

i Volatiles 1)

DATA SUMMARY FORM: ORGANICS

Sito Nami:

WATER SAMPLES

(1/54)

Case #: 15-465545 Sampling Date(s): 12/19, 20/90

To calculate sample quantitation limit:
(QL * Dilution Factor)

Sample No. Dilution Factor	CEB 10 1.0	CEB 10RE 1.0	CEB 11 1	CEBURE 1	CEB 12 1	CEB 11 Dup 1	CEB 14 1	CEB 14RE 1
Location	CM-001-MW-01	CM-001-MW-01	CM-UF3-PWC1	CM-UF3-PWC1	CM-UF3-PWC1	CM-UF3-PWC1	CM-AD5-PWC1	CM-AD5-PWC1
Trip			Foal		Foal			
Blank			Dup		Dup.			
Dichlorodifluoromethane	UL	UL	39 L	47 UL	47 L	43 G	UL	UL
Chloromethane			UL	UL	UL	UL		
Bromomethane								
Vinyl Chloride								
chloroethane								
Methylene chloride								
Methylcyclohexane								
1,1-Dichloroethene			5.2 L	2.2 L	6.9 L	3.2	3.2 L	1.7 L
1,1-Dichloroethane			UL	UL	UL	UL	UL	UL
Trans-1,2-Dichloroethene			UL	UL	UL			
Chloroform	10	10 L						
1,2-Dichloroethane	UL	UL						
Trichlorofluoromethane			UL	UL	UL	UL	UL	UL
1,1,1-Trichloroethane			10 L	7.9 L	15 L	7.7	2.2 L	2.1 L
Cis-1,2-Tetrachloride			UL	UL	UL	UL	UL	UL
Bromodichloromethane								
1,2-Dichloropropane								
Trans-1,3-Dichloropropene								
Trichloroethene	UL	UL	25 L	18 L	31 L	17 L	36 L	23 L

QL = Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS
revised 07/90

81to Name:

Case #15-46545 Sampling Date(s): 12/19, 20/20

WATER SAMPLES
($\mu\text{g/L}$)

DATA SUMMARY FORM: ORGANICS

To calculate sample quantitation limit:
(QL * Dilution Factor)

[illegible]

QL = Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS
revised 07/90

(Volatiles 2)

DATA SUMMARY FORM: ORGANICS

Site Name:

WATER SAMPLES

(µg/L)

Case #13465-SAS Sampling Date(s): 12/19/2019

To calculate sample quantitation limit:
(QL * Dilution Factor)

Sample No. Dilution Factor Location	CEBIS 1.0 CM-GWS-ZW01	CEBISRE 1.0 CM-GWS-ZW01	CEB16 1.0 CM-2635A-RW	CEB16 1.0 CM-2635A-RW	CEB17 1.0 CM-2704A-RW01	CEB18 1.0 CM-002-MNW	CEB19 1.0 CM-H0518-MNW	CEB20-D 1.0 CM-H0111-MNW	CEB21 1 CM003-MNW
ROL (µg/L)									Field Blank
1.0 Dibromochloroethane	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 1,1,2-Trichloroethane	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 Benzene	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 Cis-1,3-Dichloropropene	UL	UL	UL	UL	UL	UL	UL	UL	UL
NR 2-Chloroethanol	NR	NR	NR	NR	NR	NR	NR	NR	NR
1.0 Bromoform	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 Tetrachloroethene	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 1,1,2,2-Tetrachloroethane	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 Toluene	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 Chlorobenzene	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 Ethylbenzene	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 1,2-Dichlorobenzene	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 1,3-Dichlorobenzene	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 1,4-Dichlorobenzene	UL	UL	UL	UL	UL	UL	UL	UL	UL
1.0 Total xylene	UL	UL	UL	UL	UL	UL	UL	UL	UL
302003									

QL = Quantitation Limit

SEE NARRATIVE FOR CODE DEFINITIONS
revis 07/90

March 4, 1991

Bruce Beach
Dynamac Corporation
Public Ledger Building
6th and Chestnut Streets
Suite 872
Philadelphia, Pennsylvania 19106

Reference: Case NO: 15465SAS
SDG NO: CEB10
Versar Laboratories
Volatiles: 14/WATER

Dear Mr. Beach:

SAS 15465 consisted of fourteen (14) water samples were submitted to Versar Laboratories for volatile analyses using the method 601/602. The data was validated based on the following parameters:

- data completeness
 - holding times
 - calibration
 - blanks
 - surrogate recoveries
 - * • matrix spike/matrix spike duplicate
 - * • field duplicate
 - * • Data Requirement as outlined in the SAS request
 - * • QC Requirement as outlined in the SAS request
- * All criteria were met for this parameter.

AR302006

Data Completeness

There was no data included for the analysis of sample CEB13. This sample was listed on both the Traffic Report and Chain of Custody Form.

Holding Times

The 14 day holding time specified in the method was exceeded for samples CEB10RE, CEB11RE, CEB14RE and CEB15RE. However the 6 day VTSR holding time specified in the SAS Request was exceeded with all samples. Estimate (L) bias low all positive and (UL) all non-detected sample data.

Calibrations

There were compounds with %RSD and %D outside of QC limit for the initial continuing calibrations for method 601/602. No qualification were necessary, because all samples were previously qualified.

Blanks

There were no positive hits in the method blanks. The field and trip blank contamination is summarized in the following table:

Method: 601

<u>Compound</u>	<u>Conc. Detected</u>	<u>Action Level</u>	<u>Samples Affected</u>
Chloroform	16 ug/kg	80 ug/Kg	None

Chloroform was not detected in any of the samples, no qualifications were necessary.

Surrogate Recoveries

The lab did not perform surrogate analysis for Method 601, because the surrogate compound coelutes with target compounds. All criteria met for Method 602 surrogate recoveries.

Data Requirement

All criteria met.

QC Requirement

All criteria met.

AR302007

Bruce Beach
Page 3

Other

There were no outliers for the duplicate, matrix spike, matrix spike duplicate and EPA QC vial analyses for both methods. The field duplicate analysis was performed on January 2 using samples CEB11 and CEB12. The laboratory's duplicate analysis was performed on January 3 using two aliquots of sample CEB11.

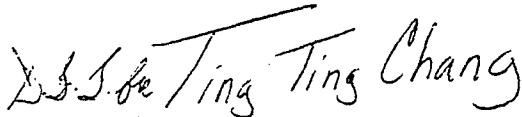
All data for 15465SAS was reviewed in accordance with the "Functional Guidelines for Evaluating Organic Analyses" in conjunction with the Region III Modifications, and criteria outlined in the SAS. The text of this report addresses only those problems affecting usability.

Sincerely,

DYNAMAC CORPORATION



Darline Terrell
Project Manager



Ting-Ting Chang
Data Reviewer

enclosures
Data Validation Worksheets
Data Summary Form
Sample Results Summary Tables
Data Package - Case 15465SAS, SDG CEB10

AR302008

Data Review Worksheets

Site Name _____

Reference Number _____

REVIEW OF ORGANIC
CONTRACT LABORATORY DATA PACKAGE

The hardcopied (laboratory name) Versar Laboratories data package received at Region I has been reviewed and the quality assurance and performance data summarized. The data review included:

Case No. 15465SAS SAS No. _____ Sampling Date(s) 12/19, 20/90
SDG No. CEB10 Matrix Water Shipping Date(s) 12/20/90
No. of Samples 14 Date Rec'd by Lab 12/1/90

Traffic Report Nos: CEB10, CEB11, CEB12, CEB13, CEB14, CEB15,
CEB16, CEB17, CEB18, CEB19, CEB20, CEB21, CEB22, CEB23,
Trip Blank No.: CEB10, CEB21
Equipment Blank No.: C
Field Dup Nos: CEB11, CEB12

SOW No. _____ requires that specific analytical work be done and that associated reports be provided by the laboratory to the Regions EMSL-LV, and SMO. The general criteria used to determine the performance were based on an examination of:

-Data Completeness
-Holding Times X
-GC/MS Tuning
-Calibrations
-Blanks
-Surrogate Recoveries

-Matrix Spike/Matrix Spike Dup
-Field Duplicates
-Internal Standard Performance
-Pesticide Inst. Performance
-Compound Identification
-Compound Quantitation

Overall comments _____

Definitions and Qualifiers:

- A - Acceptable data.
J - Approximate data due to quality control criteria.
R - Reject data due to quality control criteria.
U - Compound not detected.

Reviewer: Ty-Ty ChangDate: 3-04-91D. L. L. L.

AR302009

I. DATA COMPLETENESS

DATE REC'D

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

AR302010

REGION I
Data Review Worksheets

II. HOLDING TIMES

Complete table for all samples and circle the fractions which are not within criteria.

SAMPLE ID	DATE SAMPLED	VOA DATE ANAL	BNA		PEST	
			DATE EXTR	DATE ANAL	DATE EXTR	DATE ANAL
CEB 10	12/19/90	01/02/91 ¹⁴				
CEB 10 RE	12/19/90	01/03/91 ¹⁵				
CEB 11	12/19/90	01/02/91 ¹⁴				
CEB 11 RE	12/19/90	01/03/91 ¹⁵				
CEB 12	12/19/90	01/02/91 ¹⁴				
CEB 11 Dup	12/19/90	01/02/91 ¹⁴				
CEB 14	12/19/90	01/02/91 ¹⁴				
CEB 14 RE	12/19/90	01/03/91 ¹⁵				
CEB 15	12/19/90	01/02/91 ¹⁴				
CEB 15 RE	12/19/90	01/03/91 ¹⁵				
CEB 16	12/20/90	01/02/91 ¹³				
CEB 16 RE	12/20/90	01/03/91 ¹⁴				
CEB 17	12/20/90	01/03/91 ¹⁴				
CEB 18	12/20/90	01/03/91 ¹⁴				
CEB 19	12/20/90	01/03/91 ¹⁴				

VOA - U
O
P
S

AR302011

II. HOLDING TIMES

Complete table for all samples and circle the fractions which are not within criteria.

VCA

all samples exceeded the 6 days holding time for VTSP

3, soils are

352: 1-2

AR302012

REGION I
Data Review Worksheets

III. GC/MS TUNING

— The DFTPP performance results were reviewed and found to be within the specified criteria.

If no,

Samples affected: _____

— The BFB performance results were reviewed and found to be within the specified criteria.

If no,

Samples affected: _____

If mass calibration is in error refer to the Region guidelines for expanded criteria. If necessary, all associated data as unusable (R).

AR302013

REGION I
Data Review Worksheets

IV B. ^{Volatile} SEMIVOLATILE CALIBRATION VERIFICATION

Method 601

Date of Initial Calibration : 01/02/91
Dates of Continuing Calibrations: 01/02/91
Instrument ID : Two

DATE	CRITERIA OUT RF, %RSD, RF, %D	COMPOUND
01/02/91 Final standard	%RSD Samples Affected:	Dichlorodifluoromethane (-31%)
01/02/91	RT % D Samples Affected:	Dichlorodifluoromethane (-0.99%)
4	% D Samples Affected:	Chloromethane (-1.05%)
4	% D Samples Affected:	" (31.0%)
4	RT % D Samples Affected:	Vinyl chloride (-0.82%)
4	% D Samples Affected:	" (5.5%)
4	RT % D Samples Affected:	Bromomethane (-1.16%)
4	% D Samples Affected:	" (74%)
4	RT % D Samples Affected:	Chloromethane (-0.99%)
4	% D Samples Affected:	" (41.0%)
4	RT % D Samples Affected:	Trichlorofluoromethane (-1.55%)
4	% D Samples Affected:	" (28%)
4	RT % D Samples Affected:	1,1-Dichloroethane (-1.56%)
4	% D Samples Affected:	" (36%)

See worksheet IV-A for criteria and actions.

A new worksheet should be filled out for each initial curve.

AR302014

(2)
Data Review Worksheets

IV A. VOLATILE CALIBRATION VERIFICATION

Date of Initial Calibration : 01/02/91
Dates of Continuing Calibrations: 01/02/91
Instrument ID : 407
Matrix/Level :

DATE	CRITERIA OUT RF, %RSD, RF, %D	COMPOUND (VALUE)
01/02/91	RT %D Samples Affected:	Trans 1,2 - Dichloroethane (-1.18%)
4	%D Samples Affected:	4 (29%)
01/02/91	RT %D Samples Affected:	1,1 - Dichloroethane (-1.13%)
4	%D Samples Affected:	4 (28%)
4	RT %D Samples Affected:	Chloroform (-0.87%)
4	%D Samples Affected:	1,2 - Dichloroethane (29%)
4	%D Samples Affected:	1,1,1 - Trichloroethane (36%)
4	%D Samples Affected:	Carbon Tetrachloride (43%)
4	%D Samples Affected:	1,2 - Dichloropropane (37%)
4	%D Samples Affected:	Trichloroethane (32%)

AR302015

Data Review Worksheets

(3)

IV A. VOLATILE CALIBRATION VERIFICATION

Date of Initial Calibration : 01/02/91
 Dates of Continuing Calibrations: 01/02/91
 Instrument ID :
 Matrix/Level : TWT

DATE	CRITERIA OUT RF, IRSD, RF, ID % D	COMPOUND (VALUE)
01/02/91		CIS-1,3-Dichloropropene (41%)
4	4	Trans-1,3-Dichloropropene (44%)
6	4	1,1,2-Trichloroethane (51%)
1	1	Dibromochloromethane (53%)
4	4	Tetra chloroethane (46%)
1	1	Chlorobenzene (43%)
6	6	Bromoform (76%)
4	4	1,1,2,2-tetrachloroethane (88%)
4	4	1,3-Dichlorobenzene (27%)
4	4	1,4-Dichlorobenzene (28%)

AR302016

Data Review Worksheets

IV A. VOLATILE CALIBRATION VERIFICATION

Date of Initial Calibration : 1/02/91
 Dates of Continuing Calibrations: 1/02/91
 Instrument ID : Two
 Matrix/Level :

DATE	CRITERIA OUT RF, %RSD, RF, %D	COMPOUND (VALUE)
1/02/91	0.7%	1,2-Dichlorobenzene (46%)
	Samples Affected:	
1/03/91	RT % D	Dichlorodifluoromethane (1.01%)
	Samples Affected:	
4	1	Chloromethane (1.09%)
	Samples Affected:	
4	1	Vinyl chloride (0.75%)
	Samples Affected:	
4	1	Bromomethane (1.29%)
	Samples Affected:	
4	1	Chloroethane (0.80%)
	Samples Affected:	
4	1	Trichlorofluoromethane (0.94%)
	Samples Affected:	
4	1	1,1-Dichloroethane (0.87%)
	Samples Affected:	
4	1	Methylene chloride (0.37%)
	Samples Affected:	
4	1	Trans-1,2-Dichloroethane (0.86%)
	Samples Affected:	

AR302017

(57) Data Review Worksheets

IV A. VOLATILE CALIBRATION VERIFICATION

Date of Initial Calibration : 1/02/91
 Dates of Continuing Calibrations: 1/05/91
 Instrument ID : 7500
 Matrix/Level :

DATE	CRITERIA OUT RF, IRSD, RF, ID	COMPOUND (VALUE)
1/03/91	RT% _D Samples Affected:	1,1-Dichloroethane (0.83%)
1/03/91	4 Samples Affected:	Chloroform (0.81%)
1/03/91	RT% _D Samples Affected:	Dichlorodifluoromethane (1.30%)
4	0% _D Samples Affected:	Chloroethane (-36%)
4	4 Samples Affected:	Chloroethane (0.89%)
4	4 Samples Affected:	Vinyl chloride (0.88%)
4	4 Samples Affected:	Bromomethane (1.10%)
4	4 Samples Affected:	Trichlorofluoromethane (0.77%)
4	4 Samples Affected:	1,1-Dichloroethene (0.80%)
1	4 Samples Affected:	1,1,2,2-Tetrachloroethane (-28%)

AR302018

Data Review Worksheets

IV A. VOLATILE CALIBRATION VERIFICATION

(1)

Date of Initial Calibration : 1/02/81
 Dates of Continuing Calibrations: 1/02/81
 Instrument ID : eleven
 Matrix/Level :

DATE	CRITERIA OUT RF, %RSD, RF, %D	COMPOUND (VALUE)
1/02/81	%RSD	Dichlorodifluoromethane (-31%)
	Samples Affected:	
	%	Chloromethane (86%)
	Samples Affected:	
	%	Chloroethane (40%)
	Samples Affected:	
C.C. 1/02/81	RT %D	Dichlorodifluoromethane (1.56%)
	Samples Affected:	
	%	Chloromethane (1.24%)
	Samples Affected:	
	%D	" (178%)
	Samples Affected:	
	RT %D	Methyl Acetate (2.25%)
	Samples Affected:	
	%D	" (81%)
	Samples Affected:	
	%	Bromomethane (-100%)
	Samples Affected:	
	RT %D	Chloroethane (1.08%)
	Samples Affected:	

AR302019

Data Review Worksheets

IV A. VOLATILE CALIBRATION VERIFICATION

(2)

Date of Initial Calibration : 1/02/81
 Dates of Continuing Calibrations: 1/2/81
 Instrument ID : eleven
 Matrix/Level :

DATE	CRITERIA OUT RF, TRSD, RF, ID	COMPOUND (VALUE)
1/2/81	%D Samples Affected:	Chloroethane (165%)
1/2/81	RT %D Samples Affected:	Trichlorofluoromethane (0.82%)
4	%D Samples Affected:	" (31%)
4	%D Samples Affected:	1,1-Dichloroethene (32%)
4	RT %D Samples Affected:	Methylene chloride (0.76%)
4	%D Samples Affected:	" (20%)
4	%D Samples Affected:	Trans 1,2-Dichloroethene (38%)
4	%D Samples Affected:	1,1-Dichloroethane (28%)
4	%D Samples Affected:	Chloroform (34%)
4	%D Samples Affected:	1,2-Dichloroethane (33%)

AR302020

Data Review Worksheets

IV A. VOLATILE CALIBRATION VERIFICATION

131

Date of Initial Calibration : 1/02/91
 Dates of Continuing Calibrations: 1/22/91
 Instrument ID :
 Matrix/Level :

DATE	CRITERIA OUT RF, %RSD, RF, %D	COMPOUND (VALUE)
1/2/91	7% D	1,1,1-Trichloroethane (45%)
	Samples Affected:	
		Carbon tetrachloride (47%)
	Samples Affected:	
		1,2-Dichloropropane (26%)
	Samples Affected:	
		Bromodichloromethane (26%)
	Samples Affected:	
		Trichloroethene (26%)
	Samples Affected:	
		Cis-1,3-Dichloropropene (33%)
	Samples Affected:	
		Trans-1,3-Dichloropropene (37%)
	Samples Affected:	
		1,1,2-Trichloroethane (40%)
	Samples Affected:	
		Dibromochloromethane (36%)
	Samples Affected:	
		Tetrachloroethene (42%)
	Samples Affected:	

AR302021

Data Review Worksheets

IV A. VOLATILE CALIBRATION VERIFICATION

Date of Initial Calibration : 1/02/81
 Dates of Continuing Calibrations: 1/02/81 1/2/81
 Instrument ID : ELION
 Matrix/Level :

DATE	CRITERIA OUT RF, TRSD, RF, ID	COMPOUND (VALUE)
1/2/81	%D Samples Affected:	Chlorobenzene (42%)
1	%D Samples Affected:	Bromoform (45%)
4	%D Samples Affected:	1,1,2,2-Tetrachloroethane (76%)
1	%D Samples Affected:	1,3-Dichlorobenzene (32%)
4	%D Samples Affected:	1,4-Dichlorobenzene (48%)
4	%D Samples Affected:	1,2-Dichlorobenzene (37%)
1/3/81	RT%D Samples Affected:	Vinyl Chloride (-0.85%)
1/3/81	%D Samples Affected:	Dichlorodifluoromethane (-100%)
1	%D Samples Affected:	Chloromethane (-47%)
1	%D Samples Affected:	Vinyl Chloride (-31%)

AR302022

RECEIVED
Data Review Worksheets

IV A. VOLATILE CALIBRATION VERIFICATION

Method 602

Date of Initial Calibration : 1/02/91
Dates of Continuing Calibrations: 1/03/91
Instrument ID : Thirteen
Matrix/Level :

DATE CRITERIA OUT COMPOUND (VALUE)

RF, %RSD, RF, %D

Samples Affected:

all criteria met

Samples Affected:

Samples Affected:

Samples Affected:

Samples Affected:

Samples Affected:

Samples Affected:

Samples Affected:

Samples Affected:

Samples Affected:

1. All RF's, and RF's must be >0.05
2. All %RSD's must be $<10\%$
3. All %D's must be $<25\%$

ACTION:

1. If any compound has an initial RF or a continuing RF of <0.05 :
 - a. Flag positive results for that compound as estimated (J).
 - b. Flag non-detects for that compound as unusable (R).
2. If any compound has a %RSD $>10\%$ or a %D $>25\%$:
 - a. Flag positive results for that compound as estimated (J).
 - b. Flag non-detects for that compound as estimated (UJ) if the %RSD or %D is $>50\%$.

AR302023

Data Review Worksheet

V A. BLANK ANALYSIS RESULTS (Sections 1 & 2)

List the contamination in the blanks below.

1. Laboratory Blanks *No positive hits for all Reagent*

Level: *low*

DATE	LAB ID	FRACTION/ MATRIX	COMPOUND	CONCENTRATION UNITS

2. Equipment and Trip Blanks

DATE	TR #	FRACTION/ MATRIX	COMPOUND	CONCENTRATION UNITS
1/03/91	CEB10RZ	DOA / water	Chloroform	10 ug/l
1/02/91	CEB10	"	"	16 ug/l
1/03/91	CEB21	"	"	12 ug/l

A separate worksheet should be used for low and medium level blanks.

AR302024

Data Review Worksheets

V B. BLANK ANALYSIS RESULTS (Section 3)

3. Blank Actions

Action levels should be based upon the highest concentration of contaminant determined in any blank. The action level for samples which have been concentrated or diluted should be multiplied by the concentration/dilution factor. No positive sample result should be reported unless the concentration of the compound in the sample exceeds the action level of 10 x's the amount in the blank for the common contaminants, or 5 x's the amount for any other compound. Specific actions are as follows:

1. The concentration is less than the CRQL, report the CRQL.
2. The concentration is greater than the CRQL, but less than the action level, report the concentration found U.
3. The concentration is greater than the action level, report the concentration unqualified.

For examples refer to the Regional Guidelines.

Common contaminants = methylene chloride, acetone, 2-butanone, toluene, and phthalates.

LEVEL: _____

COMPOUND

MAX. CONC./
UNITS

ACTION LEVEL/
UNITS

CRQL

N/A

A separate worksheet should be used for low and medium level blanks.

AR302025

Method 602

1. Matrix Spike/Matrix Spike Duplicate Recoveries and Precision

Level: Low

Matrix: water

List the percent recoveries and RPD's of compounds which do not meet the criteria stated on Form 3.

[illegible]

QUALIFICATION IS LIMITED TO THE UNSPIKED SAMPLE ONLY.

1. If any compound does not meet the Contract Required Recovery range (CRR) follow the actions stated below:

	<u>PERCENT RECOVERY</u>		
	<u><10%</u>	<u>10% - CRB</u>	<u>>CRB</u>
Positive Sample Results	J	J	J
Non-detected Results	R	A	A

2. If any compound does not meet the RPD criteria, flag positive result for that compound as estimated (J).

AR 302027

~~TESTING~~
Data Review Worksheets

VII A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Method 601 1. Matrix Spike/Matrix Spike Duplicate Recoveries and Precision

TR Nos. CEB16MS , CEB16MSD

Level: Low

Matrix: water

List the percent recoveries and RPD's of compounds which do not meet the criteria stated on Form 3.

FRACTION/
MS OR MSD

COMPOUND

%REC/
RPD

QC LIMITS

all criteria met.

QUALIFICATION IS LIMITED TO THE UNSPIKED SAMPLE ONLY.

1. If any compound does not meet the Contract Required Recovery range (CRR) follow the actions stated below:

	<u>PERCENT RECOVERY</u>		
	<u><10%</u>	<u>10% - CRR</u>	<u>>CRR</u>
Positive Sample Results	J	J	J
Non-detected Results	R	A	A

2. If any compound does not meet the RPD criteria, flag positive results for that compound as estimated (J).

A separate worksheet should be used for each MS/MSD

AR302028

100-100-1
Data Review Worksheets

VII B. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (Section 2)

3. Matrix Spike Duplicate - Unspiked Compounds

TR Nos. _____ , _____

List the concentrations of the unspiked compounds and determine the percent RSD's of the unspiked sample, matrix spike, and matrix spike duplicate. No limits have been developed for the RSD values of the unspiked compounds. .

<u>FRACTION</u>	<u>COMPOUND</u>	<u>SAMPLE, MS, MSD CONC</u>	<u>%RSD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

The reviewer must use professional judgement to determine if there is a need to qualify any of the unspiked compounds in the sample.

AR302029

Data Review Worksheets

VIII. FIELD DUPLICATE PRECISION

TR-Nos. CEB11 , CEB12

Matrix: water

List the concentrations of the compounds which do not meet the following RPD criteria:

1. An RPD of <30% for water duplicates.
2. An RPD of <50% for soil duplicates.

all criteria met for both methods 601, 602

<u>FRACTION</u>	<u>COMPOUND</u>	<u>SAMPLE CONC</u>	<u>DUP SAMPLE CONC</u>	<u>RPD</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

ACTIONS:

1. If the results for any compounds do not meet the RPD criteria, list the positive results for that compound as estimated.
2. If one value is non-detected, and one is above the CRQL:
 - a. Flag the positive result as estimated (J).
 - b. Flag the non-detected result as estimated (UJ).

NOTE: Professional judgement may be utilized to apply duplicate action to all samples of a similar matrix.

A separate worksheet should be filled out for each field duplicate set.

AR302030

REGION I
Data Review Worksheets

IX. INTERNAL STANDARD PERFORMANCE

N/A
List the internal standard areas of samples which do not meet the criteria of +100% or -50% of the internal standard area in the associated continuing calibration standard.

<u>SAMPLE ID</u>	<u>DATE</u>	<u>IS OUT</u>	<u>IS AREA/ RT</u>	<u>ACCEPTABLE RANGE</u>	<u>ACTION</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

ACTION:

1. If an IS area count is outside the criteria -50% or +100% of the associated standard:
 - a. Positive results for compounds quantitated using that IS are flagged as estimated (J) for that sample fraction.
 - b. Non-detects for compounds quantitated using that IS are flagged as estimated (UJ) for that sample fraction.
 - c. If extremely low area counts are reported, or if performance exhibits a major drop-off, then a severe loss of sensitivity is indicated. Non-detects should then be flagged as unusable (P).
2. If an IS retention time varies more than 30 seconds, the chromatographic profile for that sample must be examined to determine if any false positives or negatives exist. For shifts of a large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction.

AR302031

Region III

ORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 15465 SAS SITE _____
LABORATORY HAUSER NO. OF SAMPLES/
MATRIX 14 water
SDG # CE-B10 REVIEWER (IF NOT ESD) _____
SOW # EPA Method 601 & 602 REVIEWER'S NAME Dynamic Corp.
DPO: ACTION FYI COMPLETION DATE 3-4-91

DATA ASSESSMENT SUMMARY

	VOA	BNA	PEST	OTHER
1. HOLDING TIMES	<u>M'</u>	_____	_____	_____
2. GC/MS TUNE/INSTR. PERFORM.	<u>/</u>	_____	_____	_____
3. CALIBRATIONS	<u>X</u>	_____	_____	_____
4. BLANKS	<u>X</u>	_____	_____	_____
5. SURROGATES	<u>O</u>	_____	_____	_____
6. MATRIX SPIKE/DUP	<u>O</u>	_____	_____	_____
7. OTHER QC	<u>O</u>	_____	_____	_____
8. INTERNAL STANDARDS	<u>/</u>	_____	_____	_____
9. COMPOUND IDENTIFICATION	<u>O</u>	_____	_____	_____
10. SYSTEM PERFORMANCE	<u>O</u>	_____	_____	_____
11. OVERALL ASSESSMENT	<u>O</u>	_____	_____	_____

O = Data had no problems/or qualified due to minor problems.

M = Data qualified due to major problems.

Z = Data unacceptable.

X = Problems, but do not affect data.

ACTION ITEMS: M' - the 6 days holding time request on SAS exceeded
for all samples.

AREAS OF CONCERN: _____

NOTABLE PERFORMANCE: _____

AR302032

January 18, 1991

Bruce Beach
Dynamac Corporation
Public Ledger Building
6th and Chestnut Streets
Suite 872
Philadelphia, Pennsylvania 19106

Reference: VLI Project No. 420.2
VLI Control No. 4152

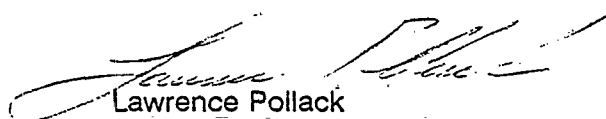
Dear Mr. Beach:

Enclosed please find the method 601/602 results for volatile organic analyses performed on samples received from Dynamac on December 21, 1990. The water samples were collected in conjunction with the US EPA Region II/15465 SAS. Copies of the field chain of custody forms, CLP organic traffic reports, and SAS packing lists are enclosed.

If you have questions concerning this data, please contact me at (703) 642-6834.

Sincerely,

Versar Laboratories, Inc.


Lawrence Pollack
Program Manager

LP/mar

Enclosure

CHAIN OF CUSTODY RECORD

REGION 3
841 Chestnut St.
Philadelphia, Pennsylvania 19107

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
154654S		CM				154654S	
SAMPLERS: (Signature) <i>Bruce Beach</i>							
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	TAG NO.	OTR
001	12/19/90	9:25	X		CM-001-MW-01	3-1110851	CEB 10
VF3	12/19/90	11:20	X		CM-VF3-RW-01	3-1110852	
VF3	12/19/90	11:40	X		CM-VF3-RW-02	3-1110853	
						3-1110854	CEB 11
VF3	12/19/90	11:50	X		CM-VF3-RW-03	3-1110855	CEB 12
						3-1110856	
ADS	12/19/90	12:20	X		CM-ADS-RW-01	3-1110857	CEB 13
GW3	12/19/90	15:41	X		CM-GW3-IW-01	3-1110858	CEB 14
						3-1110859	
2635A	12/20/90	9:50	X		CM-2635A-RW-01	3-1110860	CEB 15
2711A	12/20/90	11:10	X		CM-2711A-RW-01	3-1110861	CEB 16
						3-1110862	
002	12/20/90	11:35	X		CM-002-MW-01	3-1110863	CEB 17
						3-1110864	CEB 18
M051B	12/20/90	12:00	X		CM-M051B-MW-01	3-1110865	CEB 19
						3-1110866	
Relinquished by: (Signature) <i>Bruce Beach</i>		Date / Time	Received by: (Signature)	Date / Time	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
		12/20/90 2:10					
Relinquished by: (Signature)		Date / Time	Received by: (Signature)	Date / Time	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)		Date / Time	Received for Laboratory by: (Signature)	Date / Time	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
			<i>William Maxwell</i>	12-21-90 11:00			

REGION 3
841 Chestnut St.
Philadelphia, Pennsylvania 19107

[illegible][illegible]

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



United States Environmental Protection Agency
Contract Laboratory Program
Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report

(For CLP Use Only)

Case Number

SAS No. (if applicable)

15465

1. Sample Description (Enter in Column A)		2. Region Number		3. Ship to:		4. Date Shipped / Carrier		5. Date Received		Received by	
1. Surface Water		1		US EPA		12/21/90		12-21-90		Arthur Maxwell	
2. Ground Water											
3. Leachate											
4. Rinsate											
5. Soil/Sediment											
6. Oil (SAS)											
7. Waste (SAS)											
8. Other (SAS) (Specify)											
IF VOA SAMPLE PRESERVED INDICATE IN COLUMN C WITH Y OR N.											
CLP Sample Number (From labels)	(A) Sample Description (From box 1)	(B) Concentration L=low M=med H=high	(C) RAS Analysis		(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number	(H) Sample Condition on Receipt	(I) High Conc. Phases (Check below)	
			VOA	Pest/PCB TOX						Solid	Non-Water-MIS Liq.
13	13	L			131mk	CM-001-MW	12/13/90	None			
14	14	L			141mk	CM-002-MW	12/13/90	None			
15	15	L			151mk	CM-003-MW	12/13/90	None			
16	16	L			161mk	CM-004-MW	12/13/90	None			
17	17	L			171mk	CM-005-MW	12/13/90	None			
18	18	L			181mk	CM-006-MW	12/13/90	None			
19	19	L			191mk	CM-007-MW	12/13/90	None			
20	20	L			201mk	CM-008-MW	12/13/90	None			
21	21	L			211mk	CM-009-MW	12/13/90	None			
22	22	L			221mk	CM-010-MW	12/13/90	None			
23	23	L			231mk	CM-011-MW	12/13/90	None			

AR302036

FEDERAL EXPRESS

QUESTIONS? CALL 800-236-3355 TOLL FREE

140N 9890269841

AIRBILL
PACKAGE
TRACKING NUMBER

9890269841

RECIPIENT'S COPY

From (Your Name) Please Print BRUCE BEATH		To Recipients (Name) Please Print Public Ledger Bldg		Recipient Phone Number (Very Important) 215-440-7340		Recipient Telex Number (Very Important) 750-2280	
Company DYNAMAC CORP		Company Public Ledger Bldg		Department/Floor No. 1000		Department/Floor No. 1000	
Street Address PUBLIC LEDGER BLDG STE 872		Street Address Public Ledger Bldg		City PHILADELPHIA		City PHILADELPHIA	
State PA		State PA		Zip 19102		Zip 19102	
YOUR INTERNAL BILLING REFERENCE INFORMATION (First 24 characters will appear on invoice) 9890269841							
PAYMENT 1 ☒ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☐ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card		DIM SHIPMENT (Checkable Weight) Received At 1 ☐ Regular Stop 2 ☐ Drop Box 3 ☐ BSC 4 ☐ Station 5 ☐ Station 2 ☐ On-Call Stop 3 ☐ Station 4 ☐ Station 5 ☐ Station FedEx Emp. No. 047					
SERVICES (Check only one box) Priority Overnight Service (Next Business Day) Standard Overnight Service (Next Business Day) 2nd Day Air Service (Second Business Day) 3rd Day Air Service (Third Business Day) 4th Day Air Service (Fourth Business Day) 5th Day Air Service (Fifth Business Day) 6th Day Air Service (Sixth Business Day) 7th Day Air Service (Seventh Business Day) 8th Day Air Service (Eighth Business Day) 9th Day Air Service (Ninth Business Day) 10th Day Air Service (Tenth Business Day) 11th Day Air Service (Eleventh Business Day) 12th Day Air Service (Twelfth Business Day) 13th Day Air Service (Thirteenth Business Day) 14th Day Air Service (Fourteenth Business Day) 15th Day Air Service (Fifteenth Business Day) 16th Day Air Service (Sixteenth Business Day) 17th Day Air Service (Seventeenth Business Day) 18th Day Air Service (Eighteenth Business Day) 19th Day Air Service (Nineteenth Business Day) 20th Day Air Service (Twentieth Business Day) 21st Day Air Service (Twenty-first 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(See change) 3 ☐ DELIVER SUNDAY (See change) 4 ☐ DANGEROUS GOODS (See change) 5 ☐ DRY ICE 6 ☐ OTHER SPECIAL SERVICE 7 ☐ SATURDAY PICK-UP (See change) 8 ☐ SATURDAY DELIVERY (See change) 9 ☐ HOLIDAY DELIVERY (See change) 10 ☐ HOLIDAY DELIVERY (See change) 11 ☐ HOLIDAY DELIVERY (See change) 12 ☐ HOLIDAY DELIVERY (See change)					
FEDERATED SERVICE (For Extra Charge) (Delivery by second business day) Economy Two-Day Service (For Extra Charge) (Delivery by second business day) Economy Three-Day Service (For Extra Charge) (Delivery by third business day) Economy Four-Day Service (For Extra Charge) (Delivery by fourth business day) Economy Five-Day Service (For Extra Charge) (Delivery by fifth business day) Economy Six-Day Service (For Extra Charge) (Delivery by sixth business day) Economy Seven-Day Service (For Extra Charge) (Delivery by seventh business day) Economy Eight-Day Service (For Extra Charge) (Delivery by eighth business day) Economy Nine-Day Service (For Extra Charge) (Delivery by ninth business day) Economy Ten-Day Service (For Extra Charge) (Delivery by tenth business day) Economy Eleven-Day Service (For Extra Charge) (Delivery by eleventh business day) Economy Twelve-Day Service (For Extra Charge) (Delivery by twelfth business day) Economy Thirteen-Day Service (For Extra Charge) (Delivery by 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AR302037

U.S. ENVIRONMENTAL PROTECTION AGENCY
CLP Sample Management Office
P.O. Box 818 - Alexandria, Virginia 22313
Phone: 703/557-2490 - FTS/557-2490

SAS Number
154655A5

SPECIAL ANALYTICAL SERVICE
PACKING LIST

Sampling Office: <u>Region III / DUAMAC</u>	Sampling Date(s): <u>12/14 - 12/20/90</u>	Ship To: <u>Veteran</u> <u>6050 Veteran Center</u> <u>Springfield, CA</u> <u>92151</u>	For Lab Use Only
Sampling Contact: <u>BRUCE BEACH</u> (name)	Date Shipped: <u>12/ /90</u>	Attn: <u>John Peterson</u> <u>Bruce Beach</u>	Date Samples Rec'd: <u>12-21-90</u>
<u>215 440-7343</u> (phone)	Site Name/Code:		Received By: <u>Debbie Maxwell</u>

Sample Numbers	Sample Description i.e., Analysis, Matrix, Concentration	Sample Condition on Receipt at Lab
1. <u>CEB 10</u>	<u>Low conc water EPA 601/602</u>	
2. <u>CEB 11</u>	<u>Low conc water EPA 601/602</u>	
3. <u>CEB 12</u>	<u>Low conc water EPA 601/602</u>	
4. <u>CEB 13</u>	<u>Low conc water EPA 601/602</u>	
5. <u>CEB 14</u>	<u>Low conc water EPA 601/602</u>	
6. <u>CEB 15</u>	<u>Low conc water EPA 601/602</u>	
7. <u>CEB 16</u>	<u>Low conc water EPA 601/602</u>	
8. <u>CEB 17</u>	<u>Low conc water EPA 601/602</u>	
9. <u>CEB 18</u>	<u>Low conc water EPA 601/602</u>	
10. <u>CEB 19</u>	<u>Low conc water EPA 601/602</u>	
11. <u>CEB 20</u>		
12. <u>CEB 21</u>	<u>Low conc water EPA 601/602</u>	
13. <u>CEB 22</u>	<u>Low conc water EPA 601/602</u>	
14. <u>CEB 23</u>	<u>Low conc water EPA 601/602</u>	
15.		
16.		
17.		
18.		
19.		
20.		

For Lab Use Only

White - SMO Copy, Yellow - Region Copy, Pink - Lab Copy for return to SMO, Gold - Lab Copy

AR302038

Versar Laboratories INC.
ENVIRONMENTAL ANALYTICAL SERVICES

6850 Versar Center • Springfield, Virginia 22151 • (703) 750-3000 • 1-800-283-7727

AR302039

VOLATILE ANALYSIS
ANALYTICAL DATA PACKAGE

CLIENT : DYNAMAC CORP. /
 US EPA REGION II
SAS : 15465SAS
SDG : CEB10
PROJECT: 420.2-Batch #1
CONTROL: 4152
DATE : 01/18/91

100000

AR302040

- I. NARRATIVE
- II. QC SUMMARY

100001

AR302041

Volatile Analysis Narrative
Client: Dynamac; Site: EPA Region II
Lab Operations Project No. 420.2
Batch# 1; Control# 4152
January 18, 1991

Please find enclosed the analytical data and calculated results for the analysis of the samples received at Versar on 21 December, 1990. The package includes calculated and summarized results, as well as any QC samples processed with the sample batch.

All standard and QC data would indicate that the analysis is valid and representative for the samples without further qualification.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.



Dr. Reza Karimi
Section Chief
Applied Chromatography
Laboratory Operations

100002

AR302042

ANALYTICAL COMMENTS
METHODS 601 and 602
January 18, 1991

CASE 15465SAS
SDG CEB10

This report contains the analytical results and data for 14 water samples received December 21, 1990. The samples were requested for the analysis of volatile compounds by EPA Method 601 and 602. The holding time, 14 days, was met for the initial analysis for all samples. The requested detection limit is 1.0 ug/l.

Method 601 Analysis:

The method 601 analysis was performed using megabore columns. The injection was split into two dissimilar columns to allow for both the analysis and confirmation simultaneously. No surrogate was used for the 601 analysis due to coelution with target compounds. The 601 analysis was performed over a two day period. The initial standard curves were found acceptable with correlation coefficients greater than 0.995. Two compounds, bromodichloromethane and 2-chloroethylvinyl ether coelute. The presence of these two compounds would result in an estimated concentration. There is no effect on the data package, since bromodichloromethane was not detected in the samples. The initial standard for January 2, 1991 when compared to the curve had one outlier on one column and three on the second column. These outliers were for the volatile gas compounds. The analysis was allowed to proceed in order to meet holding time requirements of the method. One sample, CEB11, had a confirmed hit for one of the outliers, dichlorodifluoromethane. The result was calculated from the initial standard of the day. The final standard resulted in many compounds with percent differences greater than 25 percent. This affected four samples CEB10, CEB11, CEB14, and CEB15. These samples were reanalyzed on January 3, 1991, one day past the holding time. The initial curve and continuing check standard for January 3 are acceptable. The final standard misinjected; a second final standard was injected several hours later with only two outliers on one column and three on the second column. No reanalysis were performed as this was the second analysis for the samples affected.

Although, there were a few problems with the continuing / final standards the analysis proceeded smoothly. The quality control results were acceptable. There were no outliers for the duplicate, matrix spike, matrix spike duplicate or EPA QC vial analyses. The duplicate analysis of sample CEB11 on January 2, was performed using field duplicate CEB12. The duplicate analysis on January 3, was performed using two aliquots of sample CEB11.

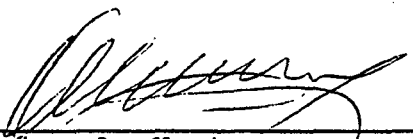
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AR302043

Method 602 Analysis:

The analysis for method 602 was performed using a megabore column. The analysis took place during a two day period, with all samples meeting method specified holding times. The initial standard curve was acceptable with a minimum correlation coefficient of 0.995. All continuing and final standards are acceptable with the highest percent difference yielding thirteen percent. The surrogate recoveries for method 602, fluorobenzene, are acceptable.

Excluding sample CEB20 containing dichlorobenzenes, the samples contained no volatile compounds above the requested detection limit. Since, dichlorobenzene was also analyzed by method 601 no confirmation analysis was performed for method 602.

The quality control analyses for method 602 were acceptable. All surrogate, duplicate, matrix spike, matrix spike duplicate, and EPA QC vial results were within control limits.



Victor A. Yastrop
Application Specialist

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AR302044

Versar Laboratories, Inc.
6850 Versar Center
Springfield VA 22151

SURROGATE RECOVERY SUMMARY

Case: 15465SAS
SDG: CEB10

Sample No.	Method 601	Method 602
CEB10	NA	89%
CEB11	NA	81%
CEB14	NA	91%
CEB15	NA	91%
CEB16	NA	92%
CEB17	NA	92%
CEB18	NA	98%
CEB19	NA	90%
CEB20	NA	84%
CEB21	NA	93%
CEB22	NA	100%
CEB23	NA	91%
RB 1/2/91	NA	103%
RB 1/3/91	NA	88%
RB 1/3/91	NA	82%
CEB22 MS	NA	95%
CEB22 MSD	NA	100%
EPA QC VIAL	NA	94%
CEB11 Duplicate	NA	92% (CEB12)

NA = no surrogate was used for the 601 analysis, due to
coelution with target compounds. The coelution could
result in the reporting of a false positive.
Fluorobenzene was used as the surrogate for the 602 analysis.

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AR302045

Versar Laboratories, Inc.
6850 Versar Center
Springfield VA 22151

Method 601
DUPLICATE ANALYSIS SUMMARY

Case: 15465SAS
SDG: CEB10

01/02/91 analysis

Sample CEB11	Sample Result	Duplicate Result	Difference	%RPD
Dichlorodifluoromethane	39	47	8.0	19%
1,1-Dichloroethene	5.2	6.9	1.7	28%
1,1,1-Trichloroethane	10	15	5.0	40%
Trichloroethene	25	31	6.0	21%
Tetrachloroethane	1.8	2.4	0.6	29%

Concentration = (ug/l)

01/03/91 analysis

Sample CEB11	Sample Result	Duplicate Result	Difference	%RPD
Dichlorodifluoromethane	46	43	-3.0	7%
1,1-Dichloroethene	2.2	3.2	1.0	37%
1,1,1-Trichloroethane	7.9	7.7	-0.2	3%
Trichloroethene	18	17	-1.0	6%
Tetrachloroethane	2.1	1.9	-0.2	10%

Concentration = (ug/l)

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AR302046

Versar Laboratories, Inc.
6850 Versar Center
Springfield VA 22151

Method 601
MS/MSD and EPA QC VIAL ANALYSIS SUMMARY

Case: 15465SAS
SDG: CEB10

MS/MSD Analysis:

Sample CEB16	Matrix Spike	Percent Recovery	Matrix Spike Dup	Percent Recovery	% RPD
1,2-Dichloroethane	59.1	117%	50.9	101%	15%
Chloroform	47.8	114%	41.9	100%	13%
1,1,1-Trichloroethane	77.7	118%	66.0	100%	16%
Trichloroethene	63.6	116%	53.3	97%	18%
Carbontetrachloride	72.9	120%	62.0	102%	16%
Tetrachloroethane	55.1	116%	45.9	96%	18%
Dibromochloromethane	66.8	115%	56.7	98%	16%
Bromoform	42.3	114%	33.9	91%	22%
Methylene Chloride	38.7	104%	31.6	85%	20%
Chlorobenzene	56.5	111%	48.8	95%	15%

Concentration = (ug/l)

EPA QC VIAL Analysis:

EPA QC VIAL WP489 Conc 1.	Found	True	Difference	Acceptable Limits
1,2-Dichloroethane	61.7	50.5	11.2	32.5-69.9
Chloroform	50.1	42.1	8.0	28.8-53.7
1,1,1-Trichloroethane	79.6	66.0	13.6	38.9-97.2
Trichloroethene	64.3	54.7	9.6	34.9-72.5
Carbontetrachloride	77.2	60.8	16.4	36.4-88.1
Tetrachloroethane	63.5	47.6	15.9	27.7-65.4
Dibromochloromethane	75.4	58.1	17.3	38.2-79.4
Bromoform	54.3	37.1	17.2	20.9-54.3
Methylene Chloride	37.7	37.1	0.6	21.6-53.3
Chlorobenzene	67.0	51.1	15.9	35.1-67.4

Concentration = (ug/l)

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AR302047

Versar Laboratories, Inc.
6850 Versar Center
Springfield VA 22151

Method 602
DUPLICATE, MS/MSD ANALYSIS SUMMARY

Case: 15465SAS
SDG: CEB10

Duplicate Analysis:

Sample CEB11	Sample Result	Duplicate Result	Difference	% RPD
Benzene	< 1.0	< 1.0	NA	NA
Toluene	< 1.0	< 1.0	NA	NA
Chlorobenzene	< 1.0	< 1.0	NA	NA
Ethylbenzene	< 1.0	< 1.0	NA	NA
M/P-Xylene	< 1.0	< 1.0	NA	NA
O-Xylene	< 1.0	< 1.0	NA	NA
1,3-Dichlorobenzene	< 1.0	< 1.0	NA	NA
1,4-Dichlorobenzene	< 1.0	< 1.0	NA	NA
1,2-Dichlorobenzene	< 1.0	< 1.0	NA	NA

Concentration = (ug/l)

MS/MSD Analysis:

Sample CEB22	Matrix Spike	Percent Recovery	Matrix Spike Dup	Percent Recovery	% RPD
Benzene	18.8	94%	20.5	102%	9%
Toluene	19.5	98%	19.8	99%	2%
Chlorobenzene	21.3	107%	19.6	98%	8%
Ethylbenzene	20.6	103%	20.3	102%	1%
M/P-Xylene	41.2	103%	41.1	103%	0.2%
O-Xylene	18.9	95%	19.1	96%	1%
1,3-Dichlorobenzene	20.3	102%	19.7	99%	3%
1,4-Dichlorobenzene	20.1	101%	20.0	100%	0.5%
1,2-Dichlorobenzene	20.9	104%	21.7	109%	4%

Spike concentration = 20.0 ug/l
Concentration = (ug/l)

100008

AR302048

Versar Laboratories, Inc.
6850 Versar Center
Springfield VA 22151

Method 602
EPA QC VIAL SUMMARY

Case: 15465SAS
SDG: CEB10

EPA QC Vial Analysis:

EPA QC VIAL WP489 Conc 1.	Found	True	Difference	Acceptable Limits
Benzene	13.3	13.0	0.3	8.44-17.7
Toluene	16.8	16.3	0.5	11.2-21.1
Ethylbenzene	22.7	21.0	1.7	14.7-27.4
1,3-Dichlorobenzene	11.7	11.1	0.6	6.23-15.1
1,4-Dichlorobenzene	22.7	23.0	-0.3	14.4-32.3
1,2-Dichlorobenzene	17.8	17.0	0.8	10.8-22.8

Concentration = (ug/l)

100003

AR302049

III. SAMPLE DATA PACKAGE

100010

AR302050

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB10

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40750
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/02/91
Date Analyzed: 01/02/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	16
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

100011

AR302051

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number
CEB10 RE

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40750
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	10
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

- Value If the result is a value greater than or equal to the detection limit, report the value.
- u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.
- ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.
- C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

- B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.
- NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

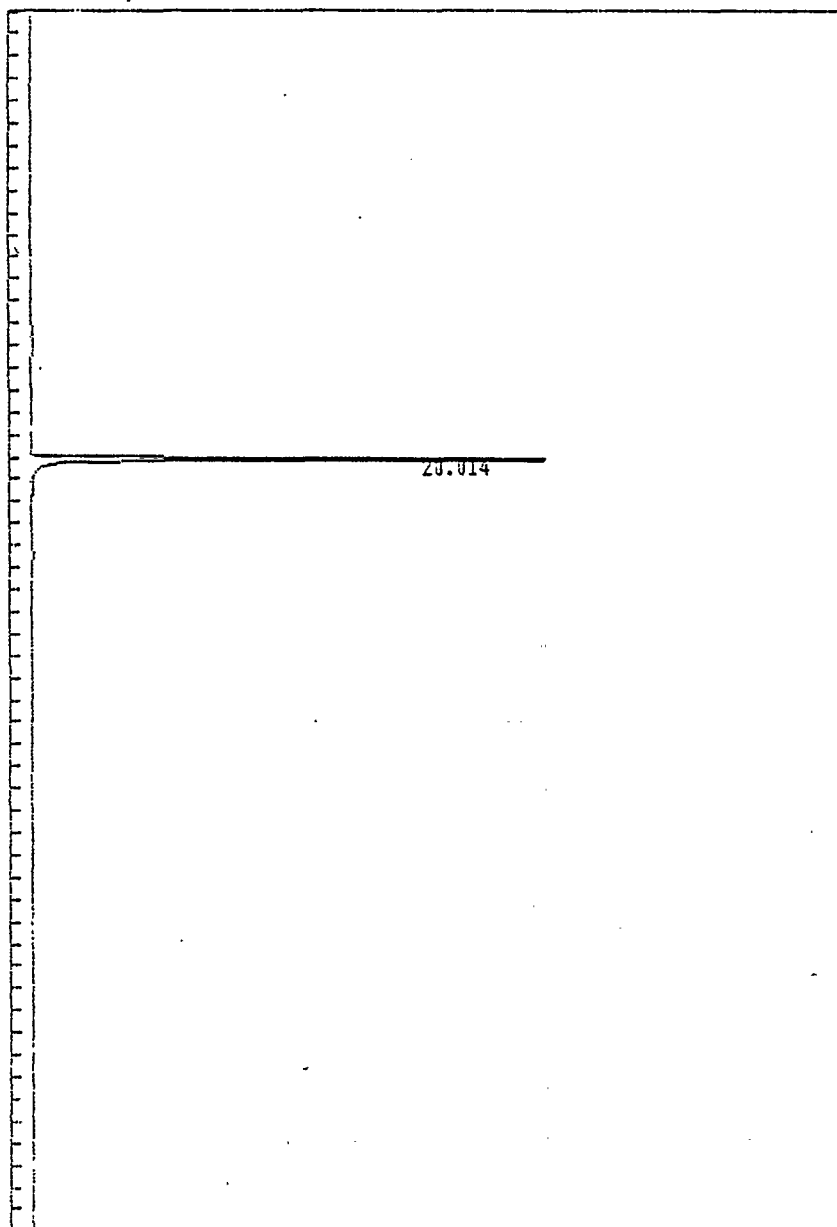
AR302052

100012

12

VOLATILE ANALYSIS: 0-I 4420 ELCD
COLUMN: 105M Rtx-1

Sample Name : ULI# 40750, FLD# CEB10
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010291M2VOA_004.RES
Run Time : 55.00Minutes
Injected on : 1510 02Jan1991
Report Time : 1002 14Jan1991
Method : /METHOD/VOA_M2.MTH
Addn. Data :
Amount Inj. :



AR302053

100013

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

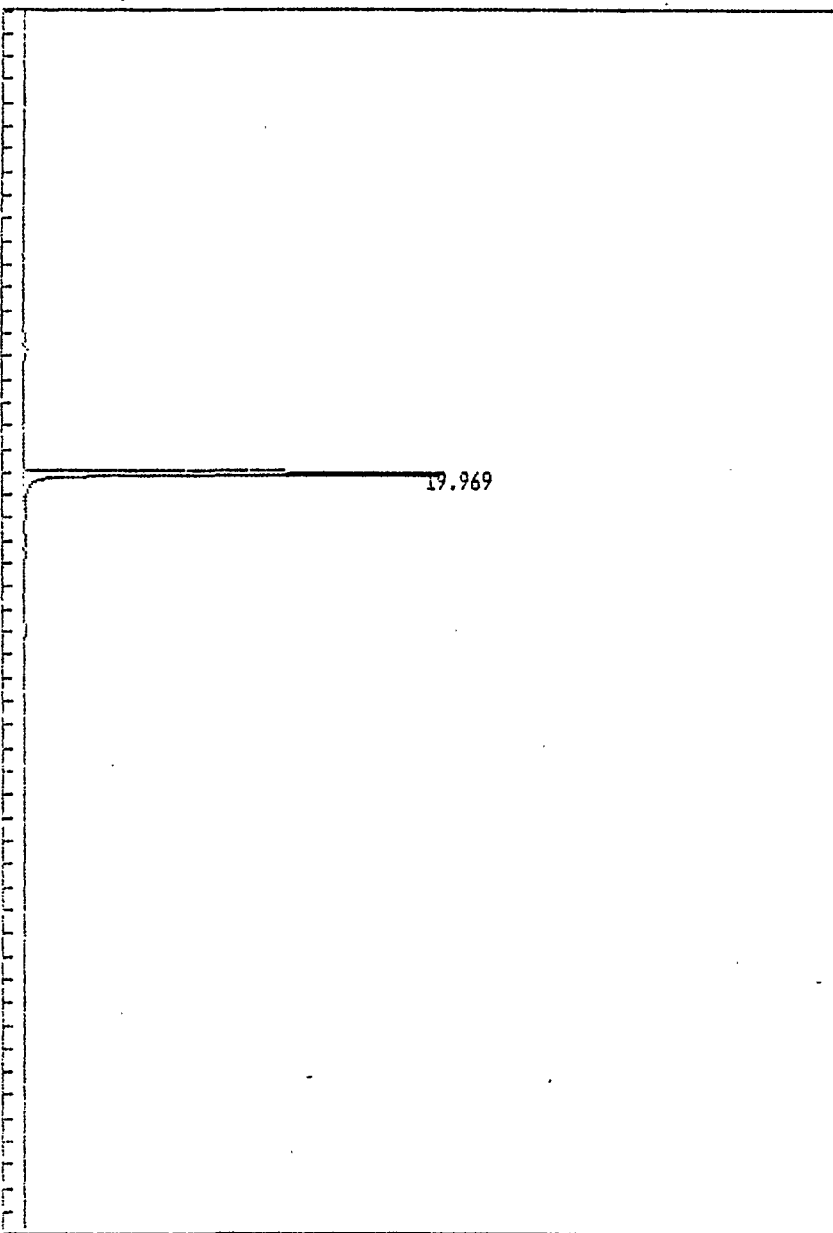
RT
19.97

Area Peak ID
39304 CHLOROFORM

AMOUNT
1.028E+01

VOLATILE ANALYSIS; 0-1 4420 ELCD
COLUMN: 105M Rtx-1

Sample Name : VLI# 40750, FLD# CEB10, REANALYSIS
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VOA_020.RES
Run Time : 53.00Minutes
Injected on : 2002 03Jan1991
Report Time : 1833 13Jan1991
Method : /METHOD/VOA_M2.MTH
Addn. Data :
Amount Inj. :



100014

AR302054

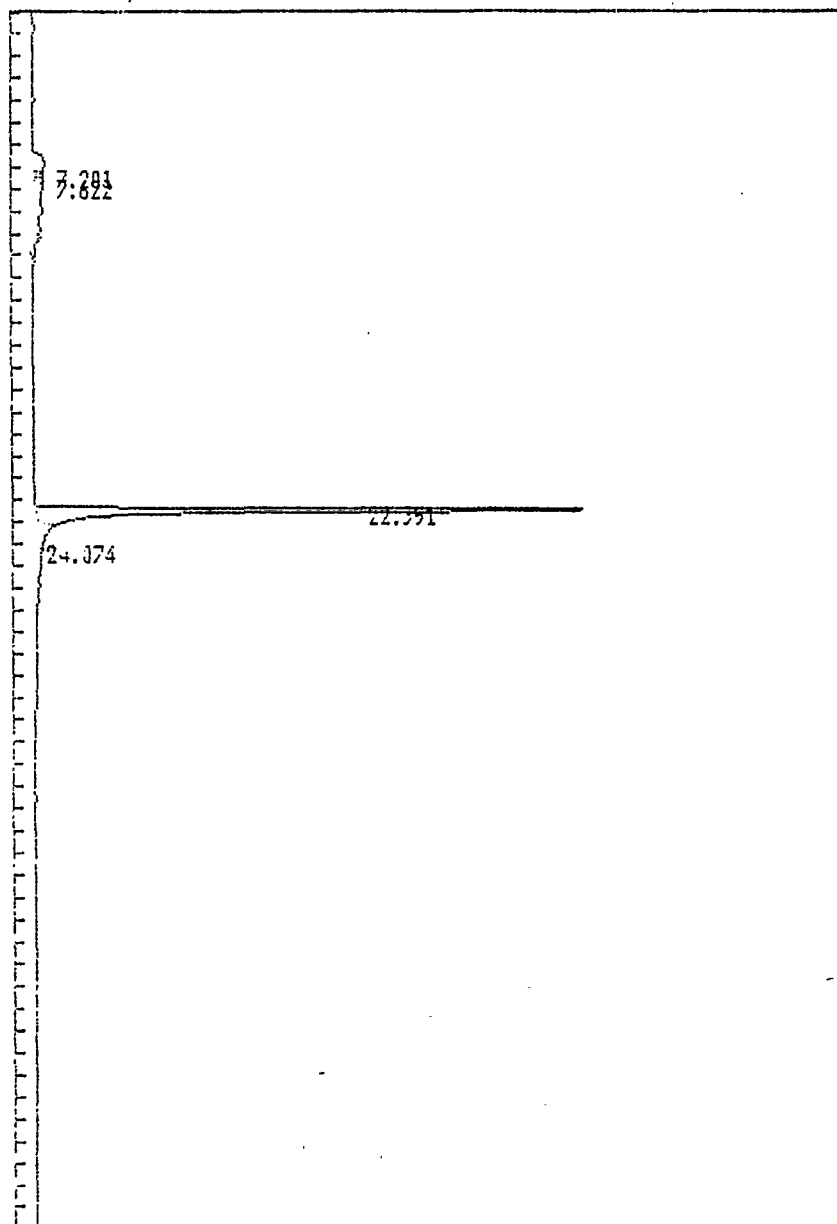
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 105M Rtx 502.2

RT	Area	Peak ID	AMOUNT
7.20		907 CHLOROMETHANE	3.299E+00
7.62		1474 VINYL CHLORIDE	1.397E+00
22.35		111853 CHLOROFORM	1.347E+01
24.07		214 1,1,1-TRICHLOROETH	3.678E+01

Sample Name : ULI# 40750, FLD# CEB10
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010291MVOA_004.RES
Run Time : 55.00Minutes
Injected on : 1510 02Jan1991
Report Time : 1932 13Jan1991
Method : /METHOD/VOA_M.MTH
Addn. Data :
Amount Inj. :



100015

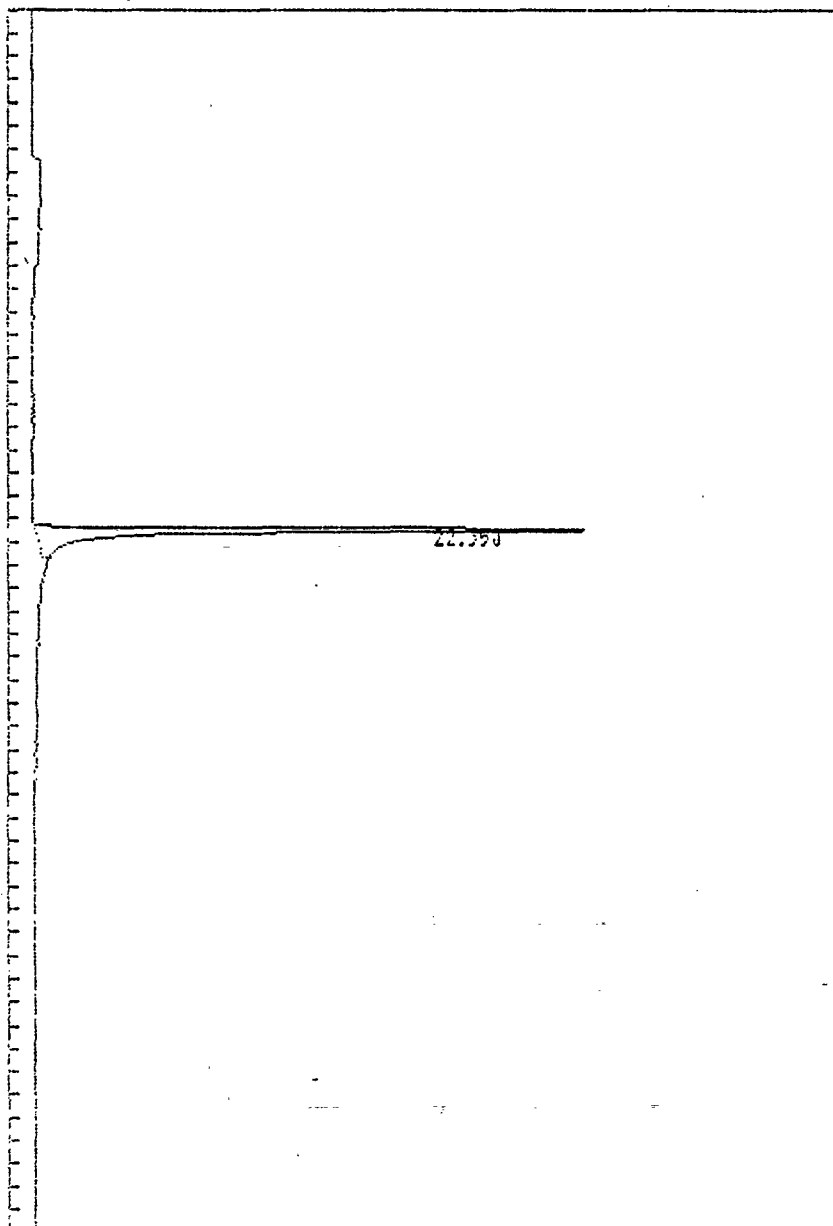
AR302055

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT	Area	Peak ID	AMOUNT
22.35	86676	CHLOROFORM	7.662E+03

VOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 105M Rtx 502.2

Sample Name : VLI# 40750, FLD# CEB10, REANALYSIS
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010391MVOA_020.RES
Run Time : 53.00Minutes
Injected on : 2002 03Jan1991
Report Time : 1733_13Jan1991
Method : /METHOD/VOA_H.MTH
Addn. Data :
Amount Inj. :



AR302056

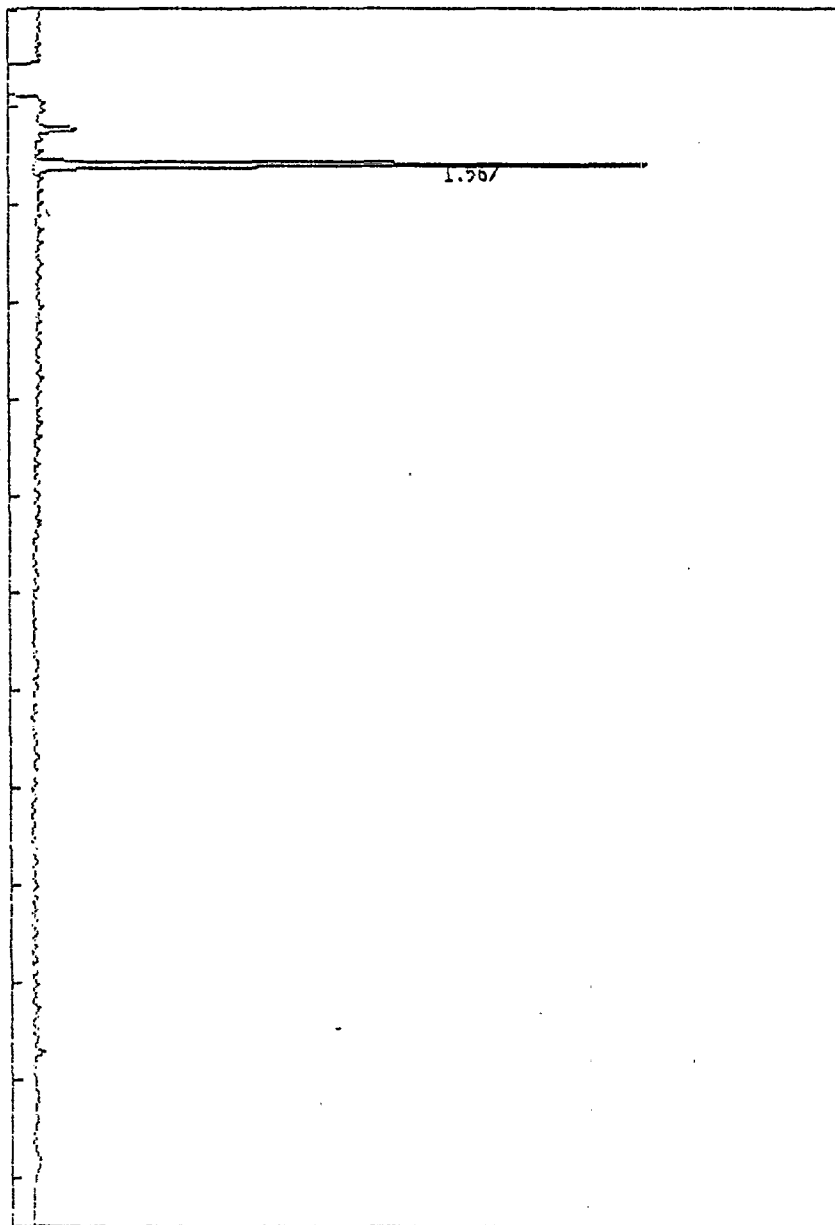
100018

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT	Area	Peak ID	UG/L
1.57	5705	*SS* FLUOROBENZENE	1.783E+01

VOGLATILE ANALYSIS - PID
30M Rtx-1 MEGABORE, 6 MIN @35C > 10 C/MIN > 100.

Sample Name : ULI# 40750, FLD# CEB10
Instrument : THIRTEEN
Result File : /INSTRUMENT/THIRTEEN/B010291NVOAW_008.RES
Run Time : 12.50Minutes
Injected on : 1838 02Jan1991
Report Time : 1109 08Jan1991
Method : /METHOD/VOA_NW.MTH
Addn. Data :
Amount Inj. :



100017
AR302057

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB11

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40751
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/02/91
Date Analyzed: 01/02/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	39
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	5.2
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	10
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	25

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.8
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

100013

AR302058

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB11 RE

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40751
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	47
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	2.2
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	7.9
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	18

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	2.1
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

100019

AR302059

ULI APPLIED CHROMATOGRAPHY LAB

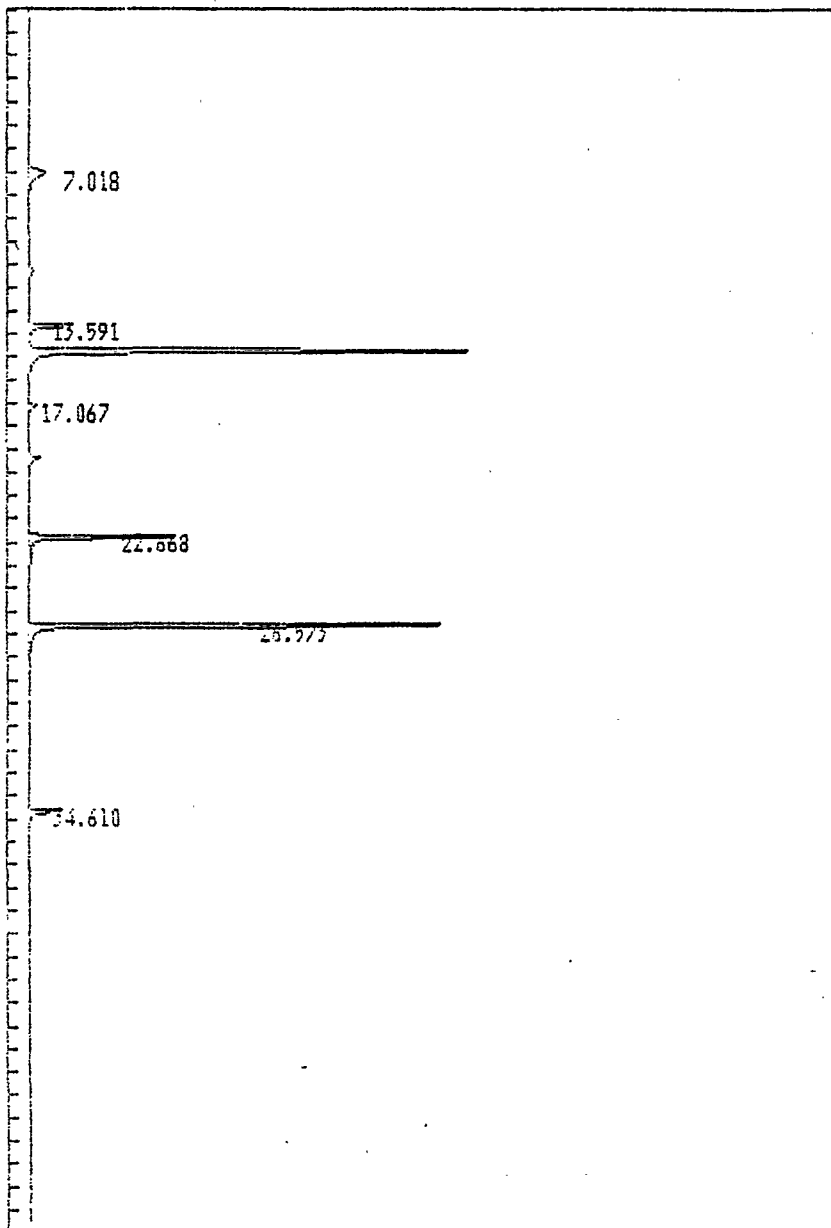
RAW DATA REPORT

VOLATILE ANALYSIS: 0-1 4420 ELCD
COLUMN: 105M Rtx-1

Sample Name : ULI# 40751, FLD# CEB11
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010291M2UCA_005.RES
Run Time : 53.00Minutes
Injected on : 1613 02Jan1991
Report Time : 1004 14Jan1991
Method : /METHOD/UCA_M2.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
7.02	8606	DICHLORODIFLUOROME	2.737E+01
13.59	8802	1,1-DICHLOROETHEN	5.150E+00
17.07	2238	1,1-DICHLOROETHANE	4.256E-01
22.67	24686	1,1,1-TRICHLOROETH	1.024E+01
26.57	75954	TRICHLOROETHENE	2.481E+01
34.61	6440	TETRACHLOROETHENE	1.846E+00

~~quantitative~~
calculation from
initial daily standard
yields 39.3 ug/lb.



100020

AR302060

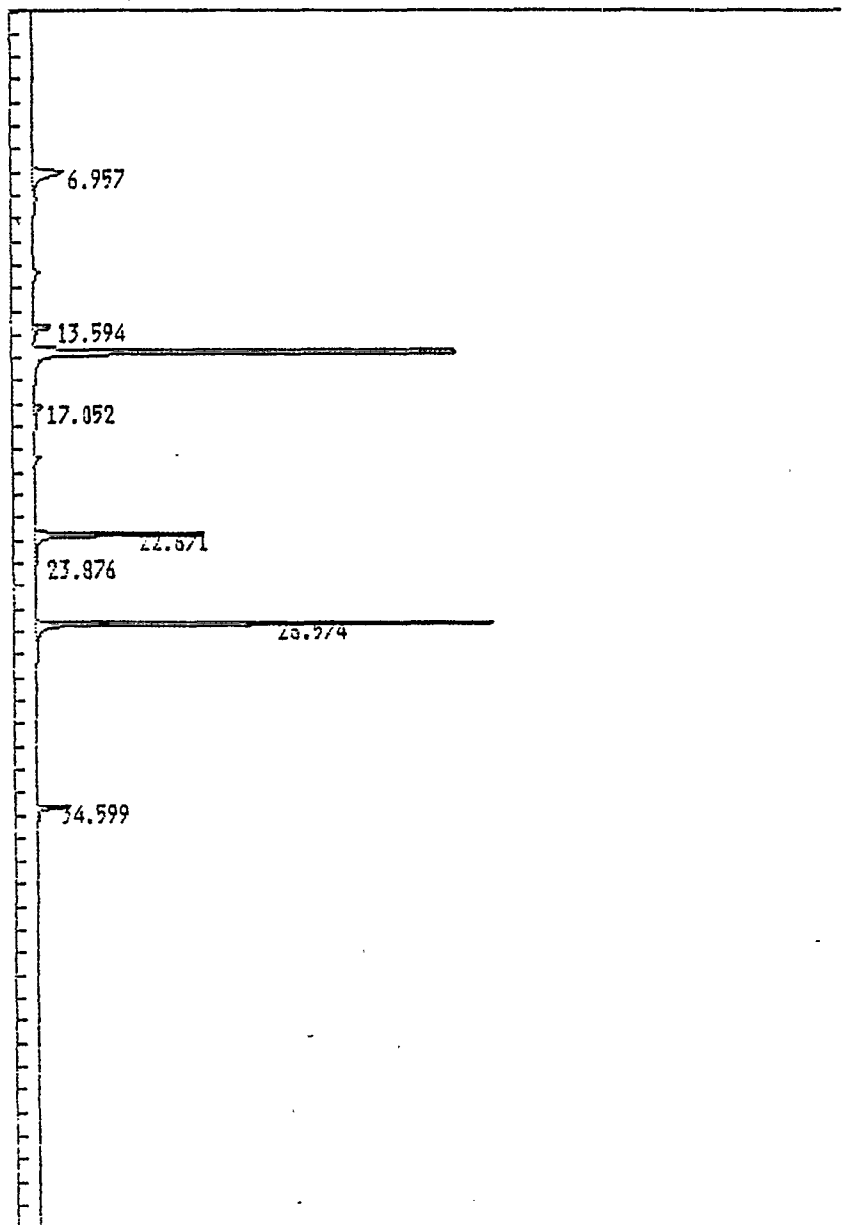
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILE ANALYSIS; 0-1 4420 ELCD
COLUMN: 105M Rtx-1

Sample Name : ULI# 40751, FLD# CEB11, REANALYSIS
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VOA_021.RES
Run Time : 53.02Minutes
Injected on : 2102 03Jan1991
Report Time : 1959 17Jan1991
Method : /METHOD/VOA_M2_010391.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
6.96	14202	DICHLORODIFLUOROME	4.668E+01
13.59	4167	1,1-DICHLOROETHEN	2.20E+00
17.05	2356	1,1-DICHLOROETHANE	6.078E+01
22.67	26456	1,1,1-TRICHLOROETH	7.886E+00
23.88	798	CARBONTETRACHLORID	8.562E+01
26.57	71687	TRICHLOROETHENE	1.785E+01
34.60	5864	TETRACHLOROETHENE	2.090E+00



100021

AR302061

ULI APPLIED CHROMATOGRAPHY LAB

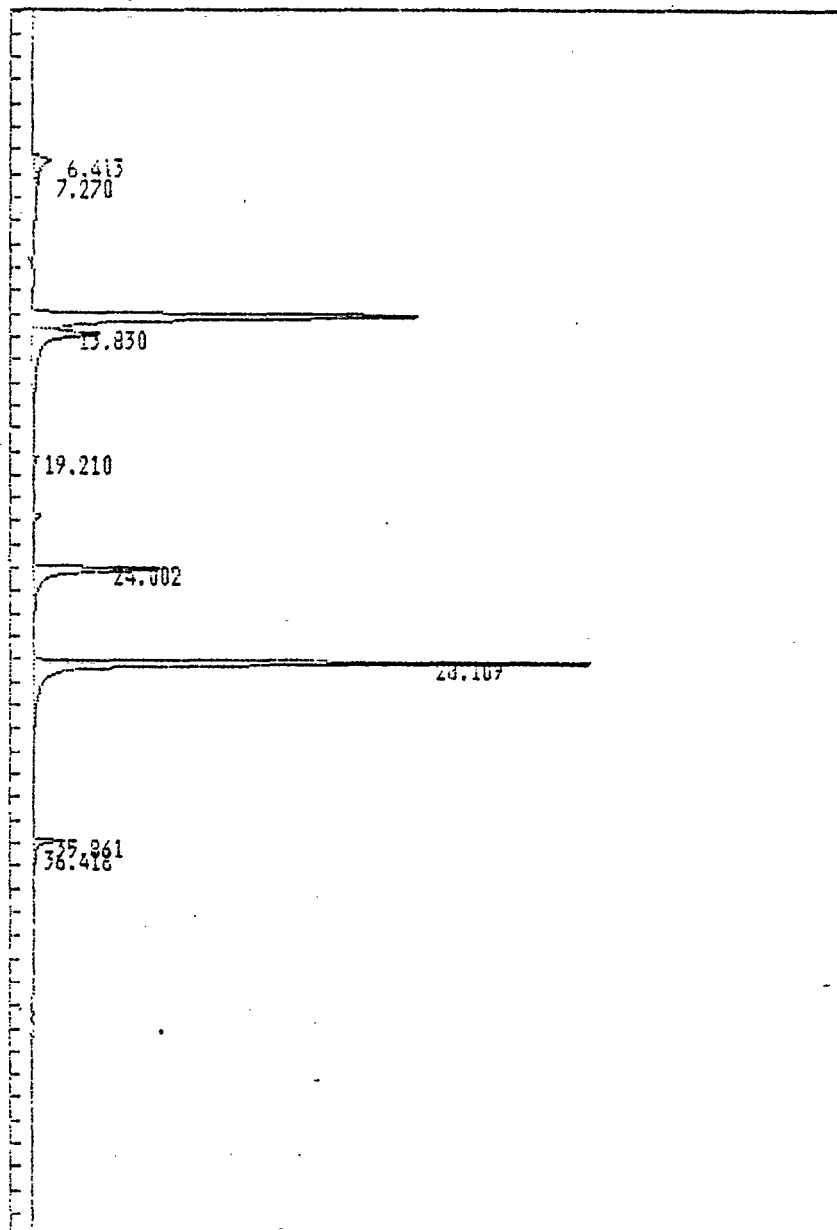
RAW DATA REPORT

1. VOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40751, FLD# CEB11
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010291MUGA_005.RES
Run Time : 53.00Minutes
Injected on : 1613 02Jan1991
Report Time : 1933 13Jan1991
Method : /METHOD/UGA_M.MTH
Acqn. Date :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
* 6.41	15191	DICHLORODIFLUOROMETHANE	2.241E+01
7.27	955	CHLOROMETHANE	3.345E+00 y
13.83	66588	1,1-DICHLOROETHENE	1.090E+01
19.21	3162	1,2-DICHLOROETHANE	2.676E+01 y
24.00	83117	1,1,1-TRICHLOROETHANE	1.128E+01
28.11	252602	TRICHLOROETHENE	3.331E+01
35.86	12678	TETRACHLOROETHENE	1.289E+00
36.42	2354	DIBROMOCHLOROMETHANE	5.284E+01 y

* calculation from initial
daily standard yields
31.1 ug/l



100022

AR302062

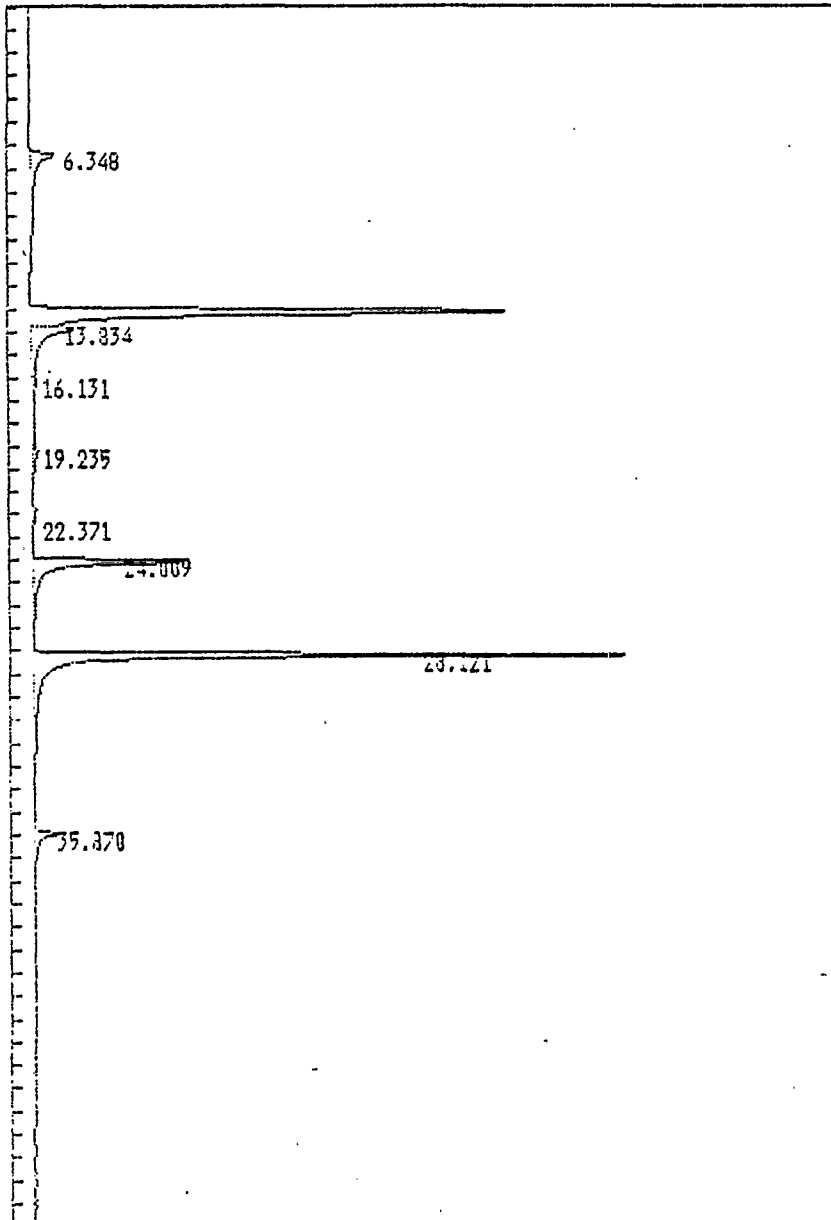
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40751, FLD# CEB11, REANALYSIS
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010391MVOA_021.RES
Run Time : 53.00Minutes
Injected on : 2102 03Jan1991
Report Time : 1734 13Jan1991
Method : /METHOD/VOA_M.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
6.35	18764	DICHLORODIFLUOROME	2.974E+01
13.83	43697	1,1-DICHLOROETHENE	6.170E+00
16.13	2908	METHYLENE CHLORIDE	3.76E+01
19.23	3570	1,1-DICHLOROETHANE	1.34E+00
22.37	302	CHLOROFORM	4.860E+01
24.01	85299	1,1,1-TRICHLOROETH	8.278E+00
28.12	227647	TRICHLOROETHENE	2.166E+01
35.87	13376	TETRACHLOROETHENE	2.156E+00



100028

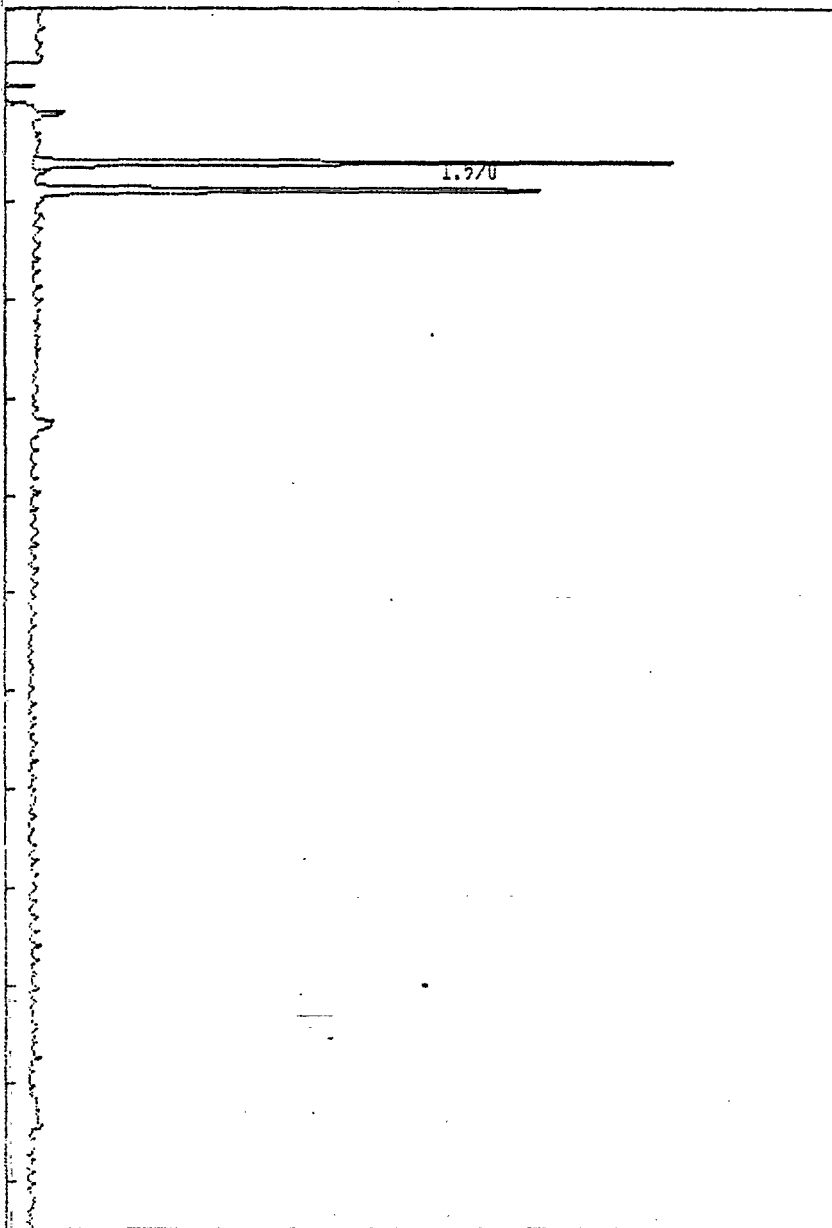
AR302063

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT	Area	Peak ID	UG/L
1.57	5163	*SS* FLUOROBENZENE	1.614E+01

VOLATILE ANALYSIS - PID
30M Rtx-1 MEGABORE, 6 MIN @35C > 10 C/MIN > 100.

Sample Name : ULI# 40751, FLD# CEB11
Instrument : THIRTEEN
Result File : /INSTRUMENT/THIRTEEN/8010291NUOAW_009.RES
Run Time : 12.50Minutes
Injected on : 1921 02Jan1991
Report Time : 1111 08Jan1991
Method : /METHOD/VOA_NW.MTH
Addn. Data :
Amount Inj. :



100024

AR302064

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB12

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40752 (Duplicate)
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/02/91
Date Analyzed: 01/02/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	47
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	6.9
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	15
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	31

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	2.4
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

AR302065

100025

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number
CEB11 Dup.

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40751 (Duplicate)
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/02/91
Date Analyzed: 01/02/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	43
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	3.2
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	7.7
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	17

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.9
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form 1

100023

AR302066

ULI APPLIED CHROMATOGRAPHY LAB

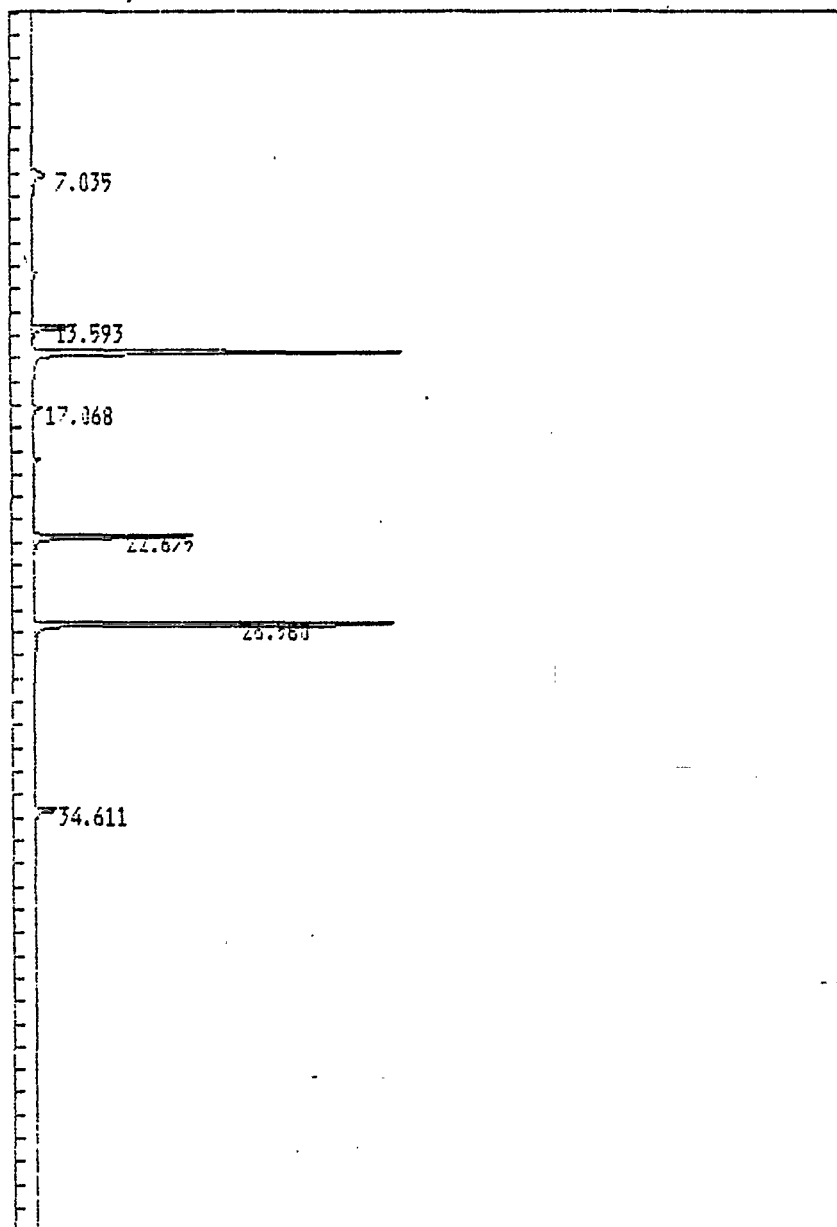
RAW DATA REPORT

VOGLATILE ANALYSIS; 0-1 4420 ELCD
COLUMN: 105M Rtx-1

Sample Name : ULI# 40752, FLO# CEB12
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010291M2VOA_006.RES
Run Time : 53.00Minutes
Injected on : 1714 02Jan1991
Report Time : 1006.14Jan1991
Method : /METHOD/VOA_M2.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
* 7.04	10392	DICHLORODIFLUOROME	3.249E+01
13.59	11885	1,1-DICHLORORETHEN	6.941E+00
17.07	3009	1,1-DICHLOROETHANE	8.125E+01
22.67	35357	1,1,1-TRICHLOROETH	1.4E+01
26.58	94197	TRICHLOROETHENE	3.129E+01
34.61	7752	TETRACHLOROETHENE	2.380E+00

* calculation from initial data
standard yields 47.4 ug/l



100027

AR302067

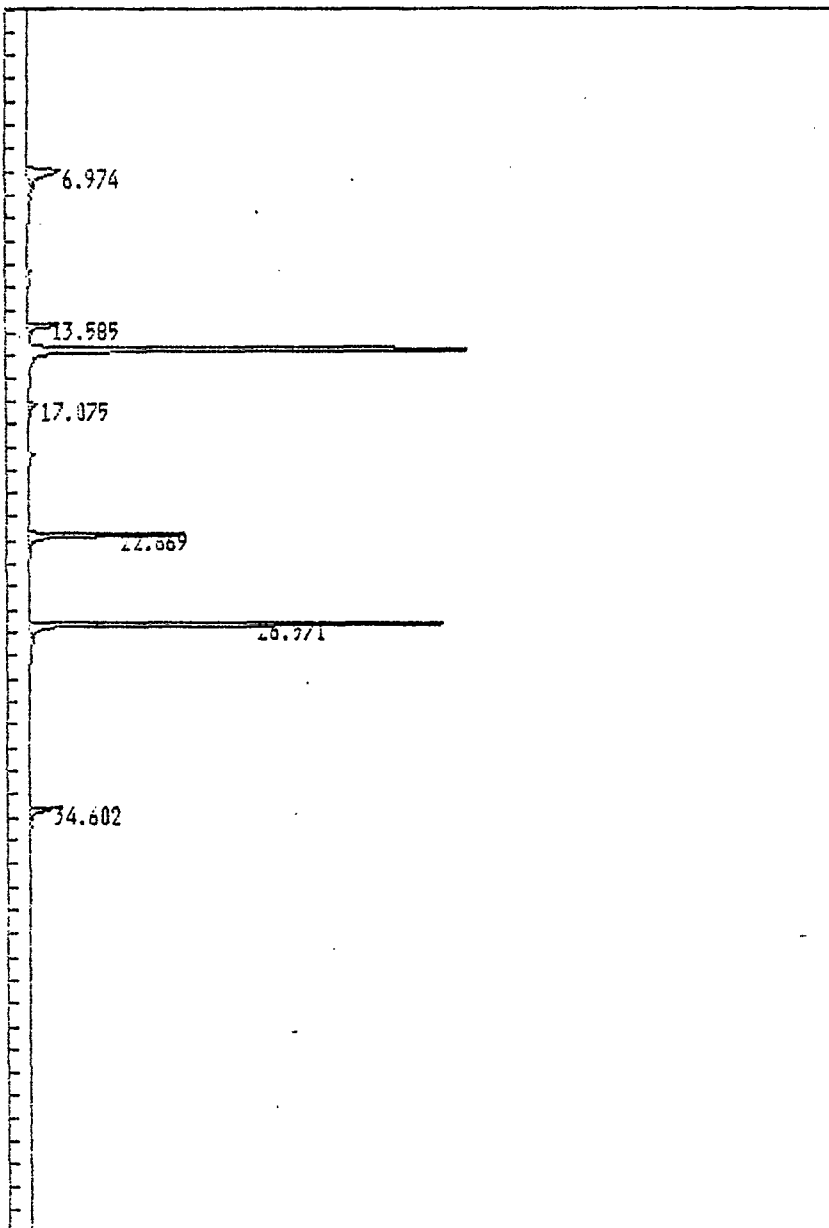
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILE ANALYSIS; 0-1 4420 ELCD
COLUMN: 105M Rtx-1

Sample Name : ULI# 40751, FLD# CEB11, DUP. REANALY
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VOA_022.RES
Run Time : 53.00Minutes
Injected on : 2202 03Jan1991
Report Time : 2017 17Jan1991
Method : /METHOD/VOA_M2_010391.MTH
Addn. Data :
Amount [nj] :

RT	Area	Peak ID	AMOUNT
6.97	12848	DICHLORODIFLUOROME	4.265E+01
13.59	6614	1,1-DICHLOROETHENE	3.227E+00
17.07	2408	1,1-DICHLOROETHANE	7.042E+01
22.67	25811	1,1,1-TRICHLOROETH	7.703E+00
26.57	69796	TRICHLOROETHENE	1.739E+01
34.60	5000	TETRACHLOROETHENE	1.879E+00



100023

AR302068

ULI APPLIED CHROMATOGRAPHY LAB

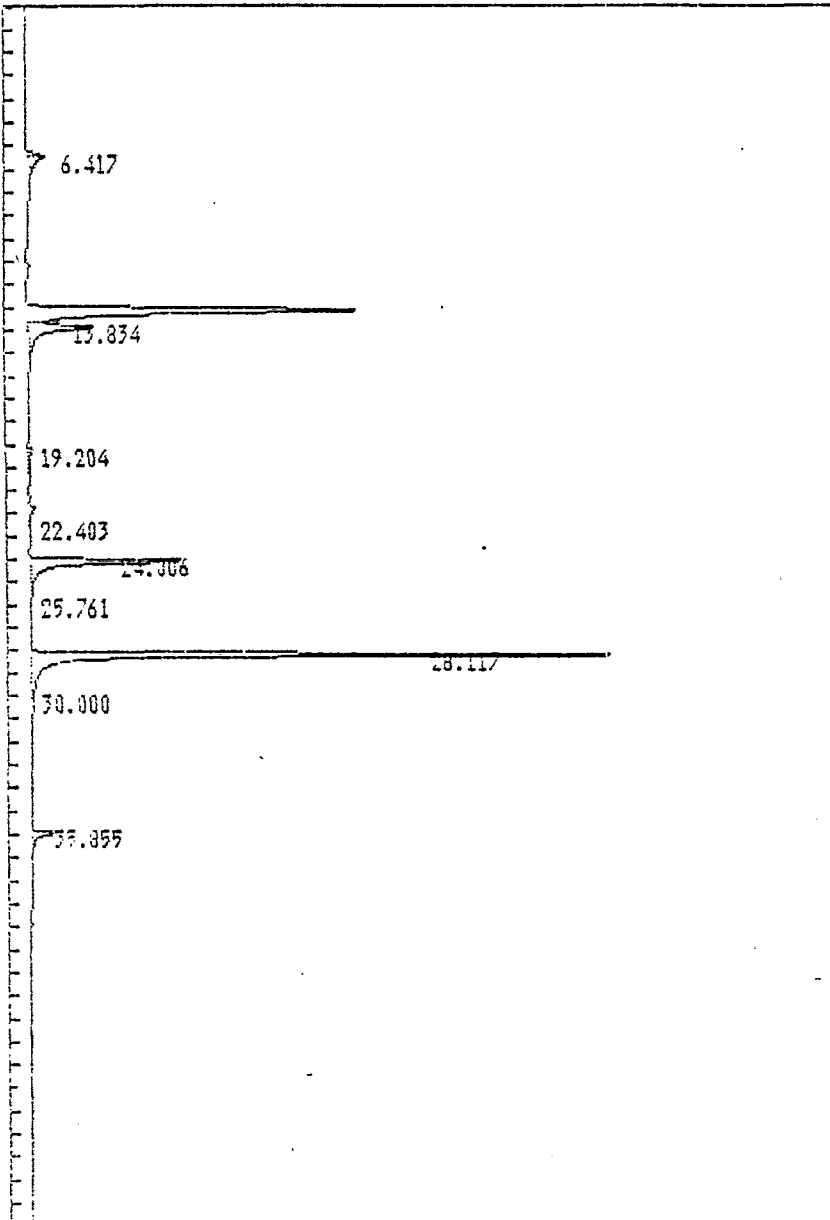
RAW DATA REPORT

VOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40752, FLD# CEB12
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010291MVOA_006.RES
Run Time : 53.00Minutes
Injected on : 1714 02Jan1991
Report Time : 1935_13Jan1991
Method : /METHOD/VOA_M.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
* 6.42	11170	DICHLORODIFLUOROME	1.741E+01
13.33	53392	1,1-DICHLOROETHENE	8.776E+00
19.20	5414	1,1-DICHLOROETHANE	5.39E+01
22.40	1206	CHLOROFORM	1.1E+01
24.01	110811	1,1,1-TRICHLOROETH	1.491E+01
25.76	779	1,2-DICHLOROETHANE	1.1E+00
28.12	305664	TRICHLOROETHENE	4.03E+01
30.00	1799	BROMODICHLOROMETHA	1.79E+03
35.85	17854	TETRACHLOROETHENE	1.958E+00

* calculation from initial daily
standard yields
22.9 ug/l.



100020

AR302069

ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILES ANALYSIS; TRACOR 1000 HALL

COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40751, FLD# CEB11, DUP. REANALY

Instrument : ELEVEN

Result File : /INSTRUMENT/ELEVEN/A010391MVOA_022.RES

Run Time : 53.00Minutes

Injected on : 2202 03Jan1991

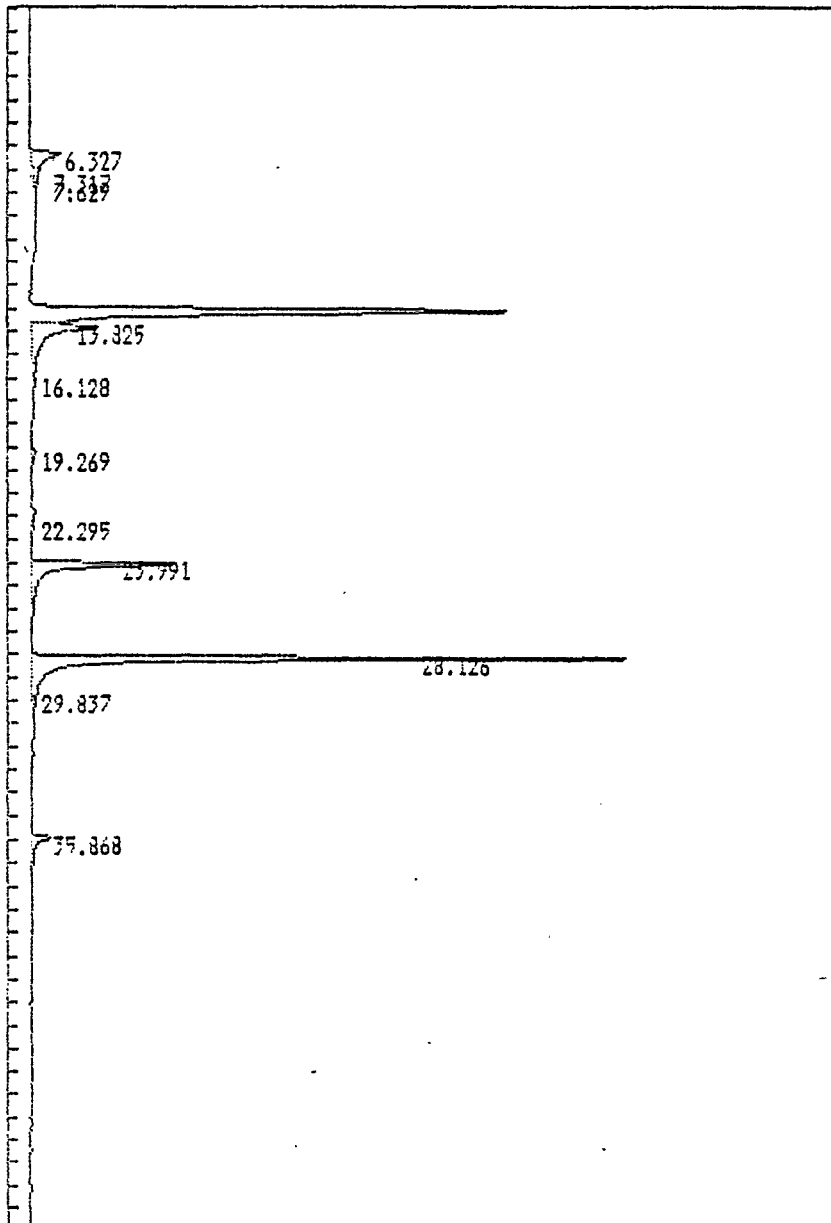
Report Time : 1736 -13Jan1991

Method : /METHOD/VOA_M.MTH

Addn. Data :

Amount Inj. :

RT	Area	Peak ID	AMOUNT
6.33	23283	DICHLORODIFLUOROME	3.569E+01
7.32	612	CHLOROMETHANE	2.166E+00
7.63	1358	VINYL CHLORIDE	7.146E-01
13.82	53589	1,1-DICHLOROETHENE	7.295E+00
16.13	1108	METHYLENE CHLORIDE	7.362E-01
19.27	3134	1,1-DICHLOROETHANE	1.299E+00
22.29	616	CHLOROFORM	5.122E-01
23.99	79530	1,1,1-TRICHLOROETH	7.763E+00
28.13	225256	TRICHLOROETHENE	2.144E+01
29.84	4249	BROMODICHLOROMETHA	1.125E-01
35.87	12871	TETRACHLOROETHENE	2.116E+00



100000

AR302070

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB11 Dup.

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40751 Duplicate
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/02/91
Date Analyzed: 01/02/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	NR
74-87-3	Chloromethane	NR
74-83-9	Bromomethane	NR
75-01-4	Vinyl Chloride	NR
75-00-3	Chloroethane	NR
75-09-2	Methylene Chloride	NR
75-35-4	1,1-Dichloroethene	NR
75-34-3	1,1-Dichloroethane	NR
156-60-5	Trans-1,2-Dichloroethene	NR
67-66-3	Chloroform	NR
107-06-2	1,2-Dichloroethane	NR
75-89-4	Trichlorofluoromethane	NR
71-55-6	1,1,1-Trichloroethane	NR
56-23-5	Carbon Tetrachloride	NR
75-27-4	Bromodichloromethane	NR
78-87-5	1,2-Dichloropropane	NR
10061-02-6	Trans-1,3-Dichloropropene	NR
79-01-6	Trichloroethene	NR

CAS Number		ug/l
124-48-1	Dibromochloromethane	NR
79-00-5	1,1,2-Trichloroethane	NR
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	NR
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	NR
127-18-4	Tetrachloroethene	NR
79-34-5	1,1,2,2-Tetrachloroethane	NR
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form 1

AR302071

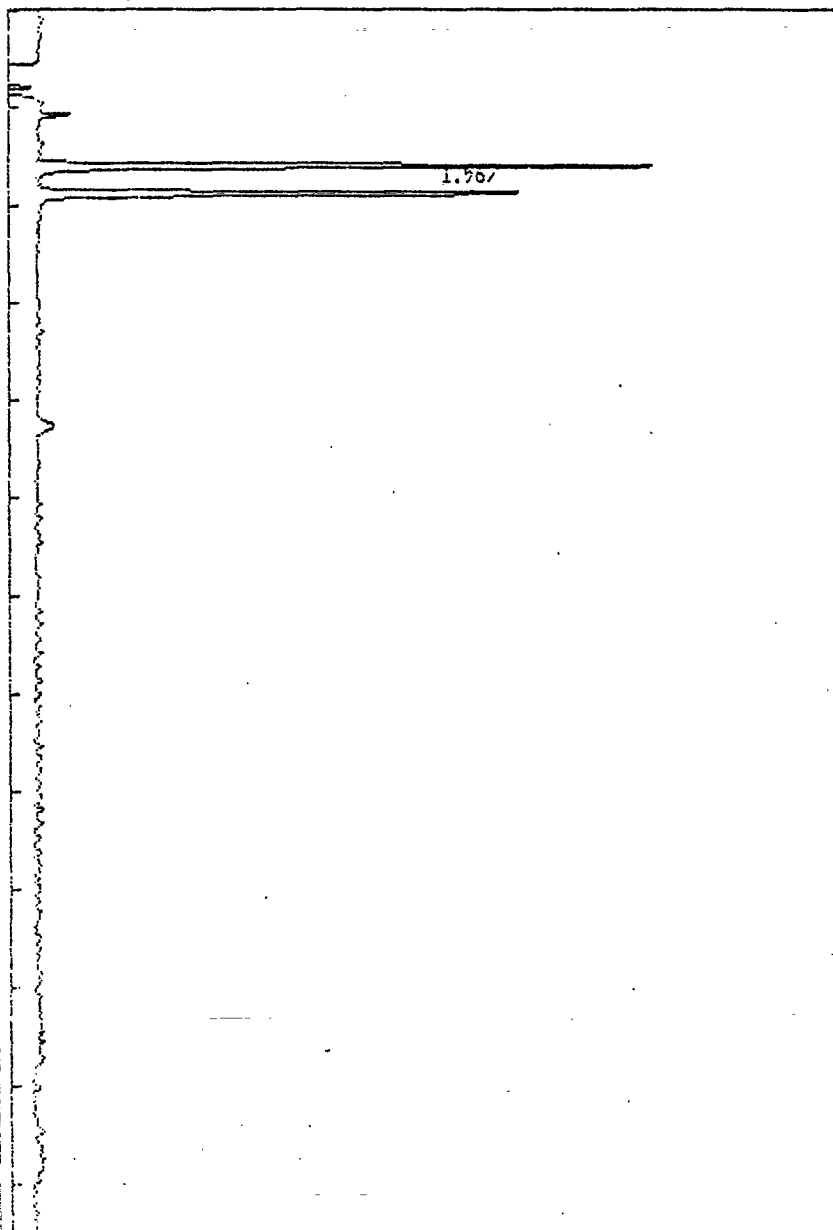
100001

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT	Area	Peak ID	UG/L
1.57	5855	*SS* FLUOROBENZENE	1.830E+01

VOLATILE ANALYSIS - PID
30M Rtx-1 MEGA BORE, 6 MIN @35C > 10 C/MIN > 100.

Sample Name : ULI# 40751, FLD# CEB11, DUPLICATE
Instrument : THIRTEEN
Result File : /INSTRUMENT/THIRTEEN/8010291NVOAW_012.RES
Run Time : 12.58Minutes
Injected on : 2057_02Jan1991
Report Time : 1117 08Jan1991
Method : /METHOD/VOA_NW.MTH
Addn. Data :
Amount Inj. :



100032

AR302072

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB14

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40754
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/02/91
Date Analyzed: 01/02/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	3.2
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	2.2
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	36

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: WLIR011491

Form 1

100033

AR302073

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB14 RE

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40754
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.7
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	2.1
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	23

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.1
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

AR302074

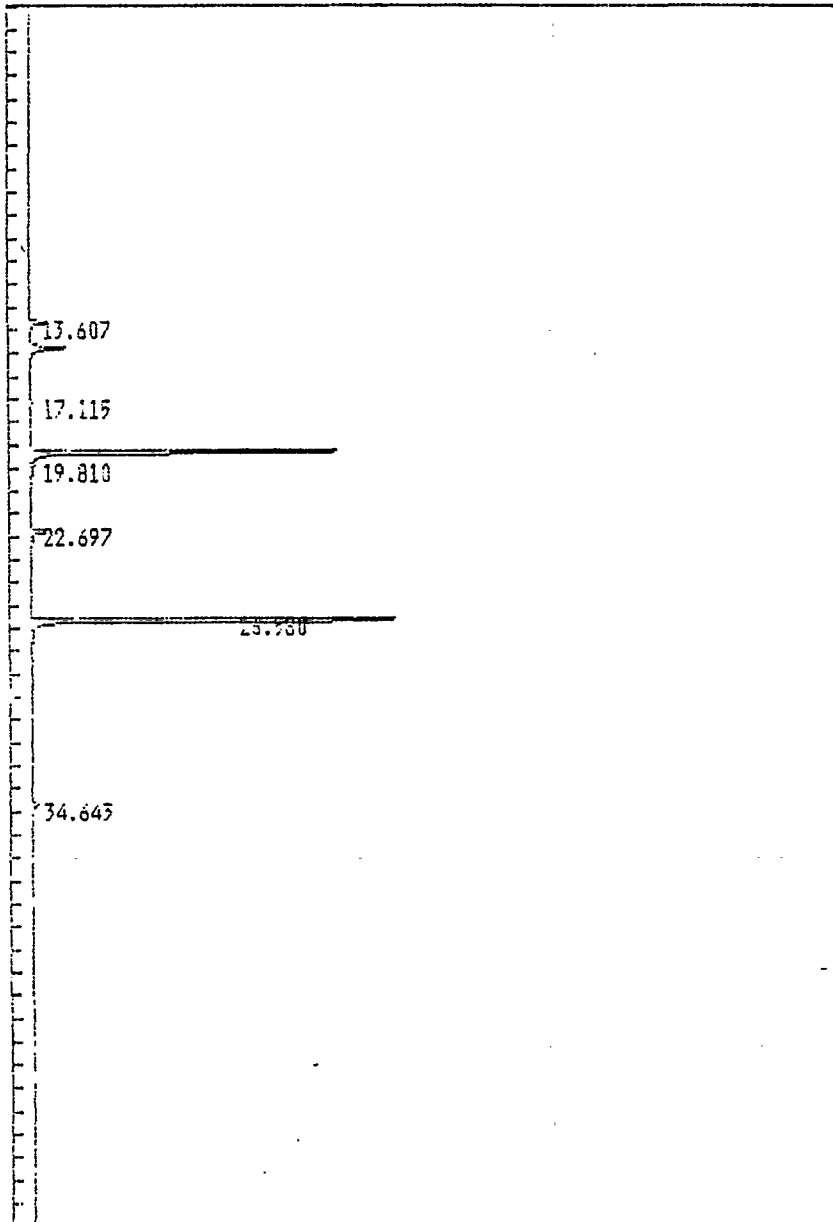
100034

RAW DATA REPORT

VOLATILE ANALYSIS; 0-1 4420 ELCD
COLUMN: 105M Rtx-1

Sample Name : ULI# 40754, FLD# CEB14
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010291M2VOA_007.RES
Run Time : 53.00Minutes
Injected on : 1816 02Jan1991
Report Time : 1008-14Jan1991
Method : /METHOD/VOA_M2.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
13.61	5517	1,1-DICHLORORETHEN	3.237E+00
17.12	825	1,1-DICHLORORETHANE	1.73E+01
19.81	2551	CHLOROFORM	5.0E+01
22.70	6528	1,1,1-TRICHLOROETH	2.180E+00
26.58	108391	TRICHLOROETHENE	3.632E+01
34.64	2271	TETRACHLOROETHENE	1.451E+01



100035

AR302075

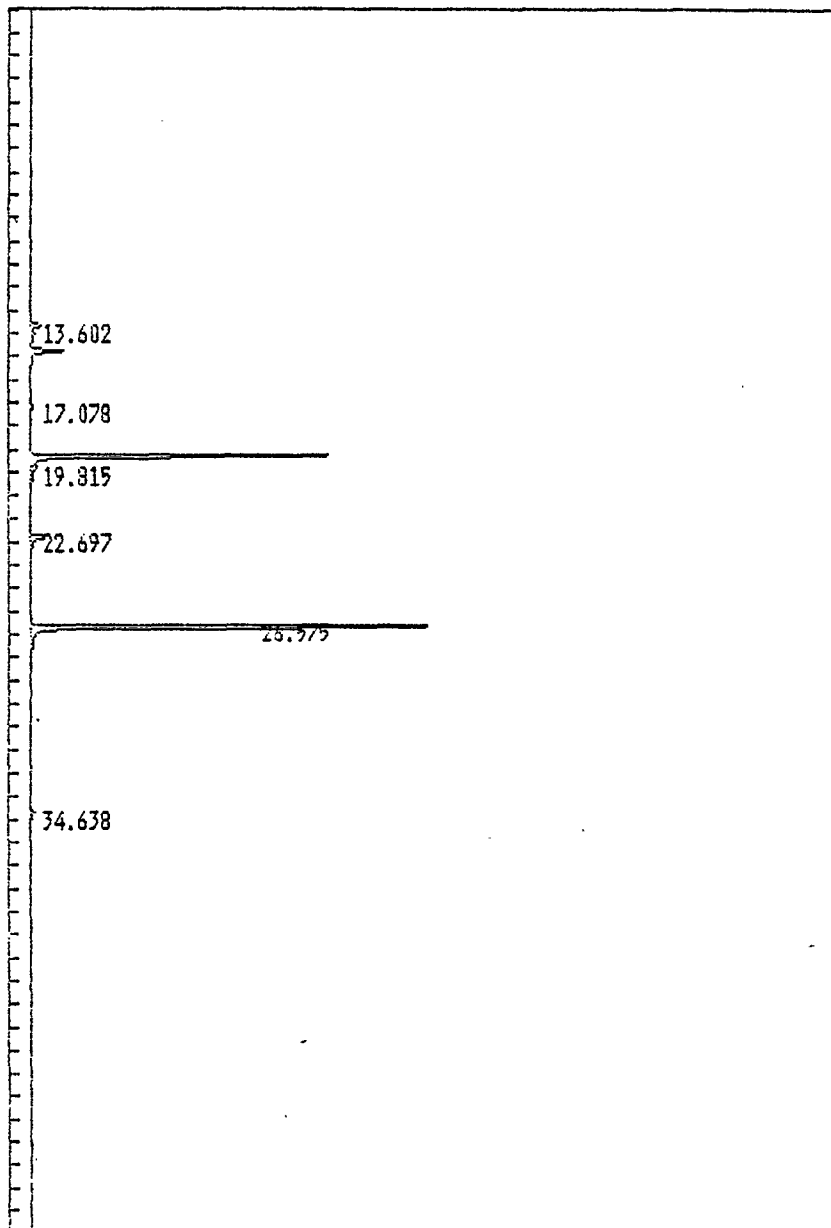
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILE ANALYSIS; 0-I 4420 ELCD
COLUMN: 105M Rtx-1

Sample Name : ULI# 40754, FLD# CEB14, REANALYSIS
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VOA_023.RES
Run Time : 53.00Minutes
Injected on : 2302 03Jan1991
Report Time : 2010 17Jan1991
Method : /METHOD/VOA_M2_010391.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
13.60	2815	1,1-DICHLOROETHEN	1.706E+00
17.08	857	1,1-DICHLOROETHANE	1.884E-01
19.81	3813	CHLOROFORM	1.360E-00
22.70	5871	1,1,1-TRICHLOROETH	2.061E+00
26.58	92245	TRICHLOROETHENE	2.297E+01
34.64	1937	TETRACHLOROETHENE	1.132E+00



100088

AR302076

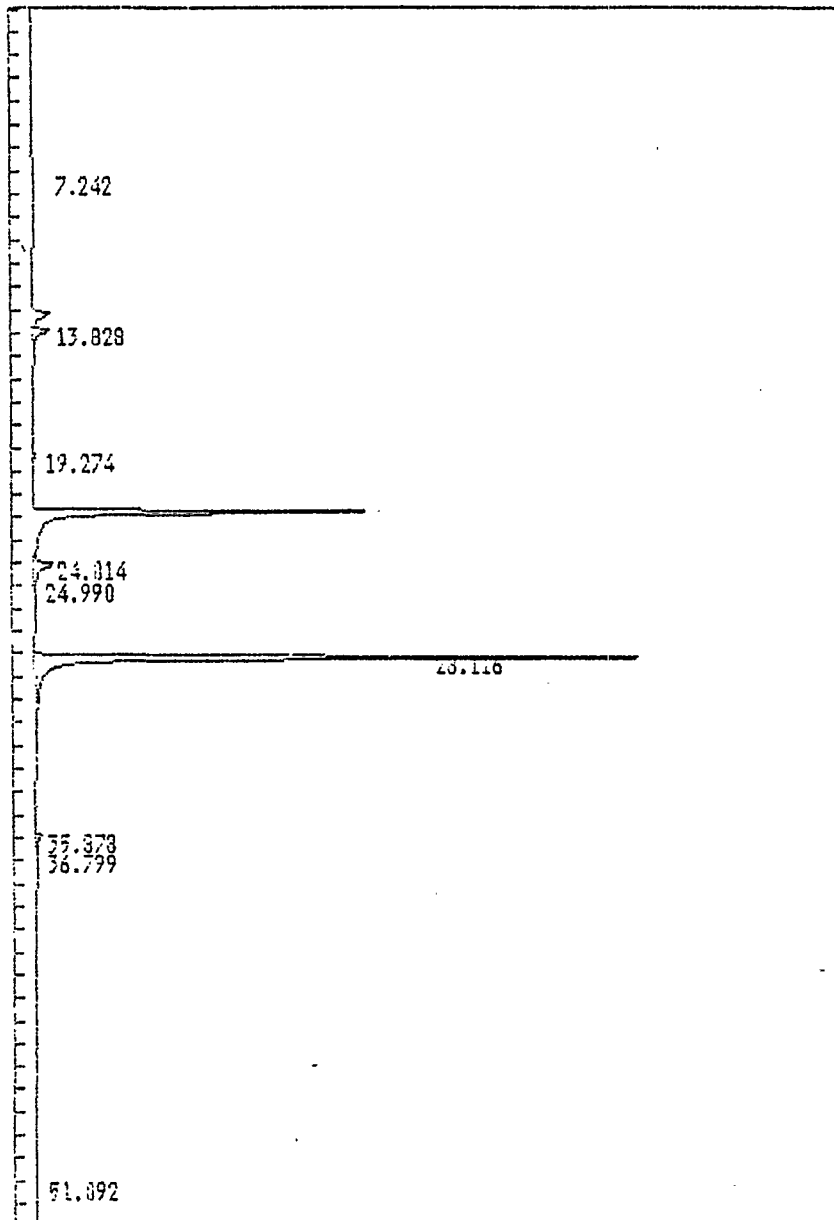
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40754, FLD# CEB14
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010291MUDA_007.RES
Run Time : 53.00Minutes
Injected on : 1816 02Jan1991
Report Time : 1937-13Jan1991
Method : /METHOD/MUDA_M.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
7.24	369	CHLOROMETHANE	2.772E+00
13.33	16086	1,1-DICHLOROETHENE	2.760E+00
19.27	1750	1,1-DICHLOROETHANE	6.77E+00
24.01	22205	1,1,1-TRICHLOROETH	3.272E+00
24.99	836	CARBON TETRACHLORI	1.31E+01
28.12	360195	TRICHLOROETHENE	4.755E+01
35.88	6284	TETRACHLOROETHENE	4.627E+01
36.80	637	PEROXYCHLOROMETHA	1.671E+01
51.09	700	1,2-DICHLOROBENZEN	1.222E+01



100037

AR302077

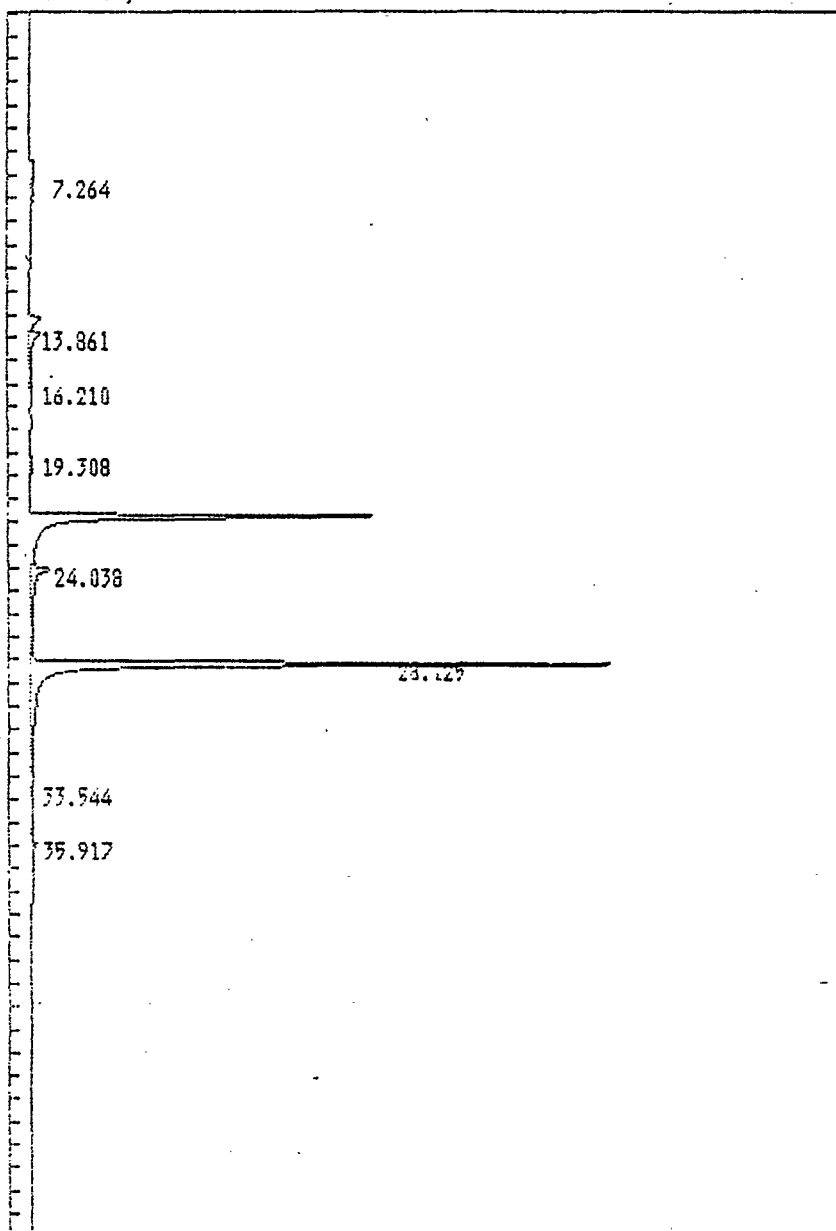
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40754, FLD# CEB14, REANALYSIS
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010791MVOA_023.RES
Run Time : 53.00Minutes
Injected on : 2302 03Jan1991
Report Time : 1730 13Jan1991
Method : /METHOD/VOA_M.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
7.26	600	CHLOROMETHANE	2.102E+00
13.86	14011	1,1-DICHLOROETHENE	2.800E+00
16.21	1378	METHYLENE CHLORIDE	7.768E-01
19.31	2034	1,1-DICHLOROETHANE	1.190E+00
24.04	28086	1,1,1-TRICHLOROETH	3.186E+00
28.12	313416	TRICHLOROETHENE	2.957E+01
33.54	668	TRANS-1,2-DICHLORO	7.731E-01
35.92	4684	TETRACHLOROETHENE	1.464E+00



100033

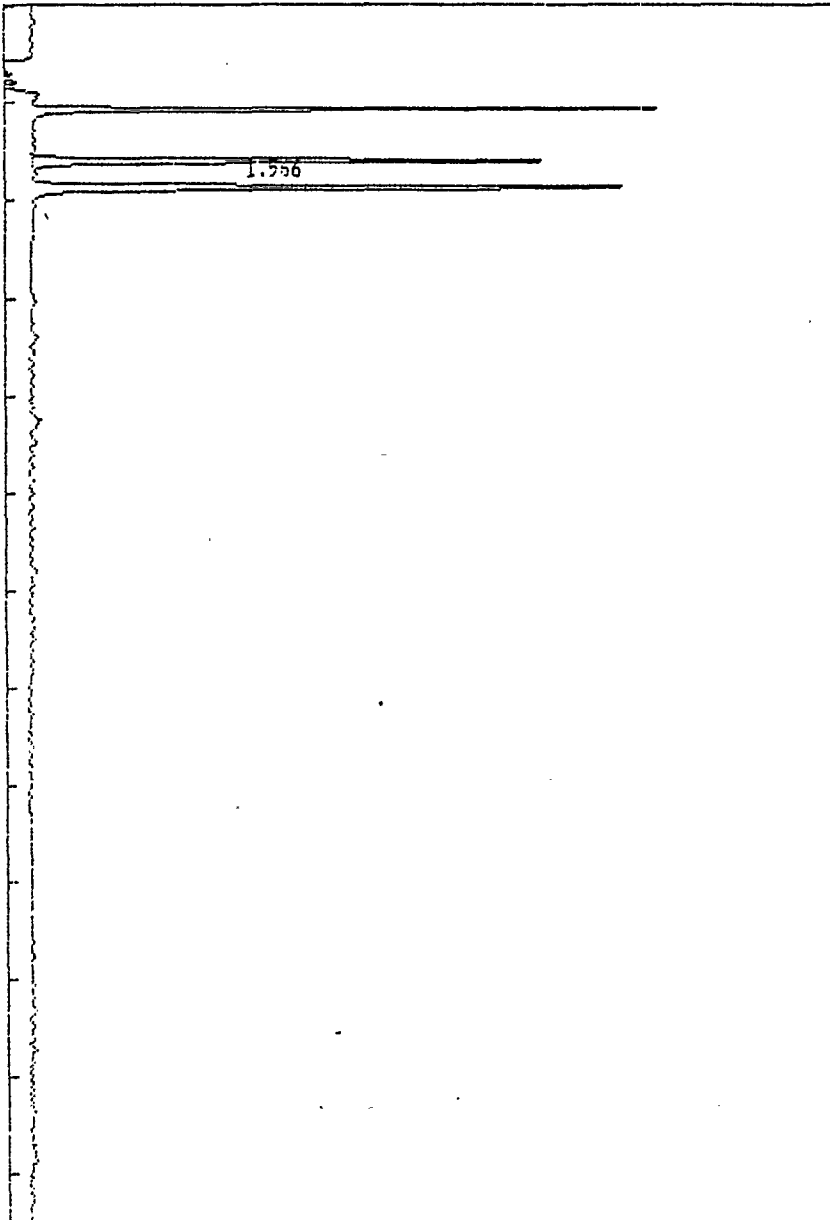
AR302078

U.I. APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT	Area	Peak ID	UG/L
1.57	5824	*SS* FLUOROBENZENE	1.821E+01

— VOLATILE ANALYSIS - PID
30M Rtx-1 MEGA80RE, 6 MIN @35C > 10 C/MIN > 100.

Sample Name : VLI# 40754, FLD# CEB14
Instrument : THIRTEEN
Result File : /INSTRUMENT/THIRTEEN/B010291NVOAW_010.RES
Run Time : 12.50Minutes
Injected on : 1953 02Jan1991
Report Time : 1114 08Jan1991
Method : /METHOD/VOA_NW.MTH
Addn. Data :
Amount Inj. :



100000

AR302079

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB15

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40755
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/02/91
Date Analyzed: 01/02/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form 1

100040

AR302080

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number
CEB15 RE

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40755
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form 1

AR302081

100041

RAW DATA REPORT

VOLATILE ANALYSIS: 0-1 4420 ELCD

COLUMN: 105M Rtx-1

Sample Name : ULI# 40755, FLD# C2B15

Instrument : TWO

Result File : /INSTRUMENT/TWO/A010291M2VCA_008.RES

Run Time : 53.00Minutes

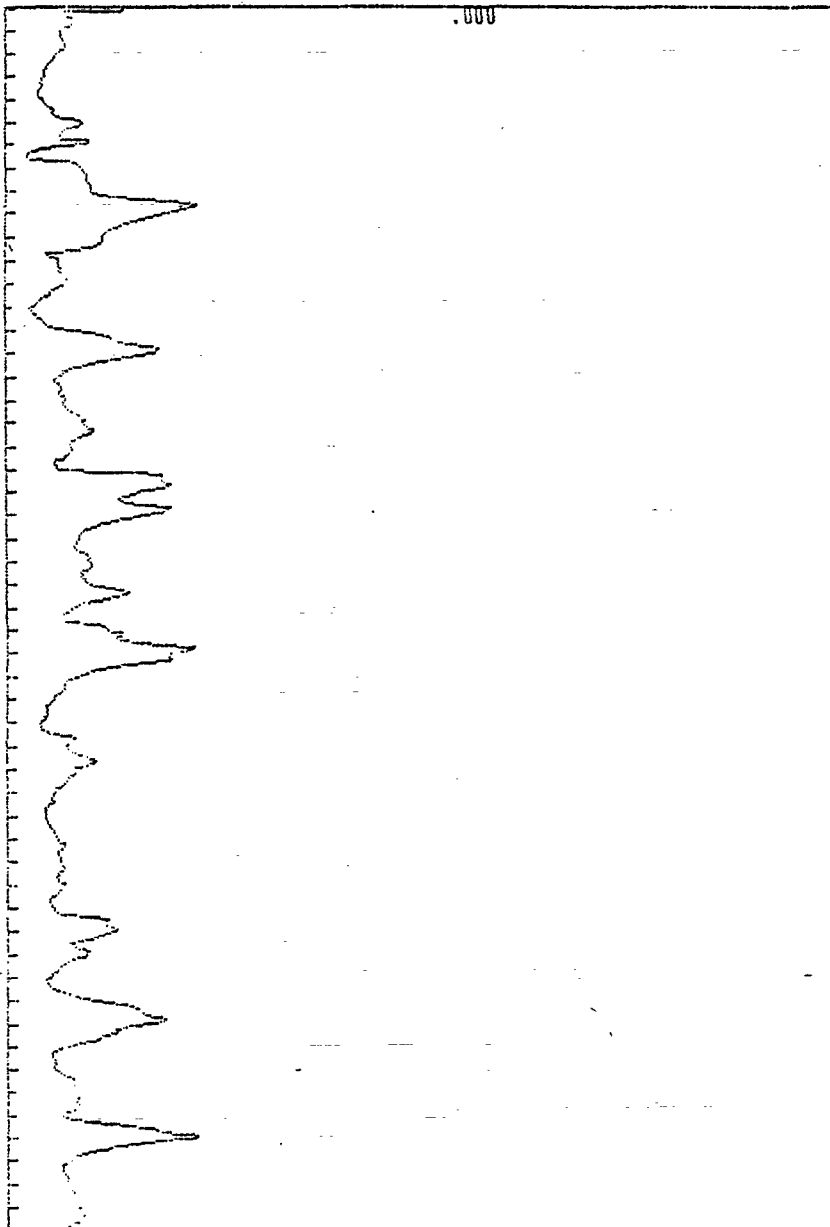
Injected on : 1921 02Jan1991

Report Time : 1010 14Jan1991

Method : /METHOD/VCA_M2.MTH

Addn. Data :

Amount Inj. :



100042

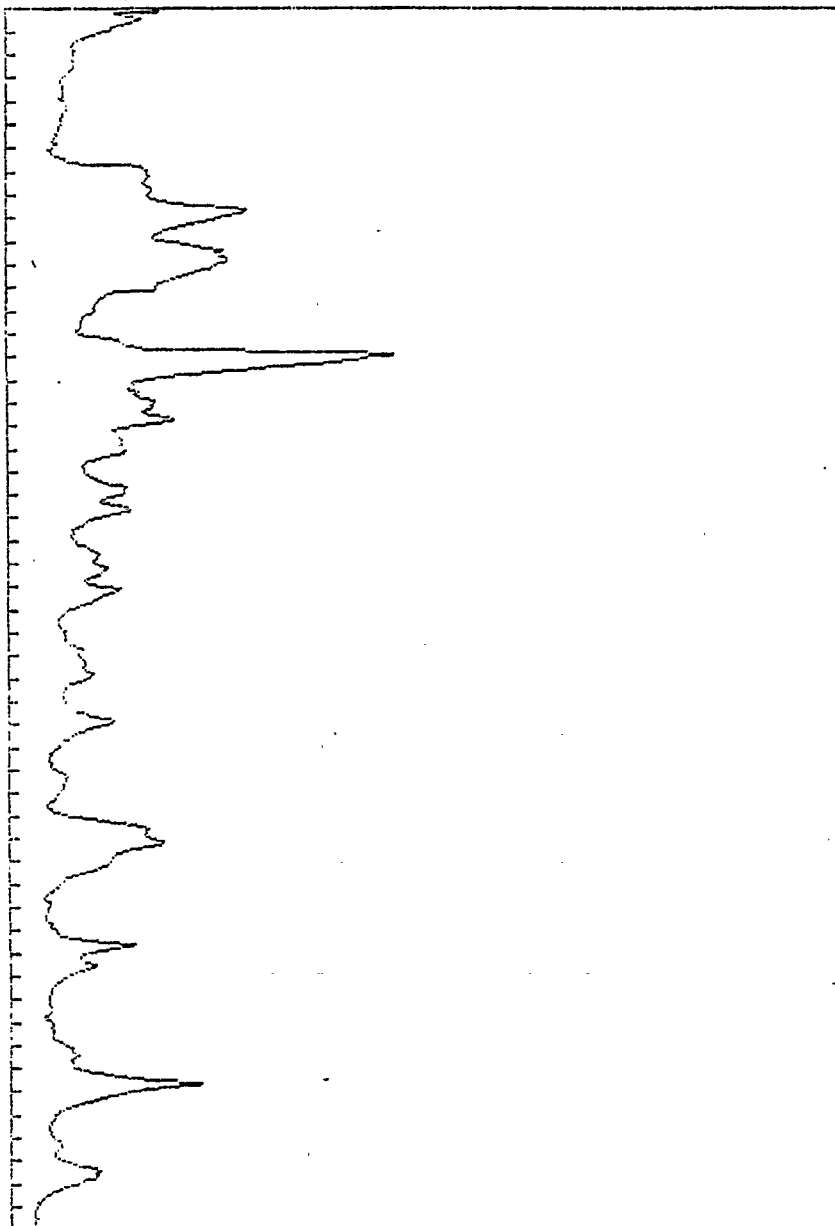
AR302082

RAW DATA REPORT

VOLATILE ANALYSIS: 0-1 4420 ELCD

COLUMN: 105M Rtx-1

Sample Name : ULI# 40755, FLD# CEB15, REANALYSIS
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VOA_024.RES
Run Time : 53.00Minutes
Injected on : 0000 04Jan1991
Report Time : 1840 13Jan1991
Method : /METHOD/VOA_M2.MTH
Adon. Data :
Amount Inj. :



100043

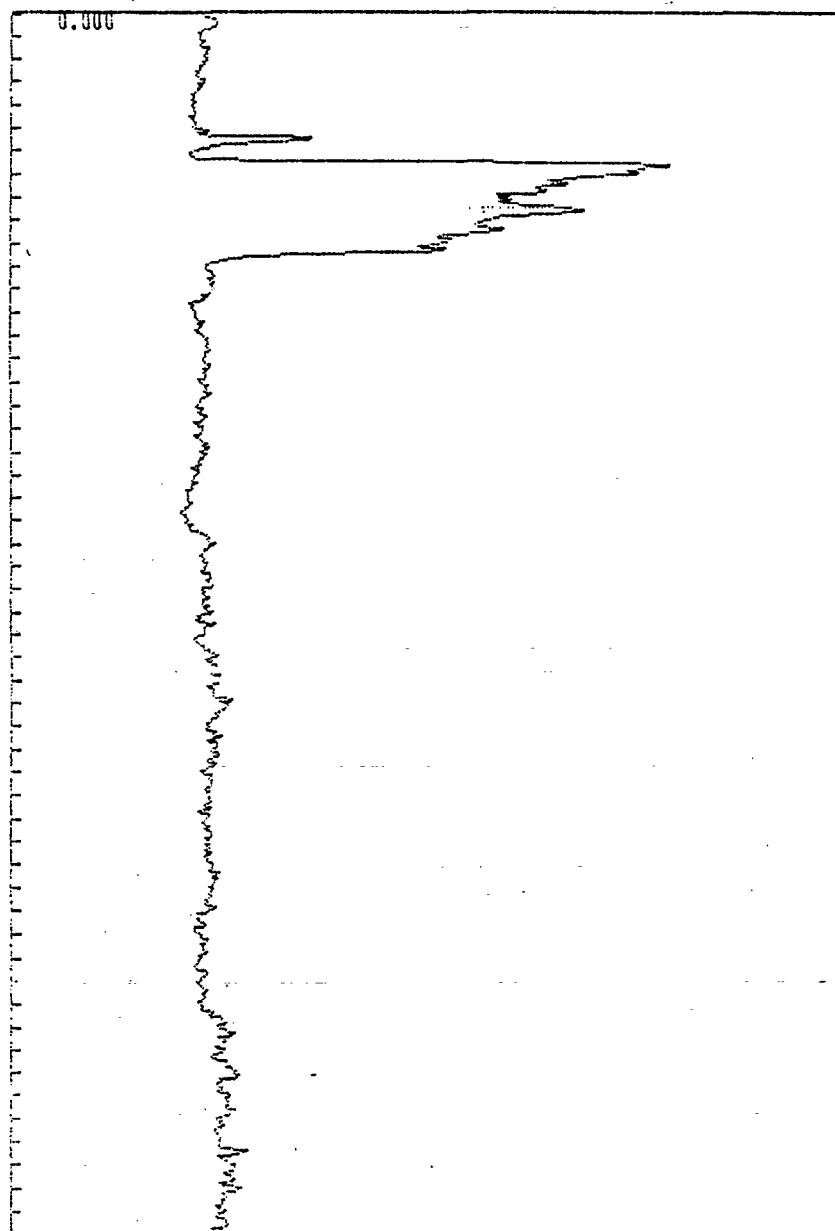
AR302083

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT	Area	Peak ID	AMOUNT
0.00	0		0.000E+00

VOLATILES ANALYSIS; TRACER 1000 HALL
COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40755, FLD# CEB15
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010291MVA_008.RES
Run Time : 53.00Minutes
Injected on : 1921 02Jan1991
Report Time : 1938-13Jan1991
Method : /METHOD/VQA_M.MTH
Addn. Data :
Amount Inj. :

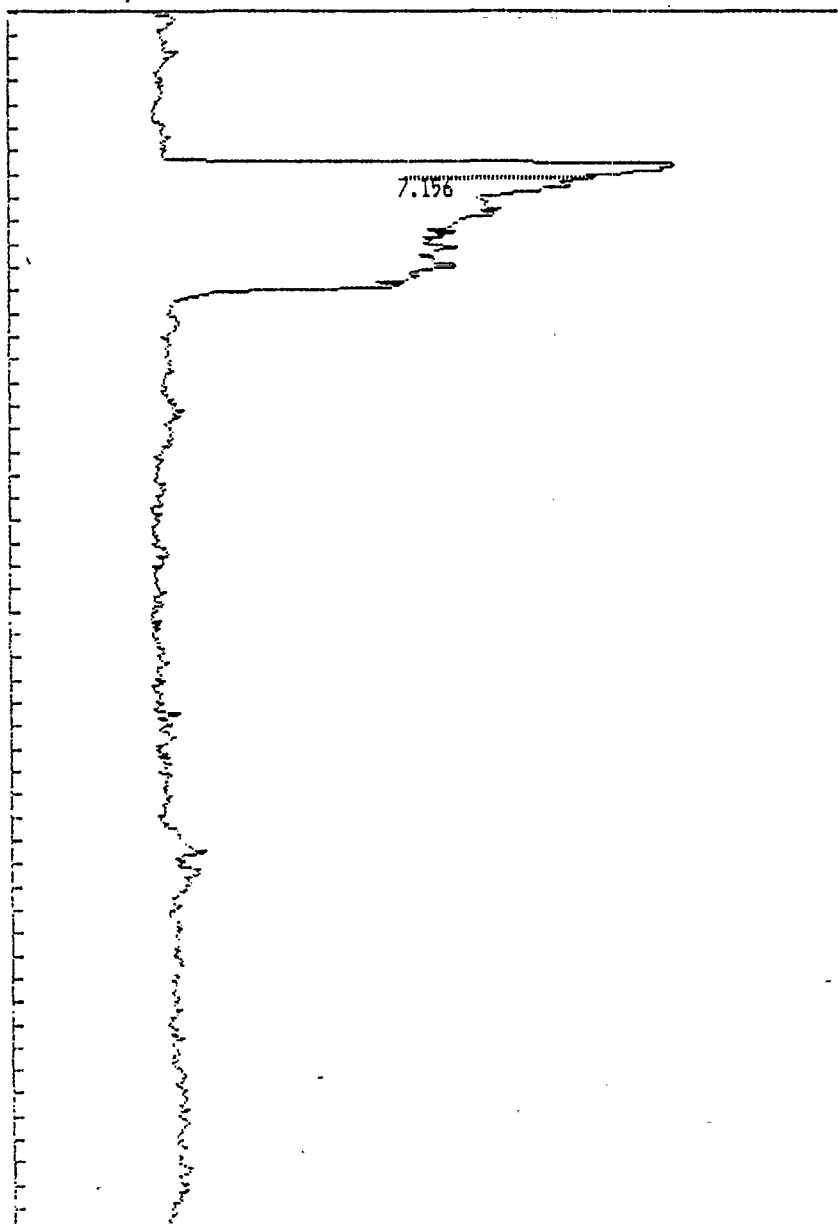


100042
AR302084

VOLATILES ANALYSIS; TRACOR 1000 HALL

COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40755, FLD# CEB15, REANALYSIS
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010391MVOA_024.RES
Run Time : 53.00Minutes
Injected on : 0000 04Jan1991
Report Time : 1739 13Jan1991
Method : /METHOD/VOA_M.MTH
Addn. Data :
Amount Inj. :



100045

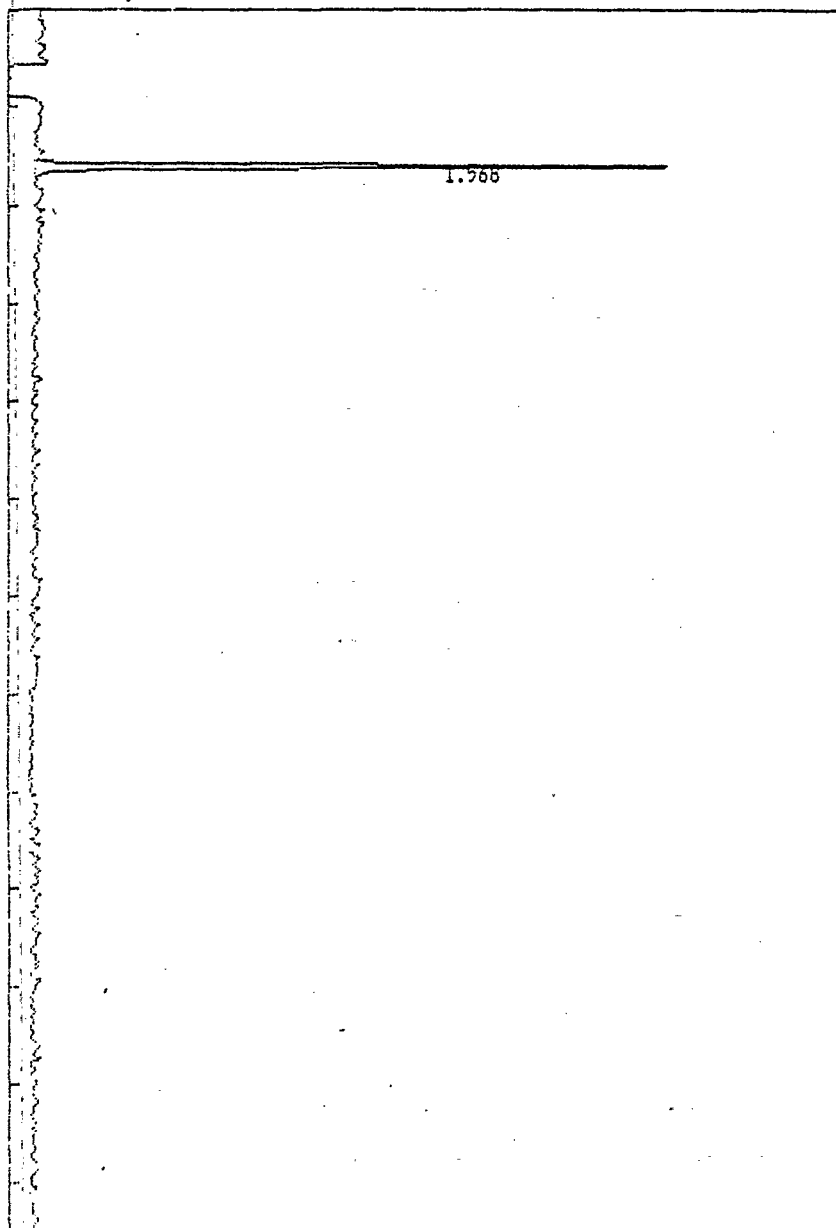
AR302085

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT	Area	Peak ID	UG/L
1.57	5774	*SS* FLUOROBENZENE	1.805E+01

VOLATILE ANALYSIS - PID
33M Rtx-1 MEGABORE, 6 MIN @35C > 10 C/MIN. > 100.

Sample Name : ULI# 40755, FLD# CEB15
Instrument : THIRTEEN
Result File : /INSTRUMENT/THIRTEEN/B010291NVOAW_011.RES
Run Time : 12.50Minutes
Injected on : 2025 02Jan1991
Report Time : 1115 08Jan1991
Method : /METHOD/VOA_NW.MTH
Addn. Data :
Amount Inj. :



100046

AR302086

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number
CEB16

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40756
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/02/91
Date Analyzed: 01/02/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

- Value If the result is a value greater than or equal to the detection limit, report the value.
- u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.
- ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.
- C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

- B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.
- NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

AR302087

100047

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB16 RE

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40756
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

AR302088

100043

RAW DATA REPORT

VOLATILE ANALYSIS: 0-1 4420 ELCD

COLUMN: 105M Rtx-1

Sample Name : ULI# 40756, FLD# CEB16

Instrument : TWO

Result File : /INSTRUMENT/TWO/A010291M2VOA_009.RES

Run Time : 53.00Minutes

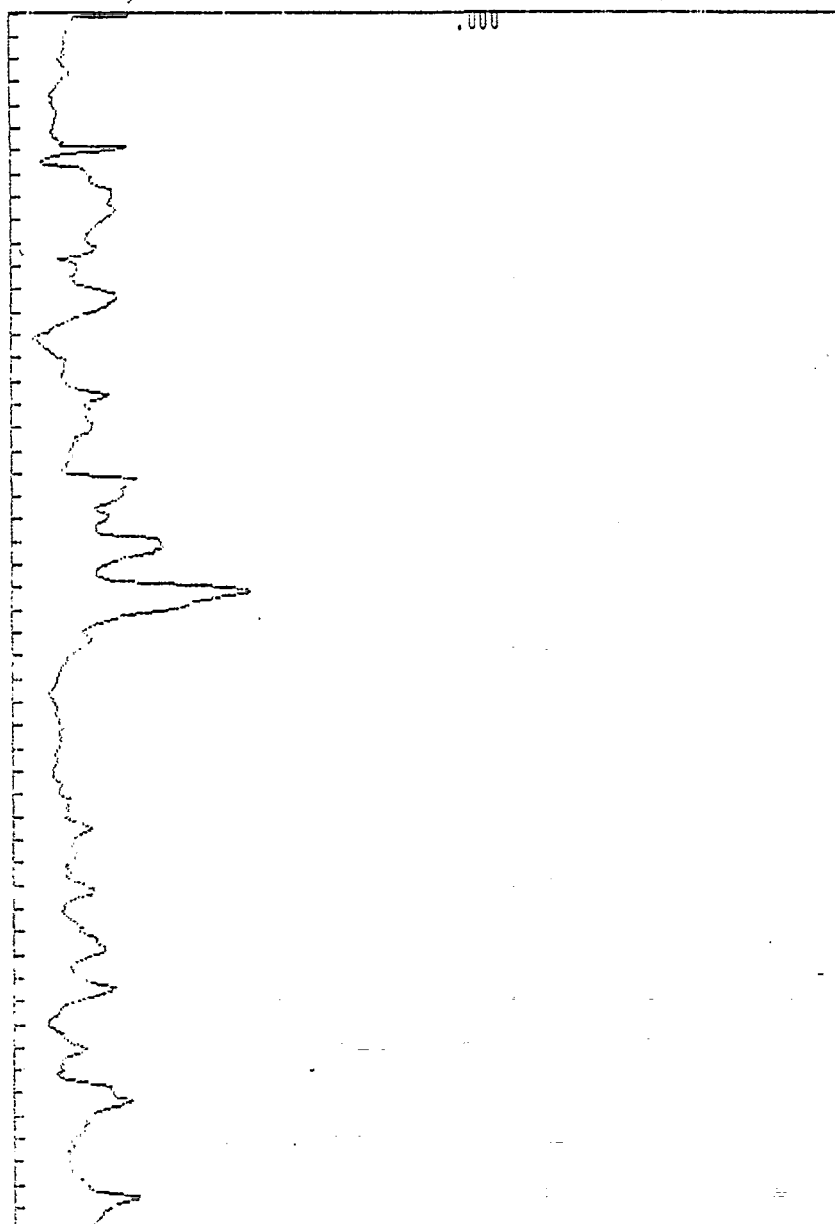
Injected on : 2024 02Jan1991

Report Time : 1012-14Jan1991

Method : /METHOD/VOA_M2.MTH

Addn. Data :

Amount Inj. :



100040

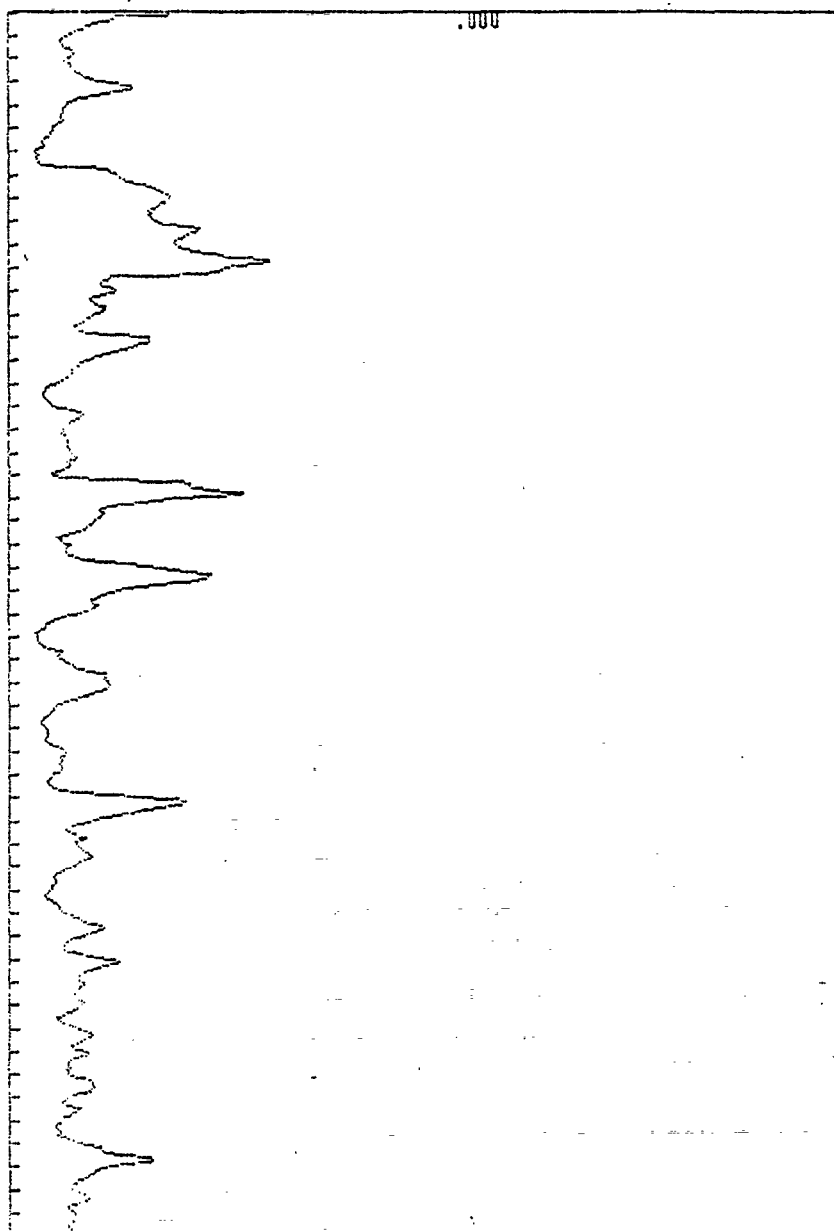
AR302089

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT Area Peak ID AMOUNT

VOLATILE ANALYSIS; 0-I 4420 ELCD
COLUMN: 105M Rtx-1

Sample Name : ULI# 40756, FLD# CEB16, REANALYSIS
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VOA_019.RES
Run Time : 53.00Minutes
Injected on : 1848 03Jan1991
Report Time : 1832 13Jan1991
Method : /METHOD/VOA_M2.MTH
Addn. Data :
Amount Inj. :



100055

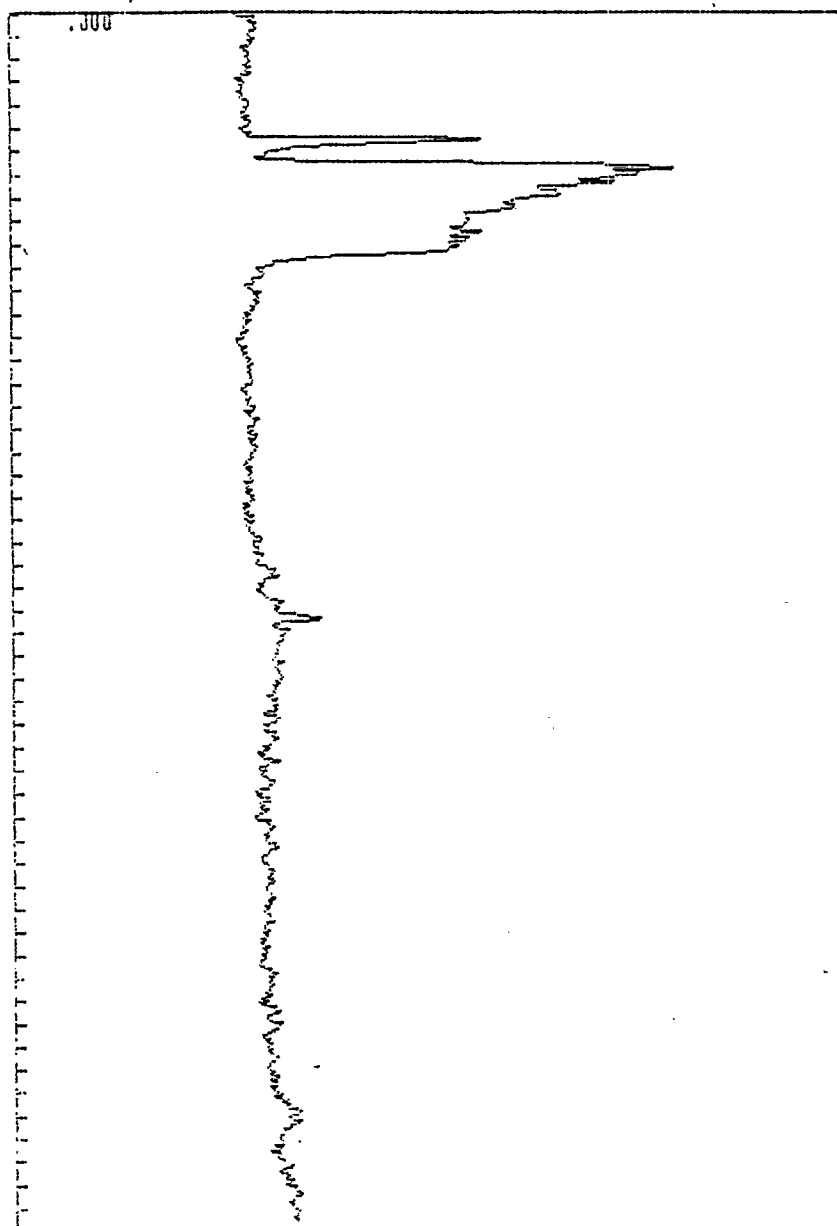
AR302090

RAW DATA REPORT

VOLATILES ANALYSIS; TRACOR 1000 HALL

COLUMN: 155M Rtx 502.2

Sample Name : ULI# 40756, FLD# CEB16
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010291MUDA_009.RES
Run Time : 53.00Minutes
Injected on : 2024 02Jan1991
Report Time : 1940-13Jan1991
Method : /METHOD/UOA_M.MTH
Addn. Data :
Amount Inj. :



100051

AR302091

RAW DATA REPORT

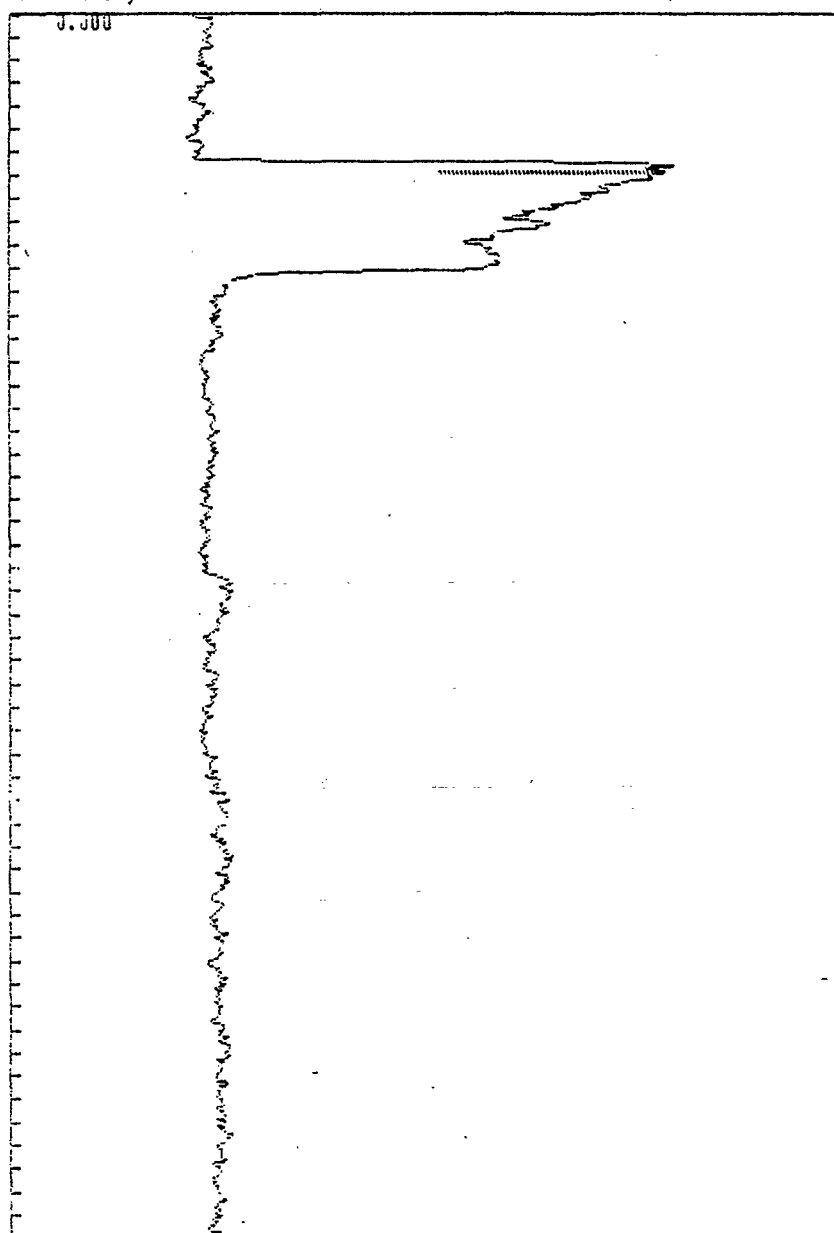
0.00

0

0.000E+00

VOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40756, FLD# CEB16, REANALYSIS
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010391MVCA_019.RES
Run Time : 53.00Minutes
Injected on : 1848 03Jan1991
Report Time : 1731-13Jan1991
Method : /METHOD/VCA_M.MTH
Addn. Data :
Amount Inj. :



100052

AR302092

ULI APPLIED CHROMATOGRAPHY LAB

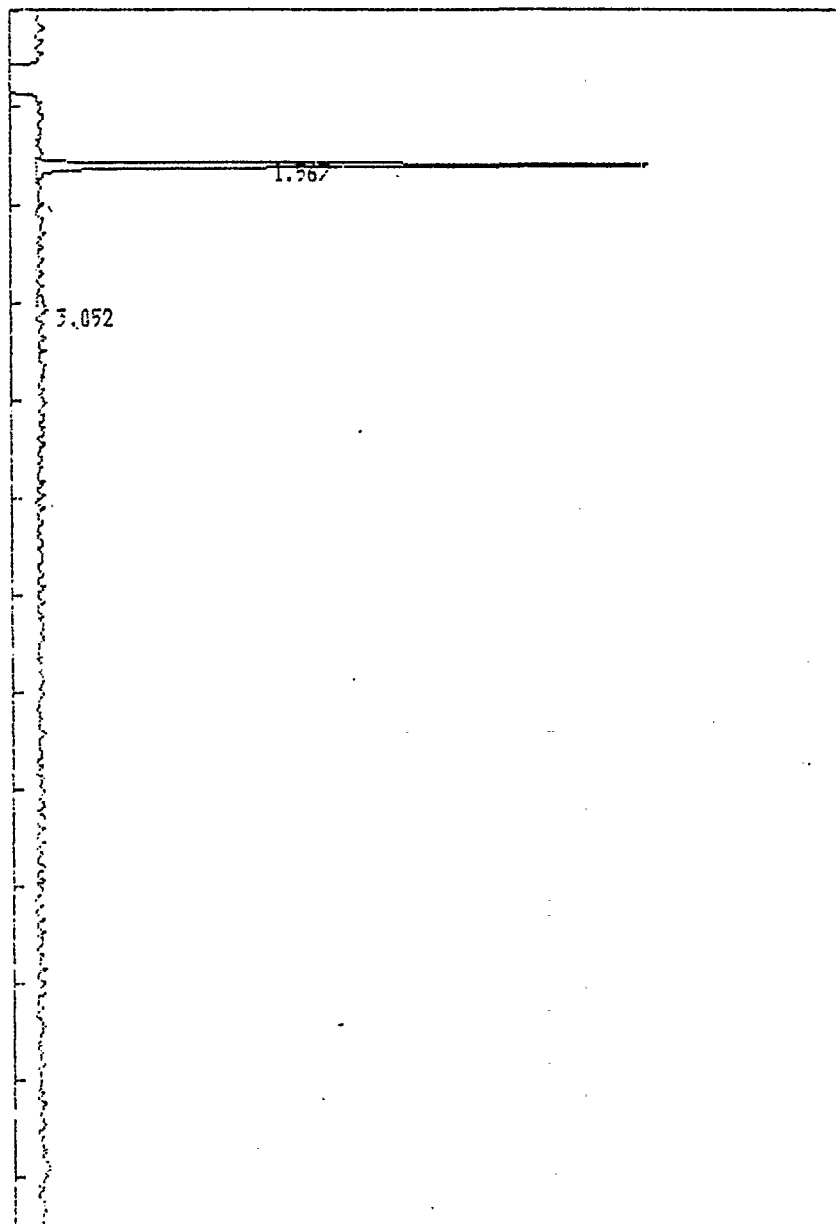
RAW DATA REPORT

VOLATILE ANALYSIS - PID

33M Rtx-1 MEGABORE, 0 MIN @35C > 10 C/MIN > 100.

RT	Area	Peak ID	UG/L
1.57	5880	*SS* FLUOROBENZENE	1.836E+01
3.05	332	TOLUENE	5.514E

Sample Name : ULI# 40756, FLD# CEB16
 Instrument : THIRTEEN
 Result File : /INSTRUMENT/THIRTEEN/8010291NVOAW_013.RES
 Run Time : 12.50Minutes
 Injected on : 2129 02Jan1991
 Report Time : 1118 08Jan1991
 Method : /METHOD/VOA_NW.MTH
 Addn. Data :
 Amount Inj. :



100055

AR302093

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number
CEB17

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40757
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

AR302094

100051

CLI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

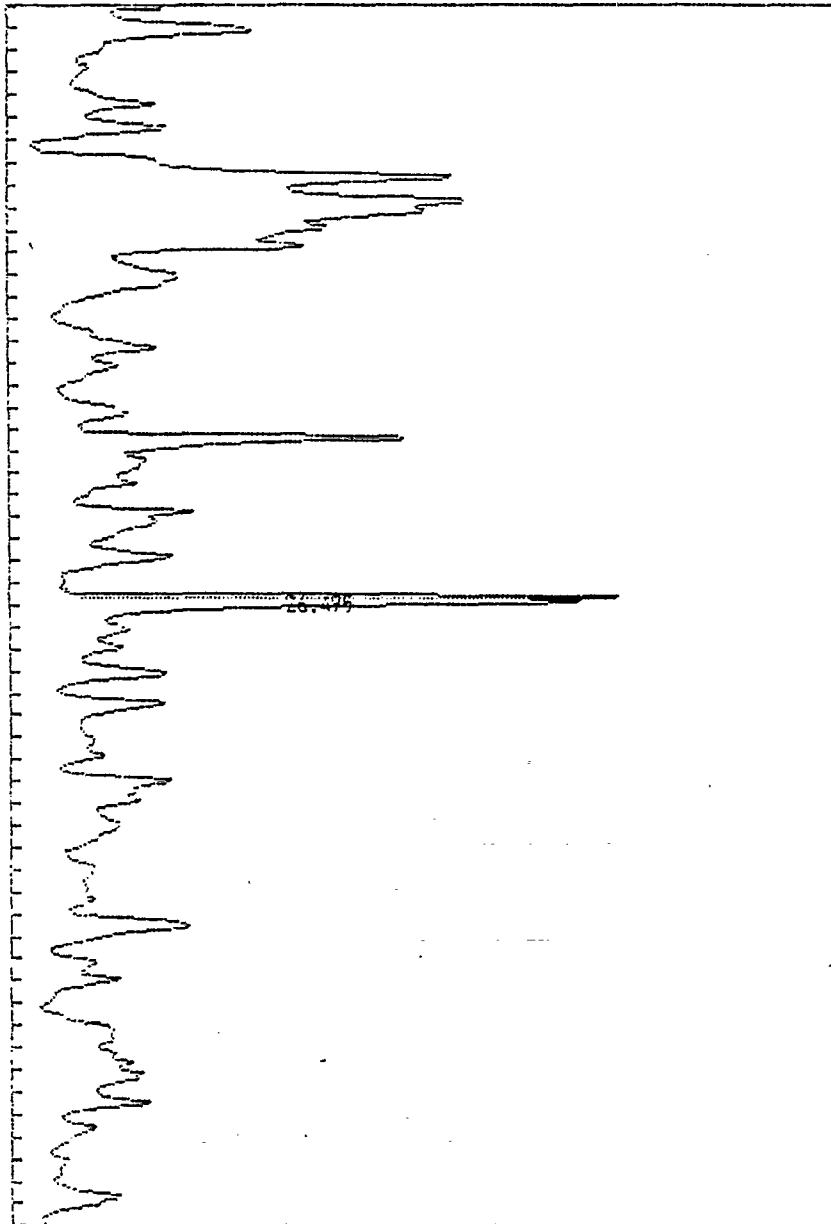
RT
26.50

Area	Peak ID	AMOUNT
803	TRICHLOROETHENE	7.280E-01

VOLATILE ANALYSIS: 0-1 4420 ELCD
COLUMN: 135M Rtx-1

Sample Name : CLI# 40757, FLD# CEB17
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VOA_006.RES
Run Time : 55.00Minutes
Injected on : 0521 03Jan1991
Report Time : 1810-13Jan1991
Method : /METHOD/VOA_M2.MTH
Addn. Data :
Amount Inj. :

calculations yield
Trichloroethene < 1.0 ug/l.
ry



100055

AR302095

ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

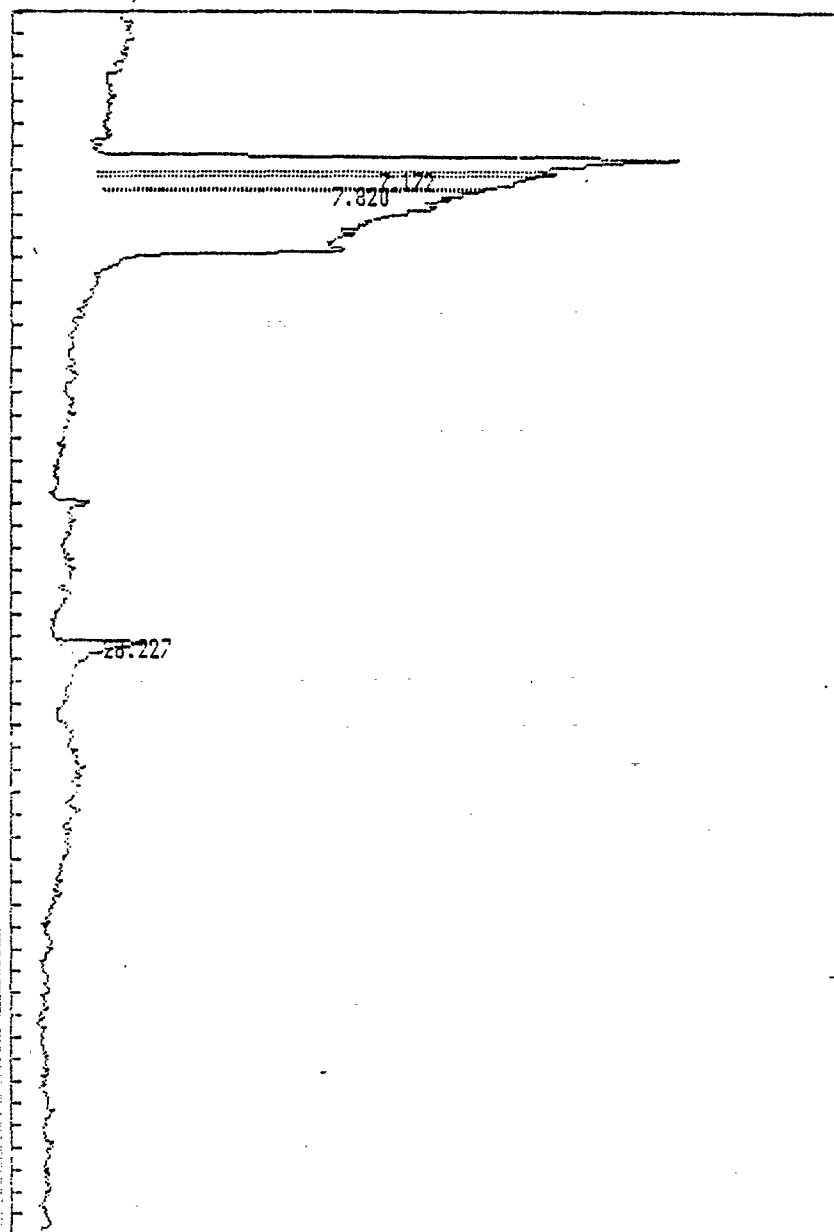
VOLATILES ANALYSIS; TRACOR 1000 HALL

COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40757, FLC# CEB17
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010391MVOA_006.RES
Run Time : 55.00Minutes
Injected on : 0521 03Jan1991
Report Time : 1708 13Jan1991
Method : /METHOD/VOA_M.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
7.17	2766	CHLOROMETHANE	2.897E+00
7.82	2423	VINYL CHLORIDE	9.792E-01
28.23	1735	TRICHLOROETHENE	1.092E+00

*calculation shown low
standard yields
concentration < 1.0 ug/lb
for Trichloroethene
ly*



100050

AR302096

U.I. APPLIED CHROMATOGRAPHY L-6

RAW DATA REPORT

RT	Area	Peak ID	UG/L
1.57	5900	*SS* FLUOROBENZENE	1.844E-01

VOLATILE ANALYSIS - PID

30M Rtx-1 MEGA80RE, 6 MIN @35C > 10 C/MIN > 100.

Sample Name : ULI# 40757, FLD# CEB17

Instrument : THIRTEEN

Result File : /INSTRUMENT/THIRTEEN/B010291NVOAW_014.RES

Run Time : 12.50Minutes

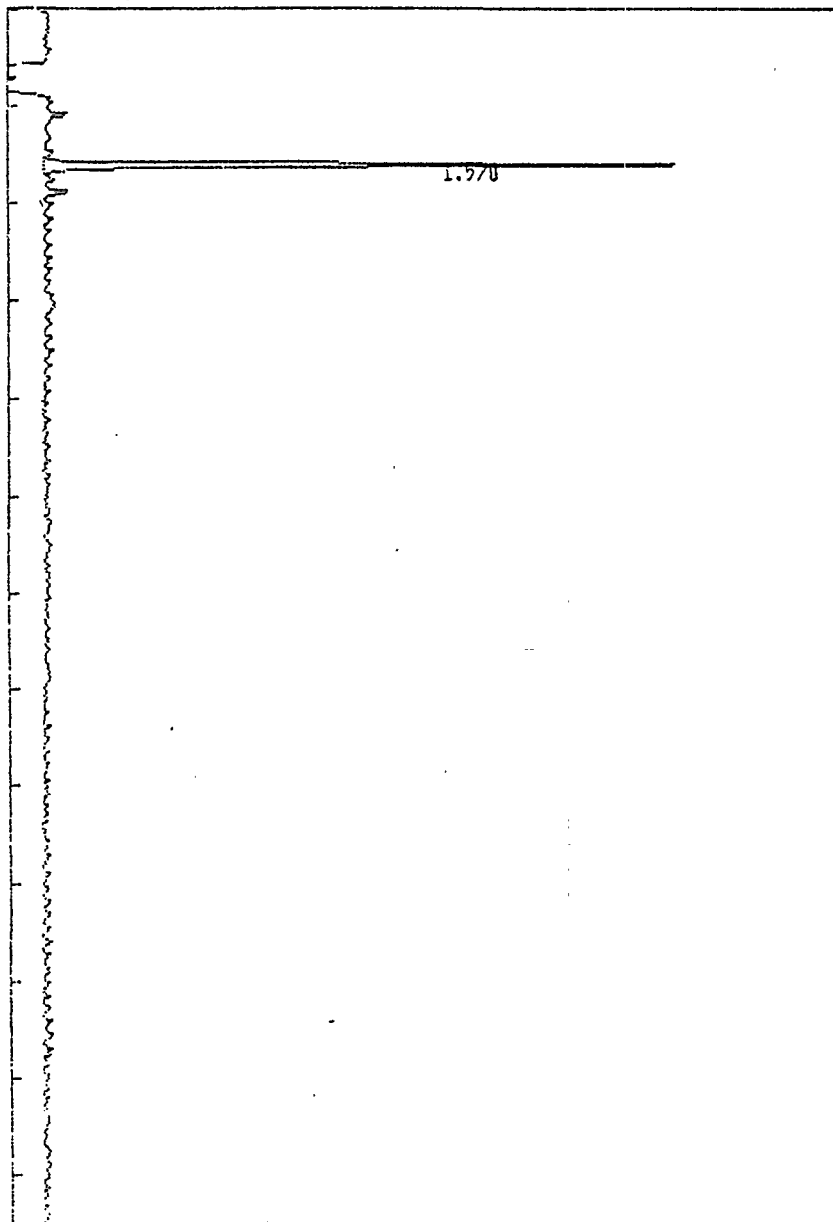
Injected on : 2200 02Jan1991

Report Time : 1120 08Jan1991

Method : /METHOD/VOA_NW.MTH

Addn. Data :

Amount Inj. :



100057

AR302097

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number
CEB18

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40758
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u

75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	3.5

107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u

78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR

75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u

100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

AR302098

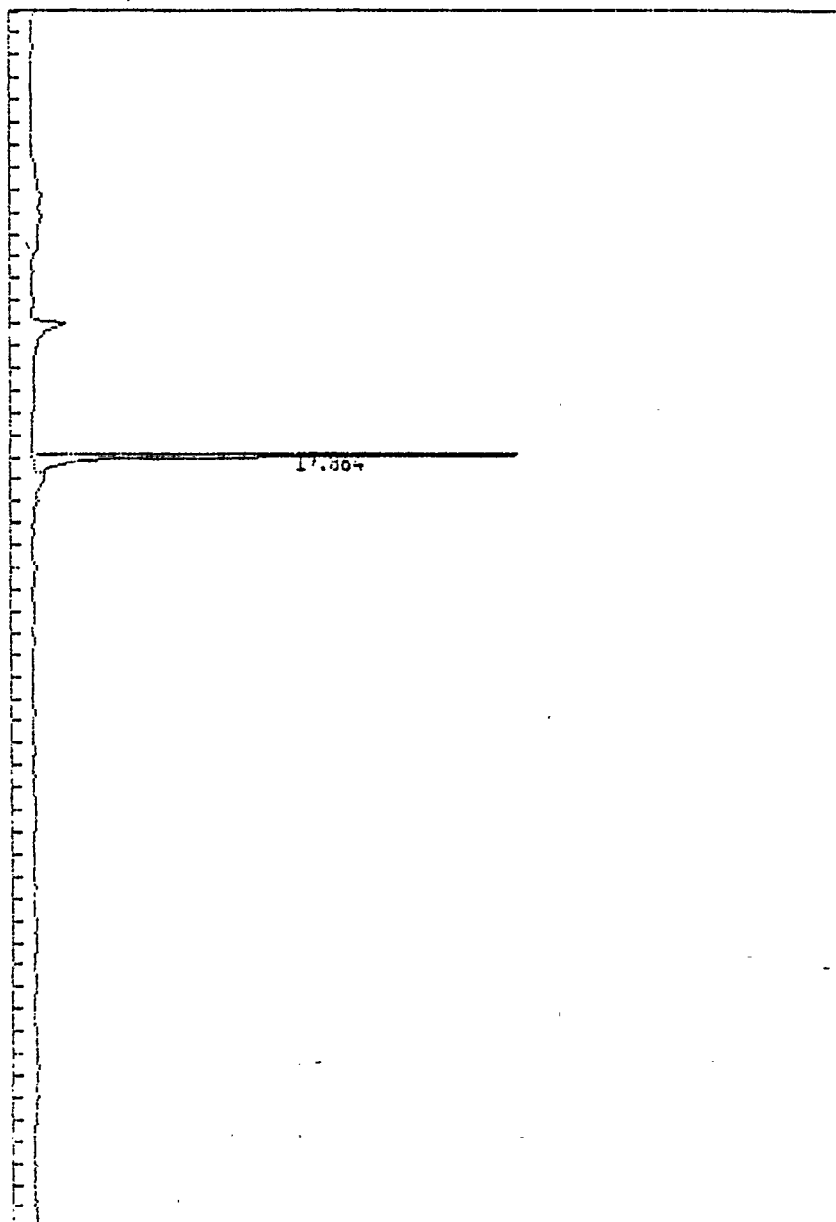
100053

ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

RT
19.86Area Peak ID
12248 CHLOROFORMAMOUNT
3.469E+00VOLATILE ANALYSIS: 0-1 4420 ELCD
COLUMN: 105M Rtx-1

Sample Name : ULI# 40758, FLD# CEB18
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VOA_007.RES
Run Time : 55.00Minutes
Injected on : 0623 03Jan1991
Report Time : 1811 13Jan1991
Method : /METHOD/VOA_M2.MTH
Addn. Data :
Amount [nj] :



100050

AR302099

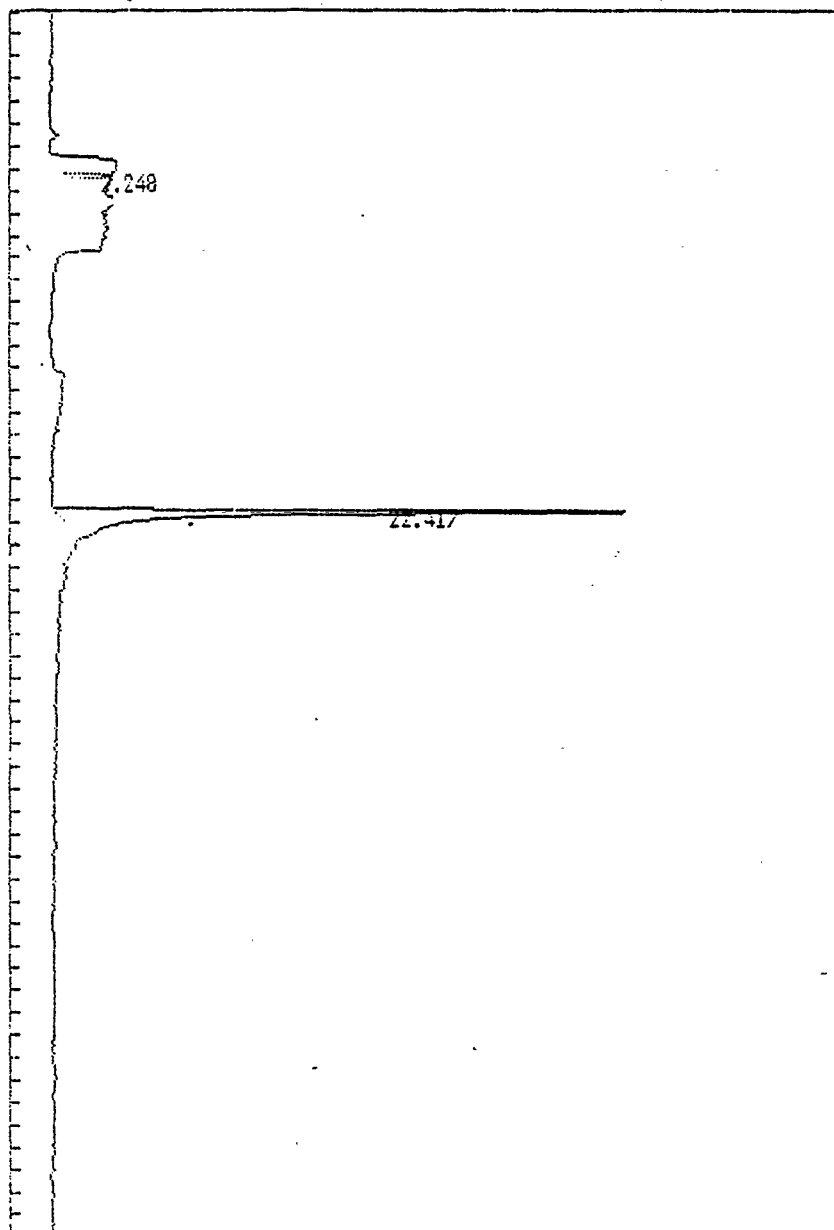
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 105M Rtx 502.2

RT	Area	Peak ID	AMOUNT
7.25		1020 CHLOROMETHANE	2.305E+00
22.42		18933 CHLOROFORM	2.034E+00

Sample Name : ULI# 40758, FLD# CE818
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010391MVOA_007.RES
Run Time : 55.00Minutes
Injected on : 0623 03Jan1991
Report Time : 1710-13Jan1991
Method : /METHOD/VOA_M.MTH
Addn. Data :
Amount Inj. :



100085

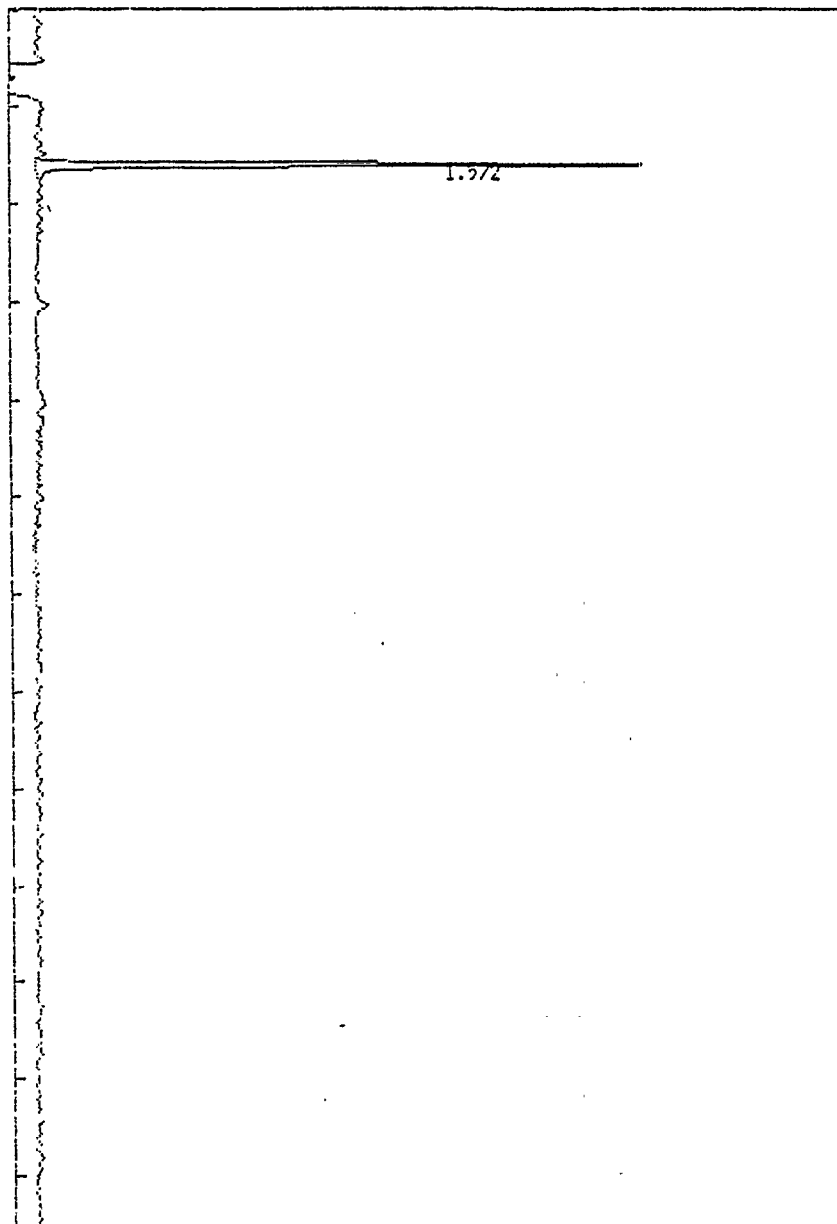
AR302100

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

VOLATILE ANALYSIS - PID
30M Rtx-1 MEGA BORE, 6 MIN @ 35C > 10 C/MIN > 100.

RT	Area	Peak ID	UG/L
1.57	6259	*SS* FLUOROBENZENE	1.956E+01

Sample Name : ULI# 40758, FLD# CEB18
Instrument : THIRTEEN
Result File : /INSTRUMENT/THIRTEEN/8010291NUOAW_015.RES
Run Time : 12.52 Minutes
Injected on : 2231 02Jan1991
Report Time : 1124 08Jan1991
Method : /METHOD/VOA_NW.MTH
Addn. Data :
Amount Inj. :



100061

AR302101

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB19

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40759
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

AR302102

100062

ULI APPLIED CHROMATOGRAPHY LAB

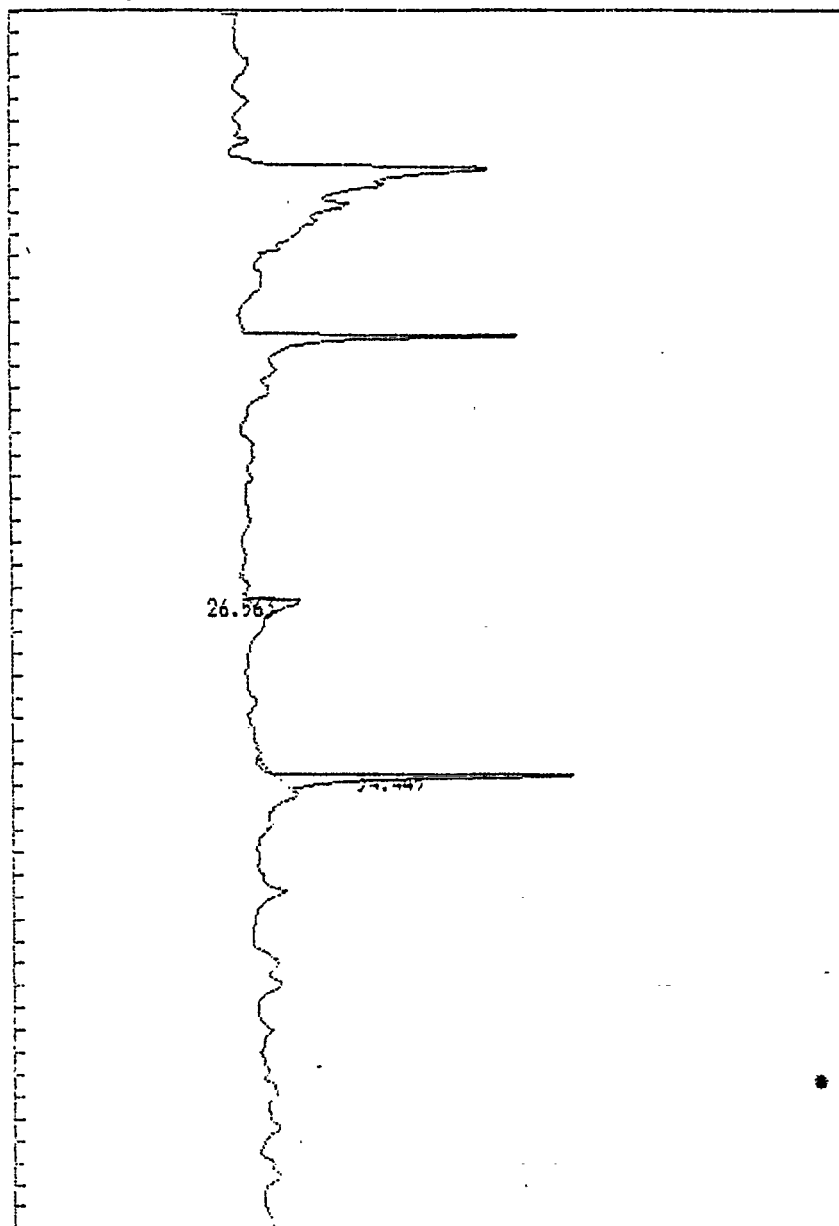
RAW DATA REPORT

VOLATILE ANALYSIS; 0-i 4420 ELED
COLUMN: 105M Rtx-1

RT	Area	Peak ID	AMOUNT
26.56		492 TRICHLOROETHENE	6.54E-01
34.44		1395 TETRACHLOROETHENE	1.00E-00

Sample Name : ULI# 40759, FLC# CEB19
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VOA_008.RES
Run Time : 55.00Minutes
Injected on : 0726 03Jan1991
Report Time : 1813-13Jan1991
Method : /METHOD/VOA_M2.MTH
Addn. Data :
Amount Inj. :

*Calculation of
Tetrachloroethene
from low structural
yields concentration
< 1.0 ug/l.
b/f*



100085

AR302103

ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

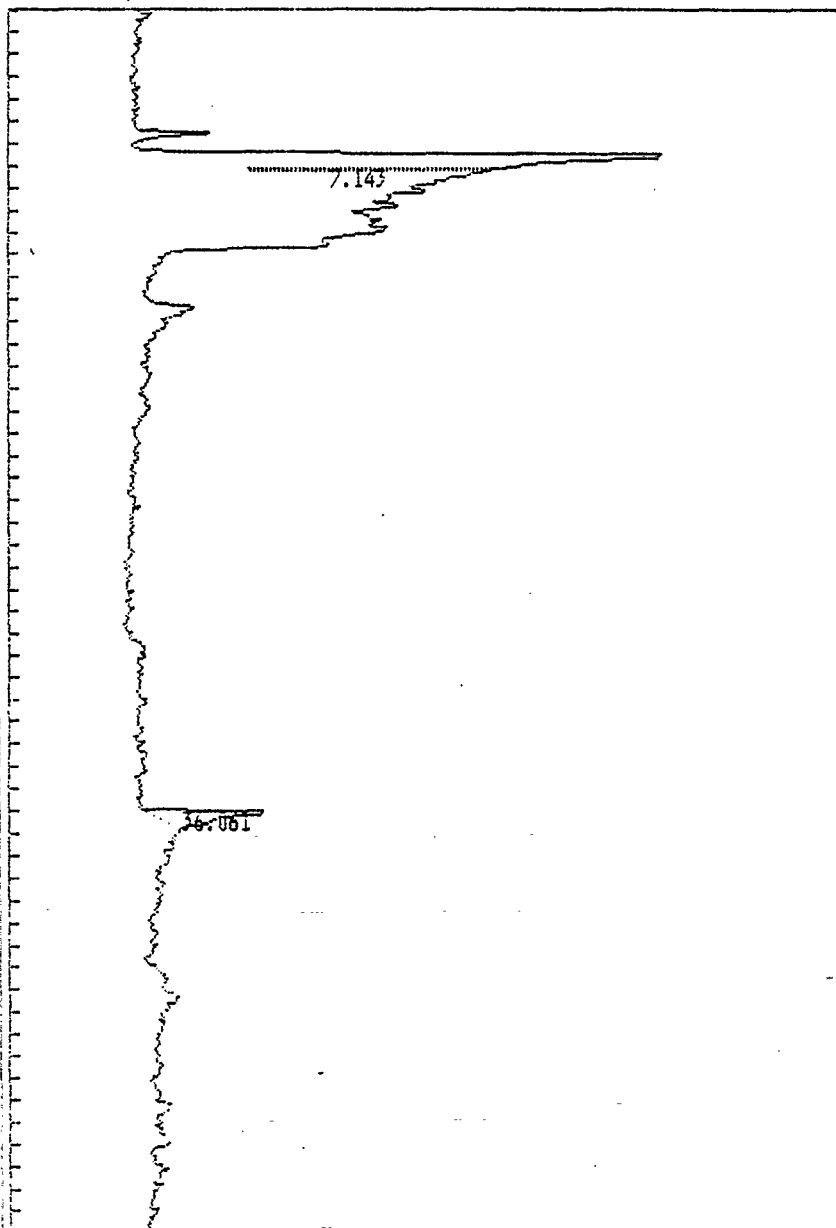
COLATILES ANALYSIS; TRACOR 1000 HALL

COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40759, FLD# CES19
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010391MVOA_008.RES
Run Time : 55.00Minutes
Injected on : 0726 03Jan1991
Report Time : 1712-13Jan1991
Method : /METHOD/VOA_M.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
7.14		719 CHLOROMETHANE	2.203E+00
36.86		1179 TETRACHLOROETHENE	1.185E+00

*calculation of
tetrachloroethene from
low standard yields
concentration
< 1.0 ug/l.
uj*



100084

AR302104

ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILE ANALYSIS - PID

30M Rtx-1 MEGA80RE, 6 MIN @ 35C > 10 C/MIN > 100.

RT	Area	Peak ID	UG/L
1.57	5745	*SS* FLUOROBENZENE	1.796E+01
3.00	576	TOLUENE	1.148E+01

Sample Name : ULI# 40759, FLD# CEB19

Instrument : THIRTEEN

Result File : /INSTRUMENT/THIRTEEN/8010291NVOAW_01a.RES

Run Time : 12.50Minutes

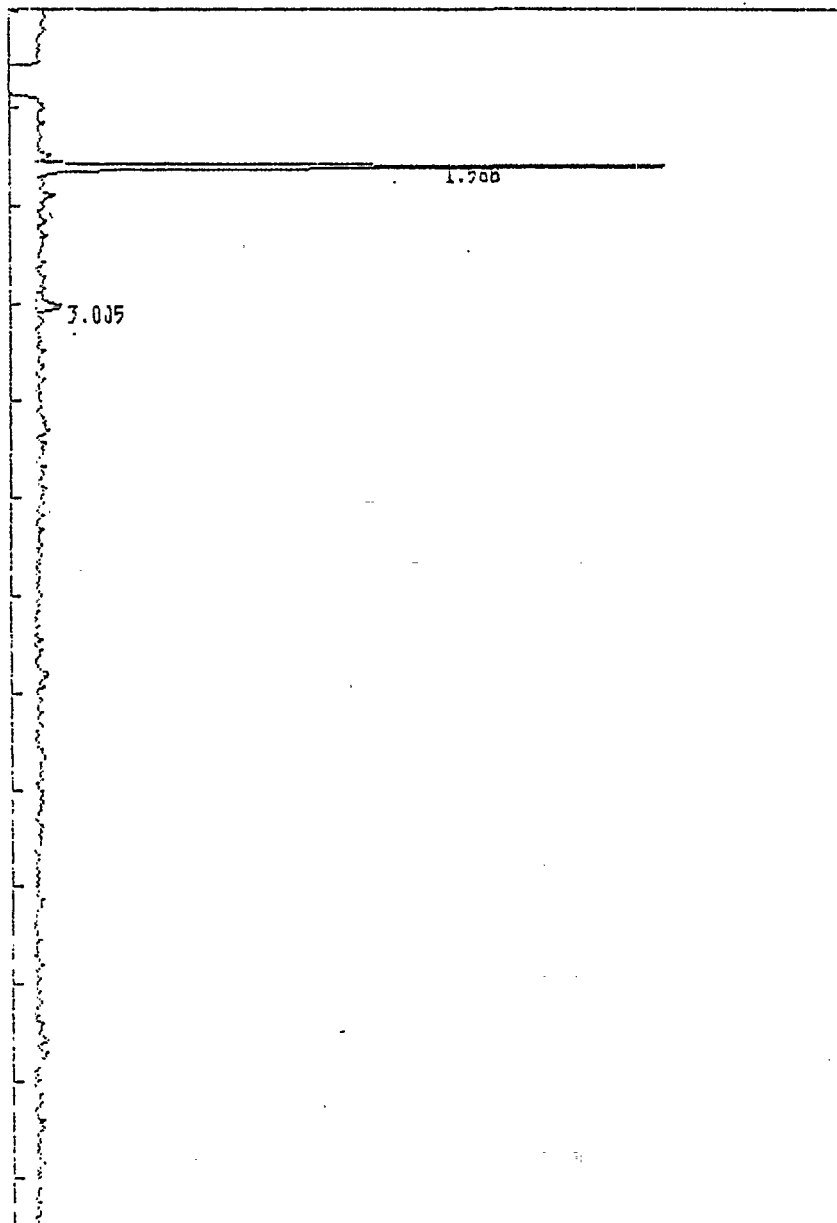
Injected on : 2301 02Jan1991

Report Time : 1127 08Jan1991

Method : /METHOD/VOA_NW.MTH

Addn. Data :

Amount Inj. :



100085

AR302105

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB20 D

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40760
Sample Matrix: Water
Dilution Factor: 5
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	5.0 u
74-87-3	Chloromethane	5.0 u
74-83-9	Bromomethane	5.0 u
75-01-4	Vinyl Chloride	27
75-00-3	Chloroethane	5.0 u
75-09-2	Methylene Chloride	5.0 u
75-35-4	1,1-Dichloroethene	5.0 u
75-34-3	1,1-Dichloroethane	5.0 u
156-60-5	Trans-1,2-Dichloroethene	5.0 u
67-66-3	Chloroform	5.0 u
107-06-2	1,2-Dichloroethane	5.0 u
75-89-4	Trichlorofluoromethane	5.0 u
71-55-6	1,1,1-Trichloroethane	5.0 u
56-23-5	Carbon Tetrachloride	5.0 u
75-27-4	Bromodichloromethane	5.0 u
78-87-5	1,2-Dichloropropane	5.0 u
10061-02-6	Trans-1,3-Dichloropropene	5.0 u
79-01-6	Trichloroethene	340

CAS Number		ug/l
124-48-1	Dibromochloromethane	5.0 u
79-00-5	1,1,2-Trichloroethane	5.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	5.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	5.0 u
127-18-4	Tetrachloroethene	55
79-34-5	1,1,2,2-Tetrachloroethane	5.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	42
541-73-1	1,3-Dichlorobenzene	5.0 u
106-46-7	1,4-Dichlorobenzene	11
	Total Xylenes	1.0 u

Data Reporting Qualifiers

- Value If the result is a value greater than or equal to the detection limit, report the value.
- u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.
- ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.
- C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

- B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.
- NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form 1

100083

AR302106

ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILE ANALYSIS: 0-1 4420 ELCD

COLUMN: 105M Rtx-1

Sample Name : ULI# 40760, FLD# CE920, 1/5 DIL.

Instrument : TWO

Result File : /INSTRUMENT/TWO/A010391M2VOA_016.RES

Run Time : 53.00Minutes

Injected on : 1537 03Jan1991

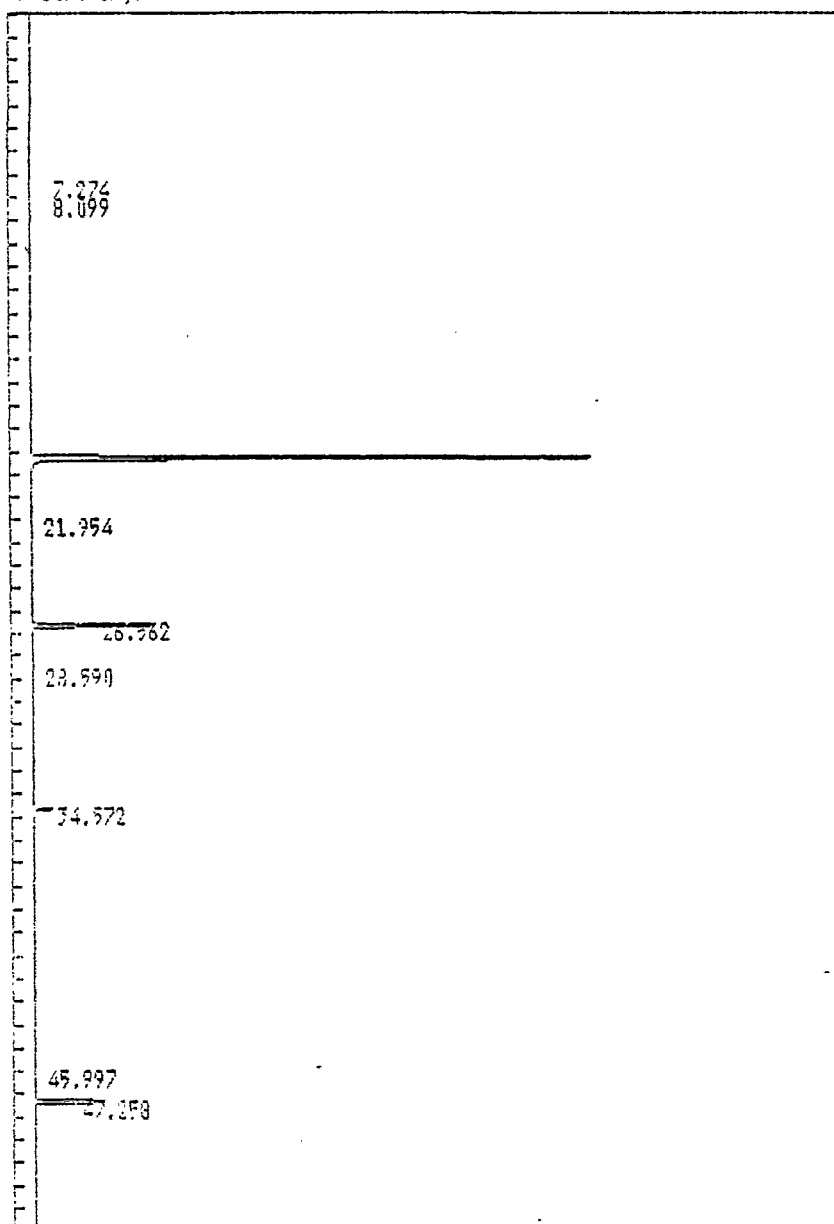
Report Time : 1826 13Jan1991

Method : /METHOD/VOA_M2.MTH

Addn. Data :

Amount Inj. :

RT	Area	Peak ID	AMOUNT
7.27	775	CHLOROMETHANE	7.41E+00
8.10	6652	VINYL CHLORIDE	2.739E+01
21.95	1954	1,2-DICHLOROETHANE	4.67E+00
26.56	260338	TRICHLOROETHENE	3.384E+02
28.59	357	CIS-1,3-DICHLOROPR	3.61E+00
34.57	42233	TETRACHLOROETHENE	5.534E+01
46.00	5121	1,4-DICHLOROBENZEN	1.064E+01
47.26	176894	1,2-DICHLOROBENZEN	4.175E+02



100087

AR302107

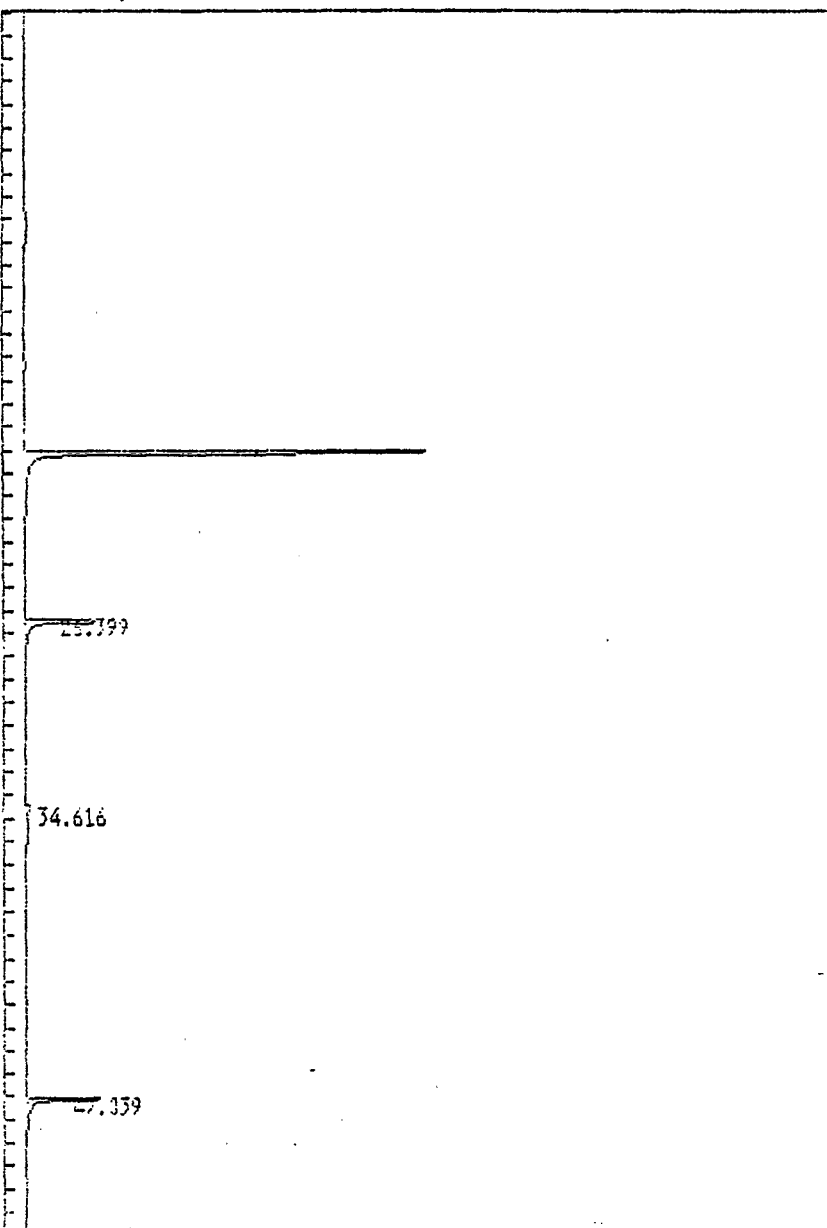
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILE ANALYSIS; 0-1 4420 ELCD
COLUMN: 105M Rtx-1

RT	Area	Peak ID	AMOUNT
26.40	11413	TRICHLOROETHENE	3.246E+02
34.62	800	TETRACHLOROETHENE	8.952E+01
47.04	6650	1,2-DICHLOROBENZEN	3.171E+02

Sample Name : ULI# 40760, FLD# CEB20, 1/100 DIL.
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VQA_012.RES
Run Time : 53.00Minutes
Injected on : 1132 03Jan1991
Report Time : 1820 13Jan1991
Method : /METHOD/VQA_M2.MTH
Addn. Data :
Amount Inj. :



100083

AR302108

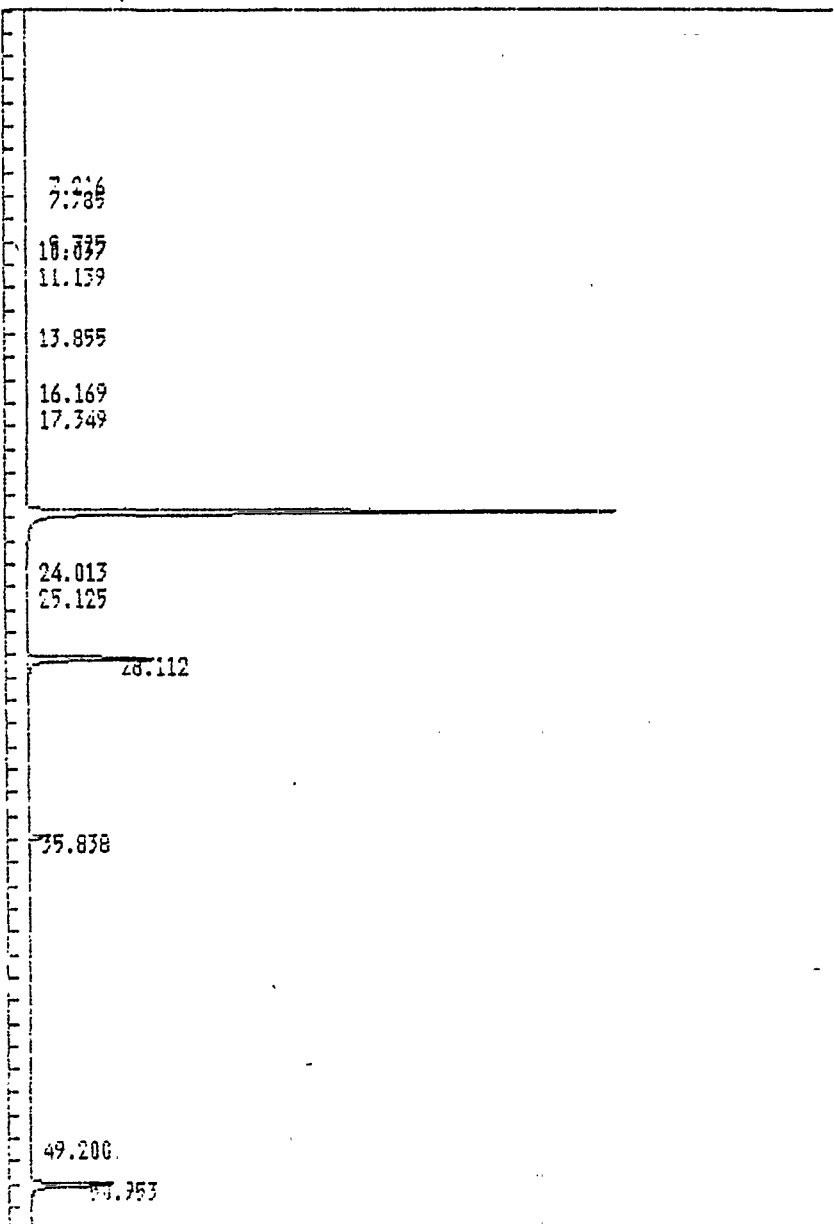
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

COVOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 135M Rtx 502.2

Sample Name : ULI# 40760, FLD# CEB20, 1/5 DIL.
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010391MVOA_016.RES
Run Time : 53.00Minutes
Injected on : 1537 03Jan1991
Report Time : 1726-13Jan1991
Method : /METHOD/VOA_M.MTH
Addn. Data :
Amount Inj. :

RT	Area	Peak ID	AMOUNT
7.22	395	CHLOROMETHANE	1.048E+01
7.79	7264	VINYL CHLORIDE	1.093E+01
9.73	812	BROMOMETHANE	3.2E+01
10.04	924	CHLOROETHANE	4.927E+01
11.14	2371	TRICHLOROFLUOROMETHANE	5.519E+00
13.86	4699	1,1-DICHLOROETHENE	8.717E+00
16.17	1729	METHYLENE CHLORIDE	3.222E+00
17.35	6123	TRANS-1,2-DICHLOROETHENE	6.771E+00
24.01	26044	1,1,1-TRICHLOROETHANE	1.592E+01
25.12	11813	CARBON TETRACHLORIDE	2.225E+00
28.11	871116	TRICHLOROETHENE	4.116E+02
35.84	136652	TETRACHLOROETHENE	6.041E+01
49.20	10751	1,4-DICHLOROBENZENE	1.137E+01
50.95	570965	1,2-DICHLOROBENZENE	3.958E+02



100083

AR302109

ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILES ANALYSIS; TRACOR 1000 HALL

COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40760, FLC# CEB20, 1/100 DIL.

Instrument : ELEVEN

Result File : /INSTRUMENT/ELEVEN/A010391MCA_012.RES

Run Time : 53.00Minutes

Injected on : 1132 03Jan1991

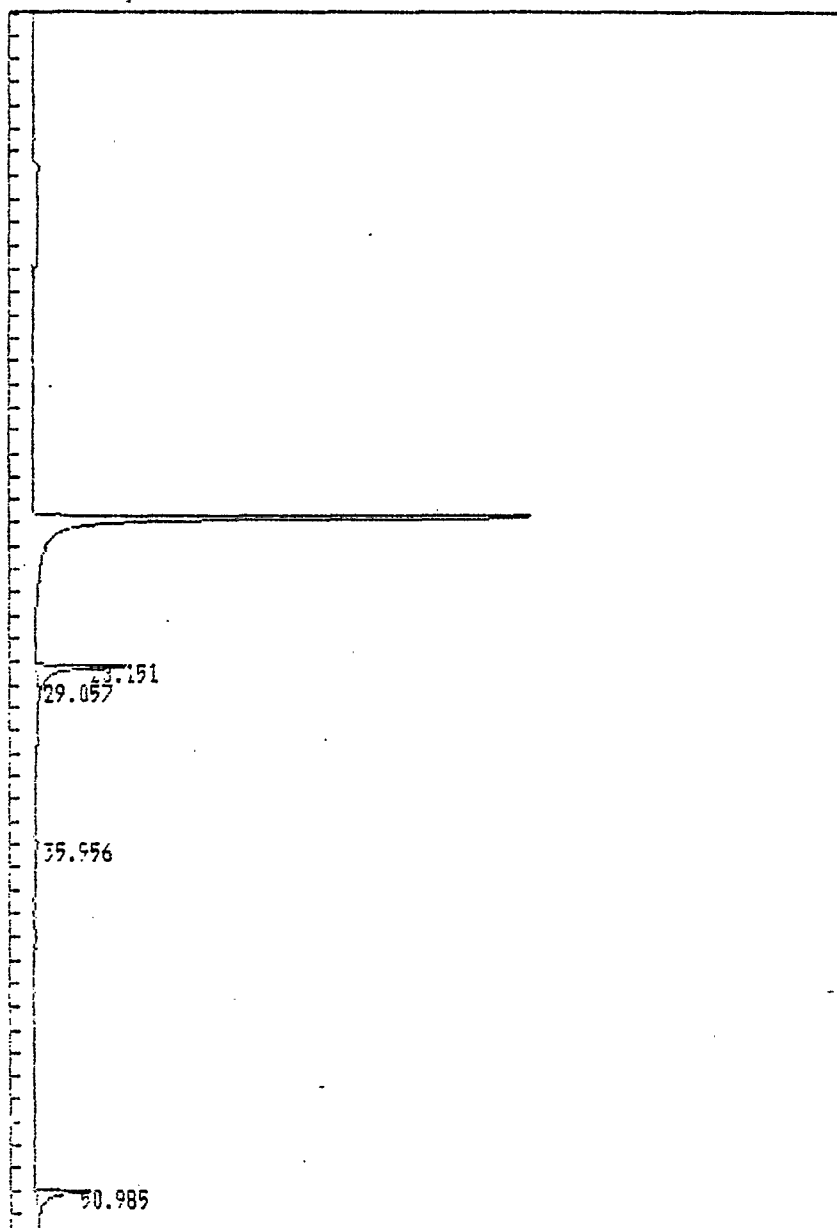
Report Time : 1718 13Jan1991

Method : /METHOD/MCA_1.MTH

Addn. Data :

Amount [nj] :

RT	Area	Peak ID	AMOUNT
28.15	21216	TRICHLOROETHENE	2.815E+02
29.06	246	1,2-DICHLOROPROPAN	3.448E+01
35.96	282	TETRACHLOROETHENE	1.114E+02
50.98	12507	1,2-DICHLOROBENZEN	2.953E+02



100075

AR302110

ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILE ANALYSIS - PID

30M Rtx-1 MEGA80RE, 6 MIN @35C > 10 C/MIN > 100.

Sample Name : ULI# 40760, FLD# CEB20

Instrument : THIRTEEN

Result File : /INSTRUMENT/THIRTEEN/B010291NVOAW_017.RES

Run Time : 12.50Minutes

Injected on : 2332 02Jan1991

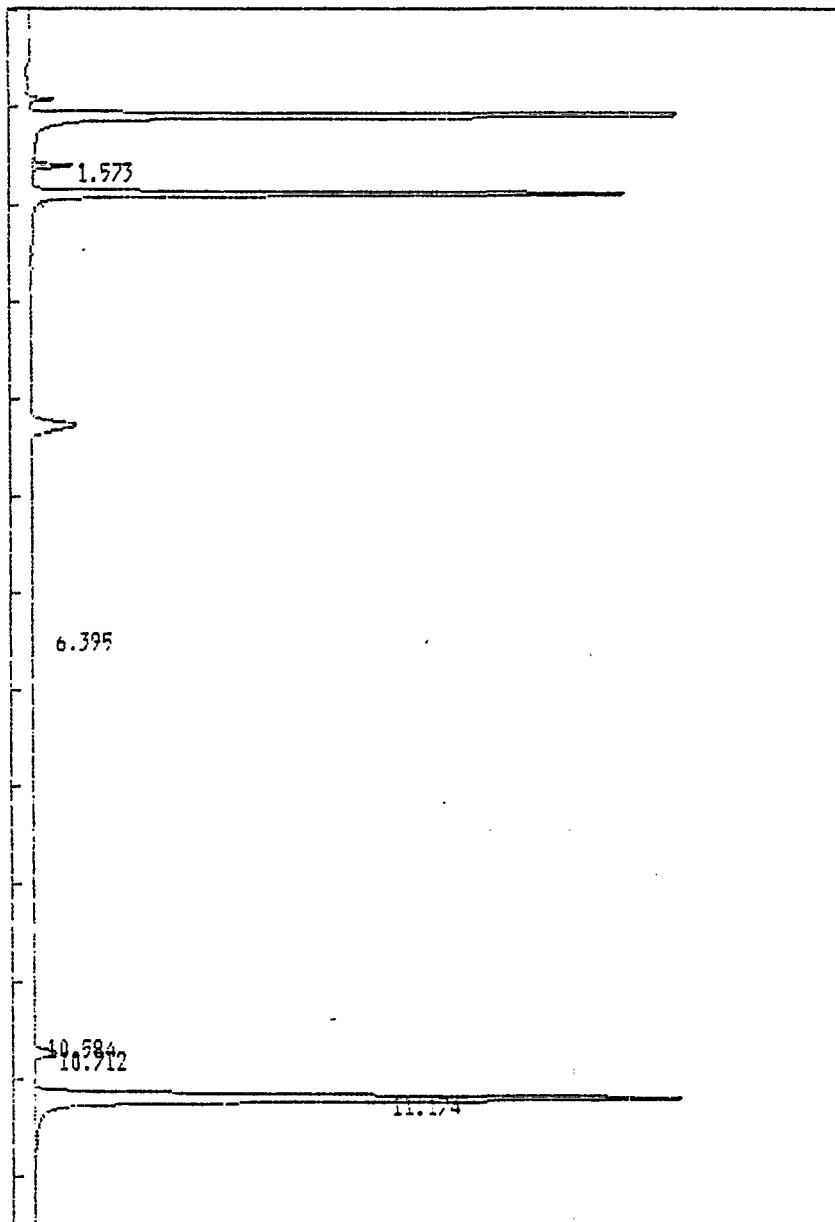
Report Time : 1129 08Jan1991

Method : /METHOD/VOA_NW.MTH

Addn. Data :

Amount Inj. :

RT	Area	Peak ID	UG/L
1.57	5375	*SS* FLUOROBENZENE	1.680E+01
6.40	414	ETHYLBENZENE	9.68E+00
10.58	627	1,3-DICHLOROBENZENE	1.158E+00
10.71	6569	1,4-DICHLOROBENZENE	1.369E+01
11.17	182283	1,2-DICHLOROBENZENE	2.530E+02



100071

AR302111

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

VOLATILE ANALYSIS - PID

3M Rtx-1 MEGA80RE, 6 MIN @35C > 10 C/MIN > 100.

Sample Name : ULI# 40760, FLD# CEB20, 1/25

Instrument : THIRTEEN

Result File : /INSTRUMENT/THIRTEEN/8010291NUOAW_022.RES

Run Time : 12.50Minutes

Injected on : 0210 03Jan1991

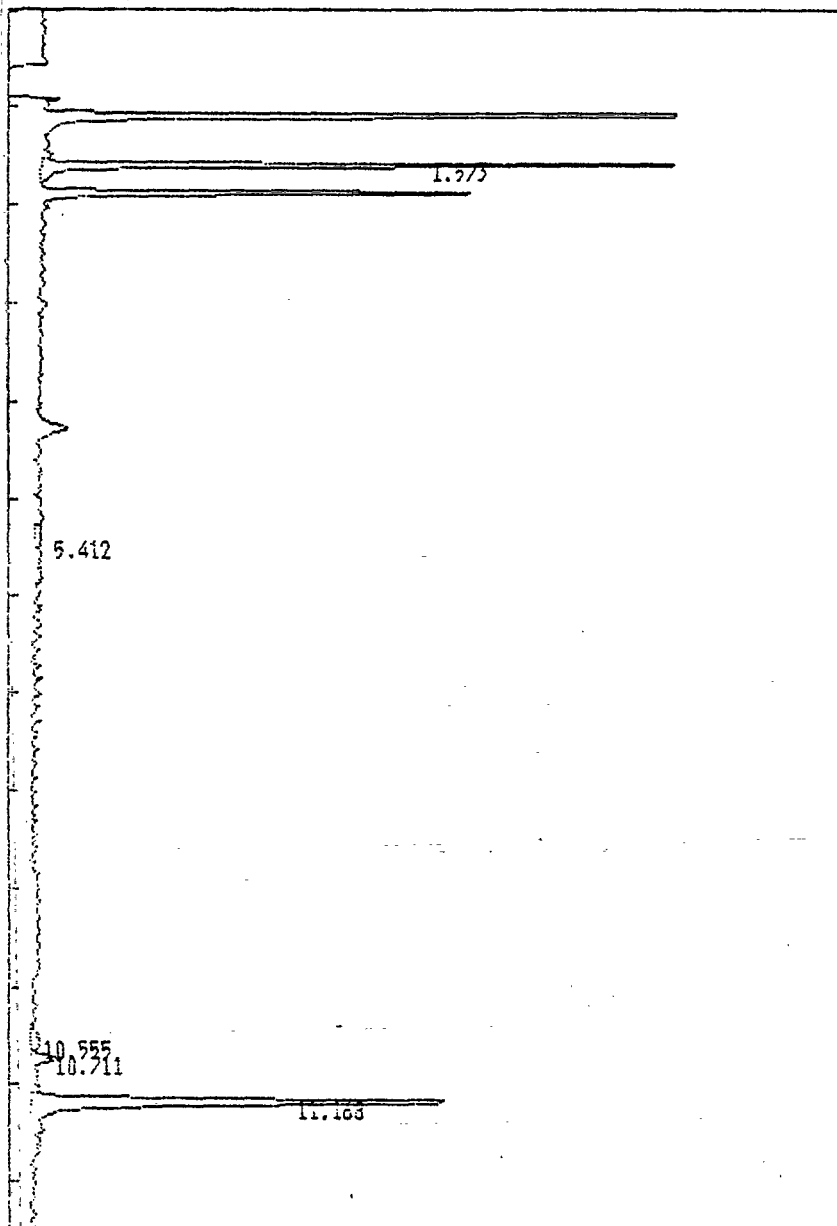
Report Time : 1138 08Jan1991

Method : /METHOD/VOA_NW.MTH

Addn. Data :

Amount Inj. :

RT	Area	Peak ID	UG/L
1.57	6234	*SS* FLUOROBENZENE	4.872E+02
5.41	324	CHLOROBENZENE	1.157E+01
10.56	384	1,3-DICHLOROBENZEN	1.410E+01
10.71	504	1,4-DICHLOROBENZEN	1.917E+01
11.17	7842	1,2-DICHLOROBENZEN	5.083E+02



100072
AR302112

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB21

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40761
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	12
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form 1

AR302113

100070

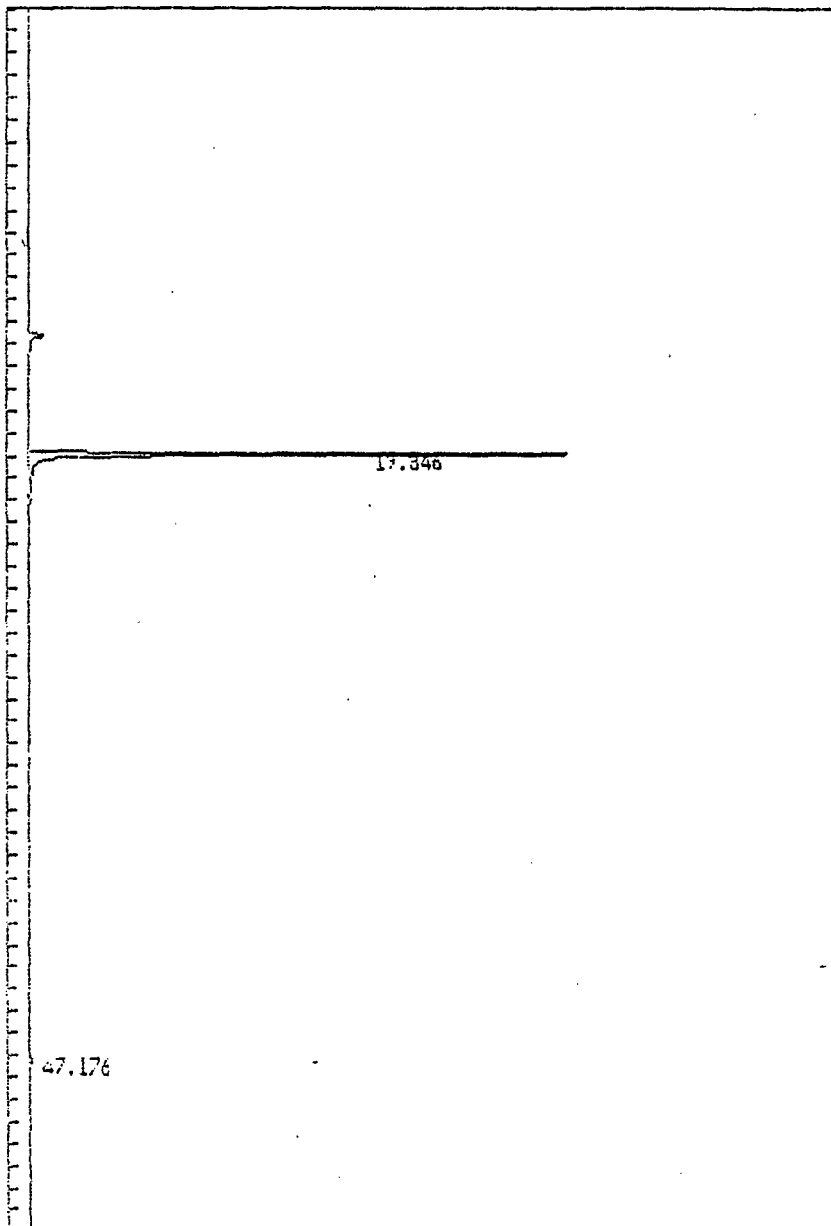
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILE ANALYSIS: G-I 4420 ELCD
COLUMN: 105M Rtx-1

RT	Area	Peak ID	AMOUNT
19.85	45204	CHLOROFORM	1.178E+01
47.18	291	1,2-DICHLOROBENZEN	4.138E-01

Sample Name : ULI# 40761, FLD# CEB21
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VCA_009.RES
Run Time : 55.00Minutes
Injected on : 0828 03Jan1991
Report Time : 1815 13Jan1991
Method : /METHOD/VCA_M2.MTH
Addn. Data :
Amount Inj. :



100074

AR302114

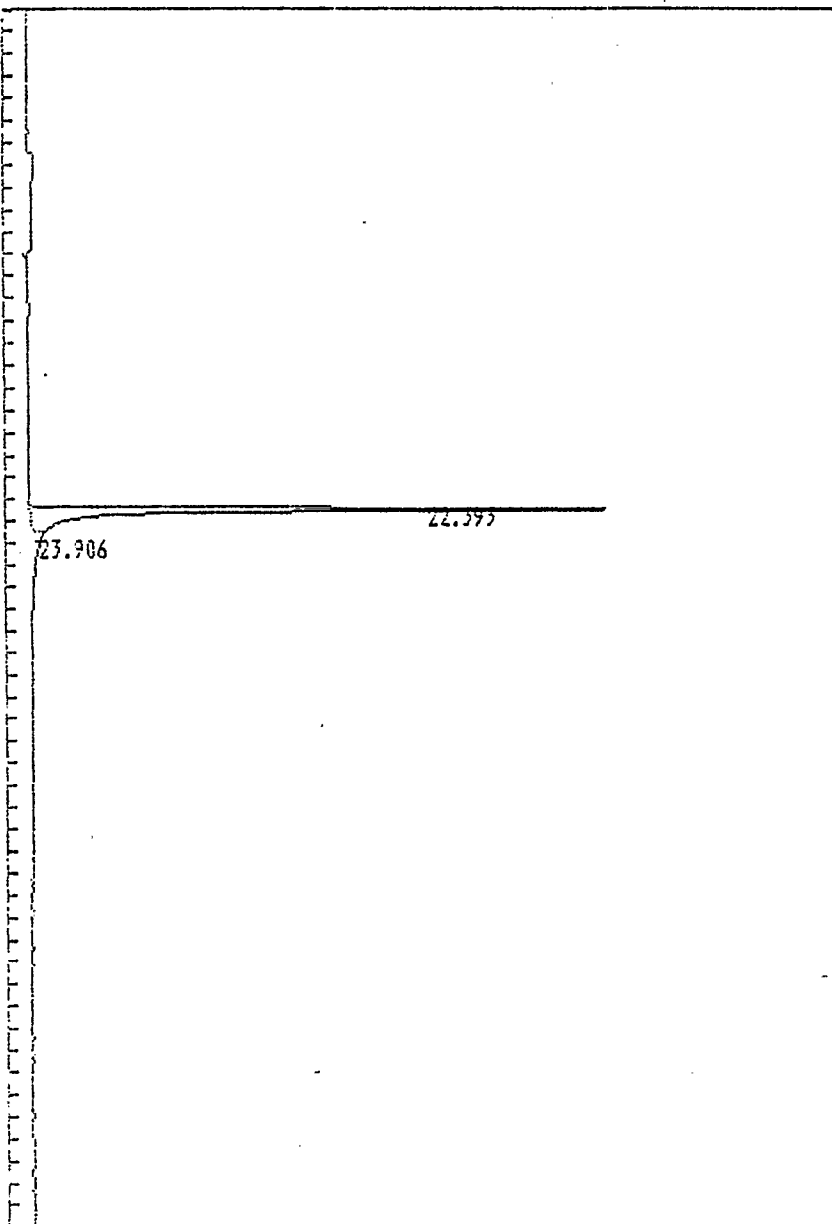
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 105M Rtx 502.2

RT	Area	Peak ID	AMOUNT
22.39	105401	CHLOROFORM	9.216E+00
23.91	710	1,1,1-TRICHLOROETH	7.566E-01

Sample Name : ULI# 40761, FLD# CEB21
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010391MVOA_009.RES
Run Time : 55.00Minutes
Injected on : 0828 03Jan1991
Report Time : 1713 13Jan1991
Method : /METHOD/VOA_M.MTH
Addn. Data :
Amount Inj. :



100075

AR302115

ULI APPLIED CHROMATOGRAPHY LAB

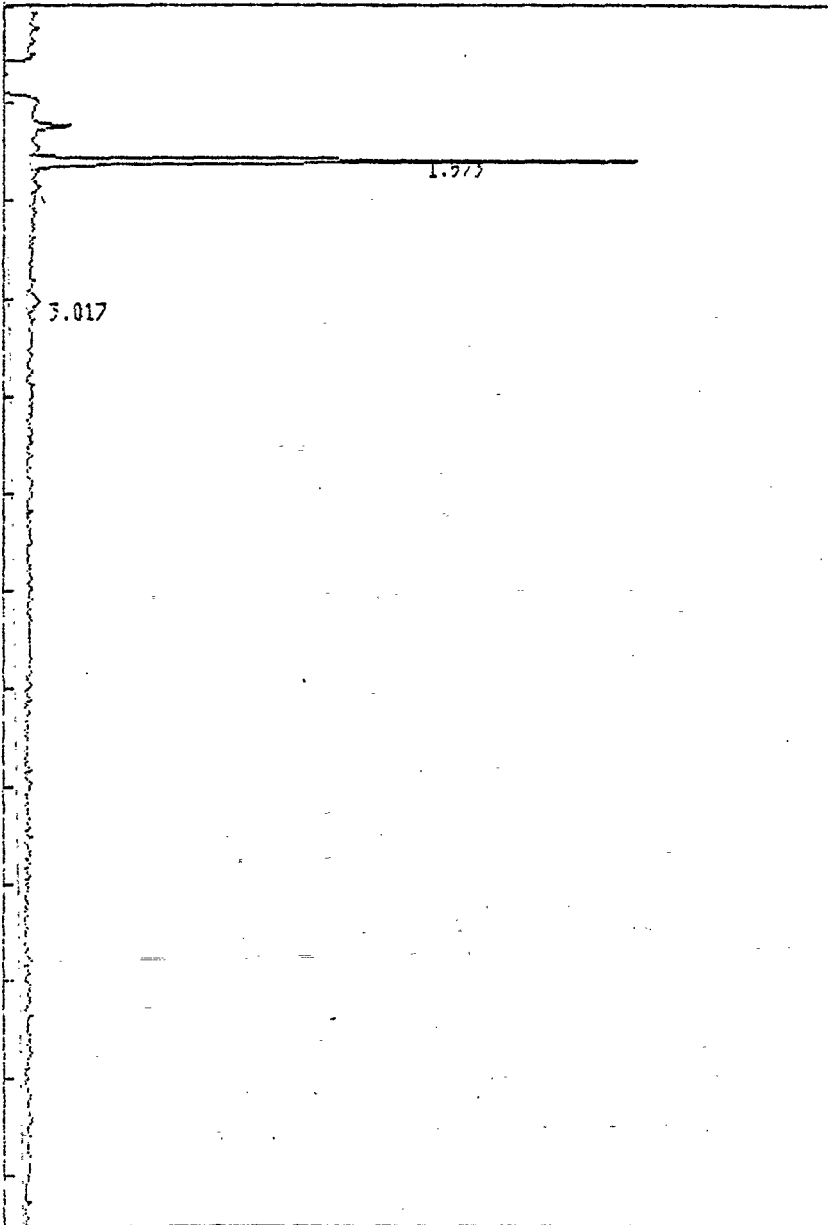
RAW DATA REPORT

VOLATILE ANALYSIS - PID

3JM Rtx-1 MEGABORE, 6 MIN @35C > 10 C/MIN > 100.

RT	Area	Peak ID	UG/L
1.57	5961	*SS* FLUOROBENZENE	1.863E+01
3.02	325	TOLUENE	5.352E-01

Sample Name : ULI# 40761, FLD# CEB21
 Instrument : THIRTEEN
 Result File : /INSTRUMENT/THIRTEEN/B010291NUQAW_019.RES
 Run Time : 12.52Minutes
 Injected on : 0044 03Jan1991
 Report Time : 1133 08Jan1991
 Method : /METHOD/UQA_NW.MTH
 Addn. Data :
 Amount Inj. :



100076

AR302116

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number

CEB22

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40762
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form I

AR302117

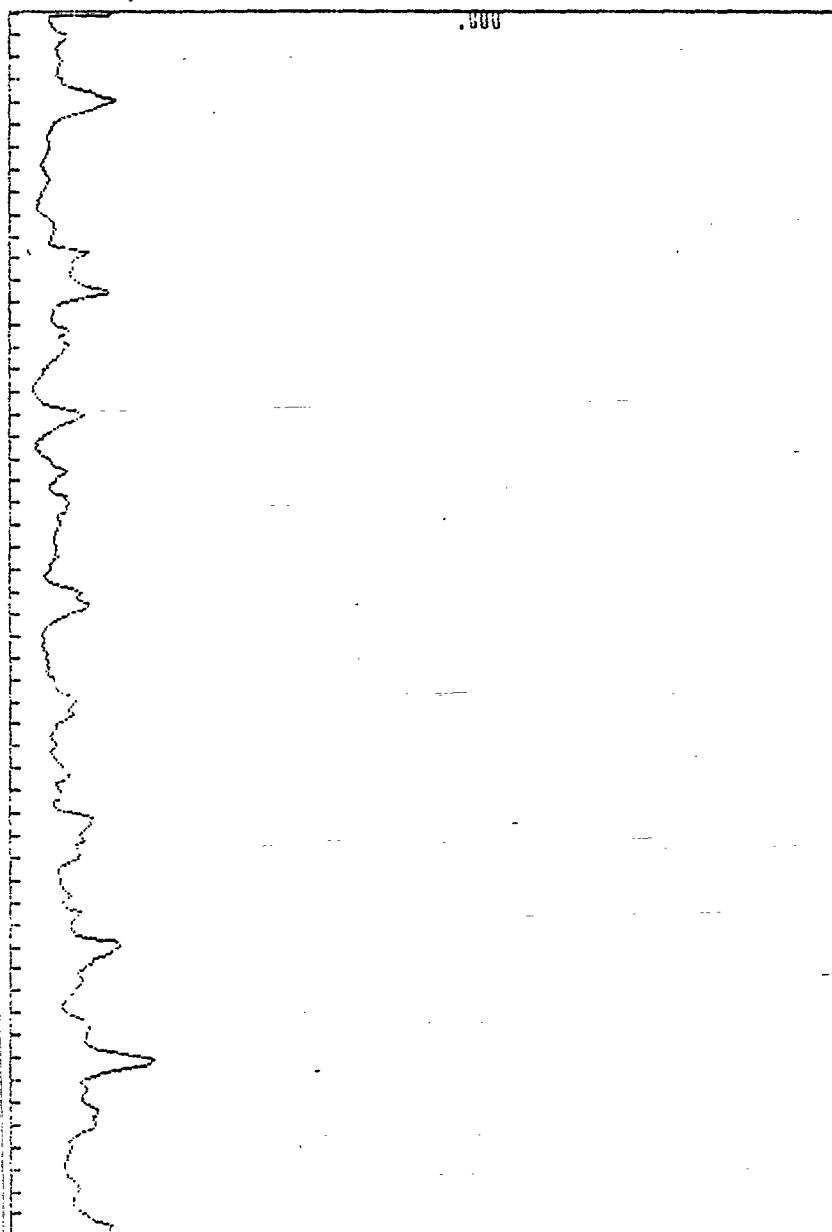
100077

RAW DATA REPORT

VOLATILE ANALYSIS; 0-I 4420 ELCD

COLUMN: 105M Rtx-1

Sample Name : ULI# 40762, FLD# CEB22
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VOA_010.RES
Run Time : 55.00Minutes
Injected on : 0931 03Jan1991
Report Time : 1816-13Jan1991
Method : /METHOD/VOA_M2.MTH
Addn. Data :
Amount Inj. :



100073

AR302118

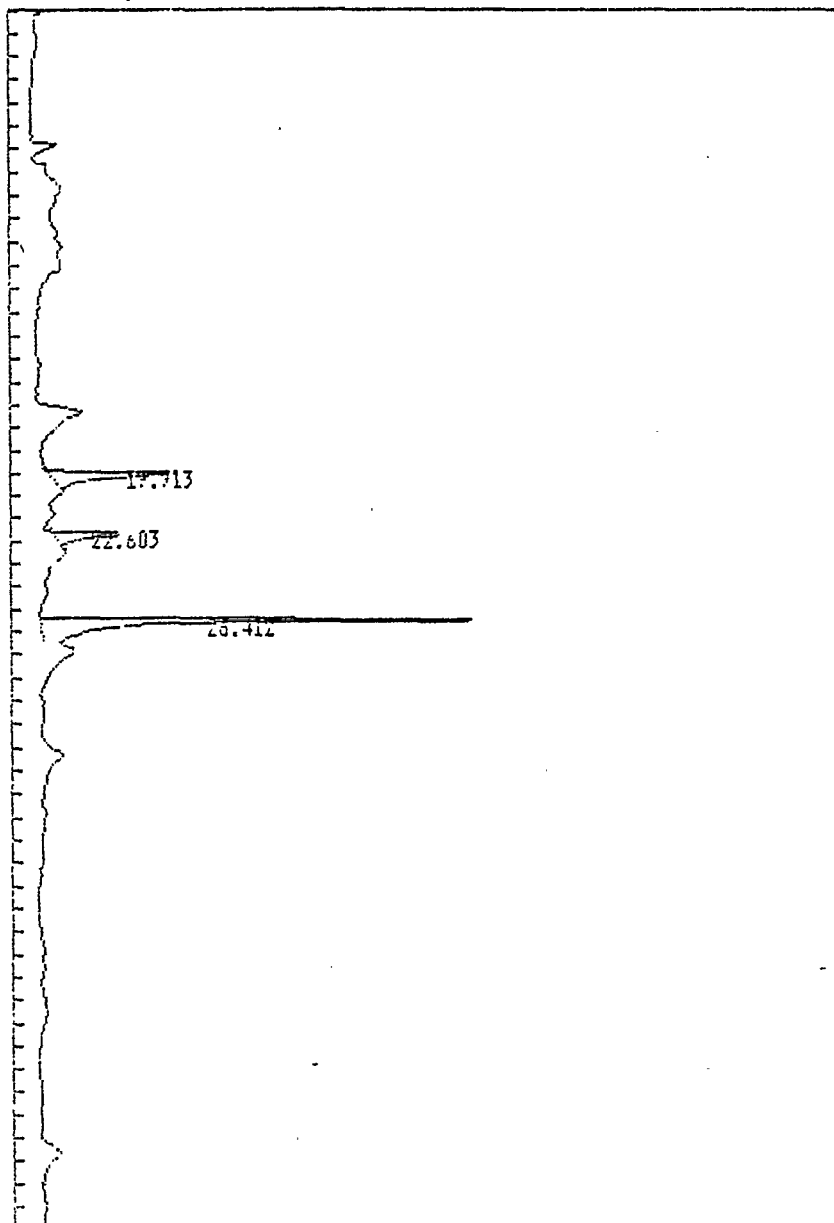
ULI APPLIED CHROMATOGRAPHY LAB

RAW DATA REPORT

VOLATILE ANALYSIS: 8-1 4420 ELCD
COLUMN: 105M Rtx-1

RT	Area	Peak ID	AMOUNT
19.91	1365	CHLOROFORM	7.491E-01
22.60	653	1,1,1-TRICHLOROETH	5.945E-01
26.41	3942	TRICHLOROETHENE	1.000E-00

Sample Name : ULI# 40762, FLD# CEB22, REINJECTION
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VOA_013.RES
Run Time : 53.00Minutes
Injected on : 1236 03Jan1991
Report Time : 1821-13Jan1991
Method : /METHOD/VOA_M2.MTH
Addn. Data :
Amount Inj. :



100073

AR302119

RAW DATA REPORT

VOLATILES ANALYSIS; TRACOR 1000 HALL

COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40762, FLD# CEB22

Instrument : ELEVEN

Result File : /INSTRUMENT/ELEVEN/A010391MVOA_010.RES

Run Time : 55.00Minutes

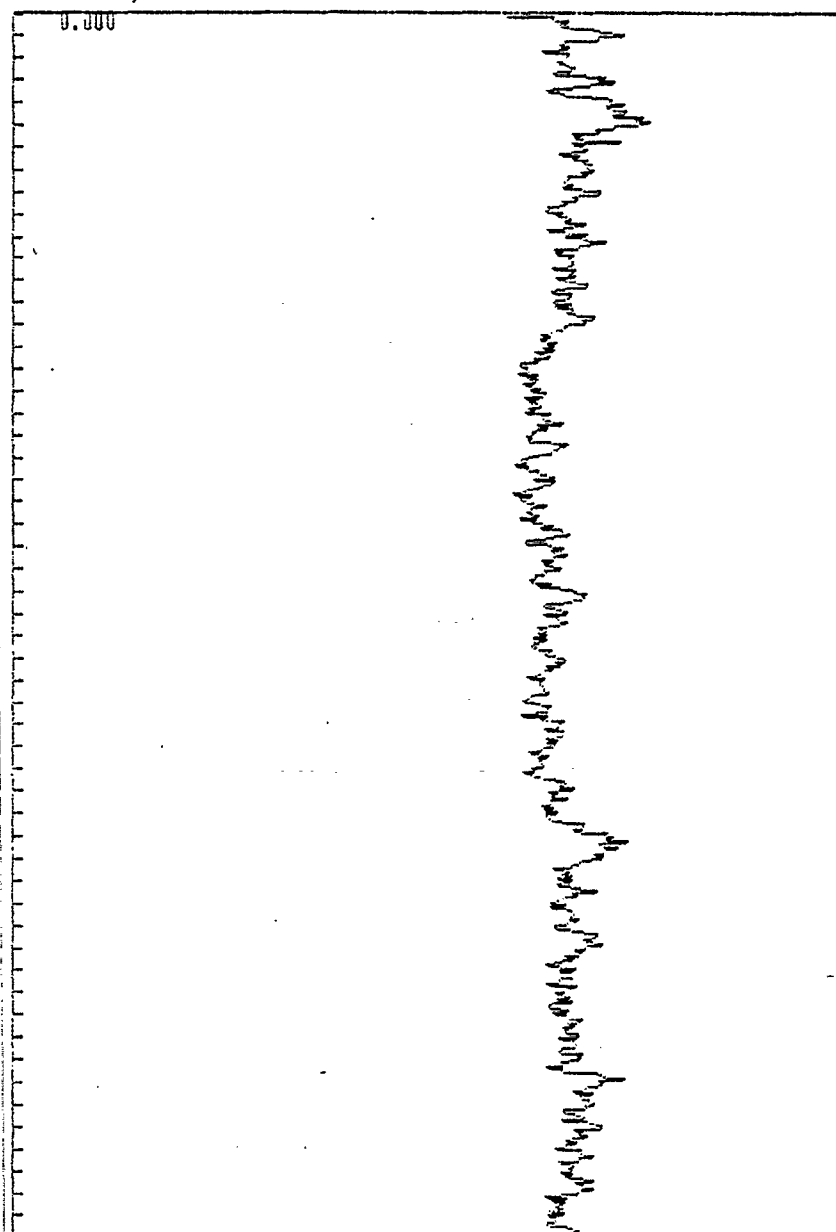
Injected on : 0931 03Jan1991

Report Time : 1715 13Jan1991

Method : /METHOD/VOA_M.MTH

Addn. Data :

Amount Inj. :



100085

AR302120

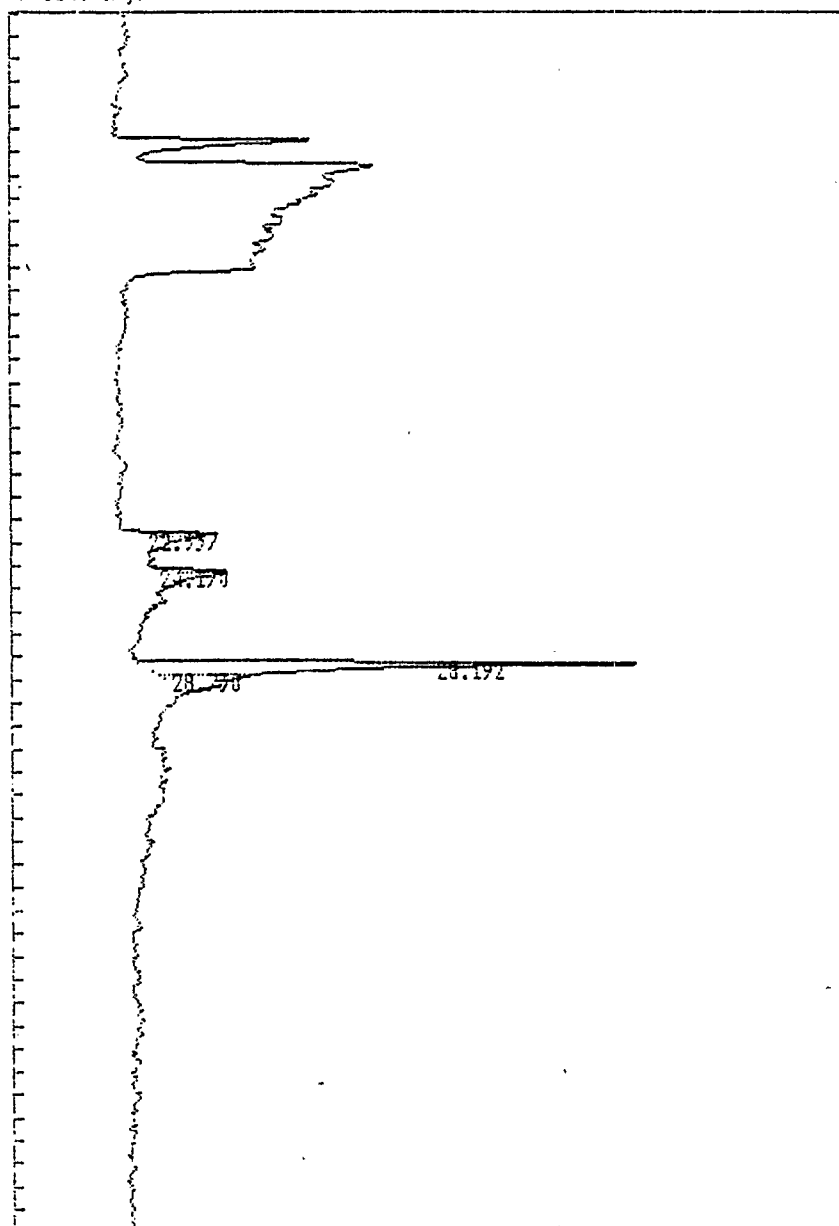
RAW DATA REPORT

VOLATILES ANALYSIS: TRACOR 1000 HALL

COLUMN: 105M Rtx 502.2

RT	Area	Peak ID	AMOUNT
22.54	359	CHLOROFORM	4.918E-01
24.17	285	1,1,1-TRICHLOROETH	7.190E-01
28.19	3882	TRICHLOROETHENE	1.246E+00
28.73	580	1,2-DICHLOROPROPAN	3.79E-01

Sample Name : ULI# 40762, FLD# CEB22, REINJECTION
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010391MVOA_013.RES
Run Time : 53.00Minutes
Injected on : 1236 03Jan1991
Report Time : 1720 13Jan1991
Method : /METHOD/VOA_M.MTH
Addn. Data :
Amount [n] :



100081

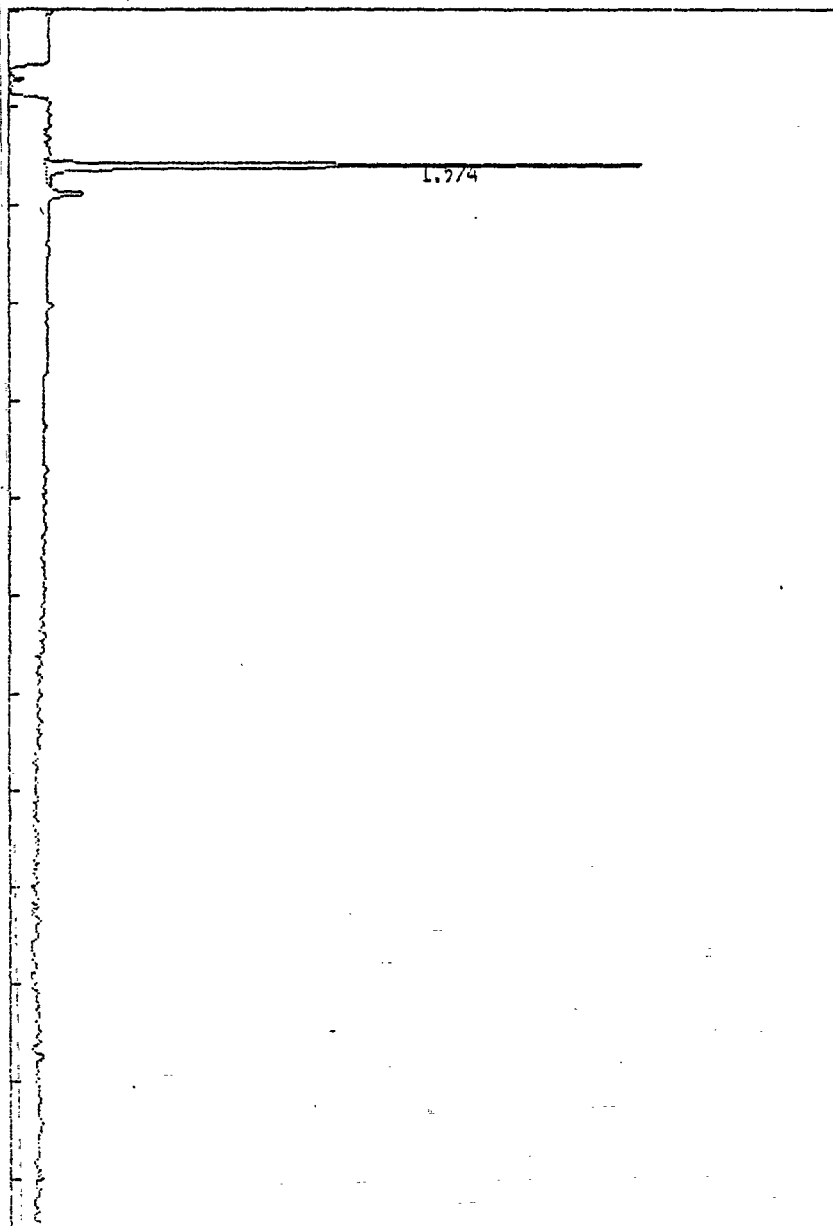
AR302121

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT	Area	Peak ID	UG/L
1.57	6375	*SS* FLUOROBENZENE	1.995E+01

VOLATILE ANALYSIS - PID
30M Rtx-1 MEGA80RE, 6 MIN @35C > 10 C/MIN > 100.

Sample Name : ULI# 40762, FLD# CEB22
Instrument : THIRTEEN
Result File : /INSTRUMENT/THIRTEEN/B010291NVOAW_020.RES
Run Time : 12.52Minutes
Injected on : 0113 03Jan1991
Report Time : 1135 08Jan1991
Method : /METHOD/VOA_NW.MTH
Addn. Data :
Amount Inj. :



100082

AR302122

Versar Laboratories, Inc.
6850 Versar Center, Springfield VA 22151

ORGANICS ANALYSIS DATA SHEET
METHOD 601/602 COMPOUNDS

Sample Number
CEB23

Laboratory Name: VERSAR LABORATORIES, Inc.
Lab Sample ID No: 40763
Sample Matrix: Water
Dilution Factor: 1
Data Release Authorized By: _____

Case No: 15465SAS
SDG No: CEB10
Date Sample Received: 12/21/90
Date Extracted/Prepared: 01/03/91
Date Analyzed: 01/03/91

CAS Number		ug/l
75-71-8	Dichlorodifluoromethane	1.0 u
74-87-3	Chloromethane	1.0 u
74-83-9	Bromomethane	1.0 u
75-01-4	Vinyl Chloride	1.0 u
75-00-3	Chloroethane	1.0 u
75-09-2	Methylene Chloride	1.0 u
75-35-4	1,1-Dichloroethene	1.0 u
75-34-3	1,1-Dichloroethane	1.0 u
156-60-5	Trans-1,2-Dichloroethene	1.0 u
67-66-3	Chloroform	1.0 u
107-06-2	1,2-Dichloroethane	1.0 u
75-89-4	Trichlorofluoromethane	1.0 u
71-55-6	1,1,1-Trichloroethane	1.0 u
56-23-5	Carbon Tetrachloride	1.0 u
75-27-4	Bromodichloromethane	1.0 u
78-87-5	1,2-Dichloropropane	1.0 u
10061-02-6	Trans-1,3-Dichloropropene	1.0 u
79-01-6	Trichloroethene	1.0 u

CAS Number		ug/l
124-48-1	Dibromochloromethane	1.0 u
79-00-5	1,1,2-Trichloroethane	1.0 u
71-43-2	Benzene	1.0 u
10061-01-5	cis-1,3-Dichloropropene	1.0 u
110-75-8	2-Chloroethylvinylether	NR
75-25-2	Bromoform	1.0 u
127-18-4	Tetrachloroethene	1.0 u
79-34-5	1,1,2,2-Tetrachloroethane	1.0 u
108-88-3	Toluene	1.0 u
108-90-7	Chlorobenzene	1.0 u
100-41-4	Ethylbenzene	1.0 u
95-50-1	1,2-Dichlorobenzene	1.0 u
541-73-1	1,3-Dichlorobenzene	1.0 u
106-46-7	1,4-Dichlorobenzene	1.0 u
	Total Xylenes	1.0 u

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

u Compound was analyzed for but not detected. The number is the minimum attainable/requested detection limit for the sample.

ND Compound was analyzed for but not detected. The detection limit not determined for method 601/602.

C This flag applies to volatile compounds where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where the concentration falls below the detection limit for the sample.

NR Compound was not requested for analysis.

601/2F1: VLIR011491

Form 1

AR302123

100083

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT

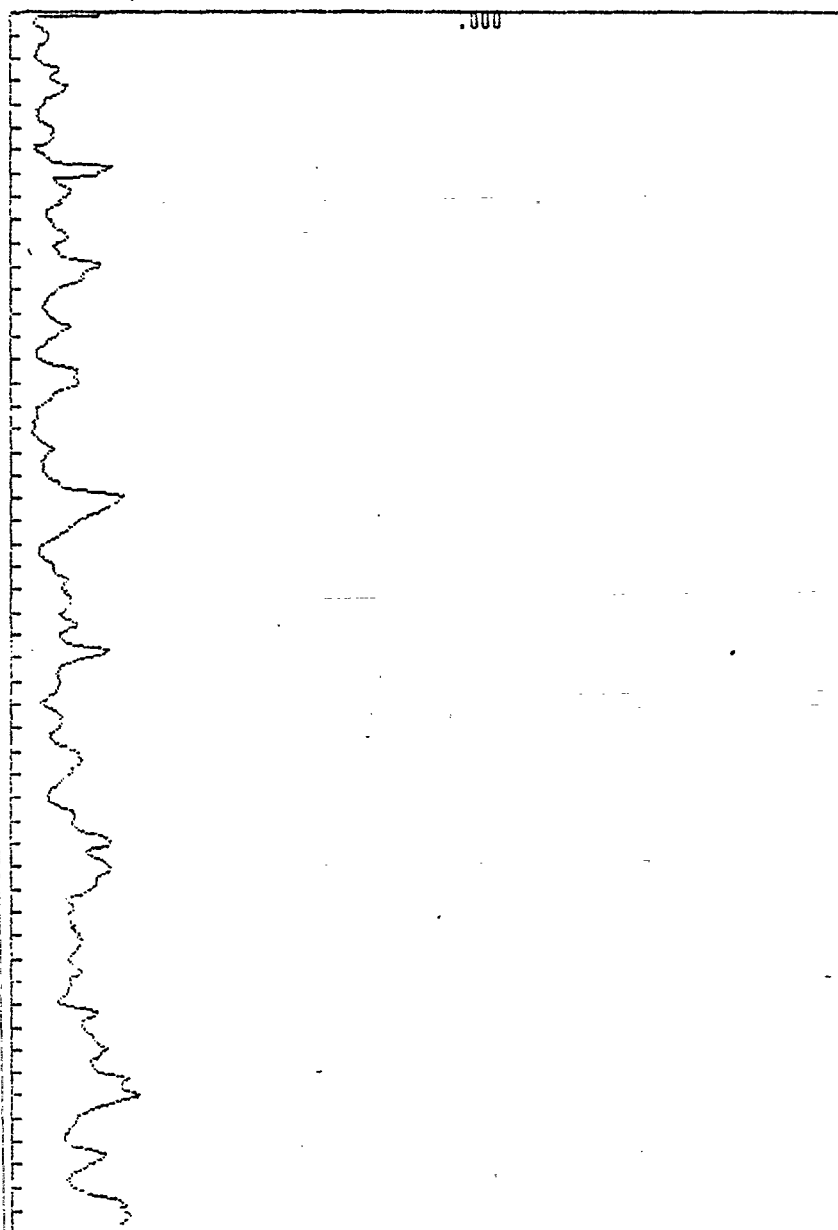
Area

Peak ID

AMOUNT

VOLATILE ANALYSIS; 0-I 4420 ELCD
COLUMN: 105M Rtx-1

Sample Name : ULI# 40763, FLD# CEB23
Instrument : TWO
Result File : /INSTRUMENT/TWO/A010391M2VQA_011.RES
Run Time : 53.00Minutes
Injected on : 1032 03Jan1991
Report Time : 1818 -13Jan1991
Method : /METHOD/VQA_M2.MTH
Addn. Data :
Amount Inj. :



AR302124

100081

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT
0.00

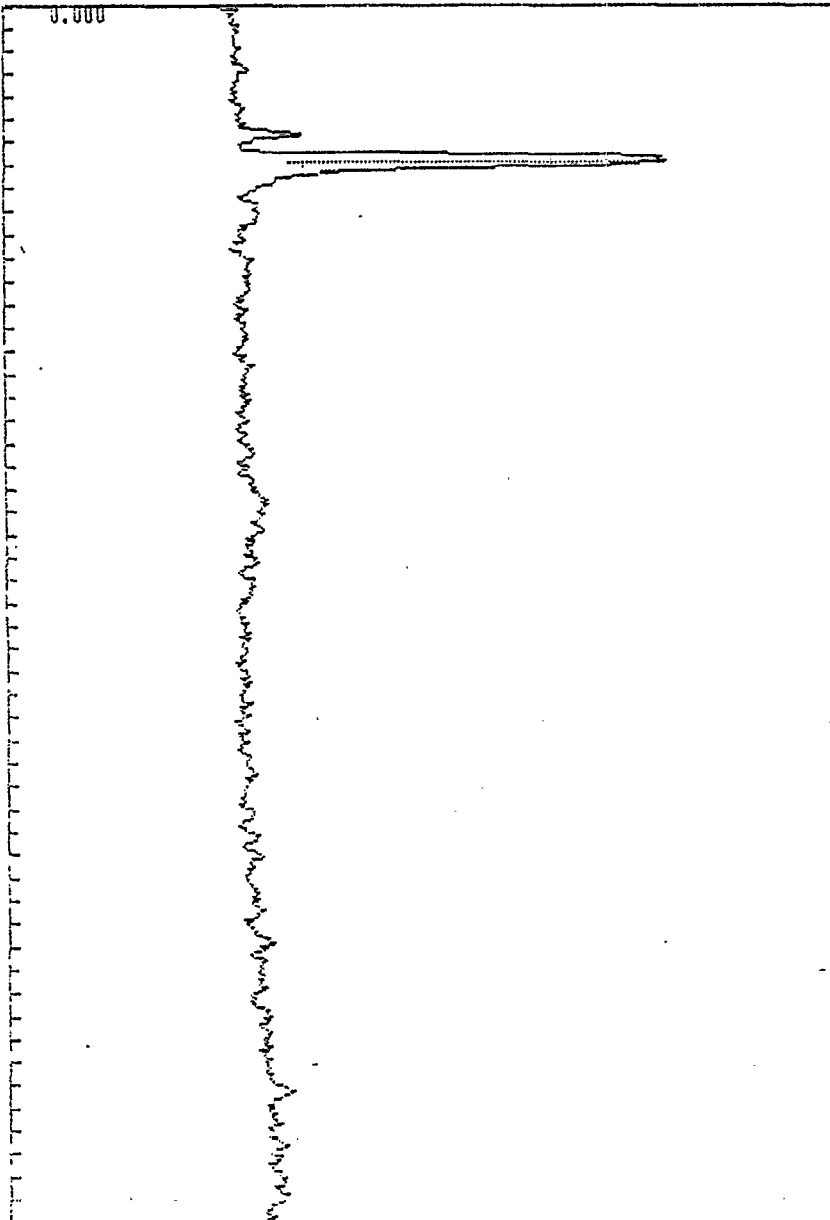
Area
0

Peak ID

AMOUNT
0.000E+00

VOLATILES ANALYSIS; TRACOR 1000 HALL
COLUMN: 105M Rtx 502.2

Sample Name : ULI# 40763, FLD# CEB23
Instrument : ELEVEN
Result File : /INSTRUMENT/ELEVEN/A010391MUDA_011.RES
Run Time : 53.00Minutes
Injected on : 1032 03Jan1991
Report Time : 1712-13Jan1991
Method : /METHOD/VCA_H.MTH
Addn. Data :
Amount Inj. :



100083

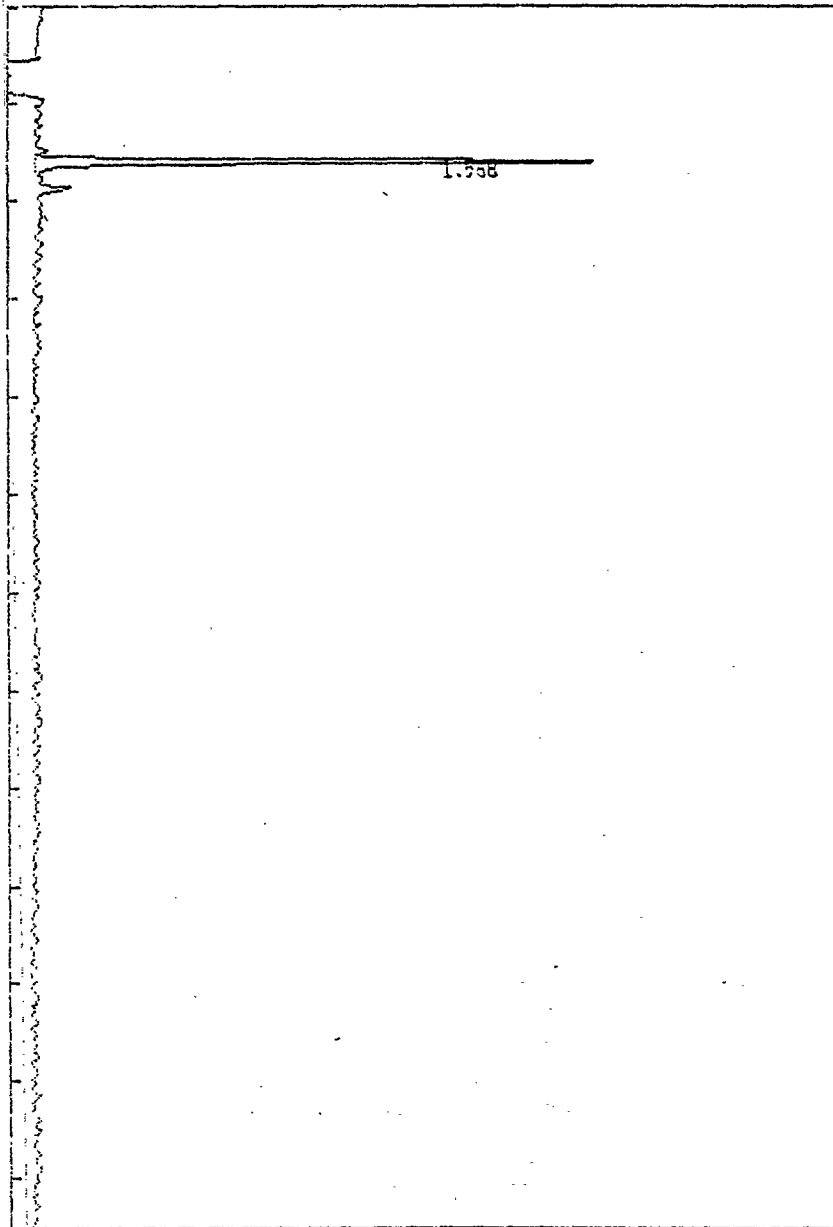
AR302125

ULI APPLIED CHROMATOGRAPHY LAB
RAW DATA REPORT

RT	Area	Peak ID	UG/L
1.57	5817	*SS* FLUOROBENZENE	1.818E+01

VOLATILE ANALYSIS - PID
30M Rtx-1 MEGABORE, 6 MIN @35C > 10 C/MIN > 100.

Sample Name : ULI# 40763, FLD# CEB23
Instrument : THIRTEEN
Result File : /INSTRUMENT/THIRTEEN/B010291NUOAW_021.RES
Run Time : 12.52Minutes
Injected on : 0142 03Jan1991
Report Time : 1137 08Jan1991
Method : /METHOD/UGA_NW.MTH
Addn. Data :
Amount Inj. :



100083

AR302126