2014-36-75-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:08 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:04 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.97	360e	141635m	298.6777 ng
Corrected Values:				141635	298.6777 ng
129) Cl7(178)		27.01	394	6786m	22.8576 ng
130) Cl6(158)		27.08	360	90485m	169.6924 ng
131) Cl7(175)		27.22	394	2917m	10.4909 ng
132) Cl7(187)		27.29	394	47948m	137.1595 ng
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D.
Corrected Values:				0	ng
135) Cl7(183)		27.46	394	23135m	70.5519 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		27.82tw	360e	111208m	303.2936 ng
Corrected Values:				111208	303.2936 ng
139) Cl7(185)		27.83tw	394	2557m	10.0619 ng
140) Cl7(174)		27.92	394	24517m	84.1137 ng
141) Cl6(167)		28.03	360	47843m	103.5189 ng
142) Cl8(202)		28.06	428	3175m	11.1129 ng
143) Cl7(177)		28.18	394	20000m	74.4660 ng
144) Cl8(201)		28.30t	428	1721m	6.7232 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.30t	394	12691m	45.0459 ng
Corrected Values:				12691	45.0459 ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.75tw	360	92182m	197.2788 ng
Corrected Values:				92182	197.2788 ng
151) Cl7(172)		28.76tw	394	8881m	33.4327 ng
152) Cl6(157)		28.84	360	23921m	53.2009 ng
153) Cl7(180)		28.93	394	86209m	248.4185 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		28.95	394	3186m	10.1604 ng
Corrected Values:				3186	10.1604 ng
156) Cl8(200)		29.00	428	1043m	4.9305 ng
157) Cl7(191)		29.05	394	3762m	11.3673 ng
158) Cl7(170) -S1	(0.309)	29.61t	391	1415	No Calib
159) Cl7(170)		29.56	394	42034m	165.8636 ng
Corrected Values:				41597	164.3441 ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		29.61t	428	9131m	47.6280 ng
162) Cl7(190)		29.68	394	11972m	33.8689 ng
163) Cl6(169) -S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.78	428	9784m	40.9832 ng
166) Cl9(208)		30.28	464	2238m	10.9871 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		30.50	464	1009m	5.9090 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9336.D MF0785.M Tue Mar 17 13:24:39 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9336.D Vial: 19
 Acq On : 12 Mar 2015 1:45 am Operator: RR
 Sample : L0239-P(2) Inst : Inst. F
 Misc : S-14D-2014-36-75-00-10 5-315 15-0072 Multiplr: 1.00
 MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:08 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:45:04 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.52	428	3666m	18.1906 ng
Corrected Values:				3666	18.1906 ng
171) Cl8(194)		30.98	428	9884m	56.2913 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.63	464	4744m	32.6882 ng
174) Cl10(209)		32.15	498	2013m	13.5734 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9336.D MF0785.M Tue Mar 17 13:24:39 2015 040221CFS

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Data File : G:\F\DATA\SF0785\F9338.D

Vial: 21

Acq On : 12 Mar 2015 3:21 am

Operator: RR

Sample : L0246-P(2)

Inst : Inst. F

Misc : S-14D-2014-36-76-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:11 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	45888m	95.0000	ng
78) Cl6(161)	25.79	360	40811m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.30	256	205288m	339.3532	ng
Spiked Amount	379.8670			Recovery	= 89.33%
Corrected Values:			205288	339.3532	ng
114) Cl6(152)	22.47	360	128719m	291.9460	ng
Spiked Amount	381.3865			Recovery	= 76.55%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	215155m	127.6484	ng
3) Cl1(1)		9.93	188	7065m	5.9814	ng
4) Cl1(3)		11.14	188	9594m	8.9175	ng
5) Cl2(4)		11.42	222	31941m	54.9620	ng
6) Cl2(7)		12.31	222	3813m	5.4455	ng
7) Cl2(9)		12.26	222	8995m	9.2363	ng
8) Cl2(6)		12.55	222	197327m	205.9180	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.85	222	247251m	245.0808	ng
11) Cl3(19)		13.31	256	12081m	31.3859	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D. d	
14) Cl2(11)		0.00	222	0	N.D. d	
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256E	332876m	765.3784	ng
16) Cl3(17)		14.28	256e	156791m	350.2062	ng
17) Cl2(12)		0.00	222	0	N.D. d	
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D. d	
19) Cl2(13)		14.51tw	222	189413m	221.6222	ng
Corrected Values:				189413	221.6222	ng
20) Cl3(27)		14.52tw	256	32965m	52.1655	ng
21) Cl3(24)		14.64	256	5884m	10.5613	ng
22) Cl3(16)		14.84	256	65899m	198.5309	ng
23) Cl2(15)		14.89	222e	455987m	451.0390	ng
24) Cl3(32)		14.97	256	121575m	191.5553	ng
25) Cl4(54)		0.00	292	0	N.D. d	
28) Cl3(29)		15.54	256	3369	6.7958	ng #
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D. d	
30) Cl3(26)		15.85	256E	834139m	1180.2546	ng
Corrected Values:				834139	1180.2546	ng
31) Cl4(50)		0.00	292	0	N.D. d	
32) Cl3(25)		15.97	256e	405095m	620.3613	ng
33) Cl3(31)-S1 (0.135)		16.35t	255	19484	No Calib	
34) Cl3(31)		16.32	256E	1577637m	1929.2022	ng
Corrected Values:				1575007	1926.5722	ng
35) Cl4(53)		16.35t	292	52302m	122.2061	ng
36) Cl3(28)		16.43	256E	1394562m	1837.2362	ng
37) Cl3(33)		16.54	256e	332598m	537.0316	ng
38) Cl4(51)		16.61	292	21463m	48.3063	ng

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9338.D MF0785.M Tue Mar 17 13:24:47 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9338.D

Vial: 21

Acq On : 12 Mar 2015 3:21 am

Operator: RR

Sample : L0246-P(2)

Inst : Inst. F

Misc : S-14D-2014-36-76-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:11 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.95	292	39880m	113.9455 ng
40) Cl3(22)		17.03	256E	413996m	659.4405 ng
41) Cl4(46)		17.21	292	13988m	44.3530 ng
42) Cl4(43)		17.60	292	71395m	196.1954 ng
43) Cl4(52)		17.66	292E	896015m	1754.8538 ng
44) Cl4(48)		17.81	292	119759m	277.5806 ng
45) Cl4(49)		17.87	292E	826793m	1626.5435 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.06	292e	301794m	616.1247 ng
Corrected Values:				301794	616.1247 ng
49) Cl4(75)		18.14	292	16500	29.3398 ng
50) Cl4(44)		18.51	292E	354291	810.5665 ng
51) Cl4(42)		18.71	292e	203070	512.3250 ng
52) Cl4(71)		18.94	292	139717m	256.6983 ng
53) Cl4(41)		19.04	292	15471m	50.8300 ng
54) Cl4(64)		19.32	292E	439754m	705.0248 ng
55) Cl4(40)		19.41tw	292	38399m	126.6009 ng
56) Cl3(37)-S1	(0.135)	19.40t	255	31509	No Calib
57) Cl3(37)		19.40t	256E	436579	668.3213 ng
Corrected Values:				432325	662.2661 ng
58) Cl5(100)		19.77	326	8994m	25.8749 ng
59) Cl4(67)		20.07	292	120399	221.2928 ng
60) Cl4(63)		20.46	292	74886m	147.3689 ng
61) Cl5(95)		20.60	326E	465599m	1145.5523 ng
62) Cl4(74)		20.67	292E	623028m	895.5040 ng
63) Cl4(70)		20.81	292E	934888m	1375.0868 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.97t	326e	167321	433.4646 ng
Corrected Values:				167321	433.4646 ng
66) Cl4(66)-S1	(0.174)	20.97t	289e	40590	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.01	292E	910848	1325.5666 ng
Corrected Values:				903785	1317.1071 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		21.32	292	35848	70.6018 ng #
71) Cl5(92)		21.61t	326e	150605m	383.1187 ng
72) Cl5(84)		21.62Tw	326e	114642m	334.0934 ng
73) Cl4(56)-S1	(0.174)	21.61t	289e	91924	No Calib
74) Cl4(56)		21.67	292E	370183	638.4566 ng
Corrected Values:				354188	612.3448 ng
75) Cl4(60)-S1	(0.174)	21.92t	289E	126082	No Calib
76) Cl4(60)		21.93tw	292e	257350m	451.5378 ng
Corrected Values:				235412	415.9923 ng
77) Cl5(101)		21.92t	326E	884617	1630.7970 ng
79) Cl5(99)		22.19	326E	673304m	1184.2844 ng
80) Cl5(83)		22.57	326	93937m	279.0171 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.87	326E	315453m	782.3251 ng
83) Cl5(87)		23.33	326E	280415m	617.9896 ng

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9338.D MF0785.M Tue Mar 17 13:24:47 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9338.D

Vial: 21

Acq On : 12 Mar 2015 3:21 am

Operator: RR

Sample : L0246-P(2)

Inst : Inst. F

Misc : S-14D-2014-36-76-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:11 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.41	360	68347m	155.3222 ng
85) Cl5(115)		23.46	326	58059m	101.3022 ng
86) Cl6(154)		23.61	360	13125m	33.3699 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.58	326e	160219m	504.3057 ng
Corrected Values:				160219	504.3057 ng
89) Cl5(110)		23.85tw	326E	1477802m	1852.4157 ng
90) Cl4(81)		23.84tw	292	17143m	31.2157 ng
91) Cl5(82)-S1	(0.220)	24.28t	323	17471	No Calib
92) Cl5(82)		24.28t	326	71117m	208.2447 ng
Corrected Values:				67273	197.4914 ng
93) Cl6(151)		24.28t	360	69671m	206.9578 ng
94) Cl6(135)		24.38	360	60025m	181.3696 ng
95) Cl4(77)-S2	(0.650)	24.46	288	22057	No Calib
96) Cl4(77)		24.48	292	129963m	218.1240 ng
Corrected Values:				115626	195.3078 ng
97) Cl6(144)		24.52	360	21495m	61.7290 ng
98) Cl6(149)		24.74	360E	515688m	1158.4685 ng
99) Cl6(139)		24.87	360	14015m	40.9224 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.92	326	47856m	83.8184 ng
Corrected Values:				47856	83.8184 ng
102) Cl6(140)		24.96	360	2342m	7.7560 ng
103) Cl5(123)		25.13	326	129962m	240.6438 ng
104) Cl6(134)		25.21	360	29677m	106.9531 ng
105) Cl7(188)		25.31	394	533m	2.8991 ng
106) Cl5(118)-S1	(0.220)	25.37t	323	5185	No Calib
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.35	326E	1413075m	2031.3732 ng
Corrected Values:				1411934	2030.0229 ng
109) Cl6(131)		25.37t	360	10889m	35.2866 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.69	360	106902m	271.7690 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.71	326	29288m	55.5552 ng
Corrected Values:				29288	55.5552 ng
115) Cl6(153)		25.94	360E	875968m	1631.2428 ng
116) Cl7(179)		26.16	394	20349m	58.1541 ng
117) Cl5(105)-S1	(0.220)	26.33t	323	13007	No Calib
118) Cl5(105)		26.28	326E	442841m	729.6783 ng
Corrected Values:				439979	725.7796 ng
119) Cl6(141)		26.33t	360	73098m	224.8820 ng
120) Cl7(176)		26.42	394	6846m	20.1931 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.55	360	43272m	135.0415 ng
124) Cl6(130)		26.68	360	43490m	141.0381 ng
125) Cl6(164)		26.74	360	70861m	168.1007 ng
126) Cl6(138)		26.87	360E	599760m	1206.7651 ng
127) Cl6(163)-S1	(0.265)	26.96tw	357	2198	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9338.D MF0785.M Tue Mar 17 13:24:47 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9338.D

Vial: 21

Acq On : 12 Mar 2015 3:21 am

Operator: RR

Sample : L0246-P(2)

Inst : Inst. F

Misc : S-14D-2014-36-76-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:11 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.92	360e	183921m	428.9058 ng
Corrected Values:				183339	427.6796 ng
129) Cl7(178)		26.97tw	394	8733m	33.1315 ng
130) Cl6(158)		27.02	360	119165m	253.5005 ng
131) Cl7(175)		27.16	394	3955m	15.9551 ng
132) Cl7(187)		27.23	394	57719m	186.7931 ng
133) Cl6(166)-S1	(0.265)	27.41t	357	3198	No Calib
134) Cl6(166)		27.41t	360	7194m	18.6251 ng
Corrected Values:				6347	16.5789 ng
135) Cl7(183)		27.41t	394	30460m	104.8011 ng
136) Cl5(126)		27.57	326	7370m	19.3008 ng
137) Cl6(128)-S1	(0.265)	27.71tw	357	6109	No Calib
138) Cl6(128)		27.72tw	360e	147457m	440.7227 ng
Corrected Values:				145838	436.4411 ng
139) Cl7(185)		27.75	394	3253m	14.1039 ng
140) Cl7(174)		27.86	394	33926m	130.9548 ng
141) Cl6(167)		27.95	360	54498m	132.4163 ng
142) Cl8(202)		28.03	428	3892m	14.8927 ng
143) Cl7(177)		28.13	394	25725m	107.6714 ng
144) Cl8(201)		28.25t	428	2171m	9.0351 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		28.25t	394	17841m	71.2338 ng
Corrected Values:				17841	71.2338 ng
147) Cl7(173)		28.33	394	1249m	7.3235 ng
148) Cl8(197)		28.48	428	557m	3.4560 ng
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.56	360	110689m	262.1841 ng
Corrected Values:				110689	262.1841 ng
151) Cl7(172)		28.60	394	8211m	35.2139 ng
152) Cl6(157)		28.65	360	27102m	68.0382 ng
153) Cl7(180)		28.80	394e	104126m	331.5876 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		28.83	394	4610m	15.7336 ng
Corrected Values:				4610	15.7336 ng
156) Cl8(200)		28.88	428	1246m	6.0815 ng
157) Cl7(191)		28.97	394	3200m	11.1048 ng
158) Cl7(170)-S1	(0.309)	29.56t	391	2069	No Calib
159) Cl7(170)		29.50	394	54270m	232.2718 ng
Corrected Values:				53631	229.9462 ng
160) Cl8(198)		29.56t	428	11167m	55.0318 ng
161) Cl8(199)		29.56t	428	11028m	64.9716 ng
162) Cl7(190)		29.62	394	13781m	43.8000 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		29.73tw	360	12061m	39.6206 ng
Corrected Values:				12061	39.6206 ng
165) Cl8(203)		29.74tw	428	12489m	58.7476 ng
166) Cl9(208)		30.24	464	2568m	13.9697 ng
167) Cl7(189)		30.39	394	3538m	16.2625 ng
168) Cl9(207)		30.44tw	464	969m	6.2578 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9338.D MF0785.M Tue Mar 17 13:24:48 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9338.D Vial: 21
 Acq On : 12 Mar 2015 3:21 am Operator: RR
 Sample : L0246-P(2) Inst : Inst. F
 Misc : S-14D-2014-36-76-00-10-REP 5-315 15-0072 Multiplr: 1.00
 MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:11 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:45:08 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.45tw	428	3747m	21.0193 ng
Corrected Values:				3747	21.0193 ng
171) Cl8(194)		30.94	428	11420m	72.6732 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.59	464	5379m	41.7150 ng
174) Cl10(209)		32.10	498	1810m	13.9199 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9338.D MF0785.M Tue Mar 17 13:24:48 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9340.D

Vial: 23

Acq On : 12 Mar 2015 4:57 am

Operator: RR

Sample : L0266-P(2)

Inst : Inst. F

Misc : S-14D-2014-33-43-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:17 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:14 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.12	326	63821m	95.0000	ng
78) Cl6(161)	25.78	360	52157m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.30t	256	283895m	337.4592	ng
Spiked Amount	379.8670			Recovery	= 88.84%
Corrected Values:			283895	337.4592	ng
114) Cl6(152)	22.47	360	186416m	329.2257	ng
Spiked Amount	381.3865			Recovery	= 86.32%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154e	605035	263.9601	ng
3) Cl1(1)		9.93	188	9477m	5.7807	ng
4) Cl1(3)		11.14	188	14117m	9.3900	ng
5) Cl2(4)		11.43	222	126853m	156.1458	ng
6) Cl2(7)		12.32	222	12904m	12.3330	ng
7) Cl2(9)		12.27	222	25965m	17.9736	ng
8) Cl2(6)		12.55	222e	520575m	393.7862	ng
9) Cl2(5)		0.00	222	0	N.D. d	
10) Cl2(8)		12.85	222e	533189m	385.8057	ng
11) Cl3(19)		13.31	256	28241m	52.3458	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D. d	
14) Cl2(11)		0.00	222	0	N.D. d	
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256E	550389m	917.1655	ng
16) Cl3(17)		14.29	256e	247128m	397.2983	ng
17) Cl2(12)		14.38	222	4283m	5.0080	ng
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D. d	
19) Cl2(13)		14.52tw	222	225591m	189.4876	ng
Corrected Values:				225591	189.4876	ng
20) Cl3(27)		14.53tw	256	61187m	69.3691	ng
21) Cl3(24)		14.65	256	7155m	9.3684	ng
22) Cl3(16)		14.84	256	78634m	170.6210	ng
23) Cl2(15)		14.89	222	322625m	232.2797	ng
24) Cl3(32)		14.97	256	180421m	204.5055	ng
25) Cl4(54)		15.30t	292	1736m	2.6204	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D. d	
30) Cl3(26)		15.84	256E	847919m	879.8227	ng
Corrected Values:				847919	879.8227	ng
31) Cl4(50)		0.00	292	0	N.D. d	
32) Cl3(25)		15.97	256E	497550m	551.5427	ng
33) Cl3(31)-S1 (0.135)		16.35t	255	28637	No Calib	
34) Cl3(31)		16.32	256E	1555750m	1448.4736	ng
Corrected Values:				1551884	1445.4163	ng
35) Cl4(53)		16.35t	292	69651m	117.0221	ng
36) Cl3(28)		16.43	256E	1363858m	1341.1492	ng
37) Cl3(33)		16.54	256e	201097	239.2567	ng
38) Cl4(51)		16.61	292	30654m	49.5783	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9340.D MF0785.M Tue Mar 17 13:24:49 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9340.D

Vial: 23

Acq On : 12 Mar 2015 4:57 am

Operator: RR

Sample : L0266-P(2)

Inst : Inst. F

Misc : S-14D-2014-33-43-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:17 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:14 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.95	292	55836m	114.6903 ng
40) Cl3(22)		17.03	256e	312092m	368.8990 ng
41) Cl4(46)		17.21	292	21458m	48.8061 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.65	292E	874514m	1302.7269 ng
44) Cl4(48)		17.81	292	108821m	184.6271 ng
45) Cl4(49)		17.86	292E	776919m	1171.3653 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.05	292e	285495m	421.7079 ng
Corrected Values:				285495	421.7079 ng
49) Cl4(75)		18.14	292	17705m	23.0348 ng
50) Cl4(44)		18.50	292E	403947m	684.7787 ng
51) Cl4(42)		18.70	292e	240598m	442.8074 ng
52) Cl4(71)		18.94	292	160181m	213.3714 ng
53) Cl4(41)		19.03	292	12090m	29.2054 ng
54) Cl4(64)		19.32	292E	412656m	497.7200 ng
55) Cl4(40)		19.40tw	292	31533m	75.2402 ng
56) Cl3(37)-S1	(0.135)	19.39t	255	26730	No Calib
57) Cl3(37)		19.39t	256e	232327	268.5749 ng
Corrected Values:				228718	264.5534 ng
58) Cl5(100)		19.77	326	8114m	17.1631 ng
59) Cl4(67)		20.06	292	73456m	102.4902 ng
60) Cl4(63)		20.46	292	41993m	62.4603 ng
61) Cl5(95)		20.60	326E	331659m	649.2436 ng
62) Cl4(74)		20.67	292e	361229m	418.4317 ng
63) Cl4(70)		20.81	292E	548696m	645.0874 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.98tw	326e	133491	256.1749 ng
Corrected Values:				133491	256.1749 ng
66) Cl4(66)-S1	(0.174)	20.97tw	289	33396	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.01	292E	574549m	673.2573 ng
Corrected Values:				568738	667.1979 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		21.31	292	18685m	28.0073 ng
71) Cl5(92)		21.61T	326	107616m	206.8685 ng
72) Cl5(84)		21.61T	326	86935m	208.5244 ng
73) Cl4(56)-S1	(0.174)	21.61t	289	60886	No Calib
74) Cl4(56)		21.66	292e	206137	265.4465 ng
Corrected Values:				195543	252.2131 ng
75) Cl4(60)-S1	(0.174)	21.91t	289E	65978	No Calib
76) Cl4(60)		21.92tw	292	122162m	164.1717 ng
Corrected Values:				110682	149.3563 ng
77) Cl5(101)		21.91t	326E	497968m	784.4749 ng
79) Cl5(99)		22.19	326E	365372m	572.2019 ng
80) Cl5(83)		22.57	326	60399m	146.8120 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.85	326e	151357m	305.7595 ng
83) Cl5(87)		23.31	326	95832m	199.3219 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9340.D MF0785.M Tue Mar 17 13:24:49 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9340.D

Vial: 23

Acq On : 12 Mar 2015 4:57 am

Operator: RR

Sample : L0266-P(2)

Inst : Inst. F

Misc : S-14D-2014-33-43-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:17 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:14 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.39	360	41268m	74.1437 ng
85) Cl5(115)		23.46	326	26971m	39.1512 ng
86) Cl6(154)		23.60	360	8557m	17.7809 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.57	326	67572m	131.4112 ng
Corrected Values:				67572	131.4112 ng
89) Cl5(110)		23.83	326E	747487m	890.8935 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.26tw	323	7593	No Calib
92) Cl5(82)		24.27t	326	30899m	73.4416 ng
Corrected Values:				29229	69.5739 ng
93) Cl6(151)		24.27t	360	38012m	90.9950 ng
94) Cl6(135)		24.37	360	32800m	79.0385 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.48	292	69578m	95.0988 ng
Corrected Values:				69578	95.0988 ng
97) Cl6(144)		24.52	360	8918m	20.9973 ng
98) Cl6(149)		24.73	360E	252108m	507.3941 ng
99) Cl6(139)		24.85	360	5413m	13.3079 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.91	326	23060m	32.8770 ng
Corrected Values:				23060	32.8770 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.12	326	60266m	93.1385 ng
104) Cl6(134)		25.19	360	15962m	46.1134 ng
105) Cl7(188)		25.31	394	483m	2.5084 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.33	326E	614080m	795.3063 ng
Corrected Values:				614080	795.3063 ng
109) Cl6(131)		25.37	360	4550m	12.5310 ng
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		25.67	360	48661m	103.0430 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.71	326	13053m	20.6719 ng
Corrected Values:				13053	20.6719 ng
115) Cl6(153)		25.93	360E	357062	640.8400 ng
116) Cl7(179)		26.15	394	10338m	23.7550 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.27	326e	151691m	229.3651 ng
Corrected Values:				151691	229.3651 ng
119) Cl6(141)		26.33	360	27056m	68.5300 ng
120) Cl7(176)		26.41	394	2837m	7.3750 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.53	360	16615m	42.6294 ng
124) Cl6(130)		26.67	360	16116m	40.4723 ng
125) Cl6(164)		26.72	360	33711m	64.5567 ng
126) Cl6(138)		26.86	360e	208541m	393.4025 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9340.D MF0785.M Tue Mar 17 13:24:49 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9340.D

Vial: 23

Acq On : 12 Mar 2015 4:57 am

Operator: RR

Sample : L0266-P(2)

Inst : Inst. F

Misc : S-14D-2014-33-43-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:17 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:14 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.91	360	87870m	171.4695 ng
Corrected Values:				87870	171.4695 ng
129) Cl7(178)		26.95	394	4107m	12.8439 ng
130) Cl6(158)		27.00	360	48051m	81.8341 ng
131) Cl7(175)		27.14	394	1102m	3.8718 ng
132) Cl7(187)		27.22	394	25523m	66.7005 ng
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		27.40	394	12152m	34.2137 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.70	360	48909m	126.8115 ng
Corrected Values:				48909	126.8115 ng
139) Cl7(185)		27.74	394	1261m	5.0732 ng
140) Cl7(174)		27.84	394	12877m	40.7357 ng
141) Cl6(167)		27.94	360	23805m	48.3376 ng
142) Cl8(202)		28.01	428	1988m	6.9669 ng
143) Cl7(177)		28.12	394	9419m	32.6915 ng
144) Cl8(201)		28.24t	428	864m	3.8392 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.24t	394	6579m	21.5432 ng
Corrected Values:				6579	21.5432 ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.56	360	41160m	84.2416 ng
Corrected Values:				41160	84.2416 ng
151) Cl7(172)		28.59	394	3431m	12.8036 ng
152) Cl6(157)		28.65	360	9824m	21.2118 ng
153) Cl7(180)		28.78	394	41152m	112.8460 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		28.82	394	2390m	7.3507 ng
Corrected Values:				2390	7.3507 ng
156) Cl8(200)		28.86	428	503m	3.1400 ng
157) Cl7(191)		28.95	394	1831m	5.9922 ng
158) Cl7(170) -S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		29.49	394	22026m	83.5704 ng
Corrected Values:				22026	83.5704 ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		29.55	428	4675m	22.6023 ng
162) Cl7(190)		29.61	394	5466m	15.0714 ng
163) Cl6(169) -S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.73	428	5210m	20.4297 ng
166) Cl9(208)		30.22	464	1477m	7.0474 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9340.D MF0785.M Tue Mar 17 13:24:50 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9340.D Vial: 23
Acq On : 12 Mar 2015 4:57 am Operator: RR
Sample : L0266-P(2) Inst : Inst. F
Misc : S-14D-2014-33-43-00-10 5-315 15-0072 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:17 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Thu Mar 12 09:45:14 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.43	428	2067m	9.8425 ng
Corrected Values:				2067	9.8425 ng
171) Cl8(194)		30.93	428	5569m	29.9640 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.58	464	2539m	16.4233 ng
174) Cl10(209)		32.08	498	967m	6.4391 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9340.D MF0785.M Tue Mar 17 13:24:50 2015 040221CFS

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Data File : G:\F\DATA\SF0785\F9341.D

Vial: 24

Acq On : 12 Mar 2015 5:45 am

Operator: RR

Sample : L0316-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-79-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:20 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:17 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	57983m	95.0000	ng
78) Cl6(161)	25.73	360	49459m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	15.30t	255	561m	0.0000	ng
27) Cl3(34)	15.29tw	256	256249m	335.3003	ng
Spiked Amount	379.8670			Recovery	= 88.24%
Corrected Values:			256173	335.2025	ng
114) Cl6(152)	22.42	360	180471m	335.8243	ng
Spiked Amount	381.3865			Recovery	= 88.05%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	18571m	8.6381	ng
3) Cl1(1)		9.94	188	587m	0.7046	ng
4) Cl1(3)		11.13	188	525m	1.1191	ng
5) Cl2(4)		11.42	222	4599m	6.5079	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		12.26	222	822m	1.6881	ng
8) Cl2(6)		12.55	222	18756m	16.1201	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.84	222	15702m	13.0081	ng
11) Cl3(19)		13.31	256	942m	2.5239	ng
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1 (0.135)		14.14t	221	6468	No Calib	
14) Cl2(11)		14.14t	222	4231m	5.1459	ng
Corrected Values:				3358	4.3653	ng
15) Cl3(18)		14.15tw	256	14825m	27.0335	ng
16) Cl3(17)		14.27	256	6880m	12.9735	ng
17) Cl2(12)		0.00	222	0	N.D. d	
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D. d	
19) Cl2(13)		14.50tw	222	7741m	8.6811	ng
Corrected Values:				7741	8.6811	ng
20) Cl3(27)		14.51tw	256	1515m	3.1043	ng
21) Cl3(24)		0.00	256	0	N.D. d	
22) Cl3(16)		14.83	256	2737m	7.0195	ng
23) Cl2(15)		14.89	222	10491m	9.7056	ng
24) Cl3(32)		14.95	256	5104m	7.1651	ng
25) Cl4(54)		15.30t	292	358m	1.0240	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D. d	
30) Cl3(26)		15.83	256	34588m	43.1216	ng
Corrected Values:				34588	43.1216	ng
31) Cl4(50)		0.00	292	0	N.D. d	
32) Cl3(25)		15.96	256	17959m	24.0899	ng
33) Cl3(31)-S1 (0.135)		0.00	255	0	N.D. d	
34) Cl3(31)		16.30	256	42130m	53.1103	ng
Corrected Values:				42130	53.1103	ng
35) Cl4(53)		16.33	292	1989m	4.9663	ng
36) Cl3(28)		16.41	256	38769m	47.9529	ng
37) Cl3(33)		16.53	256	9812m	14.3364	ng
38) Cl4(51)		16.60	292	743m	2.6168	ng

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(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9341.D MF0785.M Tue Mar 17 13:24:51 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9341.D

Vial: 24

Acq On : 12 Mar 2015 5:45 am

Operator: RR

Sample : L0316-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-79-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:20 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:17 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.93	292	1475m	4.1012 ng
40) Cl3(22)		17.00	256	10511m	15.7034 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.63	292	31945m	63.1885 ng
44) Cl4(48)		17.79	292	2514m	5.9420 ng
45) Cl4(49)		17.84	292	26083m	52.5873 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.03	292	9214m	15.6447 ng
Corrected Values:				9214	15.6447 ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		18.47	292	13532m	30.9340 ng
51) Cl4(42)		18.68	292	7126m	16.7933 ng
52) Cl4(71)		18.90	292	5044m	8.9975 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.29	292	11517m	17.7728 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	19.37t	255	1078	No Calib
57) Cl3(37)		19.37t	256	8341m	12.7544 ng
Corrected Values:				8195	12.5646 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		20.02	292	4081m	7.9053 ng
60) Cl4(63)		20.41	292	1491m	4.0705 ng
61) Cl5(95)		20.55	326	13145m	33.5031 ng
62) Cl4(74)		20.62	292	12453m	19.2639 ng
63) Cl4(70)		20.77	292	15889m	24.2720 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.93t	326	5745m	13.7642 ng
Corrected Values:				5745	13.7642 ng
66) Cl4(66)-S1	(0.174)	20.93t	289	1333	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.96	292	18994m	29.4885 ng
Corrected Values:				18762	29.1525 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.56t	326	4267m	11.0659 ng
72) Cl5(84)		21.57Tw	326	3047m	10.5614 ng
73) Cl4(56)-S1	(0.174)	21.56t	289	2625	No Calib
74) Cl4(56)		21.62	292	7400m	12.8310 ng
Corrected Values:				6943	12.1743 ng
75) Cl4(60)-S1	(0.174)	21.86t	289	2512	No Calib
76) Cl4(60)		21.87tw	292	4382	8.4743 ng
Corrected Values:				3945	7.8155 ng
77) Cl5(101)		21.86t	326	21850m	46.8650 ng
79) Cl5(99)		22.13	326	15519m	30.0717 ng
80) Cl5(83)		22.53	326	2511m	7.0736 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.81	326	6818m	16.4402 ng
83) Cl5(87)		23.27	326	4643m	11.4813 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9341.D MF0785.M Tue Mar 17 13:24:51 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9341.D

Vial: 24

Acq On : 12 Mar 2015 5:45 am

Operator: RR

Sample : L0316-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-79-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:20 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:17 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.36	360	2067m	4.2690 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.52	326	3390m	8.1324 ng
Corrected Values:				3390	8.1324 ng
89) Cl5(110)		23.79	326	36023m	56.6274 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		24.23t	326	1492m	4.5332 ng
Corrected Values:				1492	4.5332 ng
93) Cl6(151)		24.23t	360	1707m	5.2119 ng
94) Cl6(135)		24.33	360	1524m	5.1948 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.42	292	2246m	4.8941 ng
Corrected Values:				2246	4.8941 ng
97) Cl6(144)		24.46	360	436m	2.3832 ng
98) Cl6(149)		24.69	360	12398m	30.2430 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		25.07	326	2537m	5.2940 ng
104) Cl6(134)		25.17	360	767m	3.4935 ng
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.29	326	27298m	42.7876 ng
Corrected Values:				27298	42.7876 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.64	360	2475m	7.1763 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.89	360	19047m	42.5508 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.24	326	8318m	15.9315 ng
Corrected Values:				8318	15.9315 ng
119) Cl6(141)		26.28	360	1571m	6.1573 ng
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D.
123) Cl6(137)		26.50	360	888m	3.6328 ng
124) Cl6(130)		26.64	360	989m	3.4656 ng
125) Cl6(164)		26.69	360	1417m	3.8704 ng
126) Cl6(138)		26.82	360	12244m	27.6159 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9341.D MF0785.M Tue Mar 17 13:24:52 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9341.D

Vial: 24

Acq On : 12 Mar 2015 5:45 am

Operator: RR

Sample : L0316-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-79-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:20 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:17 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	
128) Cl6(163)		26.87	360	3543m	7.9303 ng	
Corrected Values:				3543	7.9303 ng	
129) Cl7(178)		0.00	394	0	N.D. d	
130) Cl6(158)		26.97	360	2485m	6.0032 ng	
131) Cl7(175)		0.00	394	0	N.D. d	
132) Cl7(187)		27.19	394	1526m	5.4106 ng	
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d	
134) Cl6(166)		0.00	360	0	N.D. d	
Corrected Values:				0	ng	
135) Cl7(183)		27.36	394	677m	3.5883 ng	
136) Cl5(126)		0.00	326	0	N.D. d	
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d	
138) Cl6(128)		27.67	360	3457m	10.9884 ng	
Corrected Values:				3457	10.9884 ng	
139) Cl7(185)		0.00	394	0	N.D. d	
140) Cl7(174)		27.81	394	747m	4.1213 ng	
141) Cl6(167)		27.91	360	1463m	4.9281 ng	
142) Cl8(202)		27.98	428	331	2.6129 ng	#
143) Cl7(177)		28.09	394	672	3.9657 ng	
144) Cl8(201)		0.00	428	0	N.D. d	
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d	
146) Cl7(171)		0.00	394	0	N.D. d	
Corrected Values:				0	ng	
147) Cl7(173)		0.00	394	0	N.D. d	
148) Cl8(197)		0.00	428	0	N.D. d	
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d	
150) Cl6(156)		28.52	360	2141m	6.4806 ng	
Corrected Values:				2141	6.4806 ng	
151) Cl7(172)		0.00	394	0	N.D. d	
152) Cl6(157)		0.00	360	0	N.D. d	
153) Cl7(180)		28.75	394	2194m	7.9235 ng	
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d	
155) Cl7(193)		0.00	394	0	N.D. d	
Corrected Values:				0	ng	
156) Cl8(200)		0.00	428	0	N.D. d	
157) Cl7(191)		0.00	394	0	N.D. d	
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d	
159) Cl7(170)		29.45	394	1306m	6.4053 ng	
Corrected Values:				1306	6.4053 ng	
160) Cl8(198)		0.00	428	0	N.D. d	
161) Cl8(199)		0.00	428	0	N.D. d	
162) Cl7(190)		0.00	394	0	N.D. d	
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d	
164) Cl6(169)		0.00	360	0	N.D. d	
Corrected Values:				0	ng	
165) Cl8(203)		0.00	428	0	N.D. d	
166) Cl9(208)		0.00	464	0	N.D. d	
167) Cl7(189)		0.00	394	0	N.D. d	
168) Cl9(207)		0.00	464	0	N.D. d	
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9341.D MF0785.M Tue Mar 17 13:24:52 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9341.D Vial: 24
 Acq On : 12 Mar 2015 5:45 am Operator: RR
 Sample : L0316-P(2) Inst : Inst. F
 Misc : S-14D-2014-35-79-10-20 5-315 15-0072 Multiplr: 1.00
 MS Integration Params: rteint.p

Quant Time: Mar 12 09:45:20 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 09:45:17 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D. d

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9341.D MF0785.M Tue Mar 17 13:24:52 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9342.D

Vial: 25

Acq On : 12 Mar 2015 6:33 am

Operator: RR

Sample : L0316MS-P(0)

Inst : Inst. F

Misc : Matrix Spike of S-14D-2014-35-79-10-20 5 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:20 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.11	326	53140m	100.0000	ng
78) Cl6(161)	25.73	360	45990m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	15.29t	255	3068m	0.0000	ng
27) Cl3(34)		15.29t	256	230577m	346.6329	ng
Spiked Amount	400.0000			Recovery	=	86.51%
Corrected Values:				230163	346.0204	ng
114) Cl6(152)		22.42	360	169253m	356.4046	ng
Spiked Amount	401.6000			Recovery	=	88.75%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		9.93	188	67657m	49.6274	ng
4) Cl1(3)		11.13	188	66971m	52.4489	ng
5) Cl2(4)		11.42	222	34767m	54.3999	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.55	222	8898m	9.2116	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.84	222	64009m	57.2839	ng
11) Cl3(19)		13.30	256	24489m	57.3589	ng
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.15	256	33133m	67.8212	ng
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		14.89	222	56775m	53.2112	ng
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		15.30tw	292	33273m	51.0814	ng
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	
30) Cl3(26)		0.00	256	0	N.D.	d
Corrected Values:				0	ng	
31) Cl4(50)		0.00	292	0	N.D.	
32) Cl3(25)		0.00	256	0	N.D.	d
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		16.29	256	61399m	87.8271	ng
Corrected Values:				61399	87.8271	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.41	256	60619m	84.8083	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9342.D MF0785.M Wed Mar 25 10:11:14 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9342.D

Vial: 25

Acq On : 12 Mar 2015 6:33 am

Operator: RR

Sample : L0316MS-P(0)

Inst : Inst. F

Misc : Matrix Spike of S-14D-2014-35-79-10-20 5 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:20 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.63	292	42907m	96.5637 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.84	292	41413m	94.5137 ng
46) Cl5(104)		18.03	326	31664m	58.6763 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.47	292	30834m	78.4158 ng
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		19.36	256	42964m	65.8521 ng
Corrected Values:				42964	65.8521 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		20.62	292	46196m	75.5181 ng
63) Cl4(70)		20.76	292	46494m	77.1673 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	20.99tw	289	2736	No Calib
67) Cl4(66)-S2	(0.650)	21.00tw	288	13995	No Calib
68) Cl4(66)		20.96	292	56630m	95.4747 ng
Corrected Values:				47057	79.8942 ng
69) Cl6(155)		21.01tw	360	32562m	65.6267 ng
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D.
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.86	326	36338m	87.2553 ng
79) Cl5(99)		22.12	326	34799m	74.1656 ng
80) Cl5(83)		22.52	326	23163m	69.3001 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		23.27	326	25967m	69.1867 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9342.D MF0785.M Wed Mar 25 10:11:15 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9342.D

Vial: 25

Acq On : 12 Mar 2015 6:33 am

Operator: RR

Sample : L0316MS-P(0)

Inst : Inst. F

Misc : Matrix Spike of S-14D-2014-35-79-10-20 5 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:20 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.78	326	52529m	92.0684 ng
90) Cl4(81)		23.89	292	38201m	62.6791 ng
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		24.22	360	22047m	63.7190 ng
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.42	292	37334m	62.1334 ng
Corrected Values:				37334	62.1334 ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.69	360	28925m	77.6523 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		25.06	326	34950m	65.6587 ng
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		25.25t	394	24337m	58.8400 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	25.25t	322	8618	No Calib
108) Cl5(118)		25.28	326	57890m	99.5364 ng
Corrected Values:				48583	84.0091 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.66	326	34851m	61.6020 ng
Corrected Values:				34851	61.6020 ng
115) Cl6(153)		25.89	360	33754m	83.8551 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.23	326	38884m	75.3662 ng
Corrected Values:				38884	75.3662 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.82	360	28532m	70.5916 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9342.D MF0785.M Wed Mar 25 10:11:15 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9342.D

Vial: 25

Acq On : 12 Mar 2015 6:33 am

Operator: RR

Sample : L0316MS-P(0)

Inst : Inst. F

Misc : Matrix Spike of S-14D-2014-35-79-10-20 5 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 09:45:20 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D.
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		26.96	360	30173m	61.9085 ng
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		27.18	394	19613m	61.4379 ng
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		27.36	394	21113m	68.9341 ng
136) Cl5(126)		27.52	326	32946m	73.2827 ng
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		27.67	360	22121m	70.4492 ng
Corrected Values:				22121	70.4492 ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		27.90	360	28190m	67.1657 ng
142) Cl8(202)		27.98	428	18342m	59.7430 ng
143) Cl7(177)		28.08	394	16526m	66.2030 ng
144) Cl8(201)		28.20	428	18493m	61.1000 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.51	360	29006m	71.8024 ng
Corrected Values:				29006	71.8024 ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		28.61	360	28139m	66.2351 ng
153) Cl7(180)		28.75	394	19056m	64.4277 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170) -S1	(0.309)	29.70tw	391	1486	No Calib
159) Cl7(170)		29.46	394	17314m	79.0787 ng
Corrected Values:				16855	77.1267 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169) -S2	(1.610)	29.69t	356	6061	No Calib
164) Cl6(169)		29.66	360	35032m	99.8034 ng
Corrected Values:				25274	73.8646 ng
165) Cl8(203)		29.69t	428	14966m	65.5765 ng
166) Cl9(208)		30.20	464	15546m	70.2345 ng
167) Cl7(189)		30.33	394	20651m	75.4676 ng
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9342.D MF0785.M Wed Mar 25 10:11:15 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9342.D Vial: 25
Acq On : 12 Mar 2015 6:33 am Operator: RR
Sample : L0316MS-P(0) Inst : Inst. F
Misc : Matrix Spike of S-14D-2014-35-79-10-20 5 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:37 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Thu Mar 12 09:45:20 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.40	428	12520m	62.3340 ng
Corrected Values:				12520	62.3340 ng
171) Cl8(194)		30.89	428	12732m	75.7514 ng
172) Cl8(205)		31.05	428	16336m	70.9315 ng
173) Cl9(206)		31.55	464	11214m	77.9678 ng
174) Cl10(209)		32.06	498	10422m	67.7813 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9342.D MF0785.M Wed Mar 25 10:11:15 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9343.D

Vial: 26

Acq On : 12 Mar 2015 7:21 am

Operator: RR

Sample : L0316MSD-P(0)

Inst : Inst. F

Misc : Matrix Spike Duplicate of S-14D-2014-35- Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:43 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.10	326	55133m	100.0000	ng
78) Cl6(161)	25.73t	360	48429m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	15.29t	255	3126m	0.0000	ng
27) Cl3(34)		15.29t	256	250005m	361.9979	ng
Spiked Amount	400.0000			Recovery	=	90.35%
Corrected Values:				249583	361.3967	ng
114) Cl6(152)		22.41	360	178431m	356.7914	ng
Spiked Amount	401.6000			Recovery	=	88.84%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		9.94	188	73682m	52.0823	ng
4) Cl1(3)		11.13	188	73086m	55.1218	ng
5) Cl2(4)		11.42	222	36711m	55.3593	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.84	222	67442m	58.1623	ng
11) Cl3(19)		13.30	256	26379m	59.5292	ng
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.15	256	33844m	66.7873	ng
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		14.89	222	62039m	55.9604	ng
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		15.30tw	292	35945m	53.1858	ng
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		0.00	256	0	N.D.	d
Corrected Values:				0	ng	
31) Cl4(50)		0.00	292	0	N.D.	
32) Cl3(25)		0.00	256	0	N.D.	d
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		16.30	256	62033m	85.5832	ng
Corrected Values:				62033	85.5832	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.41	256	61505m	82.9830	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9343.D MF0785.M Wed Mar 25 10:11:33 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9343.D

Vial: 26

Acq On : 12 Mar 2015 7:21 am

Operator: RR

Sample : L0316MSD-P(0)

Inst : Inst. F

Misc : Matrix Spike Duplicate of S-14D-2014-35- Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:43 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.63	292	42892m	93.1254 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.84	292	41494m	91.3584 ng
46) Cl5(104)		18.02	326	33075m	59.0676 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		18.47	292	31158m	76.4429 ng
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		19.36tw	256	45698m	67.4486 ng
Corrected Values:				45698	67.4486 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		20.62	292	47775m	75.2863 ng
63) Cl4(70)		20.76	292	47788m	76.4722 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	21.00t	288	14542	No Calib
68) Cl4(66)		20.96	292	57863m	94.0809 ng
Corrected Values:				48411	79.2477 ng
69) Cl6(155)		21.00t	360	34740m	67.4466 ng
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.86t	326	37124m	85.9743 ng
79) Cl5(99)		22.12	326	35406m	71.7340 ng
80) Cl5(83)		22.53	326	24039m	68.3258 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		23.27	326	27239m	68.9307 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9343.D MF0785.M Wed Mar 25 10:11:34 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9343.D

Vial: 26

Acq On : 12 Mar 2015 7:21 am

Operator: RR

Sample : L0316MSD-P(0)

Inst : Inst. F

Misc : Matrix Spike Duplicate of S-14D-2014-35- Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:43 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.78	326	53074m	88.4656 ng
90) Cl4(81)		23.89	292	40016m	62.3647 ng
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		24.23t	360	23129m	63.4859 ng
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.42	292	40090m	63.3086 ng
Corrected Values:				40090	63.3086 ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.69	360	28991m	74.0161 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		25.06	326	36837m	65.7160 ng
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		25.25t	394	25846m	59.3266 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	25.25t	322	9231	No Calib
108) Cl5(118)		25.28	326	60153m	98.2600 ng
Corrected Values:				50184	82.4603 ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.66	326	36405m	61.1297 ng
Corrected Values:				36405	61.1297 ng
115) Cl6(153)		25.88	360	34110m	80.5685 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.23	326	39623m	73.0459 ng
Corrected Values:				39623	73.0459 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.82	360	30741m	72.1749 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9343.D MF0785.M Wed Mar 25 10:11:34 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9343.D

Vial: 26

Acq On : 12 Mar 2015 7:21 am

Operator: RR

Sample : L0316MSD-P(0)

Inst : Inst. F

Misc : Matrix Spike Duplicate of S-14D-2014-35- Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:43 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D.
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		26.96	360	33324m	64.8378 ng
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		27.18	394	21195m	63.0005 ng
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		27.36t	394	22924m	71.0021 ng
136) Cl5(126)		27.52	326	35894m	75.6540 ng
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		27.67	360	23375m	70.6840 ng
Corrected Values:				23375	70.6840 ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		27.90	360	30383m	68.6528 ng
142) Cl8(202)		27.98	428	19797m	61.1847 ng
143) Cl7(177)		28.08	394	17734m	67.4093 ng
144) Cl8(201)		28.20t	428	19629m	61.5698 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.51	360	30723m	72.1984 ng
Corrected Values:				30723	72.1984 ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		28.61	360	30037m	67.0990 ng
153) Cl7(180)		28.74	394	20478m	65.6861 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170) -S1	(0.309)	29.69t	391	1228	No Calib
159) Cl7(170)		29.45	394	18683m	80.8941 ng
Corrected Values:				18304	79.3681 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169) -S2	(1.610)	29.69t	356	6550	No Calib
164) Cl6(169)		29.65	360	37470m	101.2446 ng
Corrected Values:				26924	74.6580 ng
165) Cl8(203)		29.69t	428	16129m	67.0428 ng
166) Cl9(208)		30.20	464	16794m	71.9357 ng
167) Cl7(189)		30.33	394	21911m	75.9862 ng
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9343.D MF0785.M Wed Mar 25 10:11:35 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9343.D Vial: 26
Acq On : 12 Mar 2015 7:21 am Operator: RR
Sample : L0316MSD-P(0) Inst : Inst. F
Misc : Matrix Spike Duplicate of S-14D-2014-35- Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:43 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Thu Mar 12 11:20:36 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.39	428	13527m	63.8981 ng
Corrected Values:				13527	63.8981 ng
171) Cl8(194)		30.89	428	13241m	74.8914 ng
172) Cl8(205)		31.04	428	18327m	75.2415 ng
173) Cl9(206)		31.54	464	12264m	80.7401 ng
174) Cl10(209)		32.05	498	11290m	69.6058 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9343.D MF0785.M Wed Mar 25 10:11:36 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9344.D

Vial: 27

Acq On : 12 Mar 2015 8:09 am

Operator: RR

Sample : L0357-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:46 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:41 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.18	326	69947m	95.0000	ng
78) Cl6(161)	25.88	360	40303m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.34	256	285997m	310.5930	ng
Spiked Amount	379.8670			Recovery	= 81.76%
Corrected Values:			285997	310.5930	ng
114) Cl6(152)	22.59	360	167177m	379.5962	ng
Spiked Amount	381.3865			Recovery	= 99.53%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154E	1678845m	724.7575	ng
3) Cl1(1)		0.00	188	0	N.D. d	
4) Cl1(3)		0.00	188	0	N.D. d	
5) Cl2(4)		11.43	222	102287m	115.0407	ng
6) Cl2(7)		12.32	222	15561m	13.5068	ng
7) Cl2(9)		12.28	222	31455m	19.7479	ng
8) Cl2(6)		12.56	222e	575614m	397.3548	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222E	788641m	529.4017	ng
11) Cl3(19)		13.33	256	44163m	74.4507	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	
14) Cl2(11)		0.00	222	0	N.D.	
Corrected Values:				0	ng	
15) Cl3(18)		14.18	256E	1061258m	1682.3927	ng
16) Cl3(17)		14.31	256E	476800m	705.0126	ng
17) Cl2(12)		14.42	222	24377m	19.5860	ng
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	
19) Cl2(13)		14.54tw	222e	466576m	361.6143	ng
Corrected Values:				466576	361.6143	ng
20) Cl3(27)		14.55tw	256	75601m	78.1433	ng
21) Cl3(24)		14.67	256	17018m	19.0909	ng
22) Cl3(16)		14.87	256E	236091m	460.2906	ng
23) Cl2(15)		14.93	222E	964925m	621.1294	ng
24) Cl3(32)		15.00	256e	363602m	379.5657	ng
25) Cl4(54)		0.00	292	0	N.D. d	
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D. d	
30) Cl3(26)		15.89	256E	1788056m	1614.5772	ng
Corrected Values:				1788056	1614.5772	ng
31) Cl4(50)		0.00	292	0	N.D.	
32) Cl3(25)		16.01	256E	942325m	920.1838	ng
33) Cl3(31)-S1 (0.135)		16.38t	255e	53193	No Calib	
34) Cl3(31)		16.36	256E	4042103m	2911.9200	ng
Corrected Values:				4034922	2907.9459	ng
35) Cl4(53)		16.38t	292e	141772m	217.9783	ng
36) Cl3(28)		16.48	256E	3654813m	2924.3864	ng
37) Cl3(33)		16.58	256E	1018093m	1039.9931	ng
38) Cl4(51)		16.65	292	56527m	82.8596	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9344.D MF0785.M Tue Mar 17 13:24:58 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9344.D

Vial: 27

Acq On : 12 Mar 2015 8:09 am

Operator: RR

Sample : L0357-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:46 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:41 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.98	292e	119200m	219.3863 ng
40) Cl3(22)		17.08	256E	1108660m	1107.4609 ng
41) Cl4(46)		17.25	292	34880m	71.7768 ng
42) Cl4(43)		17.65	292e	222701m	387.8987 ng
43) Cl4(52)		17.70	292E	2296026m	2659.4922 ng
44) Cl4(48)		17.87	292E	482025m	684.1952 ng
45) Cl4(49)		17.92	292E	2125581m	2463.6800 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.11	292E	811437m	1071.6615 ng
Corrected Values:				811437	1071.6615 ng
49) Cl4(75)		18.19	292	47799m	54.2754 ng
50) Cl4(44)		18.55	292E	1243842m	1581.0188 ng
51) Cl4(42)		18.76	292E	718356m	1067.7403 ng
52) Cl4(71)		18.99	292E	425273m	492.0348 ng
53) Cl4(41)		19.09	292	47955m	101.0220 ng
54) Cl4(64)		19.37	292E	1325108m	1249.2161 ng
55) Cl4(40)		19.45t	292	94888m	204.6525 ng
56) Cl3(37)-S1	(0.135)	19.45t	255e	95586	No Calib
57) Cl3(37)		19.46tw	256E	1011237m	981.0082 ng
Corrected Values:				998333	969.6766 ng
58) Cl5(100)		19.83	326	20992m	38.9630 ng
59) Cl4(67)		20.13	292e	237307m	279.5273 ng
60) Cl4(63)		20.55	292	177088m	221.2327 ng
61) Cl5(95)		20.66	326E	1308987m	1857.2284 ng
62) Cl4(74)		20.76	292E	1622462m	1380.3609 ng
63) Cl4(70)		20.90	292E	2864389m	2419.1601 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		21.07t	326E	483152m	778.4704 ng
Corrected Values:				483152	778.4704 ng
66) Cl4(66)-S1	(0.174)	21.07t	289E	110518	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.11	292E	2398836m	2048.7609 ng
Corrected Values:				2379606	2036.0937 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		21.38	292	70895m	90.4180 ng
71) Cl5(92)		21.68T	326E	434901m	674.2860 ng
72) Cl5(84)		21.68T	326E	374488m	575.8909 ng
73) Cl4(56)-S1	(0.174)	21.68t	289E	267504	No Calib
74) Cl4(56)		21.74	292E	1006660m	1094.1802 ng
Corrected Values:				960114	1047.7359 ng
75) Cl4(60)-S1	(0.174)	22.01t	289E	350095	No Calib
76) Cl4(60)		22.01t	292E	552970m	616.5363 ng
Corrected Values:				492053	555.0661 ng
77) Cl5(101)		22.01t	326E	2639972m	2672.7470 ng
79) Cl5(99)		22.31	326E	1680159m	2410.0392 ng
80) Cl5(83)		22.68	326E	228314m	618.3052 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.95	326E	821405m	1899.0297 ng
83) Cl5(87)		23.41	326E	700776m	1245.7446 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9344.D MF0785.M Tue Mar 17 13:24:58 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9344.D

Vial: 27

Acq On : 12 Mar 2015 8:09 am

Operator: RR

Sample : L0357-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:46 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:41 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.48	360e	188780m	422.8623 ng
85) Cl5(115)		23.62	326	74078m	128.2560 ng
86) Cl6(154)		23.70	360	29035m	72.8456 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.67	326E	382718m	Below Cal
Corrected Values:				382718	-95.0000 Cal
89) Cl5(110)		23.93	326E	3716918m	3580.4620 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.36t	323E	44590	No Calib
92) Cl5(82)		24.36t	326e	183121m	508.5140 ng
Corrected Values:				173311	483.7587 ng
93) Cl6(151)		24.36t	360E	199389m	557.9362 ng
94) Cl6(135)		24.46	360e	153754m	457.0401 ng
95) Cl4(77)-S2	(0.650)	24.59tw	288e	78233	No Calib
96) Cl4(77)		24.58tw	292e	333070m	524.7617 ng
Corrected Values:				282219	452.2324 ng
97) Cl6(144)		24.60tw	360	58495m	166.9917 ng
98) Cl6(149)		24.82	360E	1329123m	2427.3075 ng
99) Cl6(139)		24.95	360	35631m	102.0384 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		25.00	326	126442m	217.4336 ng
Corrected Values:				126442	217.4336 ng
102) Cl6(140)		25.04	360	5680m	17.5239 ng
103) Cl5(123)		25.21	326E	339400m	565.2181 ng
104) Cl6(134)		25.28	360	78439m	277.2656 ng
105) Cl7(188)		25.38	394	1047m	4.2276 ng
106) Cl5(118)-S1	(0.220)	25.48	323	21350	No Calib
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.43tw	326E	3629250m	4271.9405 ng
Corrected Values:				3624553	4267.8878 ng
109) Cl6(131)		25.44tw	360	30397m	96.4404 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.77	360E	247924m	581.2045 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.79	326	76303m	140.6114 ng
Corrected Values:				76303	140.6114 ng
115) Cl6(153)		26.02	360E	2189028m	3187.4587 ng
116) Cl7(179)		26.22	394	53845m	151.5302 ng
117) Cl5(105)-S1	(0.220)	26.40t	323E	38961	No Calib
118) Cl5(105)		26.35	326E	1137999m	1540.0857 ng
Corrected Values:				1129428	1531.5326 ng
119) Cl6(141)		26.40t	360E	211508m	610.8030 ng
120) Cl7(176)		26.48	394	17469m	50.1281 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.61	360e	110578m	328.1430 ng
124) Cl6(130)		26.74	360e	103134m	358.5861 ng
125) Cl6(164)		26.81	360e	162240m	372.8432 ng
126) Cl6(138)		26.94	360E	1538122m	2488.9254 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9344.D MF0785.M Tue Mar 17 13:24:58 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9344.D

Vial: 27

Acq On : 12 Mar 2015 8:09 am

Operator: RR

Sample : L0357-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:46 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:41 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.97	360E	534017m	1084.2132 ng
Corrected Values:				534017	1084.2132 ng
129) Cl7(178)		27.03	394	20647m	77.7080 ng
130) Cl6(158)		27.08	360E	289856m	610.2162 ng
131) Cl7(175)		27.22	394	9369m	37.2087 ng
132) Cl7(187)		27.30	394e	140066m	439.4742 ng
133) Cl6(166) -S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		27.48t	360	15197m	38.2785 ng
Corrected Values:				15197	38.2785 ng
135) Cl7(183)		27.48t	394	76909m	259.2598 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.78	360E	350092m	926.6562 ng
Corrected Values:				350092	926.6562 ng
139) Cl7(185)		27.81	394	11032m	45.2043 ng
140) Cl7(174)		27.91	394e	95182m	354.6305 ng
141) Cl6(167)		28.02	360e	131038m	296.6704 ng
142) Cl8(202)		28.08	428	8912m	32.2715 ng
143) Cl7(177)		28.18	394	61137m	246.6486 ng
144) Cl8(201)		28.30tw	428	4930m	18.8138 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.31tw	394	42755m	166.5142 ng
Corrected Values:				42755	166.5142 ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		28.54	428	1346m	6.3872 ng
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.65	360E	289524m	599.4852 ng
Corrected Values:				289524	599.4852 ng
151) Cl7(172)		28.68	394	22836m	94.1740 ng
152) Cl6(157)		28.73	360	73466m	179.8717 ng
153) Cl7(180)		28.86	394E	278470m	767.4460 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		28.90	394	9020m	29.4920 ng
Corrected Values:				9020	29.4920 ng
156) Cl8(200)		28.93	428	4048m	15.9143 ng
157) Cl7(191)		29.04	394	10699m	32.9805 ng
158) Cl7(170) -S1	(0.309)	29.61t	391	5774	No Calib
159) Cl7(170)		29.56	394E	143125m	511.8317 ng
Corrected Values:				141341	506.9827 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.61t	428	28819m	164.9017 ng
162) Cl7(190)		29.68	394	34639m	106.0822 ng
163) Cl6(169) -S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.79	428	34042m	154.0818 ng
166) Cl9(208)		30.30	464	6209m	31.8778 ng
167) Cl7(189)		30.44	394	8463m	35.8365 ng
168) Cl9(207)		30.49	464	2248m	11.5318 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9344.D MF0785.M Tue Mar 17 13:24:58 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9344.D Vial: 27
 Acq On : 12 Mar 2015 8:09 am Operator: RR
 Sample : L0357-P(2) Inst : Inst. F
 Misc : S-14D-2014-35-70-20-30 5-315 15-0072 Multiplr: 1.00
 MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:46 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Thu Mar 12 11:20:41 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.51	428	9772m	52.9612 ng
Corrected Values:				9772	52.9612 ng
171) Cl8(194)		30.99	428	28113m	164.5391 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.65	464	13724m	100.6120 ng
174) Cl10(209)		32.15	498	5267m	38.3166 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9344.D MF0785.M Tue Mar 17 13:24:58 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0785\F9345.D

Vial: 28

Acq On : 12 Mar 2015 8:57 am

Operator: RR

Sample : L0403-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:50 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:45 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.14	326	61436m	95.0000	ng
78) Cl6(161)	25.81	360	48267m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.31t	256	267355m	330.2511	ng
Spiked Amount	379.8670			Recovery	= 86.94%
Corrected Values:			267355	330.2511	ng
114) Cl6(152)	22.62	360	165263m	315.9372	ng
Spiked Amount	381.3865			Recovery	= 82.84%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154e	733594m	336.5907	ng
3) Cl1(1)		9.94	188	18200m	11.2041	ng
4) Cl1(3)		11.14	188	13056m	9.0515	ng
5) Cl2(4)		11.43	222	44044m	56.5980	ng
6) Cl2(7)		12.32	222	6630m	6.8801	ng
7) Cl2(9)		12.28	222	11783m	9.0609	ng
8) Cl2(6)		12.56	222	183194m	142.5688	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.85	222	262087m	193.0852	ng
11) Cl3(19)		13.32	256	16218m	31.4689	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D. d	
14) Cl2(11)		0.00	222	0	N.D. d	
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256E	320511m	544.3109	ng
16) Cl3(17)		14.29	256	135598m	225.7435	ng
17) Cl2(12)		14.48	222	35601m	31.5241	ng
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D. d	
19) Cl2(13)		14.54t	222	164484m	143.3518	ng
Corrected Values:				164484	143.3518	ng
20) Cl3(27)		14.54t	256	50977m	60.1266	ng
21) Cl3(24)		0.00	256	0	N.D. d	
22) Cl3(16)		14.87	256	36897m	83.7418	ng
23) Cl2(15)		14.92	222	324005m	242.1676	ng
24) Cl3(32)		15.00	256	127712m	150.0954	ng
25) Cl4(54)		15.31t	292	2299	3.3966	ng #
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D. d	
30) Cl3(26)		15.86	256E	814229m	877.7830	ng
Corrected Values:				814229	877.7830	ng
31) Cl4(50)		15.91	292	1511	3.8043	ng
32) Cl3(25)		15.98	256E	446137	515.5777	ng
33) Cl3(31)-S1 (0.135)		16.36t	255	26549	No Calib	
34) Cl3(31)		16.33	256E	1296103m	1280.0391	ng
Corrected Values:				1292519	1276.9881	ng
35) Cl4(53)		16.36t	292	79577m	138.8839	ng
36) Cl3(28)		16.45	256E	1199607m	1235.4906	ng
37) Cl3(33)		16.55	256	176502m	218.5913	ng
38) Cl4(51)		16.62	292	34002m	56.9783	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9345.D MF0785.M Tue Mar 17 13:25:00 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9345.D

Vial: 28

Acq On : 12 Mar 2015 8:57 am

Operator: RR

Sample : L0403-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:50 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:45 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.97	292	26290	56.9429 ng
40) Cl3(22)		17.06	256e	208303m	259.1891 ng
41) Cl4(46)		17.22	292	13921	33.2354 ng
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.68	292E	974693m	1475.6550 ng
44) Cl4(48)		17.83	292	93666m	165.7372 ng
45) Cl4(49)		17.88	292E	898699m	1368.5003 ng
46) Cl5(104)		18.04	326	485	2.0460 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.07	292E	354304m	541.5494 ng
Corrected Values:				354304	541.5494 ng
49) Cl4(75)		18.15	292	20991m	27.9655 ng
50) Cl4(44)		18.52	292E	334839m	601.8078 ng
51) Cl4(42)		18.73	292e	202890m	392.0995 ng
52) Cl4(71)		18.95	292e	186499m	255.9681 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.34	292e	370507m	467.4094 ng
55) Cl4(40)		19.40tw	292	25212m	62.7078 ng
56) Cl3(37)-S1	(0.135)	19.41tw	255	18074	No Calib
57) Cl3(37)		19.42tw	256e	256790	306.7627 ng
Corrected Values:				254350	303.9625 ng
58) Cl5(100)		19.79	326	14132m	30.1636 ng
59) Cl4(67)		20.11	292	92023m	131.4288 ng
60) Cl4(63)		20.53	292	39362m	60.9011 ng
61) Cl5(95)		20.65tw	326E	402562m	793.9155 ng
62) Cl4(74)		20.64tw	292	35358m	48.3709 ng
63) Cl4(70)		20.76	292E	429379m	533.6612 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.92	326	13095m	28.1641 ng
Corrected Values:				13095	28.1641 ng
66) Cl4(66)-S1	(0.174)	21.08	289e	45767	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.16	292E	602776m	726.5781 ng
Corrected Values:				594813	718.0956 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		21.43	292	17269m	26.9722 ng
71) Cl5(92)		21.66T	326e	143974m	281.3017 ng
72) Cl5(84)		21.66T	326	103615m	247.1675 ng
73) Cl4(56)-S1	(0.174)	21.66t	289e	78973	No Calib
74) Cl4(56)		21.72	292e	214856m	286.6926 ng
Corrected Values:				201115	268.9208 ng
75) Cl4(60)-S1	(0.174)	21.99t	289E	100613	No Calib
76) Cl4(60)		21.99t	292	112665m	157.5705 ng
Corrected Values:				95158	133.9993 ng
77) Cl5(101)		21.99t	326E	663935m	1030.0384 ng
79) Cl5(99)		22.32	326E	563915m	890.3715 ng
80) Cl5(83)		22.72	326e	102331m	258.7218 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.92	326e	217897m	468.7308 ng
83) Cl5(87)		23.36	326	107586m	237.3318 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9345.D MF0785.M Tue Mar 17 13:25:00 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9345.D

Vial: 28

Acq On : 12 Mar 2015 8:57 am

Operator: RR

Sample : L0403-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:50 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:45 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.43	360	64860m	125.0619 ng
85) Cl5(115)		23.54	326	6687m	11.5625 ng
86) Cl6(154)		23.64	360	18748m	39.9825 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.61	326	84505m	182.3603 ng
Corrected Values:				84505	182.3603 ng
89) Cl5(110)		23.88	326E	1061698m	1262.3308 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.30t	323	11933	No Calib
92) Cl5(82)		24.30t	326	30094m	77.1881 ng
Corrected Values:				27469	70.6256 ng
93) Cl6(151)		24.30t	360	56409m	143.8065 ng
94) Cl6(135)		24.39	360	49791m	128.2162 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.53tw	292	88265m	128.6941 ng
Corrected Values:				88265	128.6941 ng
97) Cl6(144)		24.54tw	360	12088m	30.1073 ng
98) Cl6(149)		24.77	360E	432853m	870.7743 ng
99) Cl6(139)		24.90	360	8475m	21.6175 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.96	326	29353m	44.5167 ng
Corrected Values:				29353	44.5167 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.18	326	86190m	140.6953 ng
104) Cl6(134)		25.24	360	23039m	70.9897 ng
105) Cl7(188)		25.35	394	1058m	3.8102 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.38	326E	901756m	1201.8179 ng
Corrected Values:				901756	1201.8179 ng
109) Cl6(131)		25.44	360	13382m	36.6050 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.71	360	81784m	181.3248 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.73	326	12420m	21.2032 ng
Corrected Values:				12420	21.2032 ng
115) Cl6(153)		25.96	360E	619639m	1087.8277 ng
116) Cl7(179)		26.17	394	17022m	41.5035 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.30	326e	198236m	314.3313 ng
Corrected Values:				198236	314.3313 ng
119) Cl6(141)		26.34	360	30544m	82.9266 ng
120) Cl7(176)		26.43	394	3668m	9.8197 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.55	360	22254m	60.7901 ng
124) Cl6(130)		26.69	360	23109m	62.5603 ng
125) Cl6(164)		26.75	360	42489m	87.1499 ng
126) Cl6(138)		26.88	360E	271361m	534.5958 ng
127) Cl6(163)-S1	(0.265)	26.97tw	357	2445	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9345.D MF0785.M Tue Mar 17 13:25:01 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9345.D

Vial: 28

Acq On : 12 Mar 2015 8:57 am

Operator: RR

Sample : L0403-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:50 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 12 11:20:45 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.93	360e	158927m	321.9867 ng
Corrected Values:				158279	320.7742 ng
129) Cl7(178)		26.98tw	394	7026m	22.8739 ng
130) Cl6(158)		27.03	360	61193m	111.8279 ng
131) Cl7(175)		27.18	394	2293m	8.0946 ng
132) Cl7(187)		27.24	394	49589m	137.1118 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		27.43	394	18695m	55.5946 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.74	360	68175m	186.7961 ng
Corrected Values:				68175	186.7961 ng
139) Cl7(185)		27.76	394	1499m	6.1952 ng
140) Cl7(174)		27.86	394	18327m	61.4971 ng
141) Cl6(167)		27.97	360	38873m	82.5134 ng
142) Cl8(202)		28.03	428	3253m	11.0216 ng
143) Cl7(177)		28.13	394	14709m	53.7263 ng
144) Cl8(201)		28.24	428	1293m	5.2903 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		28.26	394	9612m	33.3479 ng
Corrected Values:				9612	33.3479 ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.63	360	59705m	128.2716 ng
Corrected Values:				59705	128.2716 ng
151) Cl7(172)		28.66	394	5619m	21.2202 ng
152) Cl6(157)		28.72	360	18512m	40.4898 ng
153) Cl7(180)		28.83	394	66985m	191.2153 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		28.86	394	3000m	9.3933 ng
Corrected Values:				3000	9.3933 ng
156) Cl8(200)		28.90	428	1286m	5.5342 ng
157) Cl7(191)		28.98	394	2554m	8.0970 ng
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		29.51	394	31570m	124.6673 ng
Corrected Values:				31570	124.6673 ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		29.56	428	7420m	37.7689 ng
162) Cl7(190)		29.63	394	10035m	27.8660 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		29.73	360	7381m	21.9185 ng
Corrected Values:				7381	21.9185 ng
165) Cl8(203)		29.75	428	9028m	36.7657 ng
166) Cl9(208)		30.24	464	1906m	9.2894 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9345.D MF0785.M Tue Mar 17 13:25:01 2015 040221CFS

Data File : G:\F\DATA\SF0785\F9345.D Vial: 28
Acq On : 12 Mar 2015 8:57 am Operator: RR
Sample : L0403-P(2) Inst : Inst. F
Misc : S-14D-2014-35-68-00-10 5-315 15-0072 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Mar 12 11:20:50 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Thu Mar 12 11:20:45 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.45	428	2776m	13.6795 ng
Corrected Values:				2776	13.6795 ng
171) Cl8(194)		30.94	428	7414m	41.8543 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.61	464	3948m	26.6424 ng
174) Cl10(209)		32.10	498	1440m	9.7235 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9345.D MF0785.M Tue Mar 17 13:25:01 2015 040221CFS

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Data File : G:\F\DATA\SF0786\F9358.D

Vial: 4

Acq On : 13 Mar 2015 1:26 pm

Operator: LMG

Sample : L0406-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:29 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:22 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.14	326	62840m	95.0000	ng
78) Cl6(161)	25.79	360	49905m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.31	256	285125m	344.1022	ng
Spiked Amount	379.8670			Recovery	= 90.58%
Corrected Values:			285125	344.1022	ng
114) Cl6(152)	22.49	360	193139m	355.2853	ng
Spiked Amount	381.3865			Recovery	= 93.16%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	402130m	175.5778	ng
3) Cl1(1)		9.94	188	19464m	11.6996	ng
4) Cl1(3)		11.15	188	10992m	7.5862	ng
5) Cl2(4)		11.43	222	42695m	53.6558	ng
6) Cl2(7)		12.31	222	6959m	7.0434	ng
7) Cl2(9)		12.28	222	10854m	8.2699	ng
8) Cl2(6)		12.56	222	203270m	154.6858	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222	286043m	206.2715	ng
11) Cl3(19)		13.32	256	16411m	31.1385	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D. d	
14) Cl2(11)		0.00	222	0	N.D. d	
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256E	377965m	630.2385	ng
16) Cl3(17)		14.29	256e	186419m	303.7733	ng
17) Cl2(12)		0.00	222	0	N.D. d	
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D. d	
19) Cl2(13)		14.53t	222	191548m	163.2597	ng
Corrected Values:				191548	163.2597	ng
20) Cl3(27)		14.53t	256	50920m	58.7353	ng
21) Cl3(24)		0.00	256	0	N.D. d	
22) Cl3(16)		14.85	256	56222m	124.2914	ng
23) Cl2(15)		14.90	222e	411124m	299.3549	ng
24) Cl3(32)		14.98	256	144472m	166.0732	ng
25) Cl4(54)		0.00	292	0	N.D. d	
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D. d	
30) Cl3(26)		15.86	256E	809257m	854.2730	ng
Corrected Values:				809257	854.2730	ng
31) Cl4(50)		0.00	292	0	N.D. d	
32) Cl3(25)		15.98	256E	468699m	528.8538	ng
33) Cl3(31)-S1 (0.135)		16.36t	255	26294	No Calib	
34) Cl3(31)		16.32	256E	1479681m	1406.4141	ng
Corrected Values:				1476131	1403.5378	ng
35) Cl4(53)		16.36t	292	75028m	128.0112	ng
36) Cl3(28)		16.44	256E	1458990m	1445.4854	ng
37) Cl3(33)		16.55	256e	287147m	343.7661	ng
38) Cl4(51)		16.63	292	32251m	52.9063	ng

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9358.D MF0785.M Tue Mar 17 13:30:41 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9358.D

Vial: 4

Acq On : 13 Mar 2015 1:26 pm

Operator: LMG

Sample : L0406-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:29 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:22 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.96	292	43420	91.0433 ng
40) Cl3(22)		17.04	256e	339667m	406.0377 ng
41) Cl4(46)		17.21	292	19311m	44.7043 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.67	292E	1111661m	1616.8435 ng
44) Cl4(48)		17.82	292	108683m	187.1741 ng
45) Cl4(49)		17.88	292E	998084m	1465.8111 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.07	292E	405589m	604.8690 ng
Corrected Values:				405589	604.8690 ng
49) Cl4(75)		18.16	292	23245	30.1337 ng
50) Cl4(44)		18.52	292E	430743m	733.0149 ng
51) Cl4(42)		18.72	292E	266444m	492.8528 ng
52) Cl4(71)		18.94	292e	191222m	256.5583 ng
53) Cl4(41)		19.04	292	6019	15.3833 ng
54) Cl4(64)		19.33	292E	486299m	584.3670 ng
55) Cl4(40)		19.39	292	32075m	77.6869 ng
56) Cl3(37)-S1	(0.135)	19.41t	255	30158	No Calib
57) Cl3(37)		19.41t	256e	355585	409.8222 ng
Corrected Values:				351514	405.3554 ng
58) Cl5(100)		19.77	326	15442m	32.1396 ng
59) Cl4(67)		20.07	292	106780	147.9418 ng
60) Cl4(63)		20.48	292	52461	78.3059 ng
61) Cl5(95)		20.61	326E	496842	931.3119 ng
62) Cl4(74)		20.69	292e	353987	416.6370 ng
63) Cl4(70)		20.83	292E	650810	763.1759 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.99tw	326e	237764	448.6905 ng
Corrected Values:				237764	448.6905 ng
66) Cl4(66)-S1	(0.174)	20.98tw	289e	54796	No Calib
67) Cl4(66)-S2	(0.650)	20.96	288	6297	No Calib
68) Cl4(66)		21.02	292E	852356	962.9402 ng
Corrected Values:				838728	949.7316 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		21.32	292	16565	25.4217 ng #
71) Cl5(92)		21.62T	326e	159912m	303.5589 ng
72) Cl5(84)		21.62T	326e	130844m	291.0536 ng
73) Cl4(56)-S1	(0.174)	21.62t	289e	102319	No Calib
74) Cl4(56)		21.68	292e	326984	420.4930 ng
Corrected Values:				309180	398.4868 ng
75) Cl4(60)-S1	(0.174)	21.92tw	289E	127158	No Calib
76) Cl4(60)		21.94tw	292e	181692m	243.2150 ng
Corrected Values:				159567	215.0099 ng
77) Cl5(101)		21.93tw	326E	987111m	1391.1786 ng
79) Cl5(99)		22.21	326E	765651m	1116.2952 ng
80) Cl5(83)		22.58	326e	120771m	292.0992 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.87	326E	292604m	602.0510 ng
83) Cl5(87)		23.33	326e	157484m	322.6625 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9358.D MF0785.M Tue Mar 17 13:30:41 2015

040221CFS

Page 2

Data File : G:\F\DATA\SF0786\F9358.D

Vial: 4

Acq On : 13 Mar 2015 1:26 pm

Operator: LMG

Sample : L0406-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:29 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:22 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.41	360	75778m	141.0548 ng
85) Cl5(115)		23.52	326	8756m	14.2993 ng
86) Cl6(154)		23.61	360	17897m	37.0332 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.59	326e	112660m	243.5588 ng
Corrected Values:				112660	243.5588 ng
89) Cl5(110)		23.85	326E	1365222m	1497.2821 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.29t	323	15296	No Calib
92) Cl5(82)		24.29t	326	45386m	111.3860 ng
Corrected Values:				42021	103.3681 ng
93) Cl6(151)		24.29t	360	70666m	173.0100 ng
94) Cl6(135)		24.39	360	61463m	152.4842 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.49	292	117983m	164.4626 ng
Corrected Values:				117983	164.4626 ng
97) Cl6(144)		24.52	360	16586m	39.4917 ng
98) Cl6(149)		24.75	360E	505270m	964.5061 ng
99) Cl6(139)		24.87	360	11508m	27.9635 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.92	326	39745m	57.6724 ng
Corrected Values:				39745	57.6724 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.13	326	121856m	188.4710 ng
104) Cl6(134)		25.21	360	30062m	89.0378 ng
105) Cl7(188)		25.31	394	682m	2.9614 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.35	326E	1224370m	1521.5418 ng
Corrected Values:				1224370	1521.5418 ng
109) Cl6(131)		25.38	360	7933m	21.6345 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.69	360	100046m	212.1999 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.72	326	18864m	30.2692 ng
Corrected Values:				18864	30.2692 ng
115) Cl6(153)		25.94	360E	763762m	1253.0241 ng
116) Cl7(179)		26.16	394	19476m	45.8040 ng
117) Cl5(105)-S1	(0.220)	26.33t	323	9070	No Calib
118) Cl5(105)		26.29	326e	278127m	412.7995 ng
Corrected Values:				276132	410.1861 ng
119) Cl6(141)		26.33t	360	47748m	123.3897 ng
120) Cl7(176)		26.42	394	4888m	12.3032 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.54	360	30875m	80.6439 ng
124) Cl6(130)		26.68	360	32212m	84.5068 ng
125) Cl6(164)		26.74	360	59557m	117.0662 ng
126) Cl6(138)		26.87	360E	376284m	691.3830 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9358.D MF0785.M Tue Mar 17 13:30:42 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9358.D

Vial: 4

Acq On : 13 Mar 2015 1:26 pm

Operator: LMG

Sample : L0406-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:29 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:22 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.92	360e	159978m	314.1157 ng
Corrected Values:				159978	314.1157 ng
129) Cl7(178)		26.97	394	7909m	24.8112 ng
130) Cl6(158)		27.02	360	84707m	148.8734 ng
131) Cl7(175)		27.16	394	2242m	7.6822 ng
132) Cl7(187)		27.23	394	54375m	145.1485 ng
133) Cl6(166)-S1	(0.265)	27.40tw	357	2264	No Calib
134) Cl6(166)		27.41t	360	4671m	10.4567 ng
Corrected Values:				4071	9.2651 ng
135) Cl7(183)		27.41t	394	22536m	64.4548 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	27.86t	357	5073	No Calib
138) Cl6(128)		27.71	360e	98390m	254.8035 ng
Corrected Values:				97046	251.5883 ng
139) Cl7(185)		27.75	394	2329m	8.7379 ng
140) Cl7(174)		27.86t	394	23155m	74.5917 ng
141) Cl6(167)		27.95	360	48911m	99.2178 ng
142) Cl8(202)		28.02	428	3258m	10.7292 ng
143) Cl7(177)		28.12	394	18448m	64.6205 ng
144) Cl8(201)		28.25t	428	1727m	6.3993 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.25t	394	11964m	39.8736 ng
Corrected Values:				11964	39.8736 ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		28.46	428	437m	2.7293 ng
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.57	360	77786m	158.8367 ng
Corrected Values:				77786	158.8367 ng
151) Cl7(172)		28.60	394	6220m	22.5827 ng
152) Cl6(157)		28.66	360	21986m	46.1046 ng
153) Cl7(180)		28.79	394	78080m	213.4810 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.84	394	4211m	12.1697 ng
Corrected Values:				4211	12.1697 ng
156) Cl8(200)		28.87	428	977m	4.5391 ng
157) Cl7(191)		28.96	394	2828m	8.5402 ng
158) Cl7(170)-S1	(0.309)	29.55t	391	1827	No Calib
159) Cl7(170)		29.50	394	37705m	141.8922 ng
Corrected Values:				37140	139.9915 ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		29.55t	428	8049m	39.5479 ng
162) Cl7(190)		29.61	394	10148m	27.3027 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		29.73t	360	11696	32.0790 ng
Corrected Values:				11696	32.0790 ng
165) Cl8(203)		29.73t	428	9529m	37.4920 ng
166) Cl9(208)		30.23	464	2032m	9.5356 ng
167) Cl7(189)		30.38	394	3738m	14.3474 ng
168) Cl9(207)		30.43tw	464	706m	4.6750 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9358.D MF0785.M Tue Mar 17 13:30:42 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9358.D Vial: 4
Acq On : 13 Mar 2015 1:26 pm Operator: LMG
Sample : L0406-P(2) Inst : Inst. F
Misc : S-14D-2014-35-68-00-10-REP 5-315 15-0072 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:29 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Sun Mar 15 08:52:22 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.44tw	428	2795m	13.3564 ng
Corrected Values:				2795	13.3564 ng
171) Cl8(194)		30.93	428	7748m	42.2688 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.59	464	3758m	24.6544 ng
174) Cl10(209)		32.09	498	1173m	7.8850 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9358.D MF0785.M Tue Mar 17 13:30:42 2015 040221CFS

Page 5

Data File : G:\F\DATA\SF0786\F9359.D

Vial: 5

Acq On : 13 Mar 2015 2:14 pm

Operator: LMG

Sample : L0406-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:33 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:28 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.12	326	59146m	95.0000	ng
78) Cl6(161)	25.75	360	48647m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)	0.00	256	0d	0.0000	ng
Spiked Amount 18.9997				Recovery =	0.00%
Corrected Values:			0	0.0000	ng
114) Cl6(152)	0.00	360	0d	0.0000	ng
Spiked Amount 19.0757				Recovery =	0.00%

Target Compounds (Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl	0.00	154	0	N.D.	d
3) Cl1(1)	0.00	188	0	N.D.	d
4) Cl1(3)	0.00	188	0	N.D.	d
5) Cl2(4)	0.00	222	0	N.D.	d
6) Cl2(7)	0.00	222	0	N.D.	
7) Cl2(9)	0.00	222	0	N.D.	
8) Cl2(6)	0.00	222	0	N.D.	d
9) Cl2(5)	0.00	222	0	N.D.	
10) Cl2(8)	0.00	222	0	N.D.	d
11) Cl3(19)	0.00	256	0	N.D.	d
12) Cl3(30)	0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)	0.00	221	0	N.D.	d
14) Cl2(11)	0.00	222	0	N.D.	d
Corrected Values:			0	ng	
15) Cl3(18)	14.16	256	18904m	33.5236	ng
16) Cl3(17)	14.28	256	10282m	18.5619	ng
17) Cl2(12)	0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)	0.00	221	0	N.D.	d
19) Cl2(13)	0.00	222	0	N.D.	d
Corrected Values:			0	ng	
20) Cl3(27)	0.00	256	0	N.D.	d
21) Cl3(24)	0.00	256	0	N.D.	d
22) Cl3(16)	0.00	256	0	N.D.	d
23) Cl2(15)	14.89	222	20479m	17.3250	ng
24) Cl3(32)	0.00	256	0	N.D.	d
25) Cl4(54)	0.00	292	0	N.D.	d
28) Cl3(29)	0.00	256	0	N.D.	
29) Cl3(26)-S1 (0.135)	0.00	255	0	N.D.	d
30) Cl3(26)	15.84	256	42976m	52.1850	ng
Corrected Values:			42976	52.1850	ng
31) Cl4(50)	0.00	292	0	N.D.	d
32) Cl3(25)	15.96	256	26295m	34.0800	ng
33) Cl3(31)-S1 (0.135)	16.33	255	1584	No Calib	
34) Cl3(31)	16.31	256	74893m	91.2294	ng
Corrected Values:			74679	90.9753	ng
35) Cl4(53)	0.00	292	0	N.D.	d
36) Cl3(28)	16.43	256	80488m	95.7119	ng
37) Cl3(33)	16.53	256	15547m	21.5129	ng
38) Cl4(51)	0.00	292	0	N.D.	d

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9359.D MF0785.M Tue Mar 17 13:30:44 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9359.D

Vial: 5

Acq On : 13 Mar 2015 2:14 pm

Operator: LMG

Sample : L0406-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:33 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:28 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		17.02	256	16576m	23.4030 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.64	292	58245m	111.3312 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.86	292	55708m	107.9710 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.04	292	21848m	35.6896 ng
Corrected Values:				21848	35.6896 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.49	292	24349m	53.4583 ng
51) Cl4(42)		18.70	292	14365m	32.0935 ng
52) Cl4(71)		18.91	292	10074m	16.2662 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.30	292	25953m	38.2394 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	19.37tw	255	1648	No Calib
57) Cl3(37)		19.38tw	256	17736m	24.4977 ng
Corrected Values:				17514	24.2155 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.56	326	27442m	67.0338 ng
62) Cl4(74)		20.64	292	28259m	40.5301 ng
63) Cl4(70)		20.78	292	45122m	64.2255 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.95t	326	12723m	28.4113 ng
Corrected Values:				12723	28.4113 ng
66) Cl4(66)-S1	(0.174)	20.95t	289	3030	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.97	292	47105m	68.5454 ng
Corrected Values:				46578	67.8088 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.57tw	326	9234m	21.6083 ng
72) Cl5(84)		21.59tw	326	6964m	23.0480 ng
73) Cl4(56)-S1	(0.174)	21.58tw	289	4892	No Calib
74) Cl4(56)		21.62	292	16785m	25.8258 ng
Corrected Values:				15934	24.6299 ng
75) Cl4(60)-S1	(0.174)	21.87t	289	6615	No Calib
76) Cl4(60)		21.88tw	292	8685m	14.6954 ng
Corrected Values:				7534	12.9982 ng
77) Cl5(101)		21.87t	326	50378m	102.3233 ng
79) Cl5(99)		22.15	326	39368m	75.1996 ng
80) Cl5(83)		22.53	326	5703m	15.8494 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.83	326	14630m	33.8627 ng
83) Cl5(87)		23.29	326	8018m	19.8566 ng

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9359.D MF0785.M Tue Mar 17 13:30:44 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9359.D

Vial: 5

Acq On : 13 Mar 2015 2:14 pm

Operator: LMG

Sample : L0406-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:33 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:28 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.54	326	5354m	12.0304 ng
Corrected Values:				5354	12.0304 ng
89) Cl5(110)		23.81	326	72201m	112.5732 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.71	360	25521m	61.8566 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.30	326	64342m	99.2039 ng
Corrected Values:				64342	99.2039 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.90	360	38789m	86.3313 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.25	326	13988m	25.9008 ng
Corrected Values:				13988	25.9008 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.83	360	19797m	44.5789 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9359.D MF0785.M Tue Mar 17 13:30:44 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9359.D

Vial: 5

Acq On : 13 Mar 2015 2:14 pm

Operator: LMG

Sample : L0406-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:33 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:28 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.88	360	8485m	18.7894 ng
Corrected Values:				8485	18.7894 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.69	360	4552m	14.2663 ng
Corrected Values:				4552	14.2663 ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
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 F9359.D MF0785.M Tue Mar 17 13:30:45 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9359.D Vial: 5
 Acq On : 13 Mar 2015 2:14 pm Operator: LMG
 Sample : L0406-P-D(4) Inst : Inst. F
 Misc : S-14D-2014-35-68-00-10-REP 5-315 15-0072 Multiplr: 1.00
 MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:33 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Sun Mar 15 08:52:28 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D. d

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9359.D MF0785.M Tue Mar 17 13:30:45 2015 040221CFS

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Data File : G:\F\DATA\SF0786\F9360.D

Vial: 6

Acq On : 13 Mar 2015 3:02 pm

Operator: LMG

Sample : L0443-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-7-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.15	326	70999m	95.0000	ng
78) Cl6(161)	25.81	360	47237m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.32	256	305730m	326.8413	ng
Spiked Amount	379.8670			Recovery	= 86.04%
Corrected Values:			305730	326.8413	ng
114) Cl6(152)	22.51	360	191889m	372.1101	ng
Spiked Amount	381.3865			Recovery	= 97.57%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154e	668457m	262.0620	ng
3) Cl1(1)		0.00	188	0	N.D. d	
4) Cl1(3)		11.15	188	11417m	7.0360	ng
5) Cl2(4)		11.43	222	60040m	66.7003	ng
6) Cl2(7)		12.32	222	6824m	6.1979	ng
7) Cl2(9)		12.28	222	16197m	10.5680	ng
8) Cl2(6)		12.56	222e	411609m	278.3943	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222e	406438m	260.7979	ng
11) Cl3(19)		13.33	256	21675m	36.2977	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	
14) Cl2(11)		0.00	222	0	N.D.	
Corrected Values:				0	ng	
15) Cl3(18)		14.18	256E	648095m	973.7077	ng
16) Cl3(17)		14.30	256E	310007m	448.5485	ng
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	
19) Cl2(13)		14.53tw	222e	334587m	253.5017	ng
Corrected Values:				334587	253.5017	ng
20) Cl3(27)		14.54tw	256	66442m	67.7252	ng
21) Cl3(24)		14.67	256	7490m	8.8787	ng
22) Cl3(16)		14.86	256e	116430m	226.3428	ng
23) Cl2(15)		14.91	222e	571856m	367.1590	ng
24) Cl3(32)		14.99	256e	222229m	226.6538	ng
25) Cl4(54)		0.00	292	0	N.D. d	
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D. d	
30) Cl3(26)		15.87	256E	1447692m	1312.6844	ng
Corrected Values:				1447692	1312.6844	ng
31) Cl4(50)		15.92	292	3992m	7.1718	ng
32) Cl3(25)		15.99	256E	848140m	823.3576	ng
33) Cl3(31)-S1 (0.135)		16.37t	255	39508	No Calib	
34) Cl3(31)		16.34	256E	2505001m	1970.4237	ng
Corrected Values:				2499667	1967.0027	ng
35) Cl4(53)		16.37t	292	103444m	156.2749	ng
36) Cl3(28)		16.46	256E	2318959m	1957.2054	ng
37) Cl3(33)		16.56	256E	515136m	537.5656	ng
38) Cl4(51)		16.63	292	48229m	69.7438	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9360.D MF0785.M Tue Mar 17 13:30:46 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9360.D

Vial: 6

Acq On : 13 Mar 2015 3:02 pm

Operator: LMG

Sample : L0443-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-7-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.97	292	81965m	150.3321 ng
40) Cl3(22)		17.06	256E	593691m	614.1150 ng
41) Cl4(46)		17.23	292	29058m	59.1511 ng
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.68	292E	1716787m	2088.8498 ng
44) Cl4(48)		17.84	292e	200677m	299.4306 ng
45) Cl4(49)		17.89	292E	1641169m	1988.9703 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.08	292E	642213m	841.4792 ng
Corrected Values:				642213	841.4792 ng
49) Cl4(75)		18.16	292	43763m	49.1065 ng
50) Cl4(44)		18.52	292E	759028m	1060.1713 ng
51) Cl4(42)		18.74	292E	499621m	773.2998 ng
52) Cl4(71)		18.96	292e	276424m	324.2361 ng
53) Cl4(41)		19.06	292	23839m	50.6287 ng
54) Cl4(64)		19.35	292E	866797m	868.0485 ng
55) Cl4(40)		19.42t	292	67381m	143.4400 ng
56) Cl3(37)-S1	(0.135)	19.41tw	255	53700	No Calib
57) Cl3(37)		19.42t	256E	537181m	539.4665 ng
Corrected Values:				529931	532.6156 ng
58) Cl5(100)		19.79	326	23640m	43.0719 ng
59) Cl4(67)		20.09	292e	236514m	274.9587 ng
60) Cl4(63)		20.49	292	96373m	123.9961 ng
61) Cl5(95)		20.62	326E	830579m	1285.8610 ng
62) Cl4(74)		20.71	292E	910781m	854.0358 ng
63) Cl4(70)		20.84	292E	1335630m	1285.4738 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		21.02tw	326E	384012m	623.9906 ng
Corrected Values:				384012	623.9906 ng
66) Cl4(66)-S1	(0.174)	21.01tw	289E	87648	No Calib
67) Cl4(66)-S2	(0.650)	20.99	288	10675	No Calib
68) Cl4(66)		21.05	292E	1404156m	1321.5981 ng
Corrected Values:				1381966	1304.3823 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		21.34	292	48771m	62.4808 ng
71) Cl5(92)		21.64T	326E	286985m	462.1660 ng
72) Cl5(84)		21.64T	326e	216074m	386.5694 ng
73) Cl4(56)-S1	(0.174)	21.64t	289E	165043	No Calib
74) Cl4(56)		21.69	292E	569653m	635.1888 ng
Corrected Values:				540936	604.8623 ng
75) Cl4(60)-S1	(0.174)	21.95t	289E	205783	No Calib
76) Cl4(60)		21.96tw	292e	330280m	379.9818 ng
Corrected Values:				294474	341.4984 ng
77) Cl5(101)		21.95t	326E	1513102m	1760.2606 ng
79) Cl5(99)		22.23	326E	1154009m	1616.0209 ng
80) Cl5(83)		22.61	326e	171194m	419.9685 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.89	326E	473892m	998.5050 ng
83) Cl5(87)		23.35	326E	239301m	482.2890 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9360.D MF0785.M Tue Mar 17 13:30:47 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9360.D

Vial: 6

Acq On : 13 Mar 2015 3:02 pm

Operator: LMG

Sample : L0443-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-7-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.42	360	115358m	224.8264 ng
85) Cl5(115)		23.56	326	25616m	40.9495 ng
86) Cl6(154)		23.64	360	27065m	58.2479 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.60	326e	162347m	413.8085 ng
Corrected Values:				162347	413.8085 ng
89) Cl5(110)		23.88tw	326E	2184474m	2217.0565 ng
90) Cl4(81)		23.87tw	292	25877m	40.0677 ng
91) Cl5(82)-S1	(0.220)	24.30t	323e	25623	No Calib
92) Cl5(82)		24.30t	326	76121m	193.2616 ng
Corrected Values:				70484	179.5434 ng
93) Cl6(151)		24.30t	360e	113642m	286.6199 ng
94) Cl6(135)		24.41	360	94420m	244.6216 ng
95) Cl4(77)-S2	(0.650)	24.50tw	288	33820	No Calib
96) Cl4(77)		24.51tw	292e	178141m	255.7064 ng
Corrected Values:				156158	225.9490 ng
97) Cl6(144)		24.54	360	24479m	60.7595 ng
98) Cl6(149)		24.77	360E	774121m	1427.9159 ng
99) Cl6(139)		24.89	360	19267m	48.2949 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.94	326	58037m	87.6950 ng
Corrected Values:				58037	87.6950 ng
102) Cl6(140)		24.99	360	2362m	6.8915 ng
103) Cl5(123)		25.15	326e	184992m	290.2594 ng
104) Cl6(134)		25.39	360	11640m	37.4114 ng
105) Cl7(188)		25.34	394	1000m	3.7331 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.37	326E	1886496m	2282.4084 ng
Corrected Values:				1886496	2282.4084 ng
109) Cl6(131)		25.45	360	15368m	42.6760 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.72tw	360e	149131m	322.2706 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.73tw	326	35082m	57.4055 ng
Corrected Values:				35082	57.4055 ng
115) Cl6(153)		25.97	360E	1153101m	1798.2520 ng
116) Cl7(179)		26.18	394	29915m	73.4166 ng
117) Cl5(105)-S1	(0.220)	26.34tw	323	11856	No Calib
118) Cl5(105)		26.31	326E	419918m	617.7761 ng
Corrected Values:				417310	614.5357 ng
119) Cl6(141)		26.35tw	360	77074m	205.7707 ng
120) Cl7(176)		26.43	394	7692m	19.6384 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.57	360	47412m	128.1674 ng
124) Cl6(130)		26.69	360	48370m	135.3527 ng
125) Cl6(164)		26.75	360	87101m	178.0930 ng
126) Cl6(138)		26.89	360E	578887m	1041.2093 ng
127) Cl6(163)-S1	(0.265)	26.99tw	357	2975	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9360.D MF0785.M Tue Mar 17 13:30:47 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9360.D

Vial: 6

Acq On : 13 Mar 2015 3:02 pm

Operator: LMG

Sample : L0443-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-7-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.93	360E	283062m	553.1589 ng
Corrected Values:				282274	551.8002 ng
129) Cl7(178)		26.98tw	394	12043m	39.2665 ng
130) Cl6(158)		27.04	360e	135098m	248.3999 ng
131) Cl7(175)		27.17	394	4034m	14.1292 ng
132) Cl7(187)		27.25	394	82303m	228.3221 ng
133) Cl6(166)-S1	(0.265)	27.43t	357	3953	No Calib
134) Cl6(166)		27.44tw	360	7792m	17.5094 ng
Corrected Values:				6744	15.3202 ng
135) Cl7(183)		27.43t	394	36275m	107.7339 ng
136) Cl5(126)		27.58	326	7478m	17.1357 ng
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.74	360e	142833m	376.0976 ng
Corrected Values:				142833	376.0976 ng
139) Cl7(185)		27.76	394	3637m	13.6639 ng
140) Cl7(174)		27.87	394	36951m	123.4934 ng
141) Cl6(167)		27.97	360	70842m	147.4420 ng
142) Cl8(202)		28.04	428	5151m	16.7851 ng
143) Cl7(177)		28.14	394	27439m	99.5855 ng
144) Cl8(201)		28.26tw	428	2435m	8.8016 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.27tw	394	18491m	64.0276 ng
Corrected Values:				18491	64.0276 ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		28.49	428	619m	3.3752 ng
149) Cl6(156)-S1	(0.265)	28.81tw	357	9977	No Calib
150) Cl6(156)		28.59	360	121864m	250.7699 ng
Corrected Values:				119220	245.9118 ng
151) Cl7(172)		28.62	394	10019m	37.0049 ng
152) Cl6(157)		28.68	360	30707m	66.6657 ng
153) Cl7(180)		28.82tw	394e	123674m	339.2337 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.85	394	5656m	16.5777 ng
Corrected Values:				5656	16.5777 ng
156) Cl8(200)		28.89	428	1531m	6.3462 ng
157) Cl7(191)		28.98	394	4464m	13.0000 ng
158) Cl7(170)-S1	(0.309)	29.57t	391	2248	No Calib
159) Cl7(170)		29.51	394	61550m	228.2894 ng
Corrected Values:				60855	226.0931 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.57t	428	12958m	65.9201 ng
162) Cl7(190)		29.63	394	16966m	46.4207 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		29.75tw	360	12440m	35.6624 ng
Corrected Values:				12440	35.6624 ng
165) Cl8(203)		29.74tw	428	16083m	65.0467 ng
166) Cl9(208)		30.25	464	3295m	15.3279 ng
167) Cl7(189)		30.40	394	4756m	18.5251 ng
168) Cl9(207)		30.45t	464	967m	5.7183 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9360.D MF0785.M Tue Mar 17 13:30:47 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9360.D

Vial: 6

Acq On : 13 Mar 2015 3:02 pm

Operator: LMG

Sample : L0443-P(2)

Inst : Inst. F

Misc : S-14D-2014-35-7-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.45t	428	4356m	21.1053 ng
Corrected Values:				4356	21.1053 ng
171) Cl8(194)		30.95	428	13258m	72.8735 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.61	464	6652m	44.3897 ng
174) Cl10(209)		32.11	498	1869m	12.5400 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9360.D MF0785.M Tue Mar 17 13:30:47 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0786\F9361.D

Vial: 7

Acq On : 13 Mar 2015 3:50 pm

Operator: LMG

Sample : L0443-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-7-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:41 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.12	326	61417m	95.0000	ng
78) Cl6(161)	25.75	360	51843m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	34755m	15.2066	ng
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	d
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		12.55	222	21098m	17.0672	ng
9) Cl2(5)		0.00	222	0	N.D.	d
10) Cl2(8)		12.85	222	20706m	15.9370	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.16	256	31483m	53.1404	ng
16) Cl3(17)		14.28	256	16224m	27.7122	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		14.51	222	17364m	16.4925	ng
Corrected Values:				17364	16.4925	ng
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		14.83	256	5602m	13.1417	ng
23) Cl2(15)		14.89	222	28873m	23.0308	ng
24) Cl3(32)		14.97	256	11844m	14.6258	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.84	256	75931m	87.5892	ng
Corrected Values:				75931	87.5892	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.96	256	47131m	57.9152	ng
33) Cl3(31)-S1	(0.135)	16.33	255	1749	No Calib	
34) Cl3(31)		16.31	256	125874m	145.8211	ng
Corrected Values:				125638	145.5553	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.43	256	127132m	144.2474	ng
37) Cl3(33)		16.53	256	26879m	34.8889	ng
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9361.D MF0785.M Tue Mar 17 13:30:49 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9361.D

Vial: 7

Acq On : 13 Mar 2015 3:50 pm

Operator: LMG

Sample : L0443-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-7-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:41 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		17.02	256	31964m	42.0345 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.63	292	92073m	167.5391 ng
44) Cl4(48)		17.80	292	7023m	13.8061 ng
45) Cl4(49)		17.86	292	87530m	161.3907 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.04	292	35078m	54.8802 ng
Corrected Values:				35078	54.8802 ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		18.49	292	39970m	83.2280 ng
51) Cl4(42)		18.69	292	25823m	54.5505 ng
52) Cl4(71)		18.92	292	15102m	22.8419 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.30	292	44459m	62.2717 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	19.38t	255	2843	No Calib
57) Cl3(37)		19.38t	256	27501m	35.6007 ng
Corrected Values:				27117	35.1320 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		20.03	292	12762m	20.3405 ng
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.57	326	42151m	97.9729 ng
62) Cl4(74)		20.65	292	47759m	64.4784 ng
63) Cl4(70)		20.78	292	70001m	94.6731 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.95tw	326	20338m	42.9885 ng
Corrected Values:				20338	42.9885 ng
66) Cl4(66)-S1	(0.174)	20.94tw	289	4978	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.97	292	76129m	104.9042 ng
Corrected Values:				75263	103.7553 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.57Tw	326	14141m	31.0238 ng
72) Cl5(84)		21.58t	326	10930m	34.2026 ng
73) Cl4(56)-S1	(0.174)	21.58t	289	8233	No Calib
74) Cl4(56)		21.62	292	28961m	41.4088 ng
Corrected Values:				27528	39.4747 ng
75) Cl4(60)-S1	(0.174)	21.87t	289	10898	No Calib
76) Cl4(60)		21.89	292	16346m	25.0748 ng
Corrected Values:				14450	22.3934 ng
77) Cl5(101)		21.87t	326	78551m	150.9102 ng
79) Cl5(99)		22.15	326	60200m	106.6520 ng
80) Cl5(83)		22.54	326	8643m	22.3481 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.83	326	24613m	52.4226 ng
83) Cl5(87)		23.29	326	12500m	28.7809 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9361.D MF0785.M Tue Mar 17 13:30:49 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9361.D

Vial: 7

Acq On : 13 Mar 2015 3:50 pm

Operator: LMG

Sample : L0443-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-7-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:41 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.54	326	6900m	14.2005 ng
Corrected Values:				6900	14.2005 ng
89) Cl5(110)		23.81	326	111120m	160.0610 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		24.24	360	5433m	14.0387 ng
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.44	292	8873m	13.8773 ng
Corrected Values:				8873	13.8773 ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.70	360	38835m	87.4057 ng
99) Cl6(139)		0.00	360	0	N.D. d
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.08	326	9208m	15.6655 ng
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.30	326	95012m	136.0880 ng
Corrected Values:				95012	136.0880 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.65	360	6887m	16.4250 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.90	360	57445m	118.6755 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.25	326	21193m	35.9564 ng
Corrected Values:				21193	35.9564 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.84	360	29011m	60.6840 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9361.D MF0785.M Tue Mar 17 13:30:49 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9361.D

Vial: 7

Acq On : 13 Mar 2015 3:50 pm

Operator: LMG

Sample : L0443-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-7-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:41 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.88	360	13049m	26.9116 ng
Corrected Values:				13049	26.9116 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		26.98	360	6372m	12.3536 ng
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.69	360	7051m	20.1236 ng
Corrected Values:				7051	20.1236 ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		28.76	394	5770m	17.7456 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9361.D MF0785.M Tue Mar 17 13:30:49 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9361.D Vial: 7
Acq On : 13 Mar 2015 3:50 pm Operator: LMG
Sample : L0443-P-D(4) Inst : Inst. F
Misc : S-14D-2014-35-7-10-20 5-315 15-0072 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:41 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Sun Mar 15 08:52:36 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9361.D MF0785.M Tue Mar 17 13:30:49 2015 040221CFS

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Data File : G:\F\DATA\SF0786\F9363.D

Vial: 9

Acq On : 13 Mar 2015 5:25 pm

Operator: LMG

Sample : L0473-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-25-1-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:44 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	53545m	95.0000	ng
78) Cl6(161)	25.78	360	46153m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)		15.30	256	15012m	22.4320	ng
Spiked Amount	18.9997			Recovery	=	118.07%
Corrected Values:				15012	22.4320	ng
114) Cl6(152)		22.46	360	8175m	17.0009	ng
Spiked Amount	19.0757			Recovery	=	89.12%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.75	154	133863m	67.4336	ng
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.56	222	3043m	3.5304	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222	2855m	3.4191	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256	3298m	7.3592	ng
16) Cl3(17)		14.29	256	2040m	4.8191	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.86	256	5461m	8.5641	ng
Corrected Values:				5461	8.5641	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.98	256	3894m	6.4833	ng
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		16.32	256	7828m	11.6329	ng
Corrected Values:				7828	11.6329	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.43	256	7060m	10.6519	ng
37) Cl3(33)		16.55	256	2673m	5.1819	ng
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9363.D MF0785.M Tue Mar 17 13:30:51 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9363.D

Vial: 9

Acq On : 13 Mar 2015 5:25 pm

Operator: LMG

Sample : L0473-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-25-1-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:44 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.65	292	11078m	24.5092 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.86	292	7532m	17.2454 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.06	292	2567m	5.0668 ng
Corrected Values:				2567	5.0668 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.52	292	9257m	23.2259 ng
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.33	292	2498m	4.7145 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.60	326	8903m	24.8747 ng
62) Cl4(74)		20.66	292	2514m	5.5643 ng
63) Cl4(70)		20.81	292	9455m	16.2443 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.97	326	2717m	7.6413 ng
Corrected Values:				2717	7.6413 ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.00	292	6598	12.2682 ng
Corrected Values:				6598	12.2682 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.60Tw	326	2616m	7.8942 ng
72) Cl5(84)		21.61Tw	326	1923m	7.3011 ng
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		21.65	292	2499	6.0826 ng
Corrected Values:				2499	6.0826 ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.91	326	16022m	37.6488 ng
79) Cl5(99)		22.17	326	8649m	18.3958 ng
80) Cl5(83)		0.00	326	0	N.D.
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.86	326	4454m	12.0100 ng
83) Cl5(87)		23.31	326	4857m	12.8276 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9363.D MF0785.M Tue Mar 17 13:30:51 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9363.D

Vial: 9

Acq On : 13 Mar 2015 5:25 pm

Operator: LMG

Sample : L0473-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-25-1-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:44 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.41	360	1381m	3.1545 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.83	326	21410m	36.6502 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D.
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.72	360	7112m	18.9805 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.32	326	20449m	34.7506 ng
Corrected Values:				20449	34.7506 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.92	360	11537m	27.9745 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.27	326	7222m	14.9504 ng
Corrected Values:				7222	14.9504 ng
119) Cl6(141)		26.32	360	1659m	6.6994 ng
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D. d
125) Cl6(164)		0.00	360	0	N.D.
126) Cl6(138)		26.86	360	8093m	19.8815 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9363.D MF0785.M Tue Mar 17 13:30:51 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9363.D

Vial: 9

Acq On : 13 Mar 2015 5:25 pm

Operator: LMG

Sample : L0473-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-25-1-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:44 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.90	360	2128m	5.2233 ng
Corrected Values:				2128	5.2233 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		27.00	360	1658	4.7513 ng
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		27.22	394	1069m	4.3718 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		29.55	428	1280m	7.8159 ng
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		30.23	464	1532m	8.0269 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9363.D MF0785.M Tue Mar 17 13:30:52 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9363.D

Vial: 9

Acq On : 13 Mar 2015 5:25 pm

Operator: LMG

Sample : L0473-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-25-1-10-20 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:44 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.58	464	2406m	17.4975 ng
174) Cl10(209)		32.08	498	1375m	9.7114 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9363.D MF0785.M Tue Mar 17 13:30:52 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0786\F9365.D

Vial: 11

Acq On : 13 Mar 2015 7:01 pm

Operator: LMG

Sample : L0477-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-26-1-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	51974m	95.0000	ng
78) Cl6(161)	25.79	360	45502m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.31	256	12064m	18.7385	ng
Spiked Amount	18.9997			Recovery	= 98.63%
Corrected Values:			12064	18.7385	ng
114) Cl6(152)	22.47	360	8314m	17.5363	ng
Spiked Amount	19.0757			Recovery	= 91.93%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	110058m	57.0348	ng
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		11.43	222	3035m	4.8627	ng
6) Cl2(7)		0.00	222	0	N.D.	d
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		12.56	222	15418m	14.8527	ng
9) Cl2(5)		0.00	222	0	N.D.	d
10) Cl2(8)		12.86	222	15298m	14.0471	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256	12077m	24.6683	ng
16) Cl3(17)		14.29	256	6270m	13.1741	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	d
19) Cl2(13)		14.53tw	222	7489	9.2350	ng
Corrected Values:				7489	9.2350	ng
20) Cl3(27)		14.54tw	256	2756m	4.9974	ng
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		14.90	222	10027	10.2585	ng
24) Cl3(32)		14.98	256	4791	7.4607	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.	d
30) Cl3(26)		15.85	256	32758m	45.4745	ng
Corrected Values:				32758	45.4745	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.98	256	19025m	28.2647	ng
33) Cl3(31)-S1 (0.135)		0.00	255	0	N.D.	d
34) Cl3(31)		16.32	256	36777m	51.7613	ng
Corrected Values:				36777	51.7613	ng
35) Cl4(53)		16.37	292	2244	5.8982	ng #
36) Cl3(28)		16.44	256	35411m	48.8322	ng
37) Cl3(33)		16.55	256	6710m	11.2593	ng
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9365.D MF0785.M Tue Mar 17 13:30:53 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9365.D

Vial: 11

Acq On : 13 Mar 2015 7:01 pm

Operator: LMG

Sample : L0477-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-26-1-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		17.03	256	7989m	13.5568 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.66	292	33297m	73.2006 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.87	292	33200m	73.9775 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.06	292	10302m	19.3898 ng
Corrected Values:				10302	19.3898 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.52	292	13625m	34.5882 ng
51) Cl4(42)		18.70	292	7425m	19.3462 ng
52) Cl4(71)		18.94	292	4890m	9.6171 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.32	292	8593m	14.9192 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		19.41	256	8411	14.1093 ng
Corrected Values:				8411	14.1093 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		20.07	292	3742	8.0522 ng #
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.60	326	12895	36.5499 ng
62) Cl4(74)		20.66	292	7211m	13.0703 ng
63) Cl4(70)		20.81	292	12054m	20.8060 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.96tw	326	6735	17.6217 ng
Corrected Values:				6735	17.6217 ng
66) Cl4(66)-S1	(0.174)	20.97	289	3543	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.00	292	12481m	22.1352 ng
Corrected Values:				11865	21.1368 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.60t	326	4221m	12.0423 ng
72) Cl5(84)		21.62	326	3628m	13.9102 ng
73) Cl4(56)-S1	(0.174)	21.60t	289	3006	No Calib
74) Cl4(56)		21.66	292	7515	14.2444 ng
Corrected Values:				6992	13.4062 ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.91	326	19633m	46.9731 ng
79) Cl5(99)		22.18	326	15399m	32.3410 ng
80) Cl5(83)		22.57	326	2907m	8.8100 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.86	326	5728m	15.1583 ng
83) Cl5(87)		23.30	326	4014m	10.8098 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9365.D MF0785.M Tue Mar 17 13:30:53 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9365.D

Vial: 11

Acq On : 13 Mar 2015 7:01 pm

Operator: LMG

Sample : L0477-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-26-1-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.40	360	2197m	4.8783 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D.
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.84	326	31776m	54.3721 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		24.27	360	2061m	6.5681 ng
94) Cl6(135)		24.37	360	1558m	5.6207 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		24.73	360	12263m	32.4320 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.33	326	23350m	39.9275 ng
Corrected Values:				23350	39.9275 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		25.68	360	2536m	7.8140 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.94	360	16308m	39.6793 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.27	326	13569m	26.7882 ng
Corrected Values:				13569	26.7882 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D. d
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.86	360	7236m	18.1284 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9365.D MF0785.M Tue Mar 17 13:30:53 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9365.D

Vial: 11

Acq On : 13 Mar 2015 7:01 pm

Operator: LMG

Sample : L0477-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-26-1-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.91	360	3808m	9.2071 ng
Corrected Values:				3808	9.2071 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		27.01	360	1840m	5.1459 ng
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		27.22	394	1434m	5.4999 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		27.39	394	609m	3.5457 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.71	360	2182m	7.9442 ng
Corrected Values:				2182	7.9442 ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		28.03	428	800m	4.1220 ng
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		28.78	394	1980m	7.7989 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		29.55	428	1125m	7.0934 ng
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		30.23	464	760m	4.7082 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9365.D MF0785.M Tue Mar 17 13:30:54 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9365.D

Vial: 11

Acq On : 13 Mar 2015 7:01 pm

Operator: LMG

Sample : L0477-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-26-1-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 15 08:52:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Sun Mar 15 08:52:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.58	464	1004m	8.0636 ng
174) Cl10(209)		0.00	498	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9365.D MF0785.M Tue Mar 17 13:30:54 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0786\F9377.D

Vial: 13

Acq On : 15 Mar 2015 11:01 am

Operator: LMG

Sample : L0504-P(2)

Inst : Inst. F

Misc : S-14D-2014-30-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:08 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:05 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.17	326	87030m	95.0000	ng
78) Cl6(161)	25.84	360	63903m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.35tw	256	393312m	342.7556	ng
Spiked Amount	379.8670			Recovery	= 90.23%
Corrected Values:			393312	342.7556	ng
114) Cl6(152)	22.56	360	225016m	324.5487	ng
Spiked Amount	381.3865			Recovery	= 85.10%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.77	154e	1043490	338.0631	ng
3) Cl1(1)		0.00	188	0	N.D. d	
4) Cl1(3)		11.17	188	16978	8.3721	ng #
5) Cl2(4)		11.44	222	115058m	104.0510	ng
6) Cl2(7)		12.33	222	10621m	7.6965	ng
7) Cl2(9)		12.30	222	31023m	15.8870	ng
8) Cl2(6)		12.58	222e	466937m	257.4162	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.87	222e	616608m	324.9810	ng
11) Cl3(19)		13.33	256	46921m	63.6530	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D. d	
14) Cl2(11)		0.00	222	0	N.D. d	
Corrected Values:				0	ng	
15) Cl3(18)		14.20	256E	701198m	854.0249	ng
16) Cl3(17)		14.32	256E	334903m	394.8057	ng
17) Cl2(12)		14.42	222	11236m	8.2229	ng
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D. d	
19) Cl2(13)		14.56t	222e	412765m	255.1547	ng
Corrected Values:				412765	255.1547	ng
20) Cl3(27)		14.56t	256	145692m	121.1057	ng
21) Cl3(24)		0.00	256	0	N.D.	
22) Cl3(16)		14.88	256	80701m	128.7755	ng
23) Cl2(15)		14.94	222e	593323m	311.7185	ng
24) Cl3(32)		15.01	256e	355820m	297.1304	ng
25) Cl4(54)		15.34tw	292	3771m	3.8455	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D. d	
30) Cl3(26)		15.90	256E	1687925m	1253.3521	ng
Corrected Values:				1687925	1253.3521	ng
31) Cl4(50)		0.00	292	0	N.D. d	
32) Cl3(25)		16.02	256E	1113520m	877.4096	ng
33) Cl3(31)-S1 (0.135)		16.38tw	255e	62083	No Calib	
34) Cl3(31)		16.37tw	256E	2751172m	1800.6387	ng
Corrected Values:				2742791	1796.1090	ng
35) Cl4(53)		16.39tw	292e	178364m	220.4393	ng
36) Cl3(28)		16.48	256E	2482150m	1737.0503	ng
37) Cl3(33)		16.59	256e	301995m	262.8982	ng
38) Cl4(51)		16.66	292	85354m	100.5013	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9377.D MF0785.M Tue Mar 17 13:31:00 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9377.D

Vial: 13

Acq On : 15 Mar 2015 11:01 am

Operator: LMG

Sample : L0504-P(2)

Inst : Inst. F

Misc : S-14D-2014-30-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:08 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:05 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.98	292	65874m	99.5409 ng
40) Cl3(22)		17.08	256E	423322m	367.0157 ng
41) Cl4(46)		17.25	292	37992m	63.0061 ng
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.70	292E	1709577m	1763.5516 ng
44) Cl4(48)		17.86	292e	214991m	263.4304 ng
45) Cl4(49)		17.92	292E	1658069m	1702.3781 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.10	292E	606443m	652.0601 ng
Corrected Values:				606443	652.0601 ng
49) Cl4(75)		18.17	292	38439m	35.6498 ng
50) Cl4(44)		18.55	292E	553183m	687.2687 ng
51) Cl4(42)		18.76	292E	370640m	494.8267 ng
52) Cl4(71)		18.98	292E	369436m	351.8035 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.37	292E	738366m	633.7871 ng
55) Cl4(40)		19.51	292	61333m	106.7995 ng
56) Cl3(37)-S1	(0.135)	19.45t	255	26104	No Calib
57) Cl3(37)		19.45t	256e	309602m	262.6801 ng
Corrected Values:				306078	259.7971 ng
58) Cl5(100)		19.83	326	26720m	39.8278 ng
59) Cl4(67)		20.13	292	156342m	155.8388 ng
60) Cl4(63)		20.53	292	82959m	88.8022 ng
61) Cl5(95)		20.66t	326E	560442m	782.1538 ng
62) Cl4(74)		20.66t	292	55637m	53.4678 ng
63) Cl4(70)		20.74	292E	653070m	569.7137 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		21.05t	326E	326445m	445.0724 ng
Corrected Values:				326445	445.0724 ng
66) Cl4(66)-S1	(0.174)	21.05t	289E	75146	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.09	292E	915789m	772.7229 ng
Corrected Values:				902714	763.0314 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		21.38	292	20736m	23.1710 ng
71) Cl5(92)		21.67tw	326e	171788m	239.7876 ng
72) Cl5(84)		21.68t	326e	178852m	288.1451 ng
73) Cl4(56)-S1	(0.174)	21.68t	289e	111455	No Calib
74) Cl4(56)		21.73	292e	345420m	323.9967 ng
Corrected Values:				326027	306.4060 ng
75) Cl4(60)-S1	(0.174)	21.98t	289E	115616	No Calib
76) Cl4(60)		21.99tw	292e	184325m	180.8563 ng
Corrected Values:				164208	161.9256 ng
77) Cl5(101)		21.98t	326E	943588m	1032.7894 ng
79) Cl5(99)		22.27	326E	789861m	933.5135 ng
80) Cl5(83)		22.65	326e	146352m	277.7355 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.93	326E	267007m	435.0928 ng
83) Cl5(87)		23.38	326e	116721m	198.2512 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9377.D MF0785.M Tue Mar 17 13:31:00 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9377.D

Vial: 13

Acq On : 15 Mar 2015 11:01 am

Operator: LMG

Sample : L0504-P(2)

Inst : Inst. F

Misc : S-14D-2014-30-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:08 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:05 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.44	360	80986m	118.0467 ng
85) Cl5(115)		23.59	326	21952m	26.6305 ng
86) Cl6(154)		23.67	360	25911m	41.6700 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.64	326	89739m	143.2791 ng
Corrected Values:				89739	143.2791 ng
89) Cl5(110)		23.90	326E	1432103m	1281.1273 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.33t	323	16948	No Calib
92) Cl5(82)		24.33t	326	40559m	78.5379 ng
Corrected Values:				36830	71.5000 ng
93) Cl6(151)		24.33t	360	68470m	132.2322 ng
94) Cl6(135)		24.43	360	66256m	128.8542 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.54	292	106915m	118.1851 ng
Corrected Values:				106915	118.1851 ng
97) Cl6(144)		24.57	360	14476m	27.3667 ng
98) Cl6(149)		24.79	360E	553543m	845.4935 ng
99) Cl6(139)		24.92	360	10011m	19.4302 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.97	326	35297m	40.6096 ng
Corrected Values:				35297	40.6096 ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		25.18	326	112751m	139.1169 ng
104) Cl6(134)		25.25	360	27759m	64.7718 ng
105) Cl7(188)		25.37	394	1304m	3.6545 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.39	326E	1042289m	1066.1302 ng
Corrected Values:				1042289	1066.1302 ng
109) Cl6(131)		25.43	360	6855m	15.0759 ng
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		25.73t	360	91471m	154.7055 ng
112) Cl5(114)-S1	(0.220)	25.73t	323E	11569	No Calib
113) Cl5(114)		25.77	326	20396m	25.8553 ng
Corrected Values:				17851	22.8612 ng
115) Cl6(153)		25.99	360E	693746m	947.9971 ng
116) Cl7(179)		26.21tw	394	19984m	36.9268 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.22tw	326E	1833530m	1558.3540 ng
Corrected Values:				1833530	1558.3540 ng
119) Cl6(141)		26.38	360	34372m	70.9506 ng
120) Cl7(176)		26.45	394	4117m	8.5105 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.58	360	26010m	53.9274 ng
124) Cl6(130)		26.72	360	26567m	54.3291 ng
125) Cl6(164)		26.78	360	50494m	78.4712 ng
126) Cl6(138)		26.91	360e	226418m	352.2168 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9377.D MF0785.M Tue Mar 17 13:31:00 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9377.D

Vial: 13

Acq On : 15 Mar 2015 11:01 am

Operator: LMG

Sample : L0504-P(2)

Inst : Inst. F

Misc : S-14D-2014-30-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:08 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:05 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.96	360e	208084m	318.6961 ng
Corrected Values:				208084	318.6961 ng
129) Cl7(178)		27.00	394	8001m	19.8191 ng
130) Cl6(158)		27.05	360	63839m	88.5700 ng
131) Cl7(175)		27.20	394	2184m	5.9630 ng
132) Cl7(187)		27.28	394	56627m	118.7794 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		27.46	394	21009m	47.4984 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.76	360	62871m	132.7365 ng
Corrected Values:				62871	132.7365 ng
139) Cl7(185)		27.79	394	2326m	7.0658 ng
140) Cl7(174)		27.89	394	19387m	49.5859 ng
141) Cl6(167)		28.00	360	46622m	75.1839 ng
142) Cl8(202)		28.06	428	3723m	9.7567 ng
143) Cl7(177)		28.17	394	13386m	37.6092 ng
144) Cl8(201)		28.29t	428	2320m	6.6404 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.29t	394	10043m	26.5703 ng
Corrected Values:				10043	26.5703 ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.61	360	61772m	101.9110 ng
Corrected Values:				61772	101.9110 ng
151) Cl7(172)		28.65	394	6017m	17.5261 ng
152) Cl6(157)		28.71	360	14385m	24.8490 ng
153) Cl7(180)		28.83	394	68009m	149.4637 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.88	394	3401m	8.2763 ng
Corrected Values:				3401	8.2763 ng
156) Cl8(200)		28.91	428	1467m	5.0150 ng
157) Cl7(191)		29.01	394	2660m	6.7632 ng
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		29.54	394	30700m	94.1211 ng
Corrected Values:				30700	94.1211 ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		29.59	428	7130m	27.8107 ng
162) Cl7(190)		29.66	394	9707m	20.9315 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.76	428	9086m	28.3826 ng
166) Cl9(208)		30.27	464	1812m	7.0549 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9377.D MF0785.M Tue Mar 17 13:31:01 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9377.D

Vial: 13

Acq On : 15 Mar 2015 11:01 am

Operator: LMG

Sample : L0504-P(2)

Inst : Inst. F

Misc : S-14D-2014-30-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:08 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:05 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.48	428	2552m	9.9081 ng
Corrected Values:				2552	9.9081 ng
171) Cl8(194)		30.98	428	7483m	32.6085 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.63	464	4122m	21.3311 ng
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9377.D MF0785.M Tue Mar 17 13:31:01 2015

040221CFS

Page 5

Data File : G:\F\DATA\SF0786\F9378.D

Vial: 14

Acq On : 15 Mar 2015 11:49 am

Operator: LMG

Sample : L0504-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-30-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:12 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.14	326	84772m	95.0000	ng
78) Cl6(161)	25.79	360	66941m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	57713m	18.2848	ng
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.57	222	25866m	15.2531	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222	35460m	19.5233	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.18	256	39864m	48.8312	ng
16) Cl3(17)		14.30	256	22783m	28.1778	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		14.53	222	23092m	15.9518	ng
Corrected Values:				23092	15.9518	ng
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		14.92	222	33218m	19.4261	ng
24) Cl3(32)		15.00	256	19354m	17.1514	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.87	256	93962m	78.7207	ng
Corrected Values:				93962	78.7207	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.99	256	66155m	58.8723	ng
33) Cl3(31)-S1	(0.135)	16.36tw	255	3722	No Calib	
34) Cl3(31)		16.33	256	149659m	126.1206	ng
Corrected Values:				149157	125.7088	ng
35) Cl4(53)		16.37tw	292	10219m	14.0313	ng
36) Cl3(28)		16.45	256	145952m	120.4593	ng
37) Cl3(33)		16.55	256	17915m	17.5647	ng
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9378.D MF0785.M Tue Mar 17 13:31:02 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9378.D

Vial: 14

Acq On : 15 Mar 2015 11:49 am

Operator: LMG

Sample : L0504-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-30-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:12 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		17.05	256	24082m	23.7002 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.67	292	101550m	134.7357 ng
44) Cl4(48)		17.82	292	6574m	9.7323 ng
45) Cl4(49)		17.88	292	106433m	142.7461 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.08	292	39104m	44.4332 ng
Corrected Values:				39104	44.4332 ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		18.52	292	31886m	48.9916 ng
51) Cl4(42)		18.73	292	21792m	33.8965 ng
52) Cl4(71)		18.95	292	21400m	23.4110 ng
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		19.34	292	42695m	43.7307 ng
55) Cl4(40)		0.00	292	0	N.D.
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		19.42	256	18049m	17.9565 ng
Corrected Values:				18049	17.9565 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.60	326	31392m	53.8625 ng
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		20.82	292	47163m	47.4096 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.99tw	326	18167m	28.3096 ng
Corrected Values:				18167	28.3096 ng
66) Cl4(66)-S1	(0.174)	20.98tw	289	4368	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.02	292	54519m	55.8430 ng
Corrected Values:				53759	55.0981 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.62T	326	8710m	14.7973 ng
72) Cl5(84)		21.62T	326	9080m	21.0419 ng
73) Cl4(56)-S1	(0.174)	21.61tw	289	5847	No Calib
74) Cl4(56)		21.67	292	19675m	21.5275 ng
Corrected Values:				18658	20.5295 ng
75) Cl4(60)-S1	(0.174)	21.91tw	289	6825	No Calib
76) Cl4(60)		21.92t	292	10596m	12.7901 ng
Corrected Values:				9408	11.5670 ng
77) Cl5(101)		21.92t	326	50565m	72.7111 ng
79) Cl5(99)		22.19	326	46635m	65.0329 ng
80) Cl5(83)		22.58	326	8685m	17.4950 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.87	326	14775m	25.3097 ng
83) Cl5(87)		23.33	326	6381m	11.6528 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9378.D MF0785.M Tue Mar 17 13:31:02 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9378.D

Vial: 14

Acq On : 15 Mar 2015 11:49 am

Operator: LMG

Sample : L0504-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-30-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:12 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D.
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.85	326	80815m	92.2682 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		24.73	360	30140m	53.3222 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.34	326	60715m	68.8827 ng
Corrected Values:				60715	68.8827 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.94	360	37616m	61.4535 ng
116) Cl7(179)		0.00	394	0	N.D.
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.28	326	15425m	21.1393 ng
Corrected Values:				15425	21.1393 ng
119) Cl6(141)		0.00	360	0	N.D.
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.87	360	12167m	20.5689 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9378.D MF0785.M Tue Mar 17 13:31:03 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9378.D

Vial: 14

Acq On : 15 Mar 2015 11:49 am

Operator: LMG

Sample : L0504-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-30-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:12 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.92	360	9769m	15.7864 ng
Corrected Values:				9769	15.7864 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9378.D MF0785.M Tue Mar 17 13:31:03 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9378.D

Vial: 14

Acq On : 15 Mar 2015 11:49 am

Operator: LMG

Sample : L0504-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-30-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:12 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9378.D MF0785.M Tue Mar 17 13:31:03 2015

040221CFS

Page 5

G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0786\F9379.D

Vial: 15

Acq On : 15 Mar 2015 12:37 pm

Operator: LMG

Sample : L0528-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:16 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:11 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.16	326	58456m	95.0000	ng
78) Cl6(161)	25.80	360	42490m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.33tw	256	234125m	304.3365	ng
Spiked Amount	379.8670			Recovery	= 80.12%
Corrected Values:			234125	304.3365	ng
114) Cl6(152)	22.49	360	155258m	336.2729	ng
Spiked Amount	381.3865			Recovery	= 88.17%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	68756m	31.5903	ng
3) Cl1(1)		9.95	188	7398m	4.9758	ng
4) Cl1(3)		11.16	188	14759	10.6092	ng
5) Cl2(4)		11.44	222	78217m	105.3045	ng
6) Cl2(7)		12.32	222	9544m	10.0808	ng
7) Cl2(9)		12.29	222	19747m	15.1142	ng
8) Cl2(6)		12.57	222e	524703m	434.1985	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222e	394206m	308.7803	ng
11) Cl3(19)		13.33	256	26621m	53.8549	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	
14) Cl2(11)		0.00	222	0	N.D.	
Corrected Values:				0	ng	
15) Cl3(18)		14.18	256E	496963m	903.4896	ng
16) Cl3(17)		14.30	256e	227056m	398.5426	ng
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1 (0.135)		14.53tw	221	5428	No Calib	
19) Cl2(13)		14.54t	222e	301191m	277.6035	ng
Corrected Values:				300458	276.9150	ng
20) Cl3(27)		14.54t	256	119783m	148.5636	ng
21) Cl3(24)		0.00	256	0	N.D. d	
22) Cl3(16)		14.87	256	63515m	150.6598	ng
23) Cl2(15)		14.93	222	289629m	227.7330	ng
24) Cl3(32)		15.00	256e	225336m	279.8870	ng
25) Cl4(54)		15.34tw	292	3006m	4.4605	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		15.88t	255	6550	No Calib	
30) Cl3(26)		15.88t	256E	1767702m	1878.9514	ng
Corrected Values:				1766818	1878.1089	ng
31) Cl4(50)		15.94	292	2776m	6.2415	ng
32) Cl3(25)		16.01	256E	959366m	1102.3612	ng
33) Cl3(31)-S1 (0.135)		16.37tw	255e	48592	No Calib	
34) Cl3(31)		16.34	256E	1467014m	1484.6281	ng
Corrected Values:				1460454	1479.0050	ng
35) Cl4(53)		16.38tw	292	128842m	237.3015	ng
36) Cl3(28)		16.46	256E	1300363m	1390.7571	ng
37) Cl3(33)		16.58	256e	247432m	319.0992	ng
38) Cl4(51)		16.64	292	59451m	104.2200	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9379.D MF0785.M Tue Mar 17 13:31:04 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9379.D

Vial: 15

Acq On : 15 Mar 2015 12:37 pm

Operator: LMG

Sample : L0528-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:16 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:11 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.97	292	42895m	96.5653 ng
40) Cl3(22)		17.05	256e	294883m	380.0600 ng
41) Cl4(46)		17.22	292	27615m	68.0720 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.69	292E	1737263m	2461.0040 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.90	292E	1532584m	2196.8893 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.09	292E	486152m	775.2563 ng
Corrected Values:				486152	775.2563 ng
49) Cl4(75)		18.15	292	43026m	58.3456 ng
50) Cl4(44)		18.53	292E	550344m	955.7697 ng
51) Cl4(42)		18.73	292E	374094m	711.7517 ng
52) Cl4(71)		18.96	292e	205389m	294.1880 ng
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		19.35	292E	585814m	732.9120 ng
55) Cl4(40)		19.48	292	36471m	94.6861 ng
56) Cl3(37)-S1	(0.135)	19.42tw	255	26839	No Calib
57) Cl3(37)		19.43tw	256	141357m	180.8465 ng
Corrected Values:				137734	176.3509 ng
58) Cl5(100)		19.80	326	25231m	55.3546 ng
59) Cl4(67)		20.09	292	108168m	160.2073 ng
60) Cl4(63)		20.49	292	41868m	67.7017 ng
61) Cl5(95)		20.62	326E	627206m	1198.9854 ng
62) Cl4(74)		20.70	292e	225666m	294.9245 ng
63) Cl4(70)		20.84	292e	300952m	401.6504 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		21.00t	326E	334561m	656.9584 ng
Corrected Values:				334561	656.9584 ng
66) Cl4(66)-S1	(0.174)	21.00t	289E	77109	No Calib
67) Cl4(66)-S2	(0.650)	21.00t	288	6709	No Calib
68) Cl4(66)		21.02	292E	395255m	520.4994 ng
Corrected Values:				377477	499.1515 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		21.34	292	19598m	31.7652 ng
71) Cl5(92)		21.63t	326e	184299m	369.3876 ng
72) Cl5(84)		21.64Tw	326e	178728m	387.8798 ng
73) Cl4(56)-S1	(0.174)	21.63t	289e	112624	No Calib
74) Cl4(56)		21.68	292	120508m	171.6374 ng
Corrected Values:				100911	144.4310 ng
75) Cl4(60)-S1	(0.174)	21.93t	289E	91554	No Calib
76) Cl4(60)		21.95	292	71655m	107.0066 ng
Corrected Values:				55725	84.0135 ng
77) Cl5(101)		21.93t	326E	689694m	1106.6392 ng
79) Cl5(99)		22.21	326E	595817m	1036.7843 ng
80) Cl5(83)		22.59	326e	150612m	411.8034 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.88	326e	200734m	489.6484 ng
83) Cl5(87)		23.35	326	70688m	182.0393 ng

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9379.D MF0785.M Tue Mar 17 13:31:04 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9379.D

Vial: 15

Acq On : 15 Mar 2015 12:37 pm

Operator: LMG

Sample : L0528-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:16 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:11 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.42	360	83639m	182.0332 ng
85) Cl5(115)		23.53	326	9385m	17.6528 ng
86) Cl6(154)		23.63	360	23477m	56.2254 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.60	326	51412m	122.1967 ng
Corrected Values:				51412	122.1967 ng
89) Cl5(110)		23.87	326E	1179162m	1513.9410 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.30t	323	15023	No Calib
92) Cl5(82)		24.30t	326	22115m	64.7414 ng
Corrected Values:				18810	55.2976 ng
93) Cl6(151)		24.30t	360	70910m	202.5182 ng
94) Cl6(135)		24.40	360	63628m	184.5820 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		24.50	292	45723m	77.3628 ng
Corrected Values:				45723	77.3628 ng
97) Cl6(144)		24.54	360	9512m	27.0610 ng
98) Cl6(149)		24.76	360E	493462m	1080.9744 ng
99) Cl6(139)		24.85	360	8332m	23.9853 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.93	326	25173m	43.4181 ng
Corrected Values:				25173	43.4181 ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		25.14	326	90552m	166.0596 ng
104) Cl6(134)		25.22	360	29789m	103.2142 ng
105) Cl7(188)		25.34	394	829m	3.5625 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.37	326E	759680m	1156.2726 ng
Corrected Values:				759680	1156.2726 ng
109) Cl6(131)		25.41	360	5025m	16.4714 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.70	360	82117m	205.0754 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.73	326	10272m	20.0305 ng
Corrected Values:				10272	20.0305 ng
115) Cl6(153)		25.96	360E	581209m	1145.1847 ng
116) Cl7(179)		26.17	394	17106m	47.2123 ng
117) Cl5(105)-S1	(0.220)	26.34t	323	5096	No Calib
118) Cl5(105)		26.29	326	103985m	195.4688 ng
Corrected Values:				102864	193.5072 ng
119) Cl6(141)		26.34t	360	26079m	80.5284 ng
120) Cl7(176)		26.43	394	3364m	10.1792 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.56	360	18347m	57.0771 ng
124) Cl6(130)		26.69	360	17522m	53.8913 ng
125) Cl6(164)		26.75	360	39871m	92.7258 ng
126) Cl6(138)		26.89	360e	196099m	448.0515 ng
127) Cl6(163)-S1	(0.265)	26.98t	357	1605	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9379.D MF0785.M Tue Mar 17 13:31:05 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9379.D

Vial: 15

Acq On : 15 Mar 2015 12:37 pm

Operator: LMG

Sample : L0528-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:16 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:11 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.92	360e	168590m	382.0903 ng
Corrected Values:				168165	381.2119 ng
129) Cl7(178)		26.98t	394	6791m	25.0129 ng
130) Cl6(158)		27.03	360	58048m	120.3232 ng
131) Cl7(175)		27.16	394	1699m	6.8925 ng
132) Cl7(187)		27.24	394	47317m	148.2493 ng
133) Cl6(166)-S1	(0.265)	27.43	357	1454	No Calib
134) Cl6(166)		27.41t	360	4624m	11.9646 ng
Corrected Values:				4239	11.0675 ng
135) Cl7(183)		27.41t	394	17445m	58.8024 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.73	360	57673m	179.9411 ng
Corrected Values:				57673	179.9411 ng
139) Cl7(185)		27.76	394	1832m	8.1597 ng
140) Cl7(174)		27.87	394	16858m	64.1514 ng
141) Cl6(167)		27.96	360	38864m	92.9932 ng
142) Cl8(202)		28.03	428	2833m	10.9217 ng
143) Cl7(177)		28.13	394	12296m	51.1389 ng
144) Cl8(201)		28.25tw	428	1266m	5.7169 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.26tw	394	8975m	35.2933 ng
Corrected Values:				8975	35.2933 ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		28.48	428	508m	3.2046 ng
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.57	360	48001m	117.8877 ng
Corrected Values:				48001	117.8877 ng
151) Cl7(172)		28.62	394	4826m	20.7501 ng
152) Cl6(157)		28.67	360	12298m	31.2071 ng
153) Cl7(180)		28.81	394	54602m	178.1004 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		28.83	394	6908m	21.9051 ng
Corrected Values:				6908	21.9051 ng
156) Cl8(200)		28.88	428	987m	5.0534 ng
157) Cl7(191)		28.97	394	2083m	7.6374 ng
158) Cl7(170)-S1	(0.309)	29.56tw	391	1518	No Calib
159) Cl7(170)		29.51	394	29986m	133.4895 ng
Corrected Values:				29517	131.6136 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.57tw	428	7210m	41.5228 ng
162) Cl7(190)		29.62	394	9513m	29.8384 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		29.73	360	7445m	24.7139 ng
Corrected Values:				7445	24.7139 ng
165) Cl8(203)		29.75	428	8085m	37.3686 ng
166) Cl9(208)		30.24	464	4049m	20.3826 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		30.44tw	464	765m	5.3114 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

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(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9379.D MF0785.M Tue Mar 17 13:31:05 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9379.D

Vial: 15

Acq On : 15 Mar 2015 12:37 pm

Operator: LMG

Sample : L0528-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:16 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:11 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.45tw	428	2298m	12.9440 ng
Corrected Values:				2298	12.9440 ng
171) Cl8(194)		30.95	428	6646m	42.5594 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.60	464	7387m	54.0768 ng
174) Cl10(209)		32.11	498	5552m	38.3113 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9379.D MF0785.M Tue Mar 17 13:31:05 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9380.D

Vial: 16

Acq On : 15 Mar 2015 1:25 pm

Operator: LMG

Sample : L0528-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:20 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:15 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.14	326	55686m	95.0000	ng
78) Cl6(161)	25.79	360	47737m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.57	222	29591m	25.9486	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222	21989m	18.4880	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256	27536m	51.2965	ng
16) Cl3(17)		14.30	256	12556m	23.7927	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		14.53	222	16433m	17.1409	ng
Corrected Values:				16433	17.1409	ng
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		14.99	256	12760m	17.2109	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.86	256	101459m	128.0598	ng
Corrected Values:				101459	128.0598	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.99	256	55748m	75.1021	ng
33) Cl3(31)-S1	(0.135)	16.36	255	2641	No Calib	
34) Cl3(31)		16.33	256	84841m	109.2588	ng
Corrected Values:				84484	108.8107	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.45	256	78794m	99.4308	ng
37) Cl3(33)		16.57	256	13633m	20.1309	ng
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9380.D MF0785.M Tue Mar 17 13:31:07 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9380.D

Vial: 16

Acq On : 15 Mar 2015 1:25 pm

Operator: LMG

Sample : L0528-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:20 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:15 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		17.04	256	16315m	24.3920 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.67	292	99877m	199.3026 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.88	292	92521m	187.1708 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		18.07	292	30207m	52.1524 ng
Corrected Values:				30207	52.1524 ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		18.52	292	32323m	74.5211 ng
51) Cl4(42)		18.71	292	20574m	48.1252 ng
52) Cl4(71)		18.94	292	11829m	19.9313 ng
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		19.34	292	33035m	51.2931 ng
55) Cl4(40)		0.00	292	0	N.D.
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.60	326	35711m	91.7454 ng
62) Cl4(74)		20.67	292	11855m	19.1110 ng
63) Cl4(70)		20.81	292	17107m	27.0001 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.97t	326	18097m	42.2160 ng
Corrected Values:				18097	42.2160 ng
66) Cl4(66)-S1	(0.174)	20.97t	289	4312	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.00	292	21548m	34.4693 ng
Corrected Values:				20798	33.3404 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.61Tw	326	11638m	28.3293 ng
72) Cl5(84)		21.62Tw	326	8582m	29.8263 ng
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.91	326	39510m	85.8783 ng
79) Cl5(99)		22.18	326	34687m	67.7438 ng
80) Cl5(83)		22.57	326	8424m	23.6253 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.85	326	11107m	26.5881 ng
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9380.D MF0785.M Tue Mar 17 13:31:07 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9380.D

Vial: 16

Acq On : 15 Mar 2015 1:25 pm

Operator: LMG

Sample : L0528-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:20 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:15 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D.
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.83	326	68839m	109.4977 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D.
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		24.73	360	28046m	69.0469 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.33	326	44084m	70.0899 ng
Corrected Values:				44084	70.0899 ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.93	360	33516m	76.3045 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D.
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.86	360	9738m	22.9532 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9380.D MF0785.M Tue Mar 17 13:31:07 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9380.D

Vial: 16

Acq On : 15 Mar 2015 1:25 pm

Operator: LMG

Sample : L0528-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:20 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:15 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.90	360	8406m	18.9653 ng
Corrected Values:				8406	18.9653 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D.
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D.
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D.
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D.
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D.
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D.
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D.
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9380.D MF0785.M Tue Mar 17 13:31:08 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9380.D

Vial: 16

Acq On : 15 Mar 2015 1:25 pm

Operator: LMG

Sample : L0528-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-6-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:20 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:15 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9380.D MF0785.M Tue Mar 17 13:31:08 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9381.D

Vial: 17

Acq On : 15 Mar 2015 2:13 pm

Operator: LMG

Sample : L0531-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:24 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:19 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.16	326	76123m	95.0000	ng
78) Cl6(161)	25.80	360	47554m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.33t	256	290995m	290.6740	ng
Spiked Amount	379.8670			Recovery	= 76.52%
Corrected Values:			290995	290.6740	ng
114) Cl6(152)	22.51	360	167325m	324.3205	ng
Spiked Amount	381.3865			Recovery	= 85.04%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	263373	93.6907	ng
3) Cl1(1)		9.95	188	27058m	13.3783	ng
4) Cl1(3)		11.16	188	90657m	47.1316	ng
5) Cl2(4)		11.44	222e	381807m	391.8649	ng
6) Cl2(7)		12.32	222	35835m	27.9068	ng
7) Cl2(9)		12.29	222	78238m	43.6235	ng
8) Cl2(6)		12.57	222E	1840932m	1220.3744	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222E	1588337m	1044.4544	ng
11) Cl3(19)		13.33	256e	138477m	213.8645	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	
14) Cl2(11)		0.00	222	0	N.D.	
Corrected Values:				0	ng	
15) Cl3(18)		14.19	256E	1857280m	2905.3586	ng
16) Cl3(17)		14.31	256E	802049m	1102.1182	ng
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1 (0.135)		14.54tw	221E	19970	No Calib	
19) Cl2(13)		14.55t	222E	853514m	621.2956	ng
Corrected Values:				850818	619.2191	ng
20) Cl3(27)		14.55t	256E	441272m	436.9204	ng
21) Cl3(24)		0.00	256	0	N.D.	
22) Cl3(16)		14.87	256	83267m	151.6623	ng
23) Cl2(15)		14.93	222E	804096m	478.8085	ng
24) Cl3(32)		15.01	256E	769715m	756.0324	ng
25) Cl4(54)		15.33t	292	8918m	9.4608	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		15.89t	255	13896	No Calib	
30) Cl3(26)		15.89t	256E	4004230m	3049.7687	ng
Corrected Values:				4002354	3048.5516	ng
31) Cl4(50)		15.94	292	9427m	14.3741	ng
32) Cl3(25)		16.01	256E	2493032m	2029.2680	ng
33) Cl3(31)-S1 (0.135)		16.38t	255E	133667	No Calib	
34) Cl3(31)		16.35	256E	4493576m	2959.8147	ng
Corrected Values:				4475531	2950.7042	ng
35) Cl4(53)		16.38t	292E	362294m	523.3441	ng
36) Cl3(28)		16.47	256E	3855507m	2849.2741	ng
37) Cl3(33)		16.58	256e	324354m	321.1633	ng
38) Cl4(51)		16.65	292e	161526m	219.3018	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9381.D MF0785.M Tue Mar 17 13:31:10 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9381.D

Vial: 17

Acq On : 15 Mar 2015 2:13 pm

Operator: LMG

Sample : L0531-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:24 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:19 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.97	292e	127375m	215.5435 ng
40) Cl3(22)		17.06	256E	409447m	404.1331 ng
41) Cl4(46)		17.23	292	68697m	128.3634 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.69	292E	3501365m	3436.2029 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.91	292E	3192494m	3141.1475 ng
46) Cl5(104)		18.09t	326	1232m	2.7999 ng
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.09t	292E	954601m	1155.5245 ng
Corrected Values:				954601	1155.5245 ng
49) Cl4(75)		18.17	292	44023m	46.1705 ng
50) Cl4(44)		18.53	292E	869250m	1118.0492 ng
51) Cl4(42)		18.73	292E	622239m	880.0566 ng
52) Cl4(71)		18.97	292E	594556m	619.1406 ng
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		19.35	292E	1154831m	1041.5344 ng
55) Cl4(40)		19.49	292	81216m	161.1317 ng
56) Cl3(37)-S1	(0.135)	19.43tw	255	54073	No Calib
57) Cl3(37)		19.44tw	256e	249669	242.8772 ng
Corrected Values:				242369	236.0160 ng
58) Cl5(100)		19.80	326	40202m	67.2845 ng
59) Cl4(67)		20.10	292e	188509m	209.8555 ng
60) Cl4(63)		20.50	292	80896m	98.4315 ng
61) Cl5(95)		20.63	326E	932323m	1334.0977 ng
62) Cl4(74)		20.72	292E	578578m	544.3463 ng
63) Cl4(70)		20.85	292E	550049m	550.2829 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		21.02t	326E	508835m	755.8840 ng
Corrected Values:				508835	755.8840 ng
66) Cl4(66)-S1	(0.174)	21.02t	289E	113284	No Calib
67) Cl4(66)-S2	(0.650)	21.02t	288	6647	No Calib
68) Cl4(66)		21.05	292E	664970m	655.4524 ng
Corrected Values:				640938	634.2691 ng
69) Cl6(155)		21.07	360	547m	2.1492 ng
70) Cl4(80)		21.34	292	45722m	55.0065 ng
71) Cl5(92)		21.64T	326E	265611m	404.9550 ng
72) Cl5(84)		21.64T	326E	251914m	410.8287 ng
73) Cl4(56)-S1	(0.174)	21.64t	289E	171488	No Calib
74) Cl4(56)		21.69	292e	267727m	288.2631 ng
Corrected Values:				237888	257.0891 ng
75) Cl4(60)-S1	(0.174)	21.94t	289E	126729	No Calib
76) Cl4(60)		21.96	292	173421m	193.8973 ng
Corrected Values:				151370	170.2713 ng
77) Cl5(101)		21.94t	326E	978001m	1185.5942 ng
79) Cl5(99)		22.22	326E	851794m	1265.4998 ng
80) Cl5(83)		22.60	326E	212515m	504.5700 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.89	326E	297747m	640.8949 ng
83) Cl5(87)		23.35	326e	144837m	312.8478 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9381.D MF0785.M Tue Mar 17 13:31:10 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9381.D

Vial: 17

Acq On : 15 Mar 2015 2:13 pm

Operator: LMG

Sample : L0531-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:24 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:19 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.42	360e	133914m	258.3666 ng
85) Cl5(115)		23.56	326	18253m	29.5575 ng
86) Cl6(154)		23.64	360	37842m	80.3061 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.60	326e	107655m	244.3618 ng
Corrected Values:				107655	244.3618 ng
89) Cl5(110)		23.88	326E	1849588m	1953.4135 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.30t	323e	23276	No Calib
92) Cl5(82)		24.30t	326	44615m	114.7960 ng
Corrected Values:				39494	101.9965 ng
93) Cl6(151)		24.30t	360e	100909m	254.5555 ng
94) Cl6(135)		24.40	360	89040m	229.5374 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		24.50	292	97765m	143.9442 ng
Corrected Values:				97765	143.9442 ng
97) Cl6(144)		24.53	360	18118m	45.0617 ng
98) Cl6(149)		24.76	360E	788681m	1441.4773 ng
99) Cl6(139)		24.88	360	13455m	33.9853 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		24.94	326	33586m	51.3797 ng
Corrected Values:				33586	51.3797 ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		25.14	326	119052m	192.8833 ng
104) Cl6(134)		25.22	360	43794m	134.5831 ng
105) Cl7(188)		25.31	394	1469m	4.7328 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.37	326E	1026255m	1362.6871 ng
Corrected Values:				1026255	1362.6871 ng
109) Cl6(131)		25.41	360	8578m	24.3497 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.70tw	360e	115839m	254.1996 ng
112) Cl5(114)-S1	(0.220)	25.69tw	323E	16398	No Calib
113) Cl5(114)		25.73	326	23815m	39.4501 ng
Corrected Values:				20207	33.7830 ng
115) Cl6(153)		25.96	360E	864024m	1434.4072 ng
116) Cl7(179)		26.17	394	29230m	71.3116 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.30	326e	190372m	307.1431 ng
Corrected Values:				190372	307.1431 ng
119) Cl6(141)		26.34	360	38226m	104.3652 ng
120) Cl7(176)		26.43	394	5538m	14.3965 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.56	360	27606m	75.8595 ng
124) Cl6(130)		26.69	360	29314m	80.6657 ng
125) Cl6(164)		26.75	360	62290m	128.1027 ng
126) Cl6(138)		26.89	360E	271293m	541.5800 ng
127) Cl6(163)-S1	(0.265)	26.98t	357	2436	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9381.D MF0785.M Tue Mar 17 13:31:10 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9381.D

Vial: 17

Acq On : 15 Mar 2015 2:13 pm

Operator: LMG

Sample : L0531-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:24 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:19 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.93	360E	278886m	542.7329 ng
Corrected Values:				278240	541.6216 ng
129) Cl7(178)		26.98t	394	10985m	35.6803 ng
130) Cl6(158)		27.03	360	91351m	168.1004 ng
131) Cl7(175)		27.16	394	2405m	8.5845 ng
132) Cl7(187)		27.25	394	78633m	217.1340 ng
133) Cl6(166) -S1	(0.265)	27.42t	357	2758	No Calib
134) Cl6(166)		27.42t	360	8860m	19.6139 ng
Corrected Values:				8129	18.0996 ng
135) Cl7(183)		27.42t	394	28435m	84.5500 ng
136) Cl5(126)		27.58	326	6160m	14.3305 ng
137) Cl6(128) -S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.73	360	79780m	219.3934 ng
Corrected Values:				79780	219.3934 ng
139) Cl7(185)		27.76	394	2891m	11.0345 ng
140) Cl7(174)		27.87	394	25162m	84.6708 ng
141) Cl6(167)		27.97	360	53110m	112.1152 ng
142) Cl8(202)		28.04	428	4694m	15.3551 ng
143) Cl7(177)		28.13	394	18718m	68.6223 ng
144) Cl8(201)		28.26t	428	2299m	8.3475 ng
145) Cl7(171) -S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.26t	394	13474m	46.8535 ng
Corrected Values:				13474	46.8535 ng
147) Cl7(173)		28.35	394	1150m	6.2015 ng
148) Cl8(197)		28.49	428	535m	3.0998 ng
149) Cl6(156) -S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.58	360	66176m	143.0676 ng
Corrected Values:				66176	143.0676 ng
151) Cl7(172)		28.61	394	6830m	25.7251 ng
152) Cl6(157)		28.68	360	16445m	36.7719 ng
153) Cl7(180)		28.81	394	84088m	238.6901 ng
154) Cl7(193) -S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		28.83	394	11458m	31.6108 ng
Corrected Values:				11458	31.6108 ng
156) Cl8(200)		28.88	428	1419m	5.9842 ng
157) Cl7(191)		28.98	394	3012m	9.3275 ng
158) Cl7(170) -S1	(0.309)	29.56tw	391	1462	No Calib
159) Cl7(170)		29.51	394	40442m	157.6251 ng
Corrected Values:				39990	156.0652 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.57tw	428	9770m	49.9036 ng
162) Cl7(190)		29.63	394	12986m	35.8914 ng
163) Cl6(169) -S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		29.74t	360	9250m	27.1249 ng
Corrected Values:				9250	27.1249 ng
165) Cl8(203)		29.74t	428	12167m	49.5235 ng
166) Cl9(208)		30.24	464	2322m	11.1585 ng
167) Cl7(189)		30.40	394	4490m	17.5134 ng
168) Cl9(207)		30.44tw	464	856m	5.3108 ng
169) Cl8(195) -S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9381.D MF0785.M Tue Mar 17 13:31:11 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9381.D

Vial: 17

Acq On : 15 Mar 2015 2:13 pm

Operator: LMG

Sample : L0531-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:24 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:19 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.45tw	428	3098m	15.3152 ng
Corrected Values:				3098	15.3152 ng
171) Cl8(194)		30.94	428	9751m	54.6229 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.60	464	4952m	33.4274 ng
174) Cl10(209)		32.10	498	1346m	9.2798 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9381.D MF0785.M Tue Mar 17 13:31:11 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9382.D

Vial: 18

Acq On : 15 Mar 2015 3:01 pm

Operator: LMG

Sample : L0531-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:28 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:23 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	62884m	95.0000	ng
78) Cl6(161)	25.78	360	52356m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		11.43	222	44581m	55.9726	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.56	222	210698m	160.2431	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222	183537m	131.4981	ng
11) Cl3(19)		13.33	256	15219m	28.9013	ng
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.18	256e	209268m	343.9698	ng
16) Cl3(17)		14.29	256	97909m	159.2227	ng
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1	(0.135)	14.53t	221	2799	No Calib	
19) Cl2(13)		14.53t	222	96859m	82.7563	ng
Corrected Values:				96481	82.4377	ng
20) Cl3(27)		14.53t	256	51095m	58.8938	ng
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		14.92	222	90760m	67.7610	ng
24) Cl3(32)		14.99	256	85519m	98.1812	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.87	256E	441706m	478.2548	ng
Corrected Values:				441706	478.2548	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.99	256e	293657m	337.6312	ng
33) Cl3(31)-S1	(0.135)	16.37t	255	15854	No Calib	
34) Cl3(31)		16.33	256E	504515m	537.1388	ng
Corrected Values:				502375	535.0205	ng
35) Cl4(53)		16.37t	292	41633m	71.2620	ng
36) Cl3(28)		16.45	256E	467498m	499.4594	ng
37) Cl3(33)		16.56	256	37097m	46.5209	ng
38) Cl4(51)		16.63	292	18288m	30.4736	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9382.D MF0785.M Tue Mar 17 13:31:13 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9382.D

Vial: 18

Acq On : 15 Mar 2015 3:01 pm

Operator: LMG

Sample : L0531-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:28 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:23 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.96	292	13061m	28.1311 ng
40) Cl3(22)		17.05	256	45330m	57.5238 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.67	292E	398339m	656.7827 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.88	292E	368556m	613.7465 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.07	292	119261m	180.3911 ng
Corrected Values:				119261	180.3911 ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		18.52	292	101116m	197.8029 ng
51) Cl4(42)		18.71	292	73201m	146.2693 ng
52) Cl4(71)		18.94	292	66860m	93.0345 ng
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		19.33	292	135004m	178.2803 ng
55) Cl4(40)		0.00	292	0	N.D.
56) Cl3(37)-S1	(0.135)	19.41t	255	5336	No Calib
57) Cl3(37)		19.41t	256	28560m	36.0801 ng
Corrected Values:				27840	35.2217 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		20.07	292	21248m	31.9982 ng
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.61	326	106791m	233.4218 ng
62) Cl4(74)		20.67	292	72153m	93.5972 ng
63) Cl4(70)		20.81	292	60095m	79.8360 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.98tw	326	57470m	115.1698 ng
Corrected Values:				57470	115.1698 ng
66) Cl4(66)-S1	(0.174)	20.97tw	289	12735	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.01	292	75530m	101.7707 ng
Corrected Values:				73314	98.8949 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.62T	326	32435m	66.8426 ng
72) Cl5(84)		21.62T	326	26302m	75.6734 ng
73) Cl4(56)-S1	(0.174)	21.62t	289	19007	No Calib
74) Cl4(56)		21.66	292	29515m	41.2272 ng
Corrected Values:				26208	36.8669 ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.92	326	110042m	203.1489 ng
79) Cl5(99)		22.18	326	97547m	167.9891 ng
80) Cl5(83)		22.57	326	23436m	58.6938 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.87	326	32575m	68.1024 ng
83) Cl5(87)		23.32	326	15396m	34.9259 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9382.D MF0785.M Tue Mar 17 13:31:13 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9382.D

Vial: 18

Acq On : 15 Mar 2015 3:01 pm

Operator: LMG

Sample : L0531-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:28 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:23 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.40	360	14649m	26.5631 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D.
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.57	326	7542m	15.2346 ng
Corrected Values:				7542	15.2346 ng
89) Cl5(110)		23.84	326e	209376m	287.9380 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		24.27	360	10686m	26.4540 ng
94) Cl6(135)		0.00	360	0	N.D.
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.74	360	88311m	190.9214 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.33	326	115792m	163.2643 ng
Corrected Values:				115792	163.2643 ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.67	360	12264m	27.6744 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.93	360	95723m	191.6592 ng
116) Cl7(179)		0.00	394	0	N.D.
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.27	326	20716m	34.8721 ng
Corrected Values:				20716	34.8721 ng
119) Cl6(141)		0.00	360	0	N.D.
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.86	360	27310m	56.6901 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9382.D MF0785.M Tue Mar 17 13:31:13 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9382.D

Vial: 18

Acq On : 15 Mar 2015 3:01 pm

Operator: LMG

Sample : L0531-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:28 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:23 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.91	360	30888m	62.0456 ng
Corrected Values:				30888	62.0456 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9382.D MF0785.M Tue Mar 17 13:31:13 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9382.D

Vial: 18

Acq On : 15 Mar 2015 3:01 pm

Operator: LMG

Sample : L0531-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:28 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:23 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9382.D MF0785.M Tue Mar 17 13:31:13 2015

040221CFS

Page 5

Data File : G:\F\DATA\SF0786\F9383.D

Vial: 19

Acq On : 15 Mar 2015 3:49 pm

Operator: LMG

Sample : L0534-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-7B-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:32 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:27 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.14	326	67731m	95.0000	ng
78) Cl6(161)	25.79	360	51603m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.32tw	256	297674m	333.4758	ng
Spiked Amount	379.8670			Recovery	= 87.79%
Corrected Values:			297674	333.4758	ng
114) Cl6(152)	22.48	360	195219m	347.6400	ng
Spiked Amount	381.3865			Recovery	= 91.15%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	74682m	29.6106	ng
3) Cl1(1)		9.94	188	13391m	7.5869	ng
4) Cl1(3)		11.16	188	25807m	15.6177	ng
5) Cl2(4)		11.43	222	119813m	139.0410	ng
6) Cl2(7)		12.33	222	11259m	10.2522	ng
7) Cl2(9)		12.29	222	20734m	13.8012	ng
8) Cl2(6)		12.56	222e	415217m	294.5917	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222e	449192m	303.4963	ng
11) Cl3(19)		13.33	256	37994m	66.2066	ng
12) Cl3(30)		0.00	256	0	N.D. d	
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D. d	
14) Cl2(11)		14.17tw	222	100996m	78.0630	ng
Corrected Values:				100996	78.0630	ng
15) Cl3(18)		14.18tw	256E	474704m	738.4551	ng
16) Cl3(17)		14.29	256e	236923m	358.5915	ng
17) Cl2(12)		0.00	222	0	N.D. d	
18) Cl2(13)-S1 (0.135)		14.54tw	221	5961	No Calib	
19) Cl2(13)		14.53t	222	256405m	203.0609	ng
Corrected Values:				255600	202.4172	ng
20) Cl3(27)		14.53t	256	122161m	130.5655	ng
21) Cl3(24)		0.00	256	0	N.D. d	
22) Cl3(16)		14.86	256	23971m	49.6129	ng
23) Cl2(15)		14.92	222	300303m	204.1404	ng
24) Cl3(32)		15.00	256e	240038m	257.0129	ng
25) Cl4(54)		15.33tw	292	3674m	4.6749	ng
28) Cl3(29)		0.00	256	0	N.D. d	
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D. d	
30) Cl3(26)		15.87	256E	1125352m	1085.4572	ng
Corrected Values:				1125352	1085.4572	ng
31) Cl4(50)		15.92	292	1676m	3.8203	ng
32) Cl3(25)		15.99	256E	748755m	766.0795	ng
33) Cl3(31)-S1 (0.135)		16.37t	255e	50937	No Calib	
34) Cl3(31)		16.34	256E	1359871m	1226.4397	ng
Corrected Values:				1352995	1221.0670	ng
35) Cl4(53)		16.37t	292e	141576m	224.8853	ng
36) Cl3(28)		16.45	256E	1345344m	1254.9132	ng
37) Cl3(33)		16.56	256	142137m	160.7043	ng
38) Cl4(51)		16.63	292	68980m	104.3655	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9383.D MF0785.M Tue Mar 17 13:31:15 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9383.D

Vial: 19

Acq On : 15 Mar 2015 3:49 pm

Operator: LMG

Sample : L0534-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-7B-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:32 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:27 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units	
39) Cl4(45)		16.96	292	28011m	55.0712 ng	
40) Cl3(22)		17.04	256	150202m	171.6292 ng	
41) Cl4(46)		17.21	292	23117m	49.5269 ng	
42) Cl4(43)		0.00	292	0	N.D.	
43) Cl4(52)		17.67	292E	1221213m	1642.6964 ng	
44) Cl4(48)		0.00	292	0	N.D.	
45) Cl4(49)		17.89	292E	1225047m	1631.6668 ng	
46) Cl5(104)		18.07t	326	709	2.2801 ng	#
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d	
48) Cl4(47)		18.07t	292E	407828m	565.0016 ng	
Corrected Values:				407828	565.0016 ng	
49) Cl4(75)		18.14	292	32657m	38.7642 ng	
50) Cl4(44)		18.52	292E	274029m	462.7772 ng	
51) Cl4(42)		18.72	292e	190200m	337.3809 ng	
52) Cl4(71)		18.95	292e	249621m	307.8244 ng	
53) Cl4(41)		0.00	292	0	N.D.	
54) Cl4(64)		19.34	292e	335303m	390.4909 ng	
55) Cl4(40)		19.47	292	39050m	87.5907 ng	
56) Cl3(37)-S1	(0.135)	19.41t	255	12761	No Calib	
57) Cl3(37)		19.41t	256	127105	141.4073 ng	
Corrected Values:				125382	139.5460 ng	
58) Cl5(100)		19.78	326	20652m	39.5639 ng	
59) Cl4(67)		20.07	292	70508m	93.1812 ng	
60) Cl4(63)		20.47	292	25903m	37.3599 ng	
61) Cl5(95)		20.61	326E	321852m	600.0427 ng	
62) Cl4(74)		20.69	292e	229951m	261.7843 ng	
63) Cl4(70)		20.82	292e	235443m	277.1021 ng	
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.	
65) Cl5(91)		20.99tw	326e	188681m	336.4906 ng	
Corrected Values:				188681	336.4906 ng	
66) Cl4(66)-S1	(0.174)	20.98tw	289e	42154	No Calib	
67) Cl4(66)-S2	(0.650)	20.96	288	3799	No Calib	
68) Cl4(66)		21.02	292e	295136m	347.2510 ng	
Corrected Values:				285332	336.4721 ng	
69) Cl6(155)		0.00	360	0	N.D. d	
70) Cl4(80)		21.33	292	9763m	14.7798 ng	
71) Cl5(92)		21.62T	326	109794m	199.3326 ng	
72) Cl5(84)		21.62T	326	77115m	180.1847 ng	
73) Cl4(56)-S1	(0.174)	21.62t	289	58959	No Calib	
74) Cl4(56)		21.67	292	100346m	124.4858 ng	
Corrected Values:				90087	112.1060 ng	
75) Cl4(60)-S1	(0.174)	21.92t	289E	52762	No Calib	
76) Cl4(60)		21.93tw	292	57710m	75.4178 ng	
Corrected Values:				48529	63.8617 ng	
77) Cl5(101)		21.92t	326E	396231m	611.8825 ng	
79) Cl5(99)		22.19	326E	377060m	593.9234 ng	
80) Cl5(83)		22.57	326	94629m	226.2206 ng	
81) Cl5(125)		0.00	326	0	N.D.	
82) Cl5(97)		22.87	326e	113432m	233.3315 ng	
83) Cl5(87)		23.33	326	41922m	93.1147 ng	

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9383.D MF0785.M Tue Mar 17 13:31:15 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9383.D

Vial: 19

Acq On : 15 Mar 2015 3:49 pm

Operator: LMG

Sample : L0534-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-7B-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:32 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:27 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.41	360	52586m	95.1985 ng
85) Cl5(115)		23.53	326	8084m	12.9070 ng
86) Cl6(154)		23.61	360	19632m	39.1928 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.58	326	33554m	64.3622 ng
Corrected Values:				33554	64.3622 ng
89) Cl5(110)		23.85	326E	715176m	866.3125 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.28t	323	9269	No Calib
92) Cl5(82)		24.28t	326	13568m	33.3190 ng
Corrected Values:				11529	28.4588 ng
93) Cl6(151)		24.29tw	360	41336m	99.7466 ng
94) Cl6(135)		24.37	360	37516m	91.0632 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.48	292	37084m	52.5250 ng
Corrected Values:				37084	52.5250 ng
97) Cl6(144)		24.53	360	4559m	11.5156 ng
98) Cl6(149)		24.74	360E	342475m	671.9405 ng
99) Cl6(139)		24.85	360	5841m	14.3985 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.90	326	13345m	19.9660 ng
Corrected Values:				13345	19.9660 ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		25.12	326	50114m	78.8943 ng
104) Cl6(134)		25.20	360	16741m	48.7918 ng
105) Cl7(188)		25.31	394	903m	3.3556 ng
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.34	326E	442394m	594.0480 ng
Corrected Values:				442394	594.0480 ng
109) Cl6(131)		25.41	360	9307m	24.3463 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.68	360	53065m	113.0554 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D.
Corrected Values:				0	ng
115) Cl6(153)		25.94	360E	389196m	696.8501 ng
116) Cl7(179)		26.15	394	13139m	30.2523 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		26.28	326	69534m	111.5210 ng
Corrected Values:				69534	111.5210 ng
119) Cl6(141)		26.33	360	14276m	37.7109 ng
120) Cl7(176)		26.42	394	2211m	6.0676 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.54	360	11569m	30.4900 ng
124) Cl6(130)		26.68	360	10864m	27.7822 ng
125) Cl6(164)		26.74	360	25216m	49.2097 ng
126) Cl6(138)		26.87	360	109313m	218.0656 ng
127) Cl6(163)-S1	(0.265)	26.95tw	357	1494	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9383.D MF0785.M Tue Mar 17 13:31:15 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9383.D

Vial: 19

Acq On : 15 Mar 2015 3:49 pm

Operator: LMG

Sample : L0534-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-7B-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:32 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:27 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.92	360e	123926m	239.9403 ng
Corrected Values:				123530	239.2195 ng
129) Cl7(178)		26.96tw	394	5603m	17.3237 ng
130) Cl6(158)		27.01	360	36950m	64.0236 ng
131) Cl7(175)		27.16	394	1051m	3.7496 ng
132) Cl7(187)		27.22	394	39650m	103.4119 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		27.41tw	360	3281m	7.4799 ng
Corrected Values:				3281	7.4799 ng
135) Cl7(183)		27.40tw	394	12794m	36.2899 ng
136) Cl5(126)		27.56	326	1588m	4.6204 ng
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.71	360	33855m	90.1489 ng
Corrected Values:				33855	90.1489 ng
139) Cl7(185)		27.74	394	1296m	5.2262 ng
140) Cl7(174)		27.86	394	10186m	32.9579 ng
141) Cl6(167)		27.95	360	24630m	50.4150 ng
142) Cl8(202)		28.02	428	2511m	8.4273 ng
143) Cl7(177)		28.12	394	7786m	27.6185 ng
144) Cl8(201)		28.24tw	428	1024m	4.3046 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.25tw	394	5289m	17.7007 ng
Corrected Values:				5289	17.7007 ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.56	360	29312m	61.8031 ng
Corrected Values:				29312	61.8031 ng
151) Cl7(172)		28.60	394	3125m	11.9327 ng
152) Cl6(157)		28.66	360	7155m	16.2879 ng
153) Cl7(180)		28.79	394	37653m	104.8107 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		28.83	394	4078m	11.5013 ng
Corrected Values:				4078	11.5013 ng
156) Cl8(200)		28.86	428	705m	3.7060 ng
157) Cl7(191)		28.96	394	1367m	4.9730 ng
158) Cl7(170)-S1	(0.309)	29.56tw	391	845	No Calib
159) Cl7(170)		29.50	394	18196m	70.6827 ng
Corrected Values:				17935	69.7368 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.55tw	428	5480m	26.5353 ng
162) Cl7(190)		29.61	394	6157m	16.8800 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		29.73t	360	5379m	15.7784 ng
Corrected Values:				5379	15.7784 ng
165) Cl8(203)		29.73t	428	6612m	25.7456 ng
166) Cl9(208)		30.24	464	1305m	6.4382 ng
167) Cl7(189)		30.38	394	1458m	6.6909 ng
168) Cl9(207)		30.43	464	483m	3.8849 ng
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
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 F9383.D MF0785.M Tue Mar 17 13:31:15 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9383.D

Vial: 19

Acq On : 15 Mar 2015 3:49 pm

Operator: LMG

Sample : L0534-P(2)

Inst : Inst. F

Misc : S-14D-2014-31-7B-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:32 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:27 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.45	428	1684m	8.3395 ng
Corrected Values:				1684	8.3395 ng
171) Cl8(194)		30.93	428	4944m	27.1410 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.58	464	2756m	17.8944 ng
174) Cl10(209)		32.09	498	679m	4.8678 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9383.D MF0785.M Tue Mar 17 13:31:15 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9384.D

Vial: 20

Acq On : 15 Mar 2015 4:38 pm

Operator: LMG

Sample : L0534-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-7B-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:36 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:31 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	70036m	95.0000	ng
78) Cl6(161)	25.78	360	56200m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)	0.00	256	0d	0.0000	ng
Spiked Amount 18.9997				Recovery =	0.00%
Corrected Values:			0	0.0000	ng
114) Cl6(152)	0.00	360	0d	0.0000	ng
Spiked Amount 19.0757				Recovery =	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	d
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		12.56	222	24456m	17.3352	ng
9) Cl2(5)		0.00	222	0	N.D.	d
10) Cl2(8)		12.86	222	26638m	17.8460	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256	28511m	42.4100	ng
16) Cl3(17)		14.29	256	13757m	20.8497	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		14.99	256	13974m	15.1015	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.	d
30) Cl3(26)		15.86	256	68909m	70.0783	ng
Corrected Values:				68909	70.0783	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.99	256	43925m	47.5762	ng
33) Cl3(31)-S1 (0.135)		16.36t	255	3244	No Calib	
34) Cl3(31)		16.33	256	82077m	84.5977	ng
Corrected Values:				81639	84.1575	ng
35) Cl4(53)		16.36t	292	8033m	13.4161	ng
36) Cl3(28)		16.44	256	79035m	79.7239	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9384.D MF0785.M Tue Mar 17 13:31:17 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9384.D

Vial: 20

Acq On : 15 Mar 2015 4:38 pm

Operator: LMG

Sample : L0534-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-7B-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:36 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:31 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.66	292	71074m	114.6410 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.87	292	71195m	116.2871 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.07	292	23149m	31.9906 ng
Corrected Values:				23149	31.9906 ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		18.51	292	15804m	29.9518 ng
51) Cl4(42)		18.71	292	11197m	21.5200 ng
52) Cl4(71)		18.94	292	14279m	19.1880 ng
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		19.33	292	18325m	23.1635 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.60	326	18464m	38.7582 ng
62) Cl4(74)		20.67	292	12065m	15.8041 ng
63) Cl4(70)		20.81	292	13101m	17.1087 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.97t	326	10991m	21.0761 ng
Corrected Values:				10991	21.0761 ng
66) Cl4(66)-S1	(0.174)	20.97t	289	2548	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.00	292	16786m	22.0962 ng
Corrected Values:				16343	21.5634 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.91	326	22614m	40.4639 ng
79) Cl5(99)		22.18	326	22261m	37.6410 ng
80) Cl5(83)		0.00	326	0	N.D.
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.86	326	6360m	13.7957 ng
83) Cl5(87)		0.00	326	0	N.D. d

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9384.D MF0785.M Tue Mar 17 13:31:17 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9384.D

Vial: 20

Acq On : 15 Mar 2015 4:38 pm

Operator: LMG

Sample : L0534-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-7B-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:36 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:31 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D.
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.84	326	40723m	56.3470 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.72	360	19474m	41.3586 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.32	326	24901m	34.7512 ng
Corrected Values:				24901	34.7512 ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.92	360	23169m	45.4659 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D.
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9384.D MF0785.M Tue Mar 17 13:31:17 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9384.D

Vial: 20

Acq On : 15 Mar 2015 4:38 pm

Operator: LMG

Sample : L0534-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-7B-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:36 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:31 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.90	360	6349m	12.3053 ng
Corrected Values:				6349	12.3053 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9384.D MF0785.M Tue Mar 17 13:31:17 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9384.D

Vial: 20

Acq On : 15 Mar 2015 4:38 pm

Operator: LMG

Sample : L0534-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-31-7B-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:24:36 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:24:31 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9384.D MF0785.M Tue Mar 17 13:31:17 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9387.D

Vial: 23

Acq On : 15 Mar 2015 7:02 pm

Operator: LMG

Sample : M5096-P(2)

Inst : Inst. F

Misc : S-14L-34-29-30-34 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:33 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:26 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.21	326	67307m	95.0000	ng
78) Cl6(161)	25.93	360	58083m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	15.36	256	295238m	332.8406	ng
Spiked Amount	379.8670			Recovery	= 87.62%
Corrected Values:			295238	332.8406	ng
114) Cl6(152)	22.63	360	193476m	307.6953	ng
Spiked Amount	381.3865			Recovery	= 80.68%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.77	154E	2105966	993.9887	ng
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	
5) Cl2(4)		0.00	222	0	N.D.	
6) Cl2(7)		12.32	222	541	1.1109	ng #
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		12.59	222	75160m	53.6710	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.88	222	52649m	35.6407	ng
11) Cl3(19)		0.00	256	0	N.D.	
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.21	256	93601m	142.8974	ng
16) Cl3(17)		14.33	256	44184m	67.5116	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	d
19) Cl2(13)		14.57	222	39409m	32.3761	ng
Corrected Values:				39409	32.3761	ng
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	
22) Cl3(16)		14.89	256	17004m	35.5670	ng
23) Cl2(15)		14.95	222	40112m	28.8247	ng
24) Cl3(32)		15.02	256	24468m	26.7896	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.	d
30) Cl3(26)		15.91	256e	313575m	321.0373	ng
Corrected Values:				313575	321.0373	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		16.03	256	153885m	168.5889	ng
33) Cl3(31)-S1 (0.135)		0.00	255	0	N.D.	d
34) Cl3(31)		16.38	256e	291243m	299.9516	ng
Corrected Values:				291243	299.9516	ng
35) Cl4(53)		16.41	292	14564m	24.1204	ng
36) Cl3(28)		16.50	256e	265109m	270.3221	ng
37) Cl3(33)		16.61	256	79314m	91.2860	ng
38) Cl4(51)		0.00	292	0	N.D.	

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9387.D MF0785.M Wed Mar 25 09:53:35 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9387.D
 Acq On : 15 Mar 2015 7:02 pm
 Sample : M5096-P(2)
 Misc : S-14L-34-29-30-34 5-315 15-0072
 MS Integration Params: rteint.p

Vial: 23
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:27:33 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:27:26 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.91	292	39230m	77.0684 ng
40) Cl3(22)		17.11	256	92019m	107.1309 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.74	292E	299351m	473.4741 ng
44) Cl4(48)		17.90	292	30064m	50.3319 ng
45) Cl4(49)		17.95	292e	256968m	413.1209 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.15	292	86490m	122.6013 ng
Corrected Values:				86490	122.6013 ng
49) Cl4(75)		18.22	292	10961m	14.2571 ng
50) Cl4(44)		18.58	292e	154967m	276.8407 ng
51) Cl4(42)		18.80	292	71109m	133.2222 ng
52) Cl4(71)		19.03	292	24435m	33.0060 ng
53) Cl4(41)		19.19	292	19764m	44.4827 ng
54) Cl4(64)		19.42	292	107720m	134.4742 ng
55) Cl4(40)		19.58	292	15802m	36.4326 ng
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		19.50	256	37981m	44.3273 ng
Corrected Values:				37981	44.3273 ng
58) Cl5(100)		19.87	326	2544m	5.7939 ng
59) Cl4(67)		20.19	292	33905m	46.7006 ng
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.71	326e	129365m	262.2916 ng
62) Cl4(74)		20.81	292	72202m	87.7532 ng
63) Cl4(70)		20.94	292	93351m	114.4804 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		21.10	326	64745m	121.0446 ng
Corrected Values:				64745	121.0446 ng
66) Cl4(66)-S1	(0.174)	21.08t	289	18128	No Calib
67) Cl4(66)-S2	(0.650)	21.08t	288	29894	No Calib
68) Cl4(66)		21.14	292	127875m	158.1334 ng
Corrected Values:				105290	131.2236 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		21.42	292	19248m	27.4050 ng
71) Cl5(92)		21.73Tw	326	48156m	91.4793 ng
72) Cl5(84)		21.74t	326	35762m	93.7858 ng
73) Cl4(56)-S1	(0.174)	21.74t	289	26788	No Calib
74) Cl4(56)		21.80	292	41448m	53.3516 ng
Corrected Values:				36787	47.6218 ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		22.05t	292	28208m	38.3163 ng
Corrected Values:				28208	38.3163 ng
77) Cl5(101)		22.05t	326e	173460m	291.8511 ng
79) Cl5(99)		22.36	326e	145090m	221.9689 ng
80) Cl5(83)		0.00	326	0	N.D.
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		23.01	326	56370m	104.9949 ng
83) Cl5(87)		23.46	326	35262m	70.4760 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9387.D MF0785.M Wed Mar 25 09:53:35 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9387.D

Vial: 23

Acq On : 15 Mar 2015 7:02 pm

Operator: LMG

Sample : M5096-P(2)

Inst : Inst. F

Misc : S-14L-34-29-30-34 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:33 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:26 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.53	360	18598m	30.3378 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		23.77	360	4853m	9.8155 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.72	326	11922m	21.0325 ng
Corrected Values:				11922	21.0325 ng
89) Cl5(110)		0.00	326	0	N.D. d
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		24.42	360	17938m	39.4770 ng
94) Cl6(135)		24.51	360	15335m	34.1063 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.88	360e	122625m	236.2127 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.48	326e	213107m	266.0600 ng
Corrected Values:				213107	266.0600 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.83	360	22235m	44.0088 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		26.07	360e	158903m	280.0136 ng
116) Cl7(179)		26.27	394	4572m	9.9315 ng
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.40	326	55770m	80.8149 ng
Corrected Values:				55770	80.8149 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		26.52	394	1266m	3.6837 ng
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		26.86	360	22320m	38.9971 ng
126) Cl6(138)		26.98	360	71963m	130.7966 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9387.D MF0785.M Wed Mar 25 09:53:36 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9387.D

Vial: 23

Acq On : 15 Mar 2015 7:02 pm

Operator: LMG

Sample : M5096-P(2)

Inst : Inst. F

Misc : S-14L-34-29-30-34 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:33 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:26 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		27.02	360	54918m	98.2748 ng
Corrected Values:				54918	98.2748 ng
129) Cl7(178)		27.08	394	1907m	5.9457 ng
130) Cl6(158)		27.15	360	19780m	31.3469 ng
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		27.36	394	13442m	32.3734 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		27.53	394	5597m	15.1679 ng
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.83	360	19038m	46.3151 ng
Corrected Values:				19038	46.3151 ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		28.13	428	3823m	10.8033 ng
143) Cl7(177)		28.24	394	4879m	16.1391 ng
144) Cl8(201)		28.36	428	705m	3.2105 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		28.70	360	15350m	28.7219 ng
153) Cl7(180)		28.91	394	22114m	56.4630 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		29.67	428	6255m	26.8899 ng
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		29.85	428	4976m	17.7449 ng
166) Cl9(208)		30.33	464	3426m	13.1851 ng
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9387.D MF0785.M Wed Mar 25 09:53:36 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9387.D

Vial: 23

Acq On : 15 Mar 2015 7:02 pm

Operator: LMG

Sample : M5096-P(2)

Inst : Inst. F

Misc : S-14L-34-29-30-34 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:33 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:26 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.71	464	5647m	31.3373 ng
174) Cl10(209)		32.19	498	2940m	15.7226 ng

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9387.D MF0785.M Wed Mar 25 09:53:36 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0786\F9388.D

Vial: 24

Acq On : 15 Mar 2015 7:50 pm

Operator: LMG

Sample : M5096-P-D(4)

Inst : Inst. F

Misc : S-14L-34-29-30-34 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.14	326	63549m	95.0000	ng
78) Cl6(161)	25.79	360	53377m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)	0.00	256	0d	0.0000	ng
Spiked Amount	18.9997		Recovery	=	0.00%
Corrected Values:			0	0.0000	ng
114) Cl6(152)	0.00	360	0d	0.0000	ng
Spiked Amount	19.0757		Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	111356m	47.1363	ng
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	d
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	d
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		0.00	256	0	N.D.	d
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.	d
30) Cl3(26)		15.87	256	16319m	19.3994	ng
Corrected Values:				16319	19.3994	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		0.00	256	0	N.D.	d
33) Cl3(31)-S1 (0.135)		0.00	255	0	N.D.	d
34) Cl3(31)		16.33	256	15623m	18.7901	ng
Corrected Values:				15623	18.7901	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.44	256	15457m	18.4110	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9388.D MF0785.M Wed Mar 25 09:54:18 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9388.D

Vial: 24

Acq On : 15 Mar 2015 7:50 pm

Operator: LMG

Sample : M5096-P-D(4)

Inst : Inst. F

Misc : S-14L-34-29-30-34 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.67	292	15470m	28.6390 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.88	292	13966m	26.3284 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		0.00	292	0	N.D. d
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.52	292	8672m	18.5690 ng
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.60	326	6409m	15.4931 ng
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D. d
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.92	326	8812m	18.4393 ng
79) Cl5(99)		22.18	326	7932m	14.7976 ng
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9388.D MF0785.M Wed Mar 25 09:54:19 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9388.D

Vial: 24

Acq On : 15 Mar 2015 7:50 pm

Operator: LMG

Sample : M5096-P-D(4)

Inst : Inst. F

Misc : S-14L-34-29-30-34 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		0.00	326	0	N.D.
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		24.73	360	5618m	13.2604 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D. d
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.34	326	10223m	16.1136 ng
Corrected Values:				10223	16.1136 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D. d
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.93	360	7464m	16.0090 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D. d
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D. d
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9388.D MF0785.M Wed Mar 25 09:54:19 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9388.D

Vial: 24

Acq On : 15 Mar 2015 7:50 pm

Operator: LMG

Sample : M5096-P-D(4)

Inst : Inst. F

Misc : S-14L-34-29-30-34 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9388.D MF0785.M Wed Mar 25 09:54:20 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9388.D

Vial: 24

Acq On : 15 Mar 2015 7:50 pm

Operator: LMG

Sample : M5096-P-D(4)

Inst : Inst. F

Misc : S-14L-34-29-30-34 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:37 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:32 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9388.D MF0785.M Wed Mar 25 09:54:20 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0786\F9389.D

Vial: 25

Acq On : 15 Mar 2015 8:38 pm

Operator: LMG

Sample : L0122-P-D(4)

Inst : Inst. F

Misc : S-14N-PCC15-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:42 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	68022m	95.0000	ng
78) Cl6(161)	25.78	360	55699m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256	12279m	19.4095	ng
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.86	256	31545m	33.8596	ng
Corrected Values:				31545	33.8596	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.98	256	20610m	23.5901	ng
33) Cl3(31)-S1	(0.135)	16.36	255	1422	No Calib	
34) Cl3(31)		16.33	256	35260m	38.2874	ng
Corrected Values:				35068	38.0861	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.45	256	36091m	38.3822	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9389.D MF0785.M Tue Mar 17 13:31:26 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9389.D

Vial: 25

Acq On : 15 Mar 2015 8:38 pm

Operator: LMG

Sample : L0122-P-D(4)

Inst : Inst. F

Misc : S-14N-PCC15-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:42 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.66	292	33791m	57.1281 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.87	292	31345m	53.8333 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		0.00	292	0	N.D. d
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		0.00	292	0	N.D.
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.59	326	9796m	21.6875 ng
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.90	326	11607m	22.2799 ng
79) Cl5(99)		22.17	326	11180m	19.6300 ng
80) Cl5(83)		0.00	326	0	N.D.
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D.

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9389.D MF0785.M Tue Mar 17 13:31:26 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9389.D

Vial: 25

Acq On : 15 Mar 2015 8:38 pm

Operator: LMG

Sample : L0122-P-D(4)

Inst : Inst. F

Misc : S-14N-PCC15-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:42 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.82	326	20660m	29.5752 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.72	360	9080m	20.0237 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.32	326	12881m	19.0639 ng
Corrected Values:				12881	19.0639 ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D.
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.92	360	9778m	19.8976 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9389.D MF0785.M Tue Mar 17 13:31:26 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9389.D
 Acq On : 15 Mar 2015 8:38 pm
 Sample : L0122-P-D(4)
 Misc : S-14N-PCC15-00-05 5-315 15-0072
 MS Integration Params: rteint.p

Vial: 25
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:27:42 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:27:36 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D.
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D.
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D.
136) Cl5(126)		0.00	326	0	N.D.
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D.
141) Cl6(167)		0.00	360	0	N.D.
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D.
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D.
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D.
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D.
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D.
166) Cl9(208)		0.00	464	0	N.D.
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9389.D MF0785.M Tue Mar 17 13:31:26 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9389.D

Vial: 25

Acq On : 15 Mar 2015 8:38 pm

Operator: LMG

Sample : L0122-P-D(4)

Inst : Inst. F

Misc : S-14N-PCC15-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:42 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9389.D MF0785.M Tue Mar 17 13:31:26 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9390.D

Vial: 26

Acq On : 15 Mar 2015 9:26 pm

Operator: LMG

Sample : L0125-P-D(4)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:45 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:40 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	67615m	95.0000	ng
78) Cl6(161)	25.77	360	53879m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		11.43	222	59204m	69.0506	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.56	222	239648m	169.5425	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222	199354m	132.8464	ng
11) Cl3(19)		13.32	256	16562m	29.2437	ng
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256e	184370m	281.1204	ng
16) Cl3(17)		14.29	256	84725m	128.2152	ng
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1	(0.135)	14.53t	221	1939	No Calib	
19) Cl2(13)		14.53t	222	86483m	68.9271	ng
Corrected Values:				86221	68.7222	ng
20) Cl3(27)		14.53t	256	51200m	54.9402	ng
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		14.91	222	68490m	48.0022	ng
24) Cl3(32)		14.99	256	82763m	88.4044	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	15.98t	255	483	No Calib	
30) Cl3(26)		15.86	256e	319423m	325.4193	ng
Corrected Values:				319358	325.3548	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.98t	256e	207435m	224.6224	ng
33) Cl3(31)-S1	(0.135)	16.36tw	255	13096	No Calib	
34) Cl3(31)		16.33	256e	360665m	366.0715	ng
Corrected Values:				358897	364.3695	ng
35) Cl4(53)		16.37tw	292	36642m	58.5180	ng
36) Cl3(28)		16.44	256e	321708m	324.7764	ng
37) Cl3(33)		16.55	256	17538m	21.2465	ng
38) Cl4(51)		16.62	292	15991m	25.0146	ng

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(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9390.D MF0785.M Tue Mar 17 13:31:28 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9390.D

Vial: 26

Acq On : 15 Mar 2015 9:26 pm

Operator: LMG

Sample : L0125-P-D(4)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:45 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:40 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		17.04	256	24326m	29.5794 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.66	292e	261209m	414.8572 ng
44) Cl4(48)		17.82	292	6612m	11.9735 ng
45) Cl4(49)		17.87	292e	228270m	368.1054 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.06	292	73404m	103.7143 ng
Corrected Values:				73404	103.7143 ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		18.52	292	60442m	113.0031 ng
51) Cl4(42)		18.70	292	39104m	74.3312 ng
52) Cl4(71)		18.94	292	50837m	66.4913 ng
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		19.33	292	60038m	75.9752 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.59	326	56384m	118.2632 ng
62) Cl4(74)		20.66	292	24170m	30.8322 ng
63) Cl4(70)		20.80	292	23737m	30.6027 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.97t	326	30854m	58.6359 ng
Corrected Values:				30854	58.6359 ng
66) Cl4(66)-S1	(0.174)	20.97t	289	6879	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.00	292	31767m	41.4036 ng
Corrected Values:				30570	39.9239 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.62T	326	17317m	34.2978 ng
72) Cl5(84)		21.62T	326	10872m	31.0571 ng
73) Cl4(56)-S1	(0.174)	21.61tw	289	8603	No Calib
74) Cl4(56)		21.66	292	8926m	13.1966 ng
Corrected Values:				7429	11.3519 ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.90	326	47887m	85.7293 ng
79) Cl5(99)		22.17	326	49647m	85.2792 ng
80) Cl5(83)		22.57	326	12057m	29.8059 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.85	326	13778m	29.0525 ng
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9390.D MF0785.M Tue Mar 17 13:31:28 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9390.D

Vial: 26

Acq On : 15 Mar 2015 9:26 pm

Operator: LMG

Sample : L0125-P-D(4)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:45 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:40 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.83	326	94564m	132.2322 ng
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.72	360	43937m	94.9023 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.32	326	47470m	66.9820 ng
Corrected Values:				47470	66.9820 ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D.
Corrected Values:				0	ng
115) Cl6(153)		25.92	360	41691m	83.8556 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.87	360	10383m	21.7437 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9390.D MF0785.M Tue Mar 17 13:31:28 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9390.D

Vial: 26

Acq On : 15 Mar 2015 9:26 pm

Operator: LMG

Sample : L0125-P-D(4)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:45 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:40 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.90	360	11754m	23.3904 ng
Corrected Values:				11754	23.3904 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9390.D MF0785.M Tue Mar 17 13:31:29 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9390.D

Vial: 26

Acq On : 15 Mar 2015 9:26 pm

Operator: LMG

Sample : L0125-P-D(4)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:45 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:40 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9390.D MF0785.M Tue Mar 17 13:31:29 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9391.D

Vial: 27

Acq On : 15 Mar 2015 10:14 pm

Operator: LMG

Sample : L0133-P-D(4)

Inst : Inst. F

Misc : S-14N-RBB22-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:44 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	67362m	95.0000	ng
78) Cl6(161)	25.77	360	54648m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		11.43	222	18114m	21.4122	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.56	222	88294m	62.8811	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222	74187m	49.8224	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256	77747m	118.6397	ng
16) Cl3(17)		14.29	256	35601m	54.5203	ng
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1	(0.135)	14.52tw	221	1102	No Calib	
19) Cl2(13)		14.53t	222	33926m	28.0768	ng
Corrected Values:				33777	27.9607	ng
20) Cl3(27)		14.53t	256	22524m	24.8618	ng
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		14.99	256	32309m	35.0746	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.86	256	134693m	140.2855	ng
Corrected Values:				134693	140.2855	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.98	256	85694m	94.9598	ng
33) Cl3(31)-S1	(0.135)	16.36t	255	5587	No Calib	
34) Cl3(31)		16.33	256	153643m	161.7848	ng
Corrected Values:				152889	161.0141	ng
35) Cl4(53)		16.36t	292	14944m	24.6962	ng
36) Cl3(28)		16.44	256	141119m	145.9482	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9391.D MF0785.M Tue Mar 17 13:31:30 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9391.D

Vial: 27

Acq On : 15 Mar 2015 10:14 pm

Operator: LMG

Sample : L0133-P-D(4)

Inst : Inst. F

Misc : S-14N-RBB22-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:44 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.66	292	116656m	192.6600 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.87	292	101125m	169.7105 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.07	292	31892m	45.5897 ng
Corrected Values:				31892	45.5897 ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		18.51	292	21699m	42.1811 ng
51) Cl4(42)		18.70	292	15073m	29.6631 ng
52) Cl4(71)		18.94	292	17873m	24.5306 ng
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		19.33	292	25691m	33.3658 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.60	326	28624m	61.5534 ng
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		20.81	292	17175m	22.7033 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.97t	326	13573m	26.6959 ng
Corrected Values:				13573	26.6959 ng
66) Cl4(66)-S1	(0.174)	20.97t	289	3123	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.99	292	19839m	26.7104 ng
Corrected Values:				19296	26.0327 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.91	326	27272m	50.1819 ng
79) Cl5(99)		22.16	326	23385m	40.5586 ng
80) Cl5(83)		0.00	326	0	N.D.
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9391.D MF0785.M Tue Mar 17 13:31:30 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9391.D

Vial: 27

Acq On : 15 Mar 2015 10:14 pm

Operator: LMG

Sample : L0133-P-D(4)

Inst : Inst. F

Misc : S-14N-RBB22-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:44 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.83	326	48460m	68.4928 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.72	360	20565m	44.8031 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D.
108) Cl5(118)		25.32	326	30391m	43.0967 ng
Corrected Values:				30391	43.0967 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.92	360	23329m	47.0354 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9391.D MF0785.M Tue Mar 17 13:31:30 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9391.D
 Acq On : 15 Mar 2015 10:14 pm
 Sample : L0133-P-D(4)
 Misc : S-14N-RBB22-00-05 5-315 15-0072
 MS Integration Params: rteint.p

Vial: 27
 Operator: LMG
 Inst : Inst. F
 Multiplr: 1.00

Quant Time: Mar 16 08:27:49 2015 Quant Results File: MF0785.RES
 Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Mon Mar 16 08:27:44 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D.
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D.
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D.
141) Cl6(167)		0.00	360	0	N.D.
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D.
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D.
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D.
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D.
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D.
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9391.D MF0785.M Tue Mar 17 13:31:31 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9391.D

Vial: 27

Acq On : 15 Mar 2015 10:14 pm

Operator: LMG

Sample : L0133-P-D(4)

Inst : Inst. F

Misc : S-14N-RBB22-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:49 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:44 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9391.D MF0785.M Tue Mar 17 13:31:31 2015

040221CFS

Page 5

Data File : G:\F\DATA\SF0786\F9392.D

Vial: 28

Acq On : 15 Mar 2015 11:02 pm

Operator: LMG

Sample : L0208-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-63-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:53 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:48 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	65180m	95.0000	ng
78) Cl6(161)	25.78	360	48638m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1 (0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)	15.32tw	256	15669m	19.3724	ng
Spiked Amount	18.9997			Recovery	= 101.96%
Corrected Values:			15669	19.3724	ng
114) Cl6(152)	22.46	360	10191m	20.1035	ng
Spiked Amount	19.0757			Recovery	= 105.39%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	14066	5.8481	ng
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		11.43	222	2738m	3.5739	ng
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.56	222	12123m	9.6267	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222	18191m	13.3738	ng
11) Cl3(19)		13.32	256	1262	2.8877	ng
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1 (0.135)		0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256	24908m	39.8746	ng
16) Cl3(17)		14.29	256	11984m	19.5767	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1 (0.135)		0.00	221	0	N.D.	
19) Cl2(13)		14.53t	222	7518m	7.7311	ng
Corrected Values:				7518	7.7311	ng
20) Cl3(27)		14.53t	256	3075m	4.5856	ng
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		14.85	256	6617m	14.5750	ng
23) Cl2(15)		14.92	222	18821m	14.6758	ng
24) Cl3(32)		14.99	256	10688m	12.5703	ng
25) Cl4(54)		15.33tw	292	514	1.1539	ng
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1 (0.135)		0.00	255	0	N.D.	d
30) Cl3(26)		15.86	256	145864m	156.6638	ng
Corrected Values:				145864	156.6638	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.98	256	69538m	79.9264	ng
33) Cl3(31)-S1 (0.135)		16.36t	255	2574	No Calib	
34) Cl3(31)		16.33	256	86224m	95.2046	ng
Corrected Values:				85877	94.8310	ng
35) Cl4(53)		16.36t	292	7987m	14.2407	ng
36) Cl3(28)		16.44	256	79326m	85.8214	ng
37) Cl3(33)		16.55	256	29313m	35.8121	ng
38) Cl4(51)		16.62	292	3149m	6.1625	ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
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 F9392.D MF0785.M Wed Mar 25 09:57:47 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9392.D

Vial: 28

Acq On : 15 Mar 2015 11:02 pm

Operator: LMG

Sample : L0208-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-63-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:53 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:48 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.96	292	7325m	15.5851 ng
40) Cl3(22)		17.04	256	21260m	26.9706 ng
41) Cl4(46)		17.21	292	2928	7.3093 ng
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.66	292E	309158m	502.7781 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.87	292e	270135m	446.0049 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.07	292	108516m	158.5229 ng
Corrected Values:				108516	158.5229 ng
49) Cl4(75)		18.13	292	9468m	12.9107 ng
50) Cl4(44)		18.51	292	99734m	188.7401 ng
51) Cl4(42)		18.71	292	58181m	113.2077 ng
52) Cl4(71)		18.94	292	14506m	20.8125 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.33	292e	198486m	248.4485 ng
55) Cl4(40)		19.46	292	7798m	19.2165 ng
56) Cl3(37)-S1	(0.135)	19.41t	255	4248	No Calib
57) Cl3(37)		19.41t	256	23320	28.8483 ng
Corrected Values:				22747	28.1882 ng
58) Cl5(100)		19.77	326	8930m	18.4143 ng
59) Cl4(67)		20.06	292	18465m	27.1192 ng
60) Cl4(63)		20.47	292	9357m	15.1705 ng
61) Cl5(95)		20.60	326E	297435m	578.8960 ng
62) Cl4(74)		20.67	292	64819m	81.6085 ng
63) Cl4(70)		20.80	292	180841m	223.4035 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.97t	326e	133835m	251.6816 ng
Corrected Values:				133835	251.6816 ng
66) Cl4(66)-S1	(0.174)	20.96tw	289	30338	No Calib
67) Cl4(66)-S2	(0.650)	20.97t	288	1860	No Calib
68) Cl4(66)		21.00	292	182447m	228.9006 ng
Corrected Values:				175959	221.1607 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		21.31	292	2412m	5.1639 ng
71) Cl5(92)		21.61T	326	93913m	178.3475 ng
72) Cl5(84)		21.61T	326	79820m	191.2735 ng
73) Cl4(56)-S1	(0.174)	21.61t	289	54503	No Calib
74) Cl4(56)		21.66	292	39905m	53.0557 ng
Corrected Values:				30421	41.0090 ng
75) Cl4(60)-S1	(0.174)	21.90t	289E	57668	No Calib
76) Cl4(60)		21.90t	292	24383m	34.4272 ng
Corrected Values:				14349	21.0779 ng
77) Cl5(101)		21.91tw	326E	442232m	695.9568 ng
79) Cl5(99)		22.18	326E	346137m	580.2412 ng
80) Cl5(83)		22.56	326	59013m	153.4609 ng
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.86	326e	122151m	265.6707 ng
83) Cl5(87)		23.31	326	67623m	154.2901 ng

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(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9392.D MF0785.M Wed Mar 25 09:57:49 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9392.D

Vial: 28

Acq On : 15 Mar 2015 11:02 pm

Operator: LMG

Sample : L0208-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-63-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:53 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:48 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.40	360	43045m	82.8211 ng
85) Cl5(115)		23.53	326	4567m	8.2383 ng
86) Cl6(154)		23.60	360	7868m	17.5538 ng
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.57	326	25045m	50.9584 ng
Corrected Values:				25045	50.9584 ng
89) Cl5(110)		23.83	326E	517305m	692.0702 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.27t	323	7957	No Calib
92) Cl5(82)		24.27t	326	17131m	44.2624 ng
Corrected Values:				15380	39.8563 ng
93) Cl6(151)		24.26tw	360	34429m	88.4526 ng
94) Cl6(135)		24.36	360	26964m	69.8944 ng
95) Cl4(77)-S2	(0.650)	24.49tw	288	4024	No Calib
96) Cl4(77)		24.48tw	292	9140m	15.0722 ng
Corrected Values:				6524	11.2369 ng
97) Cl6(144)		24.51	360	5598m	14.5854 ng
98) Cl6(149)		24.72	360e	207406m	453.1520 ng
99) Cl6(139)		24.84	360	2880m	8.1346 ng
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		24.90	326	14093m	22.1604 ng
Corrected Values:				14093	22.1604 ng
102) Cl6(140)		24.95	360	1021m	3.4925 ng
103) Cl5(123)		25.10	326	49833m	83.0390 ng
104) Cl6(134)		25.19	360	15219m	47.1141 ng
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	25.40	323	2401	No Calib
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.33	326E	526010m	735.9630 ng
Corrected Values:				525482	735.2866 ng
109) Cl6(131)		25.37	360	2468m	7.8916 ng
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.67	360	40079m	91.5270 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		25.70	326	6894m	12.4795 ng
Corrected Values:				6894	12.4795 ng
115) Cl6(153)		25.92	360E	332420m	639.9176 ng
116) Cl7(179)		26.15	394	6864m	17.1613 ng
117) Cl5(105)-S1	(0.220)	26.32t	323	3779	No Calib
118) Cl5(105)		26.27	326	82387m	138.4605 ng
Corrected Values:				81556	137.1430 ng
119) Cl6(141)		26.32t	360	23268m	63.4185 ng
120) Cl7(176)		26.40	394	1888m	5.6114 ng
121) Cl6(127)-S1	(0.265)	26.52tw	323	1266	No Calib
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.53tw	360	12536m	34.8163 ng
124) Cl6(130)		26.67	360	10784m	29.2200 ng
125) Cl6(164)		26.72	360	20415m	42.4711 ng
126) Cl6(138)		26.86	360e	144588m	299.5035 ng
127) Cl6(163)-S1	(0.265)	26.93tw	357	762	No Calib

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9392.D MF0785.M Wed Mar 25 09:57:51 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9392.D

Vial: 28

Acq On : 15 Mar 2015 11:02 pm

Operator: LMG

Sample : L0208-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-63-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:53 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:48 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.88	360	82755m	173.0943 ng
Corrected Values:				82553	172.6910 ng
129) Cl7(178)		26.94tw	394	2534m	8.8413 ng
130) Cl6(158)		27.00	360	30405m	56.1227 ng
131) Cl7(175)		27.14	394	656m	2.6452 ng
132) Cl7(187)		27.22	394	16156m	45.8267 ng
133) Cl6(166)-S1	(0.265)	27.40t	357	634	No Calib
134) Cl6(166)		27.40t	360	1651m	4.5349 ng
Corrected Values:				1483	4.1913 ng
135) Cl7(183)		27.40t	394	7257m	22.5474 ng
136) Cl5(126)		27.56	326	1102	3.8167 ng
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.70	360	39908m	111.6557 ng
Corrected Values:				39908	111.6557 ng
139) Cl7(185)		27.73	394	875m	4.0634 ng
140) Cl7(174)		27.84	394	9712m	33.3178 ng
141) Cl6(167)		27.94	360	18177m	40.0718 ng
142) Cl8(202)		28.01	428	617m	3.4435 ng
143) Cl7(177)		28.12	394	5945m	22.7104 ng
144) Cl8(201)		28.24t	428	344m	2.4911 ng
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		28.24t	394	4381m	15.6784 ng
Corrected Values:				4381	15.6784 ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.54	360	31000m	68.8910 ng
Corrected Values:				31000	68.8910 ng
151) Cl7(172)		28.59	394	2253m	9.5567 ng
152) Cl6(157)		28.65	360	7257m	17.3336 ng
153) Cl7(180)		28.78	394	27300m	81.7204 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		28.83	394	1292m	4.9388 ng
Corrected Values:				1292	4.9388 ng
156) Cl8(200)		28.86	428	324m	2.7198 ng
157) Cl7(191)		28.95	394	894m	4.0128 ng
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		29.49	394	15652m	64.8989 ng
Corrected Values:				15652	64.8989 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		29.55	428	1800m	10.0402 ng
162) Cl7(190)		29.61	394	3444m	10.8268 ng
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		29.73tw	360	2403m	8.8007 ng
Corrected Values:				2403	8.8007 ng
165) Cl8(203)		29.72tw	428	2252m	10.2829 ng
166) Cl9(208)		30.22	464	358m	2.8211 ng
167) Cl7(189)		30.38	394	951m	5.2484 ng
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9392.D MF0785.M Wed Mar 25 09:57:52 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9392.D

Vial: 28

Acq On : 15 Mar 2015 11:02 pm

Operator: LMG

Sample : L0208-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-63-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:53 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:48 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		30.43	428	759m	4.6768 ng
Corrected Values:				759	4.6768 ng
171) Cl8(194)		30.93	428	2038m	13.0369 ng
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		31.58	464	585m	4.8756 ng
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9392.D MF0785.M Wed Mar 25 09:57:52 2015

040221CFS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0786\F9393.D

Vial: 29

Acq On : 15 Mar 2015 11:50 pm

Operator: LMG

Sample : L0239-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-75-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	62195m	95.0000	ng
78) Cl6(161)	25.79	360	51711m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154E	1116575m	522.7092	ng
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	d
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	d
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.18	256	21829m	36.7086	ng
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.87	256	72306m	82.4772	ng
Corrected Values:				72306	82.4772	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.99	256	40986m	49.9239	ng
33) Cl3(31)-S1	(0.135)	16.36	255	1596	No Calib	
34) Cl3(31)		16.33	256	99863m	114.9903	ng
Corrected Values:				99648	114.7491	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.45	256	103326m	116.3259	ng
37) Cl3(33)		16.55	256	21355m	27.6763	ng
38) Cl4(51)		0.00	292	0	N.D.	d

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(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9393.D MF0785.M Tue Mar 17 13:31:34 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9393.D

Vial: 29

Acq On : 15 Mar 2015 11:50 pm

Operator: LMG

Sample : L0239-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-75-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		17.05	256	23302m	30.7349 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.67	292	76310m	137.9106 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.88	292	69806m	128.0327 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.07	292	23844m	37.0205 ng
Corrected Values:				23844	37.0205 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.52	292	29087m	60.4742 ng
51) Cl4(42)		18.72	292	17816m	37.6255 ng
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.34	292	33238m	46.3312 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		19.41	256	24276m	31.2912 ng
Corrected Values:				24276	31.2912 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.61	326	32117m	74.3697 ng
62) Cl4(74)		20.69	292	33073m	44.8644 ng
63) Cl4(70)		20.82	292	45515m	61.7009 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.99t	326	12151m	25.9242 ng
Corrected Values:				12151	25.9242 ng
66) Cl4(66)-S1	(0.174)	20.99t	289	2987	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.02	292	52367m	72.3083 ng
Corrected Values:				51847	71.6182 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.62T	326	11978m	26.2465 ng
72) Cl5(84)		21.62T	326	8731m	27.2821 ng
73) Cl4(56)-S1	(0.174)	21.62t	289	6065	No Calib
74) Cl4(56)		21.68	292	19768m	28.6551 ng
Corrected Values:				18713	27.2458 ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.92	326	58768m	113.0178 ng
79) Cl5(99)		22.20	326	43417m	77.9312 ng
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.86	326	18480m	39.9088 ng
83) Cl5(87)		23.32	326	16219m	37.1885 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9393.D MF0785.M Tue Mar 17 13:31:35 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9393.D

Vial: 29

Acq On : 15 Mar 2015 11:50 pm

Operator: LMG

Sample : L0239-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-75-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D.
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.58	326	9734m	19.4165 ng
Corrected Values:				9734	19.4165 ng
89) Cl5(110)		23.83	326	95272m	138.5224 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D.
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		24.74	360	33564m	76.0603 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.33	326	83452m	120.3039 ng
Corrected Values:				83452	120.3039 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.92	360	54706m	113.4925 ng
116) Cl7(179)		0.00	394	0	N.D.
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		26.27	326	25551m	42.9898 ng
Corrected Values:				25551	42.9898 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.86	360	32348m	67.6021 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9393.D MF0785.M Tue Mar 17 13:31:35 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9393.D

Vial: 29

Acq On : 15 Mar 2015 11:50 pm

Operator: LMG

Sample : L0239-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-75-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.88	360	17449m	35.8798 ng
Corrected Values:				17449	35.8798 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.71	360	8076m	22.8995 ng
Corrected Values:				8076	22.8995 ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

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 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9393.D MF0785.M Tue Mar 17 13:31:35 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9393.D

Vial: 29

Acq On : 15 Mar 2015 11:50 pm

Operator: LMG

Sample : L0239-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-75-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:27:57 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:52 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9393.D MF0785.M Tue Mar 17 13:31:35 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9394.D

Vial: 30

Acq On : 16 Mar 2015 12:37 am

Operator: LMG

Sample : L0246-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-76-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:01 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:56 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	65606m	95.0000	ng
78) Cl6(161)	25.78	360	56482m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256	27085m	42.9947	ng
16) Cl3(17)		14.29	256	13839m	22.3199	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		14.92	222	38327m	28.2835	ng
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.86	256	69505m	75.3220	ng
Corrected Values:				69505	75.3220	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.98	256	37705m	43.7026	ng
33) Cl3(31)-S1	(0.135)	16.35	255	1749	No Calib	
34) Cl3(31)		16.33	256	128550m	139.5864	ng
Corrected Values:				128314	139.3371	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.44	256	124247m	132.2282	ng
37) Cl3(33)		16.55	256	30319m	36.7609	ng
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9394.D MF0785.M Tue Mar 17 13:31:37 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9394.D

Vial: 30

Acq On : 16 Mar 2015 12:37 am

Operator: LMG

Sample : L0246-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-76-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:01 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:56 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		17.03	256	33263m	40.9946 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.66	292	81606m	139.7612 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.88	292	76319m	132.5622 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.07	292	25539m	37.5823 ng
Corrected Values:				25539	37.5823 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.51	292	36453m	71.4395 ng
51) Cl4(42)		18.72	292	21122m	42.1215 ng
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.33	292	44162m	58.0143 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	19.41t	255	2513	No Calib
57) Cl3(37)		19.41t	256	35634m	42.7451 ng
Corrected Values:				35295	42.3584 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.59	326	37958m	83.0383 ng
62) Cl4(74)		20.66	292	47255m	59.9228 ng
63) Cl4(70)		20.80	292	78260m	98.9399 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.97tw	326	14591m	29.3294 ng
Corrected Values:				14591	29.3294 ng
66) Cl4(66)-S1	(0.174)	20.96tw	289	3141	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.00	292	81192m	104.7435 ng
Corrected Values:				80645	104.0641 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.61T	326	13672m	28.2534 ng
72) Cl5(84)		21.61T	326	10898m	32.0346 ng
73) Cl4(56)-S1	(0.174)	21.61t	289	7614	No Calib
74) Cl4(56)		21.66	292	31124m	41.6459 ng
Corrected Values:				29799	39.9719 ng
75) Cl4(60)-S1	(0.174)	21.90t	289	11652	No Calib
76) Cl4(60)		21.92	292	20711m	29.3716 ng
Corrected Values:				18684	26.6927 ng
77) Cl5(101)		21.90t	326	86171m	154.7811 ng
79) Cl5(99)		22.17	326	57246m	93.5138 ng
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.85	326	24737m	48.5026 ng
83) Cl5(87)		23.31	326	22627m	47.1719 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9394.D MF0785.M Tue Mar 17 13:31:37 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9394.D

Vial: 30

Acq On : 16 Mar 2015 12:37 am

Operator: LMG

Sample : L0246-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-76-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:01 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:56 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D.
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		23.57	326	13100m	23.5710 ng
Corrected Values:				13100	23.5710 ng
89) Cl5(110)		23.83	326	123550m	163.1917 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.72	360	41820m	86.4241 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.32	326	113028m	148.1919 ng
Corrected Values:				113028	148.1919 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.92	360	71895m	135.6173 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		26.27	326	36055m	54.8016 ng
Corrected Values:				36055	54.8016 ng
119) Cl6(141)		0.00	360	0	N.D.
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.86	360	45426m	86.2223 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9394.D MF0785.M Tue Mar 17 13:31:38 2015

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Data File : G:\F\DATA\SF0786\F9394.D

Vial: 30

Acq On : 16 Mar 2015 12:37 am

Operator: LMG

Sample : L0246-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-36-76-00-10-REP 5-315 15-0072 Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:01 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:27:56 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.89	360	16231m	30.6477 ng
Corrected Values:				16231	30.6477 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D.
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D.
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	27.69tw	357	545	No Calib
138) Cl6(128)		27.70tw	360	10931m	28.0276 ng
Corrected Values:				10787	27.6781 ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D.
141) Cl6(167)		0.00	360	0	N.D.
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D.
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D.
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		28.77	394	7113m	19.8821 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9394.D MF0785.M Tue Mar 17 13:31:38 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9394.D Vial: 30
Acq On : 16 Mar 2015 12:37 am Operator: LMG
Sample : L0246-P-D(4) Inst : Inst. F
Misc : S-14D-2014-36-76-00-10-REP 5-315 15-0072 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:01 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Mon Mar 16 08:27:56 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9394.D MF0785.M Tue Mar 17 13:31:38 2015 040221CFS

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Data File : G:\F\DATA\SF0786\F9397.D

Vial: 33

Acq On : 16 Mar 2015 3:01 am

Operator: LMG

Sample : L0266-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-33-43-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:17 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:12 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	66447m	95.0000	ng
78) Cl6(161)	25.78	360	53513m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	42011m	16.9838	ng
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	d
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		12.56	222	35066m	25.7754	ng
9) Cl2(5)		0.00	222	0	N.D.	d
10) Cl2(8)		12.86	222	34479m	23.9725	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256	34052m	53.1260	ng
16) Cl3(17)		14.29	256	16067m	25.4465	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.86	256	50035m	54.0227	ng
Corrected Values:				50035	54.0227	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.99	256	32370m	37.2302	ng
33) Cl3(31)-S1	(0.135)	16.35	255	1645	No Calib	
34) Cl3(31)		16.32	256	88475m	95.8117	ng
Corrected Values:				88253	95.5773	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.44	256	87625m	92.8171	ng
37) Cl3(33)		16.55	256	22569m	27.3930	ng
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9397.D MF0785.M Tue Mar 17 13:31:44 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9397.D

Vial: 33

Acq On : 16 Mar 2015 3:01 am

Operator: LMG

Sample : L0266-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-33-43-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:17 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:12 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		17.04	256	18911m	23.7408 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D. d
43) Cl4(52)		17.66	292	51863m	88.7513 ng
44) Cl4(48)		0.00	292	0	N.D. d
45) Cl4(49)		17.87	292	48383m	84.0406 ng
46) Cl5(104)		0.00	326	0	N.D. d
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.06	292	17664m	25.8308 ng
Corrected Values:				17664	25.8308 ng
49) Cl4(75)		0.00	292	0	N.D. d
50) Cl4(44)		18.51	292	25005m	49.0138 ng
51) Cl4(42)		18.71	292	14683m	29.3084 ng
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.33	292	27469m	36.0847 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	19.41t	255	1295	No Calib
57) Cl3(37)		19.41t	256	12141m	15.6828 ng
Corrected Values:				11966	15.4844 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.60	326	19899m	43.8446 ng
62) Cl4(74)		20.66	292	21121m	27.6290 ng
63) Cl4(70)		20.80	292	33268m	42.8602 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D. d
65) Cl5(91)		20.96tw	326	7956m	16.3767 ng
Corrected Values:				7956	16.3767 ng
66) Cl4(66)-S1	(0.174)	20.97tw	289	1848	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.00	292	34362m	45.3540 ng
Corrected Values:				34040	44.9497 ng
69) Cl6(155)		0.00	360	0	N.D. d
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D. d
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	21.62	289	4178	No Calib
74) Cl4(56)		21.65	292	12611m	18.0077 ng
Corrected Values:				11884	17.0970 ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.90	326	28933m	53.7939 ng
79) Cl5(99)		22.17	326	20997m	37.2986 ng
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D. d
82) Cl5(97)		22.86	326	8678m	19.0440 ng
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9397.D MF0785.M Tue Mar 17 13:31:45 2015

040221CFS

Page 2

Data File : G:\F\DATA\SF0786\F9397.D

Vial: 33

Acq On : 16 Mar 2015 3:01 am

Operator: LMG

Sample : L0266-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-33-43-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:17 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:12 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.83	326	43791m	63.3761 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.72	360	14204m	31.9587 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.33	326	34939m	50.2271 ng
Corrected Values:				34939	50.2271 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.92	360	20498m	42.3295 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D. d
118) Cl5(105)		26.27	326	8138m	14.5809 ng
Corrected Values:				8138	14.5809 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D.
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.86	360	9480m	20.0749 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9397.D MF0785.M Tue Mar 17 13:31:45 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9397.D

Vial: 33

Acq On : 16 Mar 2015 3:01 am

Operator: LMG

Sample : L0266-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-33-43-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:17 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:12 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9397.D MF0785.M Tue Mar 17 13:31:45 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9397.D Vial: 33
Acq On : 16 Mar 2015 3:01 am Operator: LMG
Sample : L0266-P-D(4) Inst : Inst. F
Misc : S-14D-2014-33-43-00-10 5-315 15-0072 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:17 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Mon Mar 16 08:28:12 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D. d
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9397.D MF0785.M Tue Mar 17 13:31:45 2015 040221CFS

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Data File : G:\F\DATA\SF0786\F9399.D

Vial: 35

Acq On : 16 Mar 2015 4:37 am

Operator: LMG

Sample : L0357-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:25 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:20 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.14	326	64466m	95.0000	ng
78) Cl6(161)	25.79	360	53208m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	134663m	56.2570	ng
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		12.56	222	39624m	29.8872	ng
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		12.86	222	53712m	37.9025	ng
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256	68533m	109.3137	ng
16) Cl3(17)		14.29	256	36437m	58.2466	ng
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		14.53	222	31799m	27.5325	ng
Corrected Values:				31799	27.5325	ng
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		14.86	256	15512m	33.9001	ng
23) Cl2(15)		14.91	222	66162m	48.6164	ng
24) Cl3(32)		14.99	256	24218m	27.6557	ng
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.86	256	132117m	143.7154	ng
Corrected Values:				132117	143.7154	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.99	256	77516m	89.8598	ng
33) Cl3(31)-S1	(0.135)	16.35tw	255	3741	No Calib	
34) Cl3(31)		16.33	256e	283112m	304.2266	ng
Corrected Values:				282607	303.7082	ng
35) Cl4(53)		16.36tw	292	10085m	17.8079	ng
36) Cl3(28)		16.44	256e	269804m	286.7535	ng
37) Cl3(33)		16.55	256	80969m	97.1677	ng
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9399.D MF0785.M Tue Mar 17 13:31:46 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9399.D

Vial: 35

Acq On : 16 Mar 2015 4:37 am

Operator: LMG

Sample : L0357-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:25 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:20 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		16.95	292	9715m	20.6342 ng
40) Cl3(22)		17.03	256	86863m	105.6242 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		17.60	292	6385m	14.4754 ng
43) Cl4(52)		17.66	292e	190899m	322.5076 ng
44) Cl4(48)		17.81	292	13906m	24.9965 ng
45) Cl4(49)		17.87	292e	160666m	276.1374 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.06	292	58651m	87.0418 ng
Corrected Values:				58651	87.0418 ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		18.51	292	90740m	174.3831 ng
51) Cl4(42)		18.73	292	50470m	99.7089 ng
52) Cl4(71)		18.94	292	27734m	38.8184 ng
53) Cl4(41)		0.00	292	0	N.D. d
54) Cl4(64)		19.32	292	102346m	133.4348 ng
55) Cl4(40)		0.00	292	0	N.D.
56) Cl3(37)-S1	(0.135)	19.40tw	255	6291	No Calib
57) Cl3(37)		19.41tw	256	66617m	79.2787 ng
Corrected Values:				65768	78.3013 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		20.07	292	17531m	26.1025 ng
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.60	326	99097m	212.4182 ng
62) Cl4(74)		20.68	292	117934m	146.1625 ng
63) Cl4(70)		20.81	292e	209840m	260.2770 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.97t	326	35981m	71.3055 ng
Corrected Values:				35981	71.3055 ng
66) Cl4(66)-S1	(0.174)	20.97t	289	9022	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.01	292e	193505m	244.5798 ng
Corrected Values:				191935	242.6993 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.61T	326	25636m	52.1108 ng
72) Cl5(84)		21.61T	326	25865m	72.8726 ng
73) Cl4(56)-S1	(0.174)	21.61t	289	17127	No Calib
74) Cl4(56)		21.66	292	65914m	86.8789 ng
Corrected Values:				62934	83.0780 ng
75) Cl4(60)-S1	(0.174)	21.91tw	289e	22722	No Calib
76) Cl4(60)		21.93tw	292	39671m	55.2058 ng
Corrected Values:				35717	49.9406 ng
77) Cl5(101)		21.92tw	326e	184178m	321.0436 ng
79) Cl5(99)		22.18	326	117490m	197.4912 ng
80) Cl5(83)		22.57	326	14885m	37.0834 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.87	326	54923m	111.5099 ng
83) Cl5(87)		23.32	326	47721m	102.2854 ng

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9399.D MF0785.M Tue Mar 17 13:31:47 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9399.D

Vial: 35

Acq On : 16 Mar 2015 4:37 am

Operator: LMG

Sample : L0357-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:25 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:20 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		23.40	360	11577m	20.7446 ng
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D.
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D. d
88) Cl5(85)		23.59	326	23560m	43.8961 ng
Corrected Values:				23560	43.8961 ng
89) Cl5(110)		23.84	326e	249502m	333.5356 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	24.27t	323	2161	No Calib
92) Cl5(82)		24.28tw	326	12122m	29.0012 ng
Corrected Values:				11647	27.9019 ng
93) Cl6(151)		24.27t	360	11606m	28.2018 ng
94) Cl6(135)		24.37	360	9162m	22.7402 ng
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		24.47	292	21653m	30.6144 ng
Corrected Values:				21653	30.6144 ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.73	360	79183m	169.4110 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D. d
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		25.11	326	20900m	33.1324 ng
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.33	326e	231894m	313.7654 ng
Corrected Values:				231894	313.7654 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		25.67	360	15584m	34.1429 ng
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.93	360e	133938m	259.0788 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	26.33t	323	2135	No Calib
118) Cl5(105)		26.27	326	69621m	108.4567 ng
Corrected Values:				69151	107.7619 ng
119) Cl6(141)		26.33t	360	12251m	31.7615 ng
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		26.53	360	7504m	19.7150 ng
124) Cl6(130)		26.67	360	6910m	17.4495 ng
125) Cl6(164)		26.72	360	10198m	20.0360 ng
126) Cl6(138)		26.87	360	93757m	183.1563 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9399.D MF0785.M Tue Mar 17 13:31:47 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9399.D

Vial: 35

Acq On : 16 Mar 2015 4:37 am

Operator: LMG

Sample : L0357-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:25 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:20 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.90	360	25728m	51.0634 ng
Corrected Values:				25728	51.0634 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		27.00	360	17705m	30.6672 ng
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		27.22	394	8122m	21.8114 ng
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D.
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		27.71	360	21971m	57.8039 ng
Corrected Values:				21971	57.8039 ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		27.85	394	4870m	16.2482 ng
141) Cl6(167)		27.94	360	7488m	16.4141 ng
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		28.55	360	17912m	37.7851 ng
Corrected Values:				17912	37.7851 ng
151) Cl7(172)		0.00	394	0	N.D.
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		28.78	394	15242m	43.0610 ng
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D.
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		29.49	394	8115m	32.0950 ng
Corrected Values:				8115	32.0950 ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9399.D MF0785.M Tue Mar 17 13:31:47 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9399.D

Vial: 35

Acq On : 16 Mar 2015 4:37 am

Operator: LMG

Sample : L0357-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:25 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:20 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

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G1701DA VersionD.00.00.38 19-Nov-2001

Battelle Duxbury Enviroquant Macros 23-August-2008 Version: 5.0.4.8

Data File : G:\F\DATA\SF0786\F9400.D

Vial: 36

Acq On : 16 Mar 2015 5:25 am

Operator: LMG

Sample : L0403-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:29 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:24 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	74246m	95.0000	ng
78) Cl6(161)	25.77	360	60526m	95.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	18.9997			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	19.0757			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		8.76	154	57906m	20.9423	ng
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.17	256	21263m	30.1500	ng
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.86	256	55085m	53.2514	ng
Corrected Values:				55085	53.2514	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.98	256	35518m	36.5813	ng
33) Cl3(31)-S1	(0.135)	16.35	255	2074	No Calib	
34) Cl3(31)		16.32	256	80776m	78.6823	ng
Corrected Values:				80496	78.4164	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.43	256	92841m	88.1215	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9400.D MF0785.M Tue Mar 17 13:31:49 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9400.D

Vial: 36

Acq On : 16 Mar 2015 5:25 am

Operator: LMG

Sample : L0403-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:29 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:24 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		17.04	256	15075m	17.3975 ng
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.66	292	65459m	99.9505 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.87	292	71822m	110.8110 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		18.06	292	24704m	32.2002 ng
Corrected Values:				24704	32.2002 ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		18.51	292	21873m	38.7006 ng
51) Cl4(42)		18.71	292	15090m	27.0511 ng
52) Cl4(71)		18.94	292	13216m	16.9350 ng
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		19.33	292	24741m	29.2687 ng
55) Cl4(40)		0.00	292	0	N.D. d
56) Cl3(37)-S1	(0.135)	19.40tw	255	1321	No Calib
57) Cl3(37)		19.41tw	256	16201m	18.3551 ng
Corrected Values:				16023	18.1746 ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.60	326	25749m	50.5440 ng
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		20.80	292	36222m	41.8130 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	20.97	289	3509	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		21.00	292	45552m	53.3830 ng
Corrected Values:				44941	52.6986 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		21.60	326	8581m	16.4367 ng
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	21.62	289	5340	No Calib
74) Cl4(56)		21.65	292	12464m	16.1833 ng
Corrected Values:				11535	15.1414 ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.91	326	46213m	75.7417 ng
79) Cl5(99)		22.17	326	38161m	59.0345 ng
80) Cl5(83)		22.56	326	6504m	14.5622 ng
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.86	326	12430m	23.6676 ng
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9400.D MF0785.M Tue Mar 17 13:31:49 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9400.D

Vial: 36

Acq On : 16 Mar 2015 5:25 am

Operator: LMG

Sample : L0403-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:29 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:24 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.83	326	73206m	92.4333 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.73	360	26518m	51.9279 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.33	326	63993m	79.8743 ng
Corrected Values:				63993	79.8743 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.92	360	38458m	69.2521 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		26.27	326	12722m	19.4484 ng
Corrected Values:				12722	19.4484 ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D.
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.86	360	17816m	32.6115 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9400.D MF0785.M Tue Mar 17 13:31:49 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9400.D

Vial: 36

Acq On : 16 Mar 2015 5:25 am

Operator: LMG

Sample : L0403-P-D(4)

Inst : Inst. F

Misc : S-14D-2014-35-68-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:29 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Mon Mar 16 08:28:24 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		26.90	360	9883m	17.6161 ng
Corrected Values:				9883	17.6161 ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D.
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D.
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D.
141) Cl6(167)		0.00	360	0	N.D.
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D.
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D.
150) Cl6(156)		0.00	360	0	N.D.
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D.
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9400.D MF0785.M Tue Mar 17 13:31:49 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9400.D Vial: 36
Acq On : 16 Mar 2015 5:25 am Operator: LMG
Sample : L0403-P-D(4) Inst : Inst. F
Misc : S-14D-2014-35-68-00-10 5-315 15-0072 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Mar 16 08:28:29 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Mon Mar 16 08:28:24 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D. d
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9400.D MF0785.M Tue Mar 17 13:31:49 2015 040221CFS

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Data File : G:\F\DATA\SF0786\F9401A.D

Vial: 37

Acq On : 16 Mar 2015 8:09 am

Operator: LMG

Sample : L0125-P-D(5)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 17 11:02:50 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 17 11:02:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.13	326	81685m	100.0000	ng
78) Cl6(161)	25.78	360	66019m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	1.0000			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	1.0040			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.18	256	11089m	15.6548	ng
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	
30) Cl3(26)		15.86	256	18731m	18.3965	ng
Corrected Values:				18731	18.3965	ng
31) Cl4(50)		0.00	292	0	N.D.	
32) Cl3(25)		15.98	256	11845m	12.4839	ng
33) Cl3(31)-S1	(0.135)	16.37	255	669	No Calib	
34) Cl3(31)		16.33	256	21076m	20.6984	ng
Corrected Values:				20986	20.6152	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.44	256	18634m	18.2726	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9401A.D MF0785.M Tue Mar 17 13:31:51 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9401A.D

Vial: 37

Acq On : 16 Mar 2015 8:09 am

Operator: LMG

Sample : L0125-P-D(5)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 17 11:02:50 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 17 11:02:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.66	292	16070m	24.5895 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.87	292	14023m	21.9043 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		0.00	292	0	N.D. d
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D.
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		0.00	292	0	N.D.
55) Cl4(40)		0.00	292	0	N.D.
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D.
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		0.00	326	0	N.D. d
79) Cl5(99)		0.00	326	0	N.D. d
80) Cl5(83)		0.00	326	0	N.D.
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

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 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9401A.D MF0785.M Tue Mar 17 13:31:51 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9401A.D

Vial: 37

Acq On : 16 Mar 2015 8:09 am

Operator: LMG

Sample : L0125-P-D(5)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 17 11:02:50 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 17 11:02:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D.
86) Cl6(154)		0.00	360	0	N.D.
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D.
Corrected Values:				0	ng
89) Cl5(110)		0.00	326	0	N.D. d
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D.
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D.
98) Cl6(149)		0.00	360	0	N.D.
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D.
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D.
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		0.00	326	0	N.D. d
Corrected Values:				0	ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D.
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D. d
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D.
120) Cl7(176)		0.00	394	0	N.D.
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D.
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D.
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9401A.D MF0785.M Tue Mar 17 13:31:51 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9401A.D

Vial: 37

Acq On : 16 Mar 2015 8:09 am

Operator: LMG

Sample : L0125-P-D(5)

Inst : Inst. F

Misc : S-14N-PV5-00-05 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 17 11:02:50 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 17 11:02:36 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D.
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D.
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		0.00	360	0	N.D.
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D.
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D.
141) Cl6(167)		0.00	360	0	N.D.
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D.
144) Cl8(201)		0.00	428	0	N.D.
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D.
150) Cl6(156)		0.00	360	0	N.D.
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D.
152) Cl6(157)		0.00	360	0	N.D.
153) Cl7(180)		0.00	394	0	N.D.
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D.
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D.
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D.
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D.
166) Cl9(208)		0.00	464	0	N.D.
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9401A.D MF0785.M Tue Mar 17 13:31:51 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9401A.D Vial: 37
Acq On : 16 Mar 2015 8:09 am Operator: LMG
Sample : L0125-P-D(5) Inst : Inst. F
Misc : S-14N-PV5-00-05 5-315 15-0072 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Mar 17 11:02:50 2015 Quant Results File: MF0785.RES
Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)
Title : PCB-QNF NBH
Last Update : Tue Mar 17 11:02:36 2015
Response via : Initial Calibration
DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D.
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
(*) = Not Verified to LIMS

F9401A.D MF0785.M Tue Mar 17 13:31:51 2015 040221CFS

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Data File : G:\F\DATA\SF0786\F9402.D

Vial: 38

Acq On : 16 Mar 2015 8:57 am

Operator: LMG

Sample : L0208-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-36-63-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 17 11:12:35 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 17 11:11:59 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.12	326	81791m	100.0000	ng
78) Cl6(161)	25.77	360	68232m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	1.0000			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	1.0040			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	
4) Cl1(3)		0.00	188	0	N.D.	
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		0.00	256	0	N.D.	d
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	
30) Cl3(26)		0.00	256	0	N.D.	d
Corrected Values:				0	ng	
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		0.00	256	0	N.D.	d
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		0.00	256	0	N.D.	d
Corrected Values:				0	ng	
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		0.00	256	0	N.D.	d
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9402.D MF0785.M Tue Mar 17 13:31:53 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9402.D

Vial: 38

Acq On : 16 Mar 2015 8:57 am

Operator: LMG

Sample : L0208-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-36-63-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 17 11:12:35 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 17 11:11:59 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.66	292	20393m	30.8473 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.87	292	17101m	26.4243 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		0.00	292	0	N.D. d
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		19.32	292	12517m	14.5940 ng
55) Cl4(40)		0.00	292	0	N.D.
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		20.58	326	19695m	37.3789 ng
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		20.96	326	8983m	15.9200 ng
Corrected Values:				8983	15.9200 ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.90	326	29148m	46.7783 ng
79) Cl5(99)		22.16	326	22591m	33.3328 ng
80) Cl5(83)		0.00	326	0	N.D.
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		22.86	326	7843m	14.7224 ng
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9402.D MF0785.M Tue Mar 17 13:31:53 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9402.D

Vial: 38

Acq On : 16 Mar 2015 8:57 am

Operator: LMG

Sample : L0208-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-36-63-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 17 11:12:35 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 17 11:11:59 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.82	326	34218m	41.5833 ng
90) Cl4(81)		0.00	292	0	N.D. d
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D.
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D.
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		24.72	360	14375m	26.9332 ng
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D.
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D.
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D.
108) Cl5(118)		25.32	326	35280m	42.3315 ng
Corrected Values:				35280	42.3315 ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D.
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D. d
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.92	360	22520m	38.5535 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		26.85	360	11167m	19.6068 ng
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(E) = > 2 * high standard response (e) = > 1 * high standard response

(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion

(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion

F9402.D MF0785.M Tue Mar 17 13:31:53 2015

040221CFS

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Data File : G:\F\DATA\SF0786\F9402.D

Vial: 38

Acq On : 16 Mar 2015 8:57 am

Operator: LMG

Sample : L0208-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-36-63-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 17 11:12:35 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 17 11:11:59 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D. d
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D. d
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D. d
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D. d
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D. d
142) Cl8(202)		0.00	428	0	N.D. d
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D. d
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D. d
148) Cl8(197)		0.00	428	0	N.D. d
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D. d
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D. d
155) Cl7(193)		0.00	394	0	N.D. d
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D. d
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D. d
161) Cl8(199)		0.00	428	0	N.D. d
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D. d
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9402.D MF0785.M Tue Mar 17 13:31:53 2015 040221CFS

Data File : G:\F\DATA\SF0786\F9402.D

Vial: 38

Acq On : 16 Mar 2015 8:57 am

Operator: LMG

Sample : L0208-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-36-63-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 17 11:12:35 2015

Quant Results File: MF0785.RES

Quant Method : G:\F\DATA\MF0785.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 17 11:11:59 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9402.D MF0785.M Tue Mar 17 13:31:53 2015

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Data File : G:\F\DATA\SF0787\F9439.D

Vial: 70

Acq On : 18 Mar 2015 11:14 am

Operator: DMS

Sample : L0531-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 19 08:17:13 2015

Quant Results File: MF0787.RES

Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 19 08:17:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.06	326	141806m	100.0000	ng
78) Cl6(161)	25.73	360	123024m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0d	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	1.0000			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	1.0040			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	d
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	d
7) Cl2(9)		0.00	222	0	N.D.	d
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	d
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	d
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		14.12	256	21665m	20.1556	ng
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	d
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	d
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	d
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	d
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	d
30) Cl3(26)		15.80	256	47523m	28.6128	ng
Corrected Values:				47523	28.6128	ng
31) Cl4(50)		0.00	292	0	N.D.	d
32) Cl3(25)		15.93	256	30695m	20.3524	ng
33) Cl3(31)-S1	(0.135)	16.29	255	1465	No Calib	
34) Cl3(31)		16.26	256	54155m	32.8482	ng
Corrected Values:				53957	32.7296	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.38	256	48208m	29.9832	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9439.D MF0787.M Thu Mar 26 14:44:44 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9439.D

Vial: 70

Acq On : 18 Mar 2015 11:14 am

Operator: DMS

Sample : L0531-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 19 08:17:13 2015

Quant Results File: MF0787.RES

Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 19 08:17:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.59	292	43065m	37.4824 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.81	292	40068m	34.8785 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D.
48) Cl4(47)		0.00	292	0	N.D. d
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		0.00	292	0	N.D. d
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D.
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		0.00	292	0	N.D. d
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	0.00	289	0	N.D. d
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		0.00	292	0	N.D. d
Corrected Values:				0	ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		0.00	326	0	N.D. d
79) Cl5(99)		0.00	326	0	N.D. d
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9439.D MF0787.M Thu Mar 26 14:44:44 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9439.D

Vial: 70

Acq On : 18 Mar 2015 11:14 am

Operator: DMS

Sample : L0531-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 19 08:17:13 2015

Quant Results File: MF0787.RES

Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 19 08:17:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D. d
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.76	326	25809m	16.9391 ng
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D.
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		0.00	360	0	N.D. d
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D. d
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D.
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D.
108) Cl5(118)		0.00	326	0	N.D. d
Corrected Values:				0	ng
109) Cl6(131)		0.00	360	0	N.D. d
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D.
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		0.00	360	0	N.D. d
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D. d
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9439.D MF0787.M Thu Mar 26 14:44:44 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9439.D

Vial: 70

Acq On : 18 Mar 2015 11:14 am

Operator: DMS

Sample : L0531-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 19 08:17:13 2015

Quant Results File: MF0787.RES

Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 19 08:17:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D.
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D. d
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D.
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D. d
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D. d
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D. d
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D.
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D. d
157) Cl7(191)		0.00	394	0	N.D.
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D. d
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D. d
167) Cl7(189)		0.00	394	0	N.D. d
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9439.D MF0787.M Thu Mar 26 14:44:44 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9439.D

Vial: 70

Acq On : 18 Mar 2015 11:14 am

Operator: DMS

Sample : L0531-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-31-7A-00-10 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 19 08:17:13 2015

Quant Results File: MF0787.RES

Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Thu Mar 19 08:17:08 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D. d
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9439.D MF0787.M Thu Mar 26 14:44:44 2015

040221CFS

Page 5

Data File : G:\F\DATA\SF0787\F9466.D

Vial: 57

Acq On : 19 Mar 2015 8:48 am

Operator: DMS

Sample : L0357-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 24 10:17:39 2015

Quant Results File: MF0787.RES

Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 24 10:17:33 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Internal Standards	R.T.	QIon	Response	Conc	Units
1) Cl5(96)	19.06	326	118239m	100.0000	ng
78) Cl6(161)	25.72	360	85236m	100.0000	ng

System Monitoring Compounds

26) Cl3(34)-S1	(0.135)	0.00	255	0	0.0000	ng
27) Cl3(34)		0.00	256	0d	0.0000	ng
Spiked Amount	1.0000			Recovery	=	0.00%
Corrected Values:				0	0.0000	ng
114) Cl6(152)		0.00	360	0d	0.0000	ng
Spiked Amount	1.0040			Recovery	=	0.00%

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc	Units
2) Biphenyl		0.00	154	0	N.D.	d
3) Cl1(1)		0.00	188	0	N.D.	
4) Cl1(3)		0.00	188	0	N.D.	d
5) Cl2(4)		0.00	222	0	N.D.	d
6) Cl2(7)		0.00	222	0	N.D.	
7) Cl2(9)		0.00	222	0	N.D.	
8) Cl2(6)		0.00	222	0	N.D.	d
9) Cl2(5)		0.00	222	0	N.D.	
10) Cl2(8)		0.00	222	0	N.D.	d
11) Cl3(19)		0.00	256	0	N.D.	d
12) Cl3(30)		0.00	256	0	N.D.	
13) Cl2(11)-S1	(0.135)	0.00	221	0	N.D.	d
14) Cl2(11)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
15) Cl3(18)		0.00	256	0	N.D.	d
16) Cl3(17)		0.00	256	0	N.D.	d
17) Cl2(12)		0.00	222	0	N.D.	
18) Cl2(13)-S1	(0.135)	0.00	221	0	N.D.	
19) Cl2(13)		0.00	222	0	N.D.	d
Corrected Values:				0	ng	
20) Cl3(27)		0.00	256	0	N.D.	d
21) Cl3(24)		0.00	256	0	N.D.	
22) Cl3(16)		0.00	256	0	N.D.	d
23) Cl2(15)		0.00	222	0	N.D.	d
24) Cl3(32)		0.00	256	0	N.D.	d
25) Cl4(54)		0.00	292	0	N.D.	d
28) Cl3(29)		0.00	256	0	N.D.	
29) Cl3(26)-S1	(0.135)	0.00	255	0	N.D.	
30) Cl3(26)		0.00	256	0	N.D.	d
Corrected Values:				0	ng	
31) Cl4(50)		0.00	292	0	N.D.	
32) Cl3(25)		0.00	256	0	N.D.	d
33) Cl3(31)-S1	(0.135)	0.00	255	0	N.D.	d
34) Cl3(31)		16.26	256	23189m	17.1073	ng
Corrected Values:				23189	17.1073	ng
35) Cl4(53)		0.00	292	0	N.D.	d
36) Cl3(28)		16.38	256	23689m	17.9794	ng
37) Cl3(33)		0.00	256	0	N.D.	d
38) Cl4(51)		0.00	292	0	N.D.	d

(#) = qualifier out of range (m) = manual integration (+) = signals summed
(E) = > 2 * high standard response (e) = > 1 * high standard response
(T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
(Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
F9466.D MF0787.M Wed Mar 25 09:03:08 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9466.D

Vial: 57

Acq On : 19 Mar 2015 8:48 am

Operator: DMS

Sample : L0357-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 24 10:17:39 2015

Quant Results File: MF0787.RES

Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 24 10:17:33 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
39) Cl4(45)		0.00	292	0	N.D. d
40) Cl3(22)		0.00	256	0	N.D. d
41) Cl4(46)		0.00	292	0	N.D. d
42) Cl4(43)		0.00	292	0	N.D.
43) Cl4(52)		17.59	292	14493m	15.4385 ng
44) Cl4(48)		0.00	292	0	N.D.
45) Cl4(49)		17.81	292	14685m	16.3121 ng
46) Cl5(104)		0.00	326	0	N.D.
47) Cl4(47)-S1	(0.174)	0.00	289	0	N.D. d
48) Cl4(47)		0.00	292	0	N.D.
Corrected Values:				0	ng
49) Cl4(75)		0.00	292	0	N.D.
50) Cl4(44)		0.00	292	0	N.D. d
51) Cl4(42)		0.00	292	0	N.D. d
52) Cl4(71)		0.00	292	0	N.D. d
53) Cl4(41)		0.00	292	0	N.D.
54) Cl4(64)		0.00	292	0	N.D. d
55) Cl4(40)		0.00	292	0	N.D.
56) Cl3(37)-S1	(0.135)	0.00	255	0	N.D. d
57) Cl3(37)		0.00	256	0	N.D. d
Corrected Values:				0	ng
58) Cl5(100)		0.00	326	0	N.D. d
59) Cl4(67)		0.00	292	0	N.D. d
60) Cl4(63)		0.00	292	0	N.D. d
61) Cl5(95)		0.00	326	0	N.D. d
62) Cl4(74)		0.00	292	0	N.D. d
63) Cl4(70)		20.72	292	15521m	12.8178 ng
64) Cl5(91)-S1	(0.220)	0.00	323	0	N.D.
65) Cl5(91)		0.00	326	0	N.D. d
Corrected Values:				0	ng
66) Cl4(66)-S1	(0.174)	20.89	289	683	No Calib
67) Cl4(66)-S2	(0.650)	0.00	288	0	N.D. d
68) Cl4(66)		20.92	292	13978m	11.9430 ng
Corrected Values:				13859	11.8469 ng
69) Cl6(155)		0.00	360	0	N.D.
70) Cl4(80)		0.00	292	0	N.D. d
71) Cl5(92)		0.00	326	0	N.D.
72) Cl5(84)		0.00	326	0	N.D. d
73) Cl4(56)-S1	(0.174)	0.00	289	0	N.D. d
74) Cl4(56)		0.00	292	0	N.D. d
Corrected Values:				0	ng
75) Cl4(60)-S1	(0.174)	0.00	289	0	N.D. d
76) Cl4(60)		0.00	292	0	N.D. d
Corrected Values:				0	ng
77) Cl5(101)		21.83	326	17909m	18.6688 ng
79) Cl5(99)		0.00	326	0	N.D. d
80) Cl5(83)		0.00	326	0	N.D. d
81) Cl5(125)		0.00	326	0	N.D.
82) Cl5(97)		0.00	326	0	N.D. d
83) Cl5(87)		0.00	326	0	N.D. d

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9466.D MF0787.M Wed Mar 25 09:03:08 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9466.D

Vial: 57

Acq On : 19 Mar 2015 8:48 am

Operator: DMS

Sample : L0357-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 24 10:17:39 2015

Quant Results File: MF0787.RES

Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 24 10:17:33 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
84) Cl6(136)		0.00	360	0	N.D. d
85) Cl5(115)		0.00	326	0	N.D.
86) Cl6(154)		0.00	360	0	N.D. d
87) Cl5(85)-S1	(0.220)	0.00	323	0	N.D.
88) Cl5(85)		0.00	326	0	N.D. d
Corrected Values:				0	ng
89) Cl5(110)		23.75	326	23878m	22.2038 ng
90) Cl4(81)		0.00	292	0	N.D.
91) Cl5(82)-S1	(0.220)	0.00	323	0	N.D. d
92) Cl5(82)		0.00	326	0	N.D. d
Corrected Values:				0	ng
93) Cl6(151)		0.00	360	0	N.D. d
94) Cl6(135)		0.00	360	0	N.D. d
95) Cl4(77)-S2	(0.650)	0.00	288	0	N.D. d
96) Cl4(77)		0.00	292	0	N.D. d
Corrected Values:				0	ng
97) Cl6(144)		0.00	360	0	N.D. d
98) Cl6(149)		0.00	360	0	N.D. d
99) Cl6(139)		0.00	360	0	N.D.
100) Cl5(124)-S1	(0.220)	0.00	323	0	N.D.
101) Cl5(124)		0.00	326	0	N.D. d
Corrected Values:				0	ng
102) Cl6(140)		0.00	360	0	N.D.
103) Cl5(123)		0.00	326	0	N.D. d
104) Cl6(134)		0.00	360	0	N.D. d
105) Cl7(188)		0.00	394	0	N.D.
106) Cl5(118)-S1	(0.220)	0.00	323	0	N.D. d
107) Cl5(118)-S2	(1.080)	0.00	322	0	N.D. d
108) Cl5(118)		25.26	326	20927m	19.4227 ng
Corrected Values:				20927	19.4227 ng
109) Cl6(131)		0.00	360	0	N.D.
110) Cl7(184)		0.00	394	0	N.D.
111) Cl6(146)		0.00	360	0	N.D. d
112) Cl5(114)-S1	(0.220)	0.00	323	0	N.D.
113) Cl5(114)		0.00	326	0	N.D. d
Corrected Values:				0	ng
115) Cl6(153)		25.86	360	11435m	15.2637 ng
116) Cl7(179)		0.00	394	0	N.D. d
117) Cl5(105)-S1	(0.220)	0.00	323	0	N.D.
118) Cl5(105)		0.00	326	0	N.D. d
Corrected Values:				0	ng
119) Cl6(141)		0.00	360	0	N.D. d
120) Cl7(176)		0.00	394	0	N.D. d
121) Cl6(127)-S1	(0.265)	0.00	323	0	N.D.
122) Cl5(127)		0.00	326	0	N.D. d
123) Cl6(137)		0.00	360	0	N.D. d
124) Cl6(130)		0.00	360	0	N.D.
125) Cl6(164)		0.00	360	0	N.D. d
126) Cl6(138)		0.00	360	0	N.D.
127) Cl6(163)-S1	(0.265)	0.00	357	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9466.D MF0787.M Wed Mar 25 09:03:09 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9466.D

Vial: 57

Acq On : 19 Mar 2015 8:48 am

Operator: DMS

Sample : L0357-P-D(5)

Inst : Inst. F

Misc : S-14D-2014-35-70-20-30 5-315 15-0072

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Mar 24 10:17:39 2015

Quant Results File: MF0787.RES

Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)

Title : PCB-QNF NBH

Last Update : Tue Mar 24 10:17:33 2015

Response via : Initial Calibration

DataAcq Meth : 5-315S

TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
128) Cl6(163)		0.00	360	0	N.D.
Corrected Values:				0	ng
129) Cl7(178)		0.00	394	0	N.D. d
130) Cl6(158)		0.00	360	0	N.D. d
131) Cl7(175)		0.00	394	0	N.D.
132) Cl7(187)		0.00	394	0	N.D. d
133) Cl6(166)-S1	(0.265)	0.00	357	0	N.D.
134) Cl6(166)		0.00	360	0	N.D. d
Corrected Values:				0	ng
135) Cl7(183)		0.00	394	0	N.D. d
136) Cl5(126)		0.00	326	0	N.D. d
137) Cl6(128)-S1	(0.265)	0.00	357	0	N.D.
138) Cl6(128)		0.00	360	0	N.D. d
Corrected Values:				0	ng
139) Cl7(185)		0.00	394	0	N.D.
140) Cl7(174)		0.00	394	0	N.D. d
141) Cl6(167)		0.00	360	0	N.D.
142) Cl8(202)		0.00	428	0	N.D.
143) Cl7(177)		0.00	394	0	N.D. d
144) Cl8(201)		0.00	428	0	N.D.
145) Cl7(171)-S1	(0.309)	0.00	391	0	N.D.
146) Cl7(171)		0.00	394	0	N.D.
Corrected Values:				0	ng
147) Cl7(173)		0.00	394	0	N.D.
148) Cl8(197)		0.00	428	0	N.D.
149) Cl6(156)-S1	(0.265)	0.00	357	0	N.D. d
150) Cl6(156)		0.00	360	0	N.D. d
Corrected Values:				0	ng
151) Cl7(172)		0.00	394	0	N.D.
152) Cl6(157)		0.00	360	0	N.D. d
153) Cl7(180)		0.00	394	0	N.D.
154) Cl7(193)-S1	(0.309)	0.00	391	0	N.D.
155) Cl7(193)		0.00	394	0	N.D.
Corrected Values:				0	ng
156) Cl8(200)		0.00	428	0	N.D.
157) Cl7(191)		0.00	394	0	N.D. d
158) Cl7(170)-S1	(0.309)	0.00	391	0	N.D.
159) Cl7(170)		0.00	394	0	N.D. d
Corrected Values:				0	ng
160) Cl8(198)		0.00	428	0	N.D.
161) Cl8(199)		0.00	428	0	N.D.
162) Cl7(190)		0.00	394	0	N.D. d
163) Cl6(169)-S2	(1.610)	0.00	356	0	N.D. d
164) Cl6(169)		0.00	360	0	N.D.
Corrected Values:				0	ng
165) Cl8(203)		0.00	428	0	N.D. d
166) Cl9(208)		0.00	464	0	N.D.
167) Cl7(189)		0.00	394	0	N.D.
168) Cl9(207)		0.00	464	0	N.D.
169) Cl8(195)-S1	(0.400)	0.00	425	0	N.D.

(#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 F9466.D MF0787.M Wed Mar 25 09:03:09 2015 040221CFS

Data File : G:\F\DATA\SF0787\F9466.D Vial: 57
 Acq On : 19 Mar 2015 8:48 am Operator: DMS
 Sample : L0357-P-D(5) Inst : Inst. F
 Misc : S-14D-2014-35-70-20-30 5-315 15-0072 Multiplr: 1.00
 MS Integration Params: rteint.p

Quant Time: Mar 24 10:17:39 2015 Quant Results File: MF0787.RES
 Quant Method : G:\F\DATA\MF0787.M (RTE Integrator)
 Title : PCB-QNF NBH
 Last Update : Tue Mar 24 10:17:33 2015
 Response via : Initial Calibration
 DataAcq Meth : 5-315S TARGET Mult : 1.000 RIS/SIS Mult : NA

Target Compounds	(Ratio)	R.T.	QIon	Response	Conc Units
170) Cl8(195)		0.00	428	0	N.D.
Corrected Values:				0	ng
171) Cl8(194)		0.00	428	0	N.D. d
172) Cl8(205)		0.00	428	0	N.D.
173) Cl9(206)		0.00	464	0	N.D.
174) Cl10(209)		0.00	498	0	N.D.

 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 (E) = > 2 * high standard response (e) = > 1 * high standard response
 (T) = Match R.T. Same Ion (t) = Match R.T. Different Ion
 (Tw) = Close Match R.T. Same Ion (tw) = Close Match R.T. Different Ion
 (*) = Not Verified to LIMS

F9466.D MF0787.M Wed Mar 25 09:03:09 2015 040221CFS

Page 5

DATE: June 23, 2014
TO: Betsy Cutie
FROM: Deirdre Dahlen

PROJECT NUMBER: 100043429
INTERNAL DISTRIBUTION:
Jeanine Boyle
Sarah Brennan
Paul Dragos
Lisa Lefkovitz
Carole Peven-McCarthy
Jessica Tenzar

SUBJECT: Planned Revisions to the April 2014 *Final Quality Assurance Project Plan Addendum Revision 7.0, Environmental Monitoring, Sampling and Analysis, New Bedford Harbor Superfund Site*

Revisions to the subject project Quality Assurance Project Plan (QAPP) are in progress to document additional testing requested by the client, including the analysis of sediment samples for PCB using three methods:

- Immunoassay (IA) by Method 4020; testing performed by USACE's contractor Jacobs
- PCB Aroclors by Method 8082; testing performed by EPA's laboratory
- PCB Congeners (139 congeners) by Battelle SOP 5-315¹ (GCMS-SIM method based on key components of the PCB congener analysis described in Method 1668A); testing performed by Battelle

PCB congener data generated by Battelle (according to the GCMS-SIM method outlined in Battelle SOP 5-315) have been submitted for Tier I Stage 2A data validation. This memo is intended to provide information needed to support data validation activities until such time as the subject project QAPP has been revised (i.e., to include required information for the additional test methods above). Much of the information needed to support data validation activities (e.g., measurement performance criteria, sample preservation and holding time requirements) is available in the April 2014 Final QAPP Addendum Revision 7.0, and is the same as that presented for the sediment samples analyzed by method L-5 (18 PCB Congeners by GC/ECD), as follows:

- Worksheets #12 (page A-16) and #28 (pages A-86 through A-88) define the QC sample measurement performance criteria
- Worksheet #19 (page A-69) defines sample preservation and holding time requirements
- Worksheet #20 (page A-71) defines the type and frequency of field QC samples
- Worksheet #24 (page A-78) defines instrument calibration criteria; calibration criteria associated with the GCMS-SIM instrument are the appropriate criteria for validation of the PCB Congeners data (by Battelle SOP 5-315).

Information pertaining to the method detection limits and analytical SOP for the PCB Congener method (Battelle SOP 5-315) are documented in this memo because this information is not available in the April 2014 Final QAPP Addendum Revision 7.0. Method detection limits for the 139 PCB Congeners by Battelle SOP 5-315 are attached (see attached preliminary copy of QAPP Worksheet #15) and a copy of the analytical SOP is available on the Battelle network at [\\ws-dux-fs1\operations\quality staff records\SOPs_on_file\](#)

¹ Battelle SOP 5-315-10, *Identification and Quantification of Polychlorinated Biphenyl Congeners (PCB), PCB Homologues, and Chlorinated Pesticides by Gas Chromatography/Mass Spectroscopy in the Selected Ion Monitoring (SIM) Mode*

QAPP Worksheet #15 (UFP-QAPP Manual Section 2.8.1)
Reference Limits and Evaluation Table

Matrix: Sediment

Analytical Group: PCB Congeners (Battelle SOP 5-315, based on modified EPA Method 1668/680)

Concentration Level: Low/Medium/High

Analyte	CAS Number	Project Action Limit ⁽¹⁾ (µg/kg dry wt)	Project Quantitation Limit ⁽¹⁾ (µg/kg dry wt)	Analytical Method ⁽²⁾		Achievable Laboratory Limits ⁽³⁾ (µg/kg dry wt)	
		PAL	PQL	MDLs	Method LOQs	MDLs	LOQs ⁽⁴⁾
PCB 1	2051-60-7	-	5	NS	NS	0.108	0.25
PCB 3	2051-62-9	-	5	NS	NS	0.129	0.25
PCB 4	13029-08-8	-	5	NS	NS	0.120	0.25
PCB 5	16605-91-7	-	5	NS	NS	0.102	0.25
PCB 6	25569-80-6	-	5	NS	NS	0.117	0.25
PCB 7	33284-50-3	-	5	NS	NS	0.129	0.25
PCB 8	34883-43-7	-	5	NS	NS	0.099	0.25
PCB 9	34883-39-1	-	5	NS	NS	0.159	0.25
PCB 11	2050-67-1	-	5	NS	NS	0.141	0.25
PCB 12	2974-92-7	-	5	NS	NS	0.093	0.25
PCB 13	2974-90-5	-	5	NS	NS	0.108	0.25
PCB 15	2050-68-2	-	5	NS	NS	0.120	0.25
PCB 16	38444-78-9	-	5	NS	NS	0.123	0.25
PCB 17	37680-66-3	-	5	NS	NS	0.096	0.25
PCB 18	37680-65-2	-	5	NS	NS	0.102	0.25
PCB 19	38444-73-4	-	5	NS	NS	0.123	0.25
PCB 22	38444-85-8	-	5	NS	NS	0.108	0.25
PCB 24	55702-45-9	-	5	NS	NS	0.084	0.25
PCB 25	55712-37-3	-	5	NS	NS	0.087	0.25
PCB 26	38444-81-4	-	5	NS	NS	0.102	0.25
PCB 27	38444-76-7	-	5	NS	NS	0.111	0.25
PCB 28	7012-37-5	-	5	NS	NS	0.141	0.25
PCB29	15862-07-4	-	5	NS	NS	0.105	0.25
PCB 30	35693-92-6	-	5	NS	NS	0.129	0.25
PCB 31	166006-02-3	-	5	NS	NS	0.096	0.25
PCB 32	38444-77-8	-	5	NS	NS	0.105	0.25
PCB 33	38444-86-9	-	5	NS	NS	0.093	0.25
PCB 37	38444-90-5	-	5	NS	NS	0.123	0.25
PCB 40	38444-93-8	-	5	NS	NS	0.171	0.25
PCB 41	52663-59-9	-	5	NS	NS	0.153	0.25
PCB 42	36559-22-5	-	5	NS	NS	0.120	0.25
PCB 43	70362-46-8	-	5	NS	NS	0.147	0.25

QAPP Worksheet #15 (UFP-QAPP Manual Section 2.8.1)
Reference Limits and Evaluation Table

Matrix: Sediment

Analytical Group: PCB Congeners (Battelle SOP 5-315, based on modified EPA Method 1668/680)

Concentration Level: Low/Medium/High

Analyte	CAS Number	Project Action Limit ⁽¹⁾ (µg/kg dry wt)	Project Quantitation Limit ⁽¹⁾ (µg/kg dry wt)	Analytical Method ⁽²⁾		Achievable Laboratory Limits ⁽³⁾ (µg/kg dry wt)	
		PAL	PQL	MDLs	Method LOQs	MDLs	LOQs ⁽⁴⁾
PCB 44	41464-39-5	-	5	NS	NS	0.090	0.25
PBC 45	70362-45-7	-	5	NS	NS	0.108	0.25
PCB 46	41464-47-5	-	5	NS	NS	0.90	0.25
PCB 47	2437-79-8	-	5	NS	NS	0.111	0.25
PCB 48	70362-47-9	-	5	NS	NS	0.129	0.25
PCB 49	41464-40-8	-	5	NS	NS	0.111	0.25
PCB 50	62796-65-0	-	5	NS	NS	0.102	0.25
PCB 51	68194-04-7	-	5	NS	NS	0.093	0.25
PCB 52	35693-99-3	-	5	NS	NS	0.084	0.25
PCB 53	41464-41-9	-	5	NS	NS	0.126	0.25
PCB 54	15968-05-5	-	5	NS	NS	0.108	0.25
PCB 56	41464-43-1	-	5	NS	NS	0.072	0.25
PCB 60	33025-41-1	-	5	NS	NS	0.093	0.25
PCB 63	74472-34-7	-	5	NS	NS	0.087	0.25
PCB 64	52663-58-8	-	5	NS	NS	0.123	0.25
PCB 66	32598-10-0	-	5	NS	NS	0.144	0.25
PCB 67	73575-53-8	-	5	NS	NS	0.093	0.25
PCB 70	32598-11-1	-	5	NS	NS	0.120	0.25
PCB 71	41464-46-4	-	5	NS	NS	0.078	0.25
PCB 74	32690-93-0	-	5	NS	NS	0.117	0.25
PCB 75	32598-12-2	-	5	NS	NS	0.072	0.25
PCB 77	32598-13-3	-	5	NS	NS	0.120	0.25
PCB 80	70362-49-1	-	5	NS	NS	0.081	0.25
PCB 81	70362-50-4	-	5	NS	NS	0.120	0.25
PCB 82	52663-62-4	-	5	NS	NS	0.069	0.25
PCB 83	60145-20-2	-	5	NS	NS	0.126	0.25
PCB 84	52663-60-2	-	5	NS	NS	0.105	0.25
PCB 85	65510-45-4	-	5	NS	NS	0.084	0.25
PCB 87	38380-02-8	-	5	NS	NS	0.081	0.25
PCB 91	68194-05-8	-	5	NS	NS	0.102	0.25
PCB 92	52663-61-3	-	5	NS	NS	0.090	0.25
PCB 95	38379-99-6	-	5	NS	NS	0.159	0.25
PCB 97	41464-51-1	-	5	NS	NS	0.099	0.25

QAPP Worksheet #15 (UFP-QAPP Manual Section 2.8.1)
Reference Limits and Evaluation Table

Matrix: Sediment

Analytical Group: PCB Congeners (Battelle SOP 5-315, based on modified EPA Method 1668/680)

Concentration Level: Low/Medium/High

Analyte	CAS Number	Project Action Limit ⁽¹⁾ (µg/kg dry wt)	Project Quantitation Limit ⁽¹⁾ (µg/kg dry wt)	Analytical Method ⁽²⁾		Achievable Laboratory Limits ⁽³⁾ (µg/kg dry wt)	
		PAL	PQL	MDLs	Method LOQs	MDLs	LOQs ⁽⁴⁾
PCB 99	38380-01-7	-	5	NS	NS	0.081	0.25
PCB 100	39485-83-1	-	5	NS	NS	0.090	0.25
PCB 101	37680-73-2	-	5	NS	NS	0.123	0.25
PCB 104	56558-16-8	-	5	NS	NS	0.096	0.25
PCB 105	32598-14-4	-	5	NS	NS	0.108	0.25
PCB 110	38380-03-9	-	5	NS	NS	0.135	0.25
PCB 114	74472-37-0	-	5	NS	NS	0.120	0.25
PCB 115	74472-38-1	-	5	NS	NS	0.075	0.25
PCB 118	31508-00-6	-	5	NS	NS	0.126	0.25
PCB 123	65510-44-3	-	5	NS	NS	0.135	0.25
PCB 124	70424-70-3	-	5	NS	NS	0.087	0.25
PCB 125	74472-39-2	-	5	NS	NS	0.117	0.25
PCB 126	57465-28-8	-	5	NS	NS	0.147	0.25
PCB 127	39635-33-1	-	5	NS	NS	0.096	0.25
PCB 128	38380-07-3	-	5	NS	NS	0.0111	0.25
PCB 130	52663-66-8	-	5	NS	NS	0.060	0.25
PCB 131	61798-70-7	-	5	NS	NS	0.102	0.25
PCB 134	52704-70-8	-	5	NS	NS	0.042	0.25
PCB 135	52744-13-5	-	5	NS	NS	0.117	0.25
PCB 136	38411-22-2	-	5	NS	NS	0.111	0.25
PCB 137	35694-06-5	-	5	NS	NS	0.120	0.25
PCB 138	35065-28-2	-	5	NS	NS	0.123	0.25
PCB 139	56030-56-9	-	5	NS	NS	0.036	0.25
PCB 140	59291-64-4	-	5	NS	NS	0.072	0.25
PCB 141	52712-04-6	-	5	NS	NS	0.102	0.25
PCB 144	68194-14-9	-	5	NS	NS	0.090	0.25
PCB 146	51908-16-8	-	5	NS	NS	0.141	0.25
PCB 149	38380-04-0	-	5	NS	NS	0.120	0.25
PCB 151	52663-63-5	-	5	NS	NS	0.129	0.25
PCB 153	35065-27-1	-	5	NS	NS	0.0129	0.25
PCB 154	60145-22-4	-	5	NS	NS	0.069	0.25
PCB 155	33979-03-2	-	5	NS	NS	0.114	0.25
PCB 156	38380-08-4	-	5	NS	NS	0.117	0.25

QAPP Worksheet #15 (UFP-QAPP Manual Section 2.8.1)
Reference Limits and Evaluation Table

Matrix: Sediment

Analytical Group: PCB Congeners (Battelle SOP 5-315, based on modified EPA Method 1668/680)

Concentration Level: Low/Medium/High

Analyte	CAS Number	Project Action Limit ⁽¹⁾ (µg/kg dry wt)	Project Quantitation Limit ⁽¹⁾ (µg/kg dry wt)	Analytical Method ⁽²⁾		Achievable Laboratory Limits ⁽³⁾ (µg/kg dry wt)	
		PAL	PQL	MDLs	Method LOQs	MDLs	LOQs ⁽⁴⁾
PCB 157	69782-90-7	-	5	NS	NS	0.147	0.25
PCB 158	74472-42-7	-	5	NS	NS	0.114	0.25
PCB 163	74472-44-9	-	5	NS	NS	0.141	0.25
PCB 164	74472-45-0	-	5	NS	NS	0.099	0.25
PCB 166	41411-63-6	-	5	NS	NS	0.090	0.25
PCB 167	52663-72-6	-	5	NS	NS	0.090	0.25
PCB 169	32774-16-6	-	5	NS	NS	0.087	0.25
PCB 170	35065-30-6	-	5	NS	NS	0.111	0.25
PCB 171	52663-71-5	-	5	NS	NS	0.135	0.25
PCB 172	52663-74-8	-	5	NS	NS	0.093	0.25
PCB 173	68194-16-1	-	5	NS	NS	0.108	0.25
PCB 174	38411-25-5	-	5	NS	NS	0.129	0.25
PCB 175	40186-70-7	-	5	NS	NS	0.102	0.25
PCB 176	52663-65-7	-	5	NS	NS	0.117	0.25
PCB 177	52663-70-4	-	5	NS	NS	0.093	0.25
PCB 178	52663-67-9	-	5	NS	NS	0.108	0.25
PCB 179	52663-64-6	-	5	NS	NS	0.111	0.25
PCB 180	35065-29-3	-	5	NS	NS	0.138	0.25
PCB 183	52663-69-1	-	5	NS	NS	0.117	0.25
PCB 184	74472-48-3	-	5	NS	NS	0.099	0.25
PCB 185	52712-05-7	-	5	NS	NS	0.096	0.25
PCB 187	52663-68-0	-	5	NS	NS	0.126	0.25
PCB 188	74487-85-7	-	5	NS	NS	0.069	0.25
PCB 189	39635-31-9	-	5	NS	NS	0.147	0.25
PCB 190	41411-64-7	-	5	NS	NS	0.114	0.25
PCB 191	74472-50-7	-	5	NS	NS	0.114	0.25
PCB 193	69782-91-8	-	5	NS	NS	0.123	0.25
PCB 194	35694-08-7	-	5	NS	NS	0.108	0.25
PCB 195	52663-78-2	-	5	NS	NS	0.102	0.025
PCB 197	33091-17-7	-	5	NS	NS	0.123	0.25
PCB 198	68194-17-2	-	5	NS	NS	0.120	0.25
PCB 199	52663-75-9	-	5	NS	NS	0.114	0.25
PCB 200	52663-73-7	-	5	NS	NS	0.096	0.25

QAPP Worksheet #15 (UFP-QAPP Manual Section 2.8.1)

Reference Limits and Evaluation Table

Matrix: Sediment

Analytical Group: PCB Congeners (Battelle SOP 5-315, based on modified EPA Method 1668/680)

Concentration Level: Low/Medium/High

Analyte	CAS Number	Project Action Limit ⁽¹⁾ (µg/kg dry wt)	Project Quantitation Limit ⁽¹⁾ (µg/kg dry wt)	Analytical Method ⁽²⁾		Achievable Laboratory Limits ⁽³⁾ (µg/kg dry wt)	
		PAL	PQL	MDLs	Method LOQs	MDLs	LOQs ⁽⁴⁾
PCB 201	40186-71-8	-	5	NS	NS	0.099	0.25
PCB 202	2136-99-4	-	5	NS	NS	0.105	0.25
PCB 203	52663-76-0	-	5	NS	NS	0.108	0.25
PCB 205	74472-53-0	-	5	NS	NS	0.102	0.25
PCB 206	40183-72-9	-	5	NS	NS	0.111	20.25
PCB 207	52663-79-3	-	5	NS	NS	0.129	0.25
PCB 208	52663-77-1	-	5	NS	NS	0.138	0.25
PCB 209	2051-24-3	-	5	NS	NS	0.090	0.24
Total PCBs ⁽⁵⁾	NA	1,000 to 50,000	700	NA	NA	NA	NA

- (1) PAL from the USEPA Region I, *Record of Decision (ROD) for the Upper and Lower Harbor Operable Unit, New Bedford Harbor Superfund Site*, New Bedford, Massachusetts, September 1998. Cleanup levels specified in ROD are as follows: Upper Harbor 10,000 µg/Kg; Lower Harbor and most Saltmarshes, 50,000 µg/Kg; Some fringe Saltmarshes 25,000 µg/Kg; and Intertidal sediments bordering homes, 1,000 µg/Kg. PQLs are as given in the *Quality Assurance Project Plan Addendum, New Bedford Harbor, Superfund Site, Environmental Monitoring, Sampling, And Analysis*, Battelle, June 2008. The laboratory will report sample-specific LOQs based upon the lowest level calibration standard analyzed and all sample-specific preparation and analysis factors.
- (2) Analytical method MDLs and LOQs documented in validated methods.
- (3) Achievable MDLs and LOQs are limits that Battelle can achieve when performing this analytical method as determined on January 20, 2013. MDLs are updated periodically and may vary. Battelle verifies MDLs quarterly through the analysis of Limit of Detection (LOD) samples.
- (4) Battelle will report sample specific reporting limits (RLs) based upon the low level calibration standard analyzed with the samples, and sample-specific factors including sample mass, extract pre-injection volume, and any applicable dilution factors. The values reported in this table are the laboratory's current RLs.
- (5) Total PCBs are calculated in the project database as a sum of the 139 NOAA Congeners, with non-detected results input as zero. The PQL for Total PCBs is based on sum of PQLs of the 139 individual congeners to two significant figures.

NS = Not Specified

NA = Not Applicable

Appendix D

Jacobs Engineering Immunoassay Method

(Provided on CD only)

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IA Lab Process Outline

Remember to remove Test Kits & Diluent bottles from fridge at least one hour prior to use

1. Portion approximately 40 g of sample into drying pan (~1.5 hours for 50 samples)

- a. Log sample IDs into tracking log and assign/cross-reference to pan #s
- b. Pre-label drying pans with pan #s and log empty pan weight
- c. Use disposable plastic spoon to transfer approximately 35-40 g of wet sample from sample jar into aluminum pans
- d. Log total (pan + wet sediment) wet weight into tracking sheet
- e. Place pans in oven, set oven to 100° C
- f. Power on the oven prior to leaving at the end of the day. Samples should dry for a minimum of 12 hours.

2. Break-up and transfer dried samples into weigh boats (~5.5 hours for 50 samples)

- a. Pre-label plastic weigh boats and extraction jars with pan #s
- b. Remove dried sediment from oven
- c. Record dry weights in the tracking log
- d. Use vendor supplied wooden (disposable) tongue depressors or stainless steel (properly decontaminated) spatulas to break up dried sediment as fine as possible
- e. Add 10 g of sample into weigh boats using the lab scale to check for accuracy – sample should be within +/- 0.1 g
- f. Transfer 10 g of sample from plastic weigh boat into extraction jar – transfer slowly to avoid spilling

3. Methanol extraction (~1 hour for 50 samples)

- a. Pour 20 mL of vendor provided methanol into the graduated measuring cup
- b. Transfer methanol into each extraction jar and immediately recap
- c. Once all extraction jars have received methanol, vigorously agitate jars for 1 minute,
- d. Set aside for settling
- e. Wait several minutes until sediment has settled and a visible layer of solvent has developed on top of the sediment layer

4. Filter extract (~1 hours for 50 samples)

- a. Pre-label filter tops with pan #s for all samples
- b. Use the bulb pipette to withdraw extract – withdraw very slowly to avoid sucking up sediment
- c. Transfer at least half a bulb of extract into a filter bottom
- d. Insert filter top and slowly press down until the top snaps into the bottom – you need to press hard until you hear an audible click
- e. Set aside

5. Initial dilution (25 μ L extract into 25mL diluent) (~1.5 hours for 50 samples)

- a. Pre-label the provided glass diluent vials with pan #s for all samples
- b. Remove filter top caps and use the provided, disposable fixed volume pipettor (25 μ L) and pipette tips to withdraw filtered extract
- c. Pipette 25 μ L of filtered extract directly into diluent vials
- d. Screw cap tightly onto diluent vials and mix by inverting several times
- e. Depending on time available, either place diluted samples into the fridge for later analysis or proceed to the second dilution and/or analysis

6. Second dilution (100 μ L extract into 900 diluent), if necessary (~1 hour for 50 samples)

- a. Pre-label caps of small glass vials with pan #s for all samples
- b. Set the adjustable volume pipettor to 900 μ L and attach a 1000 μ L pipette tip
- c. Pipette 900 μ L of Sample Diluent (provided) into each vial
- d. Set the adjustable volume pipettor to 100 μ L and attach a new 1000 μ L pipette tip
- e. Pipette 100 μ L of sample from the initial dilution vials directly into the fluid in each corresponding small vial – change pipette tips between samples
- f. Once complete, all samples are ready for analysis – either place in fridge or proceed with analysis

7. Set up for analysis (~0.5 hours for 50 samples)

- a. Remove test kits from fridge and allow at least one hour for reagents to come to room temperature
- b. Turn on the RPA-II analyzer and printer and allow to warm up for at least 30 minutes prior to use
- c. Label five, 25 mL Combitips as follows:
 - i. Conjugate
 - ii. Particles
 - iii. Wash
 - iv. Color
 - v. Stop

Note that combitips may be cleaned and reused as long as they are used to dispense the same reagent/solution

- d. Pre-label the top portions of nine clean plastic test tubes and one plastic tube for each sample as follows:
 - i. Negative Control (Diluent/Zero Standard) (replicate 1) or **Stan 1 Rep 1**
 - ii. Negative Control (Diluent/Zero Standard) (replicate 2) or **Stan 1 Rep 2**
 - iii. Standard 1 (replicate 1) or **Stan 2 Rep 1**
 - iv. Standard 1 (replicate 2) or **Stan 2 Rep 2**
 - v. Standard 2 (replicate 1) or **Stan 3 Rep 1**
 - vi. Standard 2 (replicate 2) or **Stan 3 Rep 2**

- vii. Standard 3 (replicate 1) or **Stan 4 Rep 1**
- viii. Standard 3 (replicate 2) or **Stan 4 Rep 2**
- ix. Control
- x. Blank
- xi. Sample 1 (Pan #)
- xii. Sample 2, etc...

8. Performing the test (~2.5 hours for 50 samples)

- a. Separate the upper rack (with numbered holes) from the magnetic base
- b. Place labeled test tubes into the rack
- c. Set the adjustable volume pipettor to 200 μ L and attach a clean 1000 μ L pipette tip
- d. Add 200 μ L of standards, control or sample to the bottom of their corresponding test tubes
- e. Attach the combitip labeled "Conjugate" to the repeater pipettor and set the dial to "1"
- f. Slowly withdraw fluid from the **Enzyme Conjugate** bottle into the combitip until it is full
- g. Dispense one dose of reagent back into the bottle to fully engage the ratchet mechanism and ensure that the next dose is completely accurate
- h. Dispense one dose (250 μ L) of **enzyme conjugate** onto the inside wall of each test tube approximately $\frac{1}{4}$ inch from the top. *Note that depending on the total number of samples being analyzed, you may need to refill the combitip several times. Make sure you stop dispensing doses and refill while there is still fluid left in the combitip – if you run the combitip completely dry, you may end up dispensing an inaccurate dose into a test tube. Also, keep careful track of the last test tube dosed prior to refilling the combitip so that you do not overdose or skip over a test tube. With the repeater set to "1", you can typically dispense enough doses for 30-40 tubes; ~20 doses set at "2". For a setting of "4", it's suggested that you stop and refill after 10 doses, or at the end of each row on the rack.*
- i. Thoroughly mix the bottle of **Magnetic Particles** by slowly swirling (do not shake)
- j. Attach the combitip labeled "Particles" to the repeater and set the dial to "2"
- k. Fill the combitip
- l. Dispense one dose back into the bottle to fully engage the ratchet mechanism and ensure that the next dose is completely accurate
- m. Add 500 μ L of **magnetic particles** down the side of each test tube using the same method described above
- n. Swirl the magnetic particles bottle prior to combitip refills to ensure that particles remaining suspended

- o. Once particles have been added to all test tubes, **Vortex** each test tube for 1-2 seconds at low speed
- p. Once all test tubes have been vortexed, stop and incubate at room temperature for 15 minutes
- q. When the timer stops, combine the upper rack with the magnetic base and press all test tubes completely into the base
- r. Wait two minutes for particles to separate – you will see the particles attached to the side of the test tubes. While waiting, pile approximately 4 paper towels on top of each other and place next to the sink
- s. When the timer stops, carry the combined rack over to the sink being careful that they do not become separated
- t. Using a smooth motion, invert the combined rack assembly over the sink and pour out the tube contents. *Note that the particles will still be attached to the inside walls of the test tubes as long as the top and bottom portions of the rack remain together.*
- u. **Keeping the rack inverted**, gently blot the test tube rims on the layers of paper towels. Remove as much liquid as possible but do not bang or shake the rack.
- v. Once dried, tilt the rack assembly upright again
- w. Attach the combitip labeled “Wash” to the repeater and set the dial to “4”
- x. Fill the combitip from the **Wash Solution** bottle
- y. Dispense one dose of solution back into the bottle to fully engage the ratchet mechanism and ensure that the next dose is completely accurate
- z. Add 1 mL of **wash solution** to the inside wall of each test tube using the procedure mentioned above. Refill the combitip with wash solution after every ten doses. Also, add 1 mL of wash solution to the test tube labelled “Blank” and set it aside.
- aa. Once solution has been added to all test tubes, remove each test tube from the rack and **Vortex** for 1-2 seconds
- bb. Wait two minutes for particle separation/attachment, then pour out the contents and dry as described previously
- cc. **Repeat the complete Wash step one more time for a total of two wash cycles**
- dd. Once the second wash has been completed and the contents have been poured out, remove the upper rack with the tubes attached from the magnetic base
- ee. Attach the combitip labeled “Color” to the repeater and set the dial to “2”
- ff. Fill the combitip from the **Color** reagent bottle
- gg. Dispense one dose of reagent back into the bottle to fully engage the ratchet mechanism and ensure that the next dose is completely accurate
- hh. Add 500 µL of **Color** reagent to the inside of each test tube using the same process mentioned earlier

- ii. Once reagent has been added to all test tubes, remove each test tube from the rack and **Vortex** for 1-2 seconds at low speed
- jj. Once all test tubes have been vortexed, stop and incubate for 20 minutes at room temperature. *Note that during incubation sample fluid will begin to turn blue*
- kk. Attach the combitip labeled “Stop” to the repeater and set the dial to “2”
- ll. Fill the combitip from the **Stop solution** bottle
- mm. Dispense one dose back into the bottle to fully engage the ratchet mechanism and ensure that the next dose is completely accurate
- nn. When the timer stops, add 500 µL of **Stop solution** to all test tubes using the procedure mentioned previously – sample fluid will turn yellow
- oo. Tubes are ready for analysis as soon as Stop solution has been added – no vortex needed
- pp. Analyze all test tubes within ~15 minutes of Stop solution addition

9. Results interpretation (~15 minutes for 50 samples)

Instrument Display	Operator Response
SELECT COMMAND	RUN
RUN PROTOCOL	Scroll down until the cursor is blinking next to “PCB” and press ENTER
SPL REPLICATES (1-5)	Press “1”, then press ENTER
BLANK TUBE	
INSERT TUBE	Insert tube labeled “Blank”
EVALUATING TUBE	
REMOVE TUBE (Beep)	Remove tube
CAL#1, REP #1	
INSERT TUBE	Insert tube labeled “Stan 1 Rep 1”
EVALUATING TUBE	
REMOVE TUBE (Beep)	Remove tube
Repeat process until the first 8 tubes have been evaluated	
PRINTING DATA	Data will print
PRINTING CURVE	Curve will print
CTRL #1 REP #1	
INSERT TUBE	Insert tube labeled “Control”
EVALUATING TUBE	
REMOVE TUBE (Beep)	Remove tube
STORE CALIBRATION	Press “YES”
SPL #1 REP #1	
INSERT TUBE	Insert first sample tube
EVALUATING TUBE	
REMOVE TUBE	Remove tube
SPL #2 REP #1	Insert second sample

Continue until the 20th sample has been evaluated, then press "STOP".

Tear off the printout from the printer and label with the pans #s analyzed

Repeat the entire process rerunning the standards/control every 20 samples until all samples have been evaluated. *Note that evaluation of all samples should be completed within 15 minutes.*

Once all samples have been evaluated, be sure to x-reference the SMPL # from the printout with the Pan #.

Appendix E

PCB Congener Data Validation Reports

(Provided on CD only)

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Data Validation Report

Project Name: New Bedford Harbor 2014

Collection Date: July 17, 2014

Report Date: September 12, 2014

Matrix: Sediment

Method: SOP 5-128

Parameters: PCB Congeners

Validation Level: Tier I Stage 2A

Laboratory: Battelle

Sample Delivery Group (SDG): 14-0314

Sample Identification:

S-14L-OG5-00-05
S-14L-OH10-00-05
S-14L-OH2-00-05
S-14L-OI5-00-05
S-14L-OJ08-00-05
S-14L-OJ13-00-05
S-14L-OL17-00-05
S-14L-OL6-00-05
S-14L-OL9-00-05
S-14L-OL9-00-05MS
S-14L-OL9-00-05MSD
S-14L-OL9-DUP-00-05
S-14L-ON11-00-05
S-14L-ON20-00-05
S-14L-OO15-00-05
S-14L-OP10-00-05
S-14L-OP18-00-05

Introduction

This data review covers 15 sediment samples listed on the cover sheet. The analyses of PCB Congeners (NOAA 18 congeners) were performed according to Battelle SOP 5-128, *Identification and Quantification of Polychlorinated Biphenyls (By Congener and Aroclor) and Chlorinated Pesticides by Gas Chromatography/Electron Capture Detection*.

A qualification summary is provided at the end of this report which details any data validation qualifiers that were assigned.

An EPA Tier I Stage 2A review was performed on all of the samples.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

New Bedford Harbor 2014
PCB Congeners - Data Qualification Summary - SDG 14-0314

SDG	Sample IDs	Compound	Flag	Reason
14-0314	Duplicate Pair 1: S-14L-OL9-00-05 & S-14L-OL9-DUP-00-05	All PCB Congeners	J (all detects)	The sample duplicate criteria of $\pm 50\%$ were exceeded for all congeners where both results were greater than 2 times the reporting limit. All PCB congener results were flagged with J (detects).
	All samples in SDG	Congeners 206 & 209	J (detects) or UJ (non- detects)	PCB 206 and PCB 209 did not meet the individual %D criteria in several CCVs. Sample results for PCB 206 and PCB 209 were flagged with J (detects) or UJ (non-detects) for all associated samples.
	S-14L-OG5-00-05 S-14L-OH10-00-05 S-14L-OH2-00-05 S-14L-OI5-00-05 S-14L-OJ08-00-05 S-14L-OL17-00-05 S-14L-OL6-00-05 S-14L-OL9-DUP-00-05 S-14L-ON11-00-05 S-14L-ON20-00-05 S-14L-OO15-00-05 S-14L-OP18-00-05	All PCB Congeners	J (detects) or UJ (non- detects)	Surrogates were diluted out of all samples except S-14L-OL9-00-05, S-14L-OP10-00-05, and S-14L-OJ13-00-05. Dilutions were required because PCB congeners responded above the upper limit of the linear calibration. All PCB congener results were flagged J (detects) or UJ (non-detects) for samples without reported surrogate recoveries.

Attachment 1

Tier I Stage 2A Data Validation Checklist

Project: New Bedford Harbor 2014

Page 1 of 2

Laboratory: Battelle Duxbury

Laboratory Batch: 14-0314

Analysis: PCB Congeners by GC/ECD

Matrix: Sediment

Method: SOP-5-128

Collection Date: 07/17/14

Reviewer: B. Cutie

Review Date: 09/12/14

Data Element	Acceptance Criteria	Acceptable (Yes/No)/Comment
Preservation and technical holding times	Cooled to $4 \pm 2^{\circ}\text{C}$. HT: Extract within 14 days, Analyze within 40 days	Yes
Initial Calibration (ICAL), Independent Calibration Check (ICC) and Continuing Calibration Verification (CCV)	CCV every 10 samples or 24 hours (whichever is shorter) ICAL – six point, $r^2 \geq 0.995$ (linear curve fit); ICC $\leq 20\%$ (Individual), $\leq 20\%$ (mean) CCV $\leq 20\%$ (Individual), $\leq 15\%$ (mean)	ICAL – Yes ICC – Yes CCV – No. PCB 206 and PCB 209 failed the individual %D criteria in several CCVs. Sample results for PCB 206 and PCB 209 will be flagged J (detects) or UJ (non-detects) for all associated samples.
Procedural Blank (PB)	1 per extraction batch Sample analytes must be $\geq 5\text{X}$ PB	Yes
Matrix Spike/Matrix Spike Duplicate (MS/MSD)	1 per 20 samples; %R = 40-120% RPD $\leq 30\%$ (for compounds $>5\text{X}$ background)	Yes. Several target PCB congeners were not recovered in the MS/MSD. PCB congeners were not recovered due to high background PCB concentrations in the samples. In these samples, the concentration of target congeners in the MS/MSD was not $>5\text{x}$ background. No sample results were qualified.
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	1 per extraction batch; %R = 40-120% RPD $\leq 30\%$;	Yes
Surrogate spikes	Per sample; %R 40-120%	No. Surrogates were diluted out of all samples except S-14L-OL9-00-05, S-14L-OP10-00-05, and S-14L-OJ13-00-05. Dilutions were required because PCB congeners responded above the upper limit of

Attachment 1

Tier I Stage 2A Data Validation Checklist

Project: New Bedford Harbor 2014

Page 2 of 2

Data Element	Acceptance Criteria	Acceptable (Yes/No)/Comment
		the linear calibration. PCB results will be flagged J (detects) or UJ (non-detects) for all samples without surrogate recoveries.
Internal standards	Per sample: -50% to 100% of area counts of the ICAL	Yes
Completeness post-validation	Completeness $\geq$ 95%	Yes
Field replicates	RPD $\leq$ 50%	No. Duplicate sample pair is S-14L-OL9-00-05 (M4562) and S-14L-OL9-DUP-00-05 (M4563). All PCBs reported for the duplicate pair exceeded criteria of $\pm 50\%$ RPD. PCBs results will be flagged J (detects).
Percent solids	$\geq$ 50% for all; reported as dry-weight basis	Yes

References:

Final Quality Assurance Project Plan Addendum 7.0, Environmental Monitoring, Sampling and Analysis, New Bedford harbor Superfund Site, New Bedford, MA, April 2014

EPA-NE Environmental Data Review Supplement, Regional Data Review Elements and Superfund Specific Guidance/Procedures, April 2013.

April 16, 2015

Attn: Ms. Deirdre Dahlen
Battelle
141 Longwater Drive
Suite 202
Norwell, MA 02061

Subject: NBH Data Validation

Dear Ms. Dahlen,

Enclosed is the final validation report for the sample delivery group (SDG) listed below.

<u>SDG #</u>	<u>Fraction</u>	<u>Date Received</u>
15-0039	PCB Congeners	4/3/15
15-0072	PCB Congeners	4/3/15

The data validation was performed at the Tier I+ level using the following guidelines, as applicable to each method:

- EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Specific Guidance/Procedures, April 2013
- EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008

Please feel free to contact me if you have any questions.

Sincerely,



Elizabeth Cutié
Battelle Columbus Operations

Data Validation Report

Project Name: New Bedford Harbor

Collection Date: November 17 through 25, 2014

Report Date: March 16, 2015

Matrix: Sediment

Parameters: PCB Congeners

Validation Level: Tier I+

Laboratory: Battelle

Sample Delivery Group (SDG): 15-0039

Sample Identification:

S-14N-RN06-00-05
S-14N-PCC15-05-10
S-14N-PV5-05-10
S-14N-RBB22-05-10
S-14N-OI18-00-05
S-14N-OP10-00-05
S-14N-RM26-00-05
S-14N-RM26-00-05-REP
S-14N-LS03-00-05
S-14N-RCC14-00-05
S-14N-SO2-00-05
S-14N-SO9-00-05
S-14N-LBB16-00-05

Introduction

This data review covers 13 sediment samples listed on the cover sheet. The analyses of PCB Congeners (139 congeners) were performed according to Battelle SOP 5-315 (GC/MS-SIM method based on key components of the PCB congener analysis described in Method 1668A).

A qualification summary is provided at the end of this report which details any data validation qualifiers that were assigned.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

**New Bedford Harbor
PCB Congeners (Total) - Data Qualification Summary - SDG 15-0039**

SDG	Sample IDs	Compound	Flag	Reason
15-0039	Duplicate Pair : S-14N-RM26-00-05 and S-14N-RM26-00-05 -REP	PCBs 9, 11, 19, 40, 45, 46, 75 and 131	J/ (detects)	PCBs 9, 11, 19, 40, 45, 46, 75 and 131 exceeded the RPD criteria. Sample results for these PCBs will be flagged J (detects) in the associated samples.
15-0039	All samples in the SDG	PCB 95	J/UJ (detects/ non-detects)	PCB 95 did not meet RPD individual %D criteria in the initial calibration verification sample (ICV). Sample results for this PCB will be flagged J (detects) or UJ (non-detects) in the associated samples.

SDG: sample delivery group

Attachment 1 Data Validation Checklist

Project: New Bedford Harbor

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Laboratory: Battelle Norwell

Laboratory Batch: 15-0039

Analysis: PCBs by GC/MS

Reviewer: B. Cutie

Review Date: 4/9-4/15/15

Matrix: Sediment

Collection Date: 11/17-11/25/14

Data Element	Acceptance Criteria	Acceptable (Yes/No)/Comment
Preservation and technical holding times	Ice, 4°C ± 2°C Extract within 14 days (cold) and 1 year (frozen) Analyze within 40 days	Yes
Procedural Blank	Organic results in the Procedural Blank are less than the ssRL (<ssRL). Samples must be greater than five times the blank concentration (>5xPB)	Yes
Laboratory Control Sample/Laboratory Control Sample Duplicate	Recovery values 40-120%; Relative Percent Difference < 30%	Yes
Matrix Spike/ Matrix Spike Duplicate	Recovery values 40-120%; Organics results less than 30% Relative Percent Difference (RPD). Spike must be >5x background concentration.	No/ Many PCBs exceeded the RPD criteria however a portion of the MSD sample was lost during processing and the MSD had low or no PCB concentrations. The impact on sample results could not be determined since the loss was not quantified. Precision was demonstrated with the LCS/LCSD. No sample results were qualified.
Internal Standards	Per sample, -50% to +100% of area counts of initial calibration Level 3 standard	Yes
Field Duplicates	Organics results less than 50% Relative Percent Difference (RPD). Concentrations must be >2 times the MDL.	No/PCBs 9, 11, 19, 40, 45, 46, 75 and 131 exceeded the RPD criteria.
Surrogate Compound Recovery	Recovery results between 40% and 120%.	No/ Many surrogates were under recovered in the MSD however a portion of the MSD sample was lost during processing. The impact on

Attachment 1 Data Validation Checklist

Project: New Bedford Harbor

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Data Element	Acceptance Criteria	Acceptable (Yes/No)/Comment
		sample results cannot be determined since the loss was not quantified. Precision was demonstrated with the LCS/LCSD. No sample results were qualified.
Instrument Calibration	R-squared greater than 0.995. (based on linear curve fit)	Yes
Initial Calibration Verification (ICV)	Individual and Mean %D $\leq$ 25%	No/PCB 95 did not meet the individual %D criteria in the ICV.
Continuing Calibration Verification (CCV)	Individual %D $\leq$ 25%; Mean %D $\leq$ 15%	Yes
Percent solids	$\geq$ 50% for all; reported as dry-weight basis	Yes

*Duplicate Pair is S-14N-RM26-00-05 and S-14N-RM26-00-05 -REP.

References:

Final Quality Assurance Project Plan Addendum 7.0, Environmental Monitoring, Sampling and Analysis, New Bedford harbor Superfund Site, New Bedford, MA, April 2014

EPA-NE Environmental Data Review Supplement, Regional Data Review Elements and Superfund Specific Guidance/Procedures, April 2013.

Data Validation Report

Project Name: New Bedford Harbor

Collection Date: July 25 through August 1, 2014;
November 17 through 25, 2014;
December 10 through 19, 2014

Report Date: April 16, 2015

Matrix: Sediment

Parameters: PCB Congeners

Validation Level: Tier I+

Laboratory: Battelle

Sample Delivery Group (SDG): 15-0072

Sample Identification:

S-14N-PCC15-00-05
S-14N-PV5-00-05
S-14N-RBB22-00-05
S-14D-2014-36-63-00-10
S-14D-2014-36-75-00-10
S-14D-2014-36-76-00-10-REP
S-14D-2014-33-43-00-10
S-14D-2014-35-79-10-20
S-14D-2014-35-70-20-30
S-14D-2014-35-68-00-10
S-14D-2014-35-68-00-10-REP
S-14D-2014-35-7-10-20
S-14D-2014-25-1-10-20
S-14D-2014-26-1-00-10
S-14D-2014-30-6-00-10
S-14D-2014-31-6-00-10
S-14D-2014-31-7A-00-10
S-14D-2014-31-7B-00-10
S-14L-34-29-30-34

Introduction

This data review covers 19 sediment samples listed on the cover sheet. The analyses of PCB Congeners (139 congeners) were performed according to Battelle SOP 5-315 (GC/MS-SIM method based on key components of the PCB congener analysis described in Method 1668A).

A qualification summary is provided at the end of this report which details any data validation qualifiers that were assigned.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

**New Bedford Harbor
PCB Congeners (Total) - Data Qualification Summary - SDG 15-0072**

SDG	Sample IDs	Compound	Flag	Reason
15-0072	All samples in the SDG	PCB 206	J/UJ (detects/ non-detects)	No/PCB 206 exceeded the %R criteria in the LCS and LCSD. Sample results for this PCB will be flagged J (detects) or UJ (non-detects) in the associated samples.
15-0072	All samples in the SDG	PCB 206	J/UJ (detects/ non-detects)	No/PCB 206 exceeded the %R criteria in the MS and MSD. Sample results for this PCB will be flagged J (detects) or UJ (non-detects) in the associated samples.
15-0072	S-14N-PCC15-00-05 S-14N-PV5-00-05 S-14N-RBB22-00-05 S-14D-2014-36-63-00-10 S-14D-2014-36-75-00-10 S-14D-2014-36-76-00-10-REP S-14D-2014-33-43-00-10 S-14D-2014-35-70-20-30 S-14D-2014-35-68-00-10 S-14D-2014-35-7-10-20 S-14D-2014-30-6-00-10 S-14D-2014-31-7A-00-10	All reported PCBs	J/UJ (detects/ non-detects)	No/Internal standards for several samples exceeded the area count criteria.
15-0072	S-14D-2014-35-68-00-10 S-14D-2014-35-68-00-10-REP	PCB 91	J/ (detects)	PCB 91 exceeded the RPD criteria in the field duplicate pair. Sample results for this PCB will be flagged J (detects) or UJ (non-detects) in the associated samples.
15-0072	S-14D-2014-35-79-10-20 S-14D-2014-36-76-00-10-REP S-14D-2014-33-43-00-10 S-14D-2014-35-70-20-30 S-14D-2014-35-68-00-10	PCB 189	J/UJ (detects/ non-detects)	PCB 189 did not meet individual %D criteria in one CCV (CCV F9337.D). Sample results for this PCB will be flagged J (detects) or UJ (non-detects) in the associated samples.

SDG: sample delivery group

Attachment 1 Data Validation Checklist

Project: New Bedford Harbor

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Laboratory: Battelle Norwell

Laboratory Batch: 15-0039

Analysis: PCBs by GC/MS

Reviewer: B. Cutie

Review Date: 4/9-4/15/15

Matrix: Sediment

Collection Date: 11/17-11/25/14 (Intertidal)
7/25-8/1/14 and 12/10-12/19/14

Data Element	Acceptance Criteria	Acceptable (Yes/No)/Comment
Preservation and technical holding times	Ice, 4°C ± 2°C Extract within 14 days (cold) and 1 year (frozen) Analyze within 40 days	Yes
Procedural Blank	Organic results in the Procedural Blank are less than the ssRL (<ssRL). Samples must be greater than five times the blank concentration (>5xPB)	Yes
Laboratory Control Sample/Laboratory Control Sample Duplicate	Recovery values 40-120%; Relative Percent Difference < 30%	No/PCB 206 exceeded the %R criteria in the LCS and LCSD
Matrix Spike/ Matrix Spike Duplicate	Recovery values 40-120%; Organics results less than 30% Relative Percent Difference (RPD). Spike must be >5x background concentration.	No/PCB 206 exceeded the %R criteria in the MSD and MSD
Internal Standards	Per sample, -50% to +100% of area counts of initial calibration Level 3 standard	No/Internal standards for several samples exceeded the area count criteria.
Field Duplicates	Organics results less than 50% Relative Percent Difference (RPD). Concentration must be > 2 times the MDL.	No/PCB 91 exceeded the RPD criteria.
Surrogate Compound Recovery	Recovery results between 40% and 120%.	Yes
Instrument Calibration	R-squared greater than 0.995. (based on linear curve fit)	Yes
Initial Calibration Verification (ICV)	Individual and Mean %D ≤ 25%	Yes
Continuing Calibration Verification (CCV)	Individual %D ≤ 25%; Mean %D ≤ 15%	No/PCB 189 did not meet individual %D criteria in one CCV (CCV F9337.D).

Attachment 1
Data Validation Checklist

Project: New Bedford Harbor

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Data Element	Acceptance Criteria	Acceptable (Yes/No)/Comment
		PCB 206 did not meet individual %D criteria in one CCV (CCV F9436.D) however there were no associated samples.
Percent solids	≥ 50% for all; reported as dry-weight basis	Yes

*Duplicate Pair is S-14D-2014-35-68-00-10 and S-14D-2014-35-68-00-10-REP

References:

Final Quality Assurance Project Plan Addendum 7.0, Environmental Monitoring, Sampling and Analysis, New Bedford harbor Superfund Site, New Bedford, MA, April 2014

EPA-NE Environmental Data Review Supplement, Regional Data Review Elements and Superfund Specific Guidance/Procedures, April 2013.