ANSON ENVIRONMENTAL LTD.

771 New York Avenue
Huntington, New York 11743
631-351-3555
Fax: 631-351-3615
www.AnsonLtd.com

Site Closure Report

Volume 2 of 2

Appendix 5-6

Site Location:

Atlas Graphics, Inc.
567 Main Street
Westbury, NY 11590
VCP Site # 01-30-034B

Prepared for:

New York State Department of Environmental Conservation
625 Broadway, 11th Floor
Albany, NY 12233-7015

Prepared by:

Anson Environmental Ltd.
771 New York Avenue
Huntington, NY 11743

Date:

May 2004

P00025

"Your Environmental Partner"

5

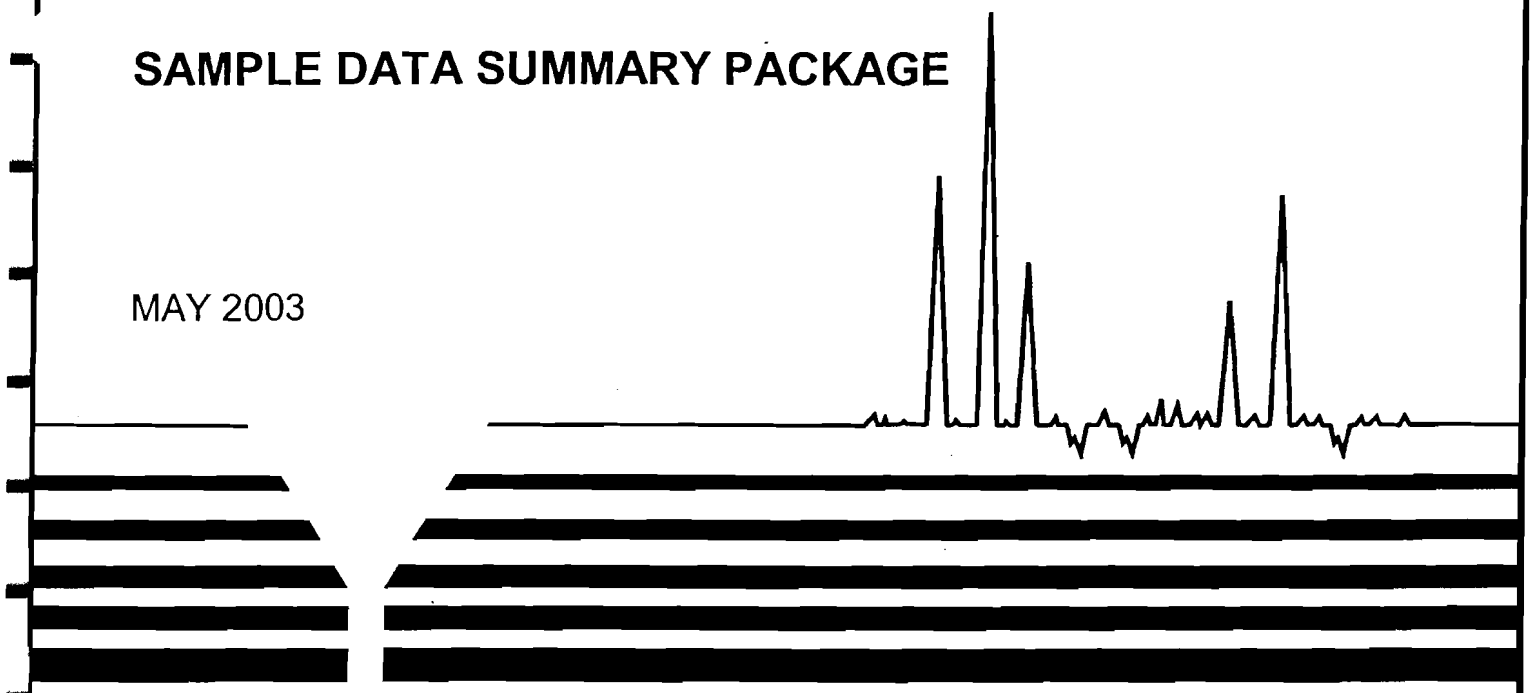
Analytical Data Package For

ANSON ENVIRONMENTAL
ATLAS GRAPHICS
SDG NO: ANSON014

Water Samples
Received: 5/14/03

SAMPLE DATA SUMMARY PACKAGE

MAY 2003



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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SAMPLES RECEIVED: 5/14/03
SDG NO.: ANSON014

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H2M LABS, INC.

1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
ANSON ENVIRONMENTAL, LTD.
ATLAS GRAPHICS
PROJECT NO. 00025
SAMPLES RECEIVED: 11/20/02
SDG #: ANSON013

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*GC VOA	PCB	*METALS	OTHER TS
NC2D	0305404-001	X					
D3	0305404-002	X					
TRIP BLANK 5/14	0305404-003	X					

Check Appropriate Boxes
* CLP, ~~Non-CLP~~ (Please indicate year of protocol) ASP 95 10/95
* TCL/TAL, HCL, TS

ANSON014 S3

VOLATILE SAMPLE ANALYSIS SUMMARY
ANSON014

EPAsampID	Sample ID	Matrix	CollectDate	DateReceived	Level	AnalDate
NC2D	0305404-001A	Water	14-May-03	14-May-03	Low	22-May-03
NC2DMS	0305404-001AMS	Water	14-May-03	14-May-03	Low	22-May-03
NC2DMSD	0305404-001AMSD	Water	14-May-03	14-May-03	Low	22-May-03
P3	0305404-002A	Water	14-May-03	14-May-03	Low	22-May-03
TRIP BLANK 5/14	0305404-003A	Water	14-May-03	14-May-03	Low	22-May-03

2. CHAIN OF CUSTODY DOCUMENTATION

[illegible] LABORATORY [illegible] No. 72[illegible] EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

CLIENT: ANSON ENVIRONMENTAL | **H2M SDG NO:** ANSON014

PROJECT NAME/NUMBER: ANSON Atlas Graphics

SAMPLERS: (signature)/Client

DELIVERABLES:

TURNAROUND TIME:

Sample Container Description: 40 mL Vial w/HCl

NOTES: 8260 Category B deliverables

Project Contact:

Phone Number:

	DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
2	5/14	13:30	W	P3	1	X					0305404-002	
1		13:10	W	NC 2 d	2	X					001	> MS/MSD
		~~13:15~~	W	MS 2 d	2	X					↓	
3				Trip Blank	2	X					003	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/14/03	1435		5/14/03	14:35
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection.

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt: Y or N

ANSON014 S6

WHITE COPY - ORIGINAL | YELLOW COPY - CLIENT | PINK COPY - LABORATORY

C

ANSON014

H2M LABS, INC.

Sample Receipt Checklist

Client Name **ANSON** Date and Time Receive **5/14/2003 2:35:00 PM**

Work Order Numbe **0305404** Received by SD

Checklist completed b _____ 5/14/03 Reviewed by JSA 5/15/03
Signature Date Initials Date

Matrix Carrier name Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☑	Not Presen ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

ANSON014 S7

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: ANSON DELIVERABLES: BS-70 TURN AROUND TIME: 21 Days

SDG #: ANSON014 CASE #: _____ MATRIX: Aqueous pH CHECK Y or (N)

REMARKS: _____

RECEIVED BY: SD SIGNATURE: [signature] DATE: 5/14/03 TIME: 14:35

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
NC2D MS/MSD	03C5404-031A	5/14/03	DH	4	ASPBS-8260-W
P3	032	↓	↓	1	↓
TRIP BLANK 5/14	033	↓	↓	2	↓

SD 5/14/03

VOLATILE

P 0151

ANSON014 S8

H2M LABS, INC.

CLIENT: ANSON

DG #: ANSON014

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
5/4/5	17:45	SIGN	SIGN Brucchio	DH	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

VOLATILE

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSES
SAMPLE RECEIVED: 5/14/03
SDG #: ANSON014

For Samples:

NC2D MS/MSD
P3
TRIP BLANK 5/14

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 8260B for the TCL volatile organic analytes.

All QC data and the calibrations met the requirements of the protocol. The following should be noted:

- Sample NC2D was analyzed as the matrix spike/matrix spike duplicate.
- A lab fortified blank was analyzed. All percent recoveries were within QC limits except for a 69% recovery for acetone (lower limit 71%).
- In the continuous calibration on 5/22/03, %D for 1,1,1-trichloroethane and carbon tetrachloride exceeded 25% D but met the limit of 40% for the exceptions.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. 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.

Date Reported: May 29, 2003

****
* *
* *
****
Joann M. Slavin
Laboratory Manager

o:\qc\narr2003\anson\voa\anson014.rtf

ANSON014 SII (M) 5/30/03

4. SAMPLE REPORTS

4.1 VOLATILES

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

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

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\% moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 - 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU' or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2D

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23658.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	31	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	6	J
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	23	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	57	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2D

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23658.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

NC2D

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23658.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

ANSON014 S17

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

P3

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23657.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

P3

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23657.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	

1F

EPA SAMPLE NO.

P3

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23657.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 3 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	7.56	190	NJ
2.	unknown	10.93	110	J
3.	Benzene, trimethyl- isomer	21.03	5	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK 5/14

Lab Name: H2M LABS, INC. Contract: _ _

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23659.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTPATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

ANSON014 S21

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK 5/14

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23659.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	UG/L	Q
1330-20-7	Xylene (total)		10	U

ANSON014 S22

1F

EPA SAMPLE NO.

TRIP BLANK 5/14

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS. INC Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23659.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

ANSON014 S23

H2M LABS, INC.

5. SURROGATE SPIKE ANALYSIS RESULTS
5.1 VOLATILES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

ab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

	EPA SAMPLE NO.	SMC1 DCE#	SMC2 TOL#	SMC3 BFB#	Other	TOT OUT
01	VBLK052203	99	94	106		0
02	LFB052203	97	97	101		0
03	LCS052203	98	100	107		0
04	P3	97	99	108		0
05	NC2D	94	94	107		0
06	TRIP BLANK 5/14	95	95	107		0
07	NC2DMS	95	94	109		0
08	NC2DMSD	96	102	110		0

			QC Limits
SMC 1	DCE	= 1,2-Dichloroethane-d4	(76-114)
SMC 2	TOL	= Toluene-d8	(88-110)
SMC 3	BFB	= 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

Matrix Spike - EPA Sample No.: NC2D

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	56	112	61-145
Trichloroethene	50	23	80	113	71-120
Benzene	50	0	64	128*	76-127
Toluene	50	0	60	119	76-125
Chlorobenzene	50	0	63	125	75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	48	96	15*	14	61-145
Trichloroethene	50	74	101	11	14	71-120
Benzene	50	61	122	5	11	76-127
Toluene	50	61	123	3	13	76-125
Chlorobenzene	50	60	121	3	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 1 out of 10 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

Sample ID LCS052203 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	45	89	61-145
Trichloroethene	50	0	57	115	71-120
Benzene	50	0	57	113	76-127
Toluene	50	0	59	117	76-125
Chlorobenzene	50	0	60	119	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of ~~0~~ 5 outside limits 5/21/03

COMMENTS: _____

FORM III SW8260B

ANSON014 S28

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

Sample ID LFB052203 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	42	85	70-114
Bromomethane	50	0	52	105	50-136
Vinyl chloride	50	0	49	98	66-117
Chloroethane	50	0	41	82	71-116
Methylene chloride	50	0	43	85	80-112
Acetone	50	0	35	69*	71-125
1,1-Dichloroethene	50	0	48	95	67-120
Carbon disulfide	50	0	52	104	61-126
1,1-Dichloroethane	50	0	50	101	77-114
1,2-Dichloroethene (total)	100	0	100	101	78-128
Chloroform	50	0	51	103	75-119
1,2-Dichloroethane	50	0	49	98	76-120
2-Butanone	50	0	42	84	74-121
1,1,1-Trichloroethane	50	0	59	118	66-126
Carbon tetrachloride	50	0	61	121	64-126
Bromodichloromethane	50	0	55	110	78-118
1,2-Dichloropropane	50	0	55	110	81-115
cis-1,3-Dichloropropene	50	0	52	105	79-116
Trichloroethene	50	0	57	114	72-121
Dibromochloromethane	50	0	52	103	75-125
1,1,2-Trichloroethane	50	0	52	103	82-116
Benzene	50	0	55	109	77-116
trans-1,3-Dichloropropene	50	0	51	101	77-120
Bromoform	50	0	51	103	75-121
4-Methyl-2-pentanone	50	0	48	96	79-121
2-Hexanone	50	0	46	91	76-119
Tetrachloroethene	50	0	57	113	59-133
1,1,2,2-Tetrachloroethane	50	0	49	98	77-120
Toluene	50	0	54	109	70-125
Chlorobenzene	50	0	53	107	72-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of 0 outside limits 33 hm 5.2.03

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON014

Sample ID LFB052203 Level:(low/med) LOW

Ethylbenzene	50	0	50	99	68-128
Styrene	50	0	52	104	72-124
Xylene (total)	150	0	160	107	78-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of ~~0~~ 33 tm 5.27.03 outside limits

COMMENTS:

7. BLANK SUMMARY DATA AND RESULTS

7.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK052203

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No. _____ SDG No.: ANSON014

Lab File ID: 3\P23654.D Lab Sample ID: VBLK052203

Date Analyzed: 05/22/03 Time Analyzed: 15:31

GC Column: R-502. ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB052203	LFB052203	3\P23655.D	16:07
02	LCS052203	LCS052203	3\P23656.D	16:42
03	P3	0305404-002A	3\P23657.D	17:20
04	NC2D	0305404-001A	3\P23658.D	17:55
05	TRIP BLANK 5/14	0305404-003A	3\P23659.D	18:32
06	NC2DMS	0305404-001AMS	3\P23660.D	19:07
07	NC2DMSD	0305404-001AMSD	3\P23661.D	19:42

COMMENTS: _____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK052203

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: VBLK052203

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23654.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	1	J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK052203

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: VBLK052203

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23654.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

VBLK052203

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON014

Matrix: (soil/water) WATER Lab Sample ID: VBLK052203

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23654.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 1 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	000120-82-1	Benzene, 1,2,4-trichloro-	24.37	7	NJ

8. INTERNAL STANDARD AREA DATA
8.1 VOLATILES

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No. _____ SDG No.: ANSON014

Lab File ID (Standard): 3\P23653.D Date Analyzed: 05/22/03

EPA Sample No.(VSTD050##): VSTD050 Time Analyzed: 14:31

Instrument ID: HP5970-3 Heated Purge: (Y/N) N

GC Column: R-502. ID: .53 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	72777	10.24	343238	11.78	251385	18.7
	UPPER LIMIT	145554	10.74	686476	12.28	502770	19.2
	LOWER LIMIT	36389	9.74	171619	11.28	125693	18.2
	EPA SAMPLE						
01	VBLK052203	75815	10.23	340289	11.80	254590	18.71
02	LFB052203	77109	10.18	349312	11.73	265213	18.67
03	LCS052203	80847	10.14	370148	11.72	268907	18.68
04	P3	75173	10.18	350026	11.74	261984	18.66
05	NC2D	77638	10.16	342345	11.73	269002	18.66
06	TRIP BLANK 5/14	75495	10.15	336954	11.72	273443	18.65
07	NC2DMS	78754	10.15	345268	11.71	260135	18.63
08	NC2DMSD	85114	10.13	382040	11.71	257190	18.65

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

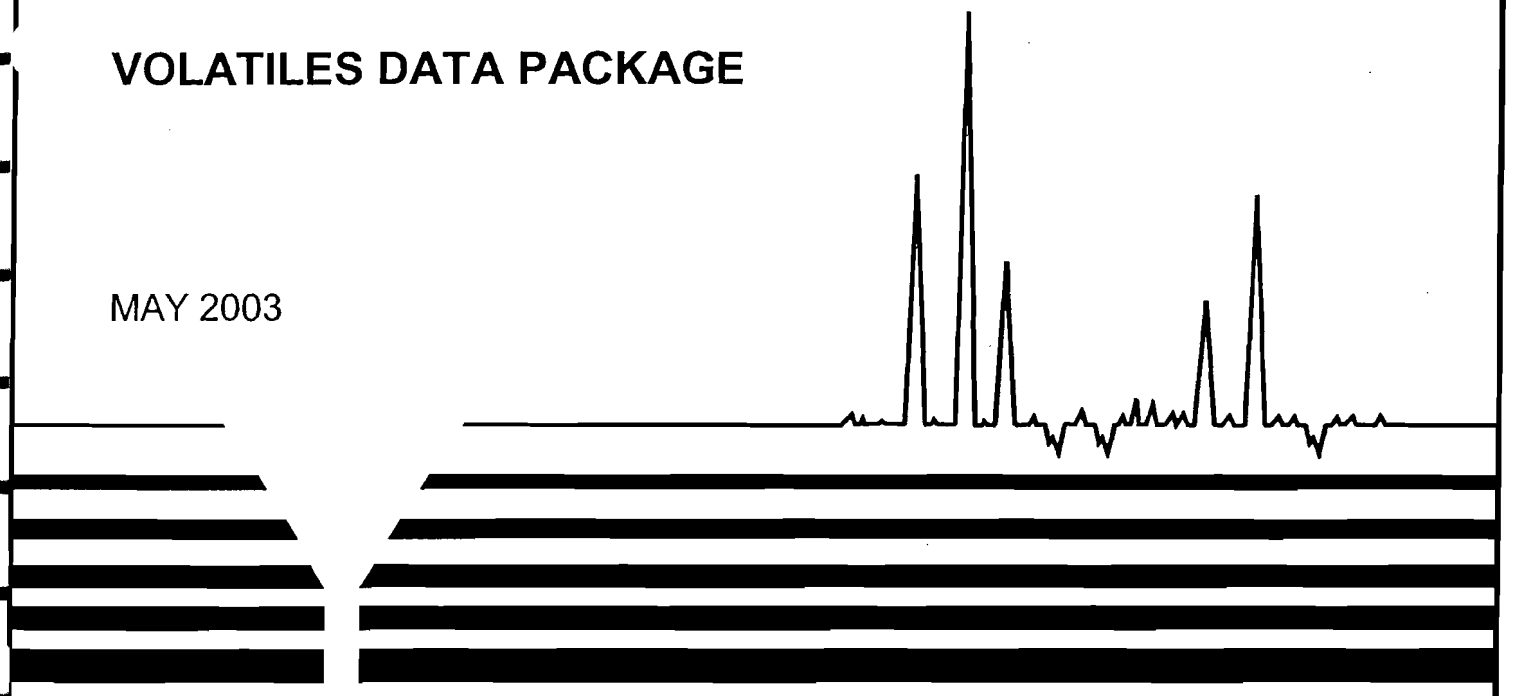
Analytical Data Package For

ANSON ENVIRONMENTAL
ATLAS GRAPHICS
SDG NO: ANSON014

Water Samples
Received: 5/14/03

VOLATILES DATA PACKAGE

MAY 2003



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

ANALYTICAL DATA PACKAGE

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ANSON ENVIRONMENTAL, LTD.
PROJECT NO.: 00025
PROJECT NAME: ATLAS GRAPHICS
SAMPLES RECEIVED: 5/14/03
SDG NO.: ANSON014

I. NYS DEC SUMMARY FORMS

II. SDG NARRATIVES

III. CHAIN OF CUSTODY DOCUMENTATION

IV. ANALYTICAL DATA PACKAGE

A. VOLATILES

DATA PACKAGE FOR CLIENT INFORMATION
PURPOSES ONLY

H2M LABS, INC.

I. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
ANSON ENVIRONMENTAL, LTD.
ATLAS GRAPHICS
PROJECT NO. 00025
SAMPLES RECEIVED: 11/20/02
SDG #: ANSON013

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*GC VOA	PCB	*METALS	OTHER TS
NC2D	0305404-001	X					
P3	0305404-002	X					
TRIP BLANK 5/14	0305404-003	X					

Check Appropriate Boxes
* CLP, ~~Non-CLP~~ (Please indicate year of protocol) ASP B 10/95
* TCL/TAL, HCL, TS

ANSON014 A3

VOLATILE SAMPLE ANALYSIS SUMMARY

ANSON014

EPAsampID	Sample ID	Matrix	CollectDate	DateReceived	Level	AnalDate
NC2D	0305404-001A	Water	14-May-03	14-May-03	Low	22-May-03
NC2DMS	0305404-001AMS	Water	14-May-03	14-May-03	Low	22-May-03
NC2DMSD	0305404-001AMSD	Water	14-May-03	14-May-03	Low	22-May-03
P3	0305404-002A	Water	14-May-03	14-May-03	Low	22-May-03
TRIP BLANK 5/14	0305404-003A	Water	14-May-03	14-May-03	Low	22-May-03

II. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSES
SAMPLE RECEIVED: 5/14/03
SDG #: ANSON014

For Samples:

NC2D MS/MSD
P3
TRIP BLANK 5/14

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 8260B for the TCL volatile organic analytes.

All QC data and the calibrations met the requirements of the protocol. The following should be noted:

- Sample NC2D was analyzed as the matrix spike/matrix spike duplicate.
- A lab fortified blank was analyzed. All percent recoveries were within QC limits except for a 69% recovery for acetone (lower limit 71%).
- In the continuous calibration on 5/22/03, %D for 1,1,1-trichloroethane and carbon tetrachloride exceeded 25% D but met the limit of 40% for the exceptions.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. 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.

Date Reported: May 29, 2003

****
* *
* *
****
Joann M. Slavin
Laboratory Manager

o:\qc\narr2003\anson\voa\anson014.rtf

5/29/03
ANSON014 A9

III. CHAIN OF CUSTODY DOCUMENTATION

H2M LABS, INC.

No. 7218

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

CLIENT: ANSON ENVIRONMENTAL | **H2M SDG NO:** ANSON014

PROJECT NAME/NUMBER: ANSON Atlas Graphics

SAMPLERS: (signature)/Client

DELIVERABLES:

TURNAROUND TIME:

Sample Container Description: 40 mL Vial w/HCl

NOTES: 8260 Category B deliverables

Project Contact:

Phone Number:

ANALYSIS REQUESTED

	DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
2	5/14	13:30	W	P3	2	X					0305404-002	
1		13:10	W	NC 2 d	2	X					001	MS/MSD
		13:15	W	MS 2 d	2	X					↓	
3				Trip Blank	2	X					003	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/14/03	1435		5/14/03	14:35
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N
Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package Y or N
3. COC record present & complete upon sample receipt: Y or N

ANSON014 A8

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

C

ANSON014

H2M LABS, INC.

Sample Receipt Checklist

Client Name **ANSON** Date and Time Receive **5/14/2003 2:35:00 PM**

Work Order Numbe **0305404** Received by SD

Checklist completed b Signature 5/14/03 Date Reviewed by JSA Initials 5/15/03 Date

Matrix Carrier name Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen
Custody seals intact on shippping container/cooler?	Yes ☐	No ☑	Not Presen
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? Checked b

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted Date contacted: Person contacted

Contacted by: Regarding

Comments:

Corrective Action

ANSON014 A9

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: ANSON DELIVERABLES: B&-70 TURN AROUND TIME: 21 Days

SDG #: ANSON014 CASE #: _____ MATRIX: Aqueous pH CHECK Y or (N)

REMARKS: _____

RECEIVED BY: SSD SIGNATURE: [signature] DATE: 5/14/03 TIME: 14:35

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
NC2D MS/MSD	03C5404-001A	5/14/03	D H	4	ASPB5-8260-W
P3	002	↓	↓	1	↓
TRIP BLANK 5/14	003	↓	↓	2	↓

SSD 5/14/03

VOLATILE

P 0151

ANSON014 A10

H2M LABS, INC.

CLIENT: ANSON

DG #: ANSON014

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
5/4/	17:45	SIGN	SIGN	DH	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

VOLATILE

H2M LABS, INC.

IV. ANALYTICAL DATA PACKAGE

A. VOLATILES

H2M LABS, INC.

ANSON014

VOLATILE ORGANICS

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I. QC SUMMARY

II. SAMPLE DATA PACKAGE

III. STANDARDS DATA PACKAGE

IV. RAW QC DATA PACKAGE

V. DOCUMENTATION

H2M LABS, INC.

I. QC SUMMARY FOR VOLATILE ORGANICS

A. SYSTEM MONITORING COMPOUND RECOVERY FORM
B. MS/MSD FORM
C. MSB FORM
D. METHOD BLANK FORM
E. GC/MS TUNING FORM
F. INTERNAL STANDARD AREA AND RT SUMMARY
G. INSTRUMENT DETECTION LIMITS

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

b Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

	EPA SAMPLE NO.	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	Other	TOT OUT
01	VBLK052203	99	94	106		0
02	LFB052203	97	97	101		0
03	LCS052203	98	100	107		0
04	P3	97	99	108		0
05	NC2D	94	94	107		0
06	TRIP BLANK 5/14	95	95	107		0
07	NC2DMS	95	94	109		0
08	NC2DMSD	96	102	110		0

			QC Limits
SMC 1	DCE	= 1,2-Dichloroethane-d4	(76-114)
SMC 2	TOL	= Toluene-d8	(88-110)
SMC 3	BFB	= 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

Matrix Spike - EPA Sample No.: NC2D

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	56	112	61-145
Trichloroethene	50	23	80	113	71-120
Benzene	50	0	64	128*	76-127
Toluene	50	0	60	119	76-125
Chlorobenzene	50	0	63	125	75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	48	96	15*	14	61-145
Trichloroethene	50	74	101	11	14	71-120
Benzene	50	61	122	5	11	76-127
Toluene	50	61	123	3	13	76-125
Chlorobenzene	50	60	121	3	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 1 out of 10 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON014

Sample ID LCS052203 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	45	89	61-145
Trichloroethene	50	0	57	115	71-120
Benzene	50	0	57	113	76-127
Toluene	50	0	59	117	76-125
Chlorobenzene	50	0	60	119	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 0 outside limits 5 hw 5/21/03

COMMENTS:

FORM III SW8260B

ANSON014 V5

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON014

Sample ID LFB052203 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	42	85	70-114
Bromomethane	50	0	52	105	50-136
Vinyl chloride	50	0	49	98	66-117
Chloroethane	50	0	41	82	71-116
Methylene chloride	50	0	43	85	80-112
Acetone	50	0	35	69*	71-125
1,1-Dichloroethene	50	0	48	95	67-120
Carbon disulfide	50	0	52	104	61-126
1,1-Dichloroethane	50	0	50	101	77-114
1,2-Dichloroethene (total)	100	0	100	101	78-128
Chloroform	50	0	51	103	75-119
1,2-Dichloroethane	50	0	49	98	76-120
2-Butanone	50	0	42	84	74-121
1,1,1-Trichloroethane	50	0	59	118	66-126
Carbon tetrachloride	50	0	61	121	64-126
Bromodichloromethane	50	0	55	110	78-118
1,2-Dichloropropane	50	0	55	110	81-115
cis-1,3-Dichloropropene	50	0	52	105	79-116
Trichloroethene	50	0	57	114	72-121
Dibromochloromethane	50	0	52	103	75-125
1,1,2-Trichloroethane	50	0	52	103	82-116
Benzene	50	0	55	109	77-116
trans-1,3-Dichloropropene	50	0	51	101	77-120
Bromoform	50	0	51	103	75-121
4-Methyl-2-pentanone	50	0	48	96	79-121
2-Hexanone	50	0	46	91	76-119
Tetrachloroethene	50	0	57	113	59-133
1,1,2,2-Tetrachloroethane	50	0	49	98	77-120
Toluene	50	0	54	109	70-125
Chlorobenzene	50	0	53	107	72-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

hm 5.21.03

Spike Recovery: 1 out of ~~0~~ outside limits

COMMENTS:

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON014

Sample ID LFB052203 Level: (low/med) LOW

Ethylbenzene	50	0	50	99	68-128
Styrene	50	0	52	104	72-124
Xylene (total)	150	0	160	107	78-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 1 out of ~~0~~ 30 hm 5.21.03 outside limits

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK052203

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No. _____ SDG No.: ANSON014

Lab File ID: 3\P23654.D Lab Sample ID: VBLK052203

Date Analyzed: 05/22/03 Time Analyzed: 15:31

GC Column: R-502. ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5970-3

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB052203	LFB052203	3\P23655.D	16:07
02	LCS052203	LCS052203	3\P23656.D	16:42
03	P3	0305404-002A	3\P23657.D	17:20
04	NC2D	0305404-001A	3\P23658.D	17:55
05	TRIP BLANK 5/14	0305404-003A	3\P23659.D	18:32
06	NC2DMS	0305404-001AMS	3\P23660.D	19:07
07	NC2DMSD	0305404-001AMSD	3\P23661.D	19:42

COMMENTS: _____

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

Lab File ID: 3\P22998.D BFB Injection Date: 03/28/03

Instrument ID: HP5970-3 BFB Injection Time: 12:37

GC Column: R-502.2 ID: .53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.2
75	30.0 - 60.0% of mass 95	55.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	78.1
175	5.0 - 9.0% of mass 174	7.0 (9.0)1
176	95.0 - 101.0% of mass 174	74.9 (95.8)1
177	5.0 - 9.0% of mass 176	5.0 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	3\P22999.D	03/28/03	12:52
02	VSTD010	VSTD010	3\P23001.D	03/28/03	15:09
03	VSTD100	VSTD100	3\P23002.D	03/28/03	15:44
04	VSTD200	VSTD200	3\P23003.D	03/28/03	16:18
05	VSTD020	VSTD020	3\P23004.D	03/28/03	16:53

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

Lab File ID: 3\P23652.D BFB Injection Date: 05/22/03

Instrument ID: HP5970-3 BFB Injection Time: 13:01

GC Column: R-502.2 ID: .53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	49.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	91.3
175	5.0 - 9.0% of mass 174	5.9 (6.5)1
176	95.0 - 101.0% of mass 174	90.7 (99.4)1
177	5.0 - 9.0% of mass 176	6.2 (6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	3\P23653.D	05/22/03	14:31
02	VBLK052203	VBLK052203	3\P23654.D	05/22/03	15:31
03	LFB052203	LFB052203	3\P23655.D	05/22/03	16:07
04	LCS052203	LCS052203	3\P23656.D	05/22/03	16:42
05	P3	0305404-002A	3\P23657.D	05/22/03	17:20
06	NC2D	0305404-001A	3\P23658.D	05/22/03	17:55
07	TRIP BLANK 5/14	0305404-003A	3\P23659.D	05/22/03	18:32
08	NC2DMS	0305404-001AMS	3\P23660.D	05/22/03	19:07
09	NC2DMSD	0305404-001AMSD	3\P23661.D	05/22/03	19:42

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No. _____ SDG No.: ANSON014

Lab File ID (Standard): 3\P23653.D Date Analyzed: 05/22/03

EPA Sample No.(VSTD050##): VSTD050 Time Analyzed: 14:31

Instrument ID: HP5970-3 Heated Purge: (Y/N) N

GC Column: R-502. ID: .53 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	72777	10.24	343238	11.78	251385	18.7
	UPPER LIMIT	145554	10.74	686476	12.28	502770	19.2
	LOWER LIMIT	36389	9.74	171619	11.28	125693	18.2
	EPA SAMPLE						
01	VBLK052203	75815	10.23	340289	11.80	254590	18.71
02	LFB052203	77109	10.18	349312	11.73	265213	18.67
03	LCS052203	80847	10.14	370148	11.72	268907	18.68
04	P3	75173	10.18	350026	11.74	261984	18.66
05	NC2D	77638	10.16	342345	11.73	269002	18.66
06	TRIP BLANK 5/14	75495	10.15	336954	11.72	273443	18.65
07	NC2DMS	78754	10.15	345268	11.71	260135	18.63
08	NC2DMSD	85114	10.13	382040	11.71	257190	18.65

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

H2M LABS, INC.

Date: 27-May-03

Test Code: ASPB5-8260_W
Test Number: SW8260B
Test Name: ASPB5 8260B(VOA IN WATER BY GC/MS)
Matrix: Aqueous **Units:** µg/L

METHOD DETECTION / REPORTING LIMITS

Updated: 23-Jul-01

Type	Analyte	MDL	PQL
A	1,1,1-Trichloroethane	0.12	10
A	1,1,2,2-Tetrachloroethane	0.35	10
A	1,1,2-Trichloroethane	0.24	10
A	1,1-Dichloroethane	0.12	10
A	1,1-Dichloroethene	0.14	10
A	1,2-Dichloroethane	0.26	10
A	1,2-Dichloroethene (total)	2.9	10
A	1,2-Dichloropropane	0.33	10
A	2-Butanone	0.75	10
A	2-Hexanone	1.4	10
A	4-Methyl-2-pentanone	0.30	10
A	Acetone	2.8	10
A	Benzene	0.25	10
A	Bromodichloromethane	0.20	10
A	Bromoform	0.47	10
A	Bromomethane	0.46	10
A	Carbon disulfide	0.15	10
A	Carbon tetrachloride	0.18	10
A	Chlorobenzene	0.34	10
A	Chloroethane	0.48	10
A	Chloroform	0.27	10
A	Chloromethane	0.42	10
A	cis-1,3-Dichloropropene	0.19	10
A	Dibromochloromethane	0.29	10
A	Ethylbenzene	0.30	10
A	Methylene chloride	0.20	10
A	Styrene	0.35	10
A	Tetrachloroethene	0.42	10
A	Toluene	0.23	10
A	trans-1,3-Dichloropropene	0.39	10
A	Trichloroethene	0.14	10
A	Vinyl chloride	0.41	10
A	Xylene (total)	0.33	10
I	1,4-Difluorobenzene	-	10
I	Bromochloromethane	-	10
I	Chlorobenzene-d5	-	10
S	1,2-Dichloroethane-d4	2.7	10
S	4-Bromofluorobenzene	1.3	10
S	Toluene-d8	0.77	10
X	cis-1,2-Dichloroethene	0.17	10
X	Freon-113	0.76	10
X	m,p-Xylene	0.56	10

H2M LABS, INC.

Date: 27-May-03

Test Code: ASPB5-8260_W
Test Number: SW8260B
Test Name: ASPB5 8260B(VOA IN WATER BY GC/MS)
Matrix: Aqueous **Units:** µg/L

METHOD DETECTION / REPORTING LIMITS

Updated: 19-Jul-01

Type	Analyte	MDL	PQL
X	Methyl tert-butyl ether	0.58	10
X	o-Xylene	0.33	10
X	trans-1,2-Dichloroethene	0.13	10

H2M LABS, INC.

II. SAMPLE DATA PACKAGE FOR VOLATILE ORGANICS

A. REPORTS
B. RAW DATA

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

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

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\% moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 - 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU' or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2D

Lab Name: H2M LABS. INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23658.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	31	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	6	J
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	23	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	57	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2D

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23658.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

NC2D

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23658.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

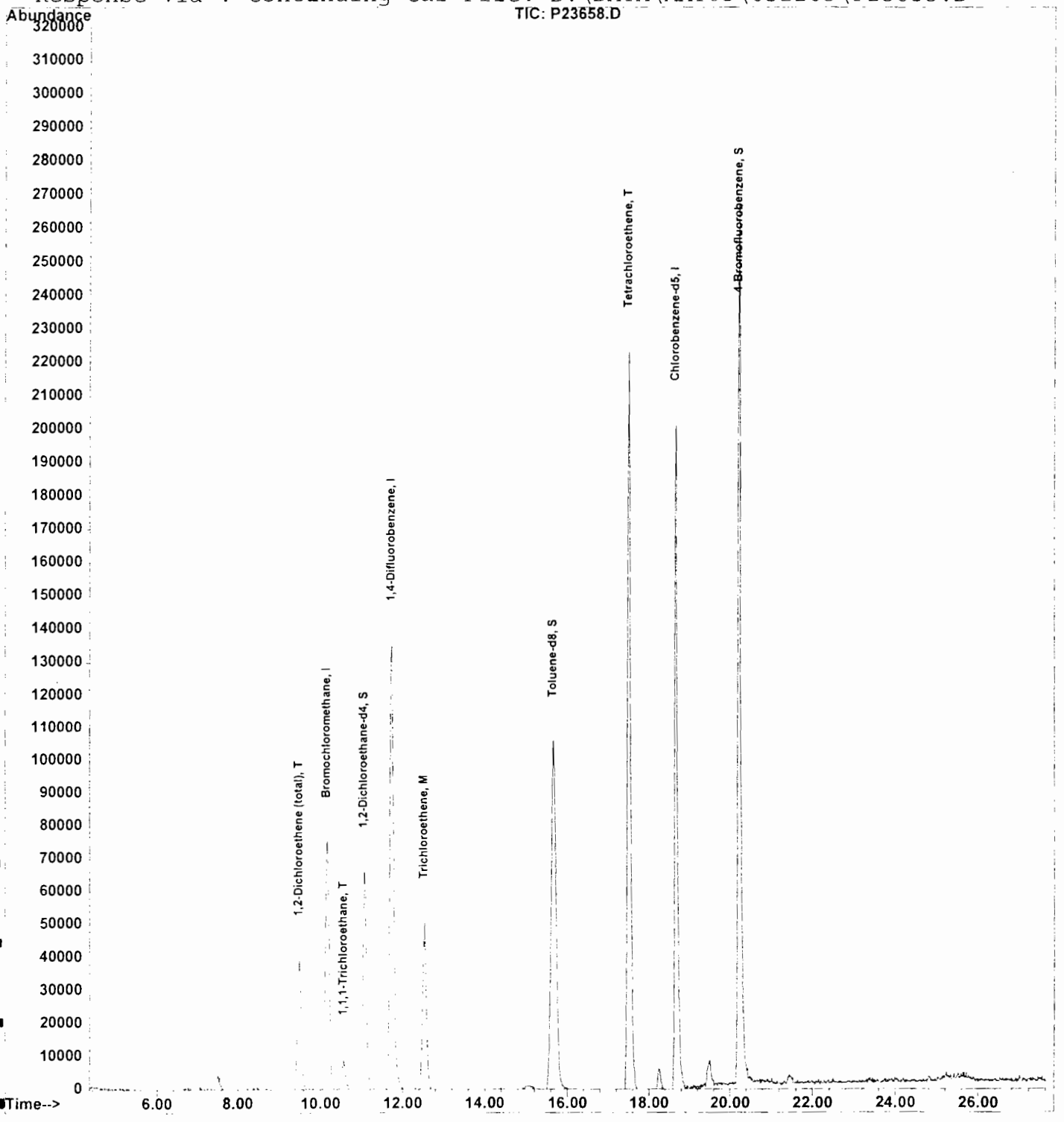
Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23658.D Vial: 6
Acq On : 22 May 2003 17:55 Operator: BBL
Sample : 0305404-001A Inst : H5970-3
Misc : ANSSON014,NC2D,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 12:57 2003 Quant Results File: OLMW328.RES

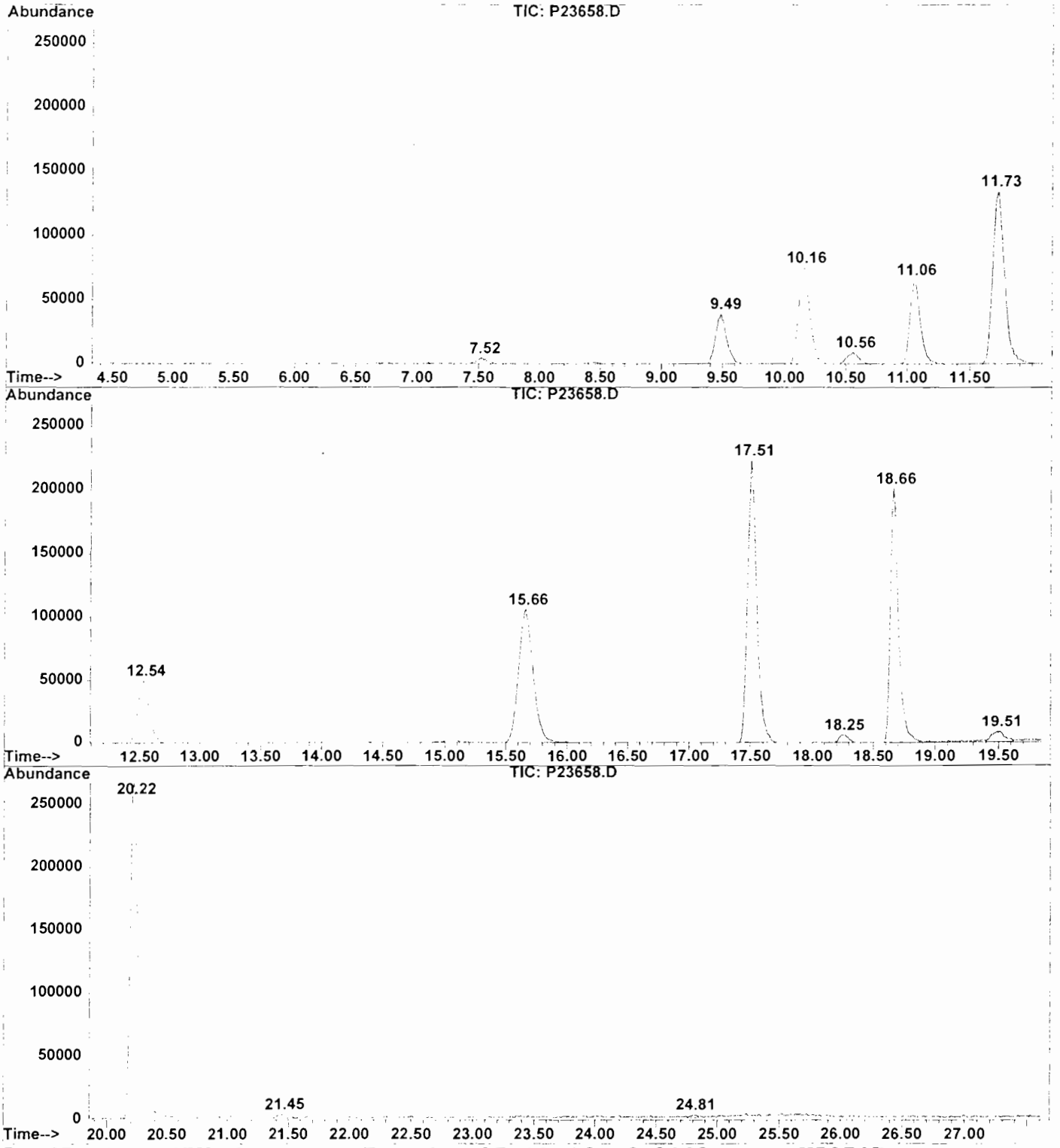
Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D



ANSON014 V20

LSC Report - Integrated Chromatogram

File : O:\MS\HP#3\DATA\MAY03\052203\P23658.D
Operator : BBL
Acquired : 22 May 2003 17:55 using AcqMethod OLMW328
Instrument : H5970-3
Sample Name: 0305404-001A
Misc Info : ANSSON014,NC2D,H2O,SAMP,,
Vial Number: 6
Quant File :OLMW328.RES (RTE Integrator)



P23658.D OLMW328.M Tue May 27 13:46:56 2003 H5970D

ANSON014 V21

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23658.D Vial: 6
Acq On : 22 May 2003 17:55 Operator: BBL
Sample : 0305404-001A Inst : H5970-3
Misc : ANSSON014,NC2D,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 12:57 2003 Quant Results File: OLMW328.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Sun May 18 18:09:20 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D
DataAcq Meth : OLMW328

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.16	128	77638	50.00	ug/l	-0.08
24) 1,4-Difluorobenzene	11.73	114	342345	50.00	ug/l	-0.06
40) Chlorobenzene-d5	18.66	117	269002	50.00	ug/l	-0.04
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	11.06	65	172210	46.76	ug/l	-0.07
Spiked Amount 50.000	Range 76 - 114		Recovery = 93.52%			
46) Toluene-d8	15.66	98	322015	47.23	ug/l	-0.06
Spiked Amount 50.000	Range 88 - 110		Recovery = 94.46%			
50) 4-Bromofluorobenzene	20.21	95	280535	53.74	ug/l	-0.06
Spiked Amount 50.000	Range 86 - 115		Recovery = 107.48%			
Target Compounds						Qvalue
19) 1,2-Dichloroethene (total)	9.49	96	52133	30.55	ug/l #	14
25) 1,1,1-Trichloroethane	10.55	97	25963	5.76	ug/l	97
32) Trichloroethene	12.54	130	60383	23.16	ug/l	100
43) Tetrachloroethene	17.51	164	158552	56.94	ug/l	97

ANSON014 V22

(#) = qualifier out of range (m) = manual integration

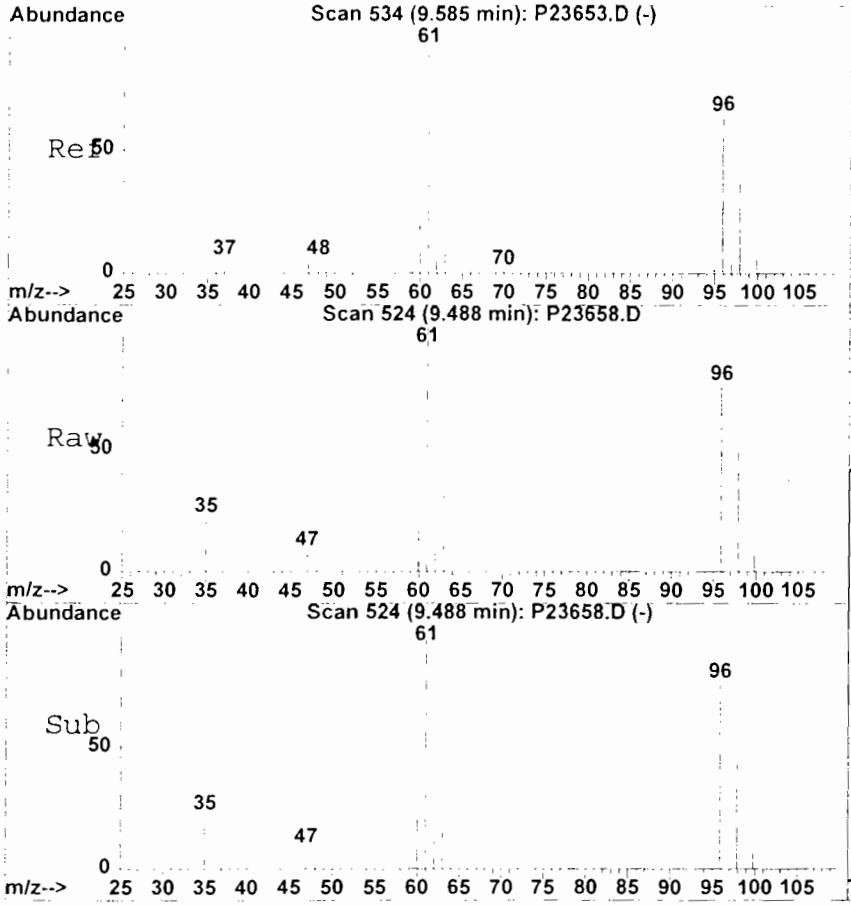
Tentatively Identified Compound (LSC) summary

Operator ID: BBL Date Acquired: 22 May 2003 17:55
Data File: O:\MS\HP#3\DATA\MAY03\052203\P23658.D
Name: 0305404-001A
Misc: ANSSON014,NC2D,H2O,SAMP,,
Method: C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title: CLP OLM 04.1
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

P23658.D OLMW328.M Tue May 27 13:46:56 2003 H5970D

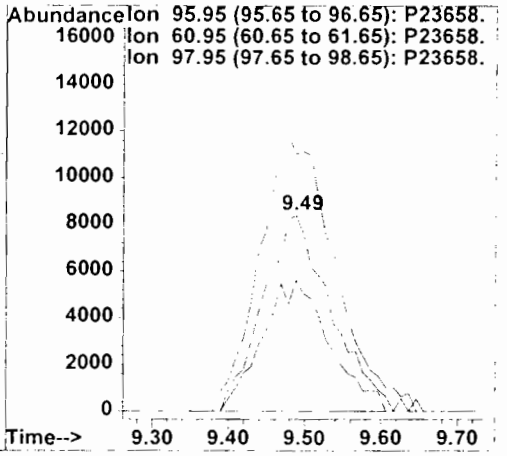
ANSON014 V23

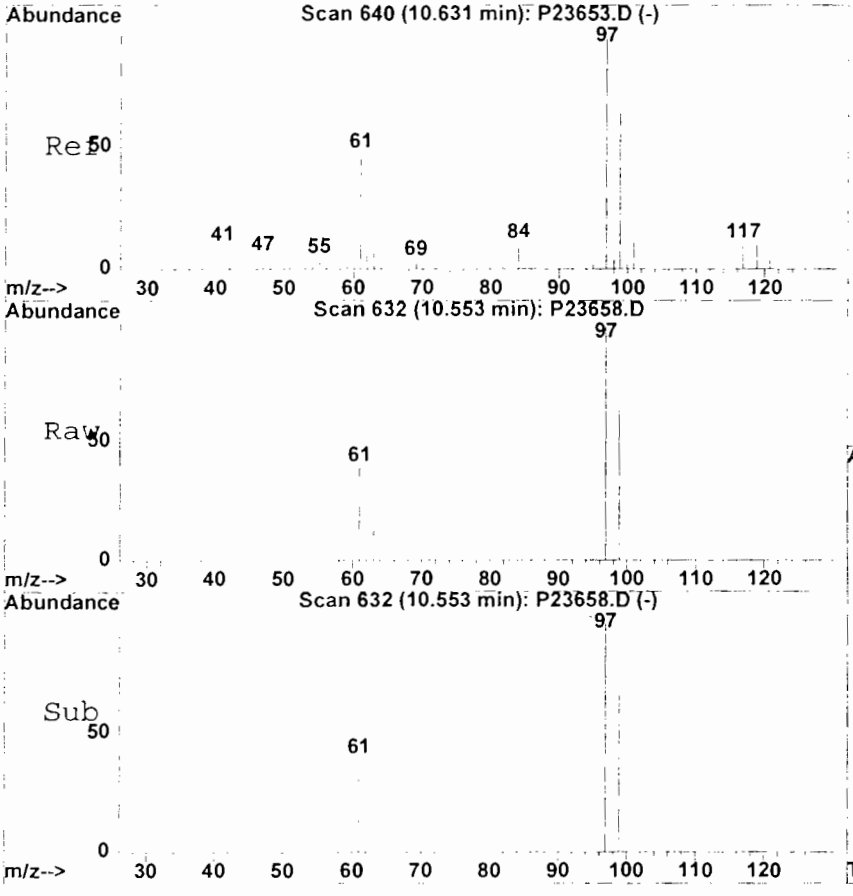


#19
1,2-Dichloroethene (total)
Concen: 30.55 ug/l
RT: 9.49 min Scan# 524
Delta R.T. -0.10 min
Lab File: P23658.D
Acq: 22 May 2003 17:55

Tgt Ion: 96 Resp: 52133

Ion	Ratio	Lower	Upper
96	100		
61	156.4	56.4	96.4#
98	66.7	9.4	49.4#

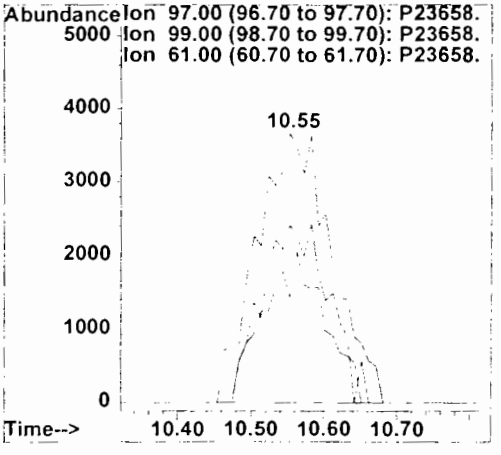




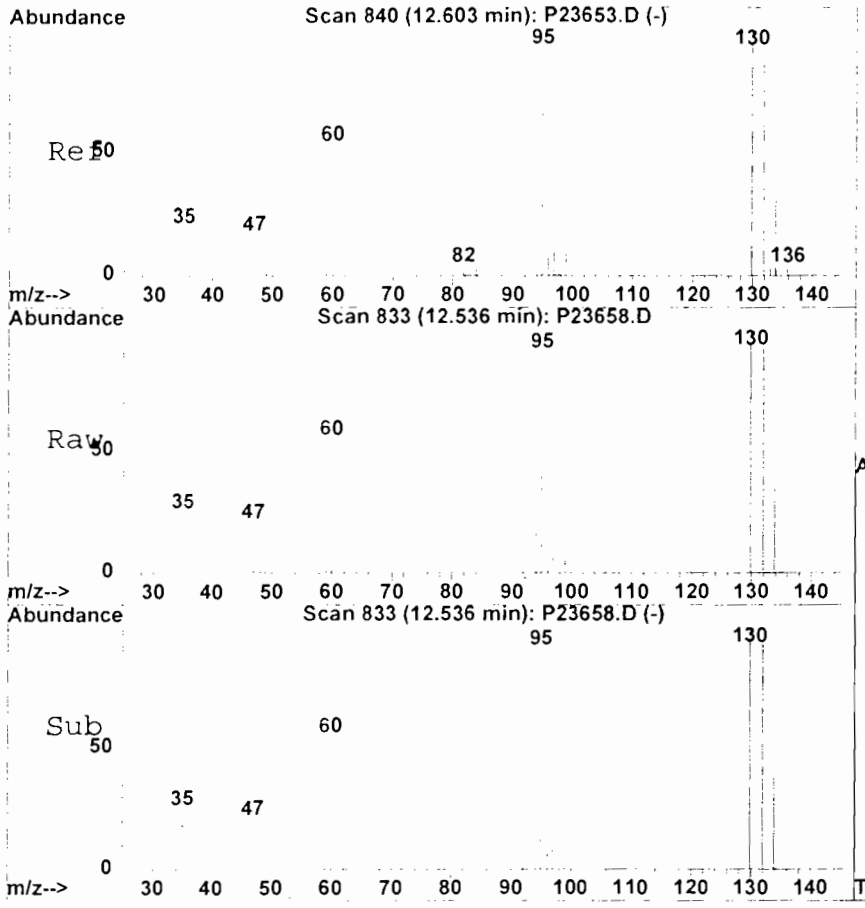
#25
1,1,1-Trichloroethane
Concen: 5.76 ug/l
RT: 10.55 min Scan# 632
Delta R.T. -0.08 min
Lab File: P23658.D
Acq: 22 May 2003 17:55

Tgt Ion: 97 Resp: 25963

Ion	Ratio	Lower	Upper
97	100		
99	60.1	43.9	83.9
61	46.0	26.7	66.7



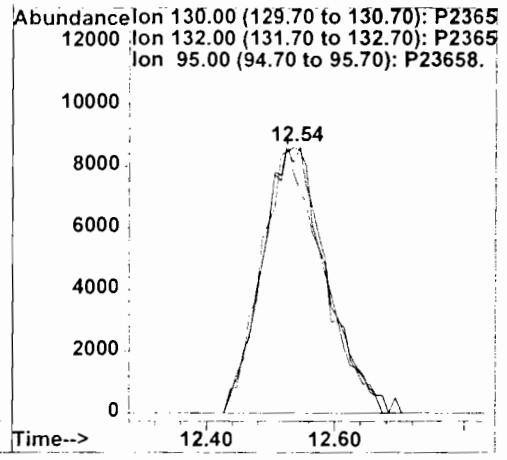
ANSON014 V24

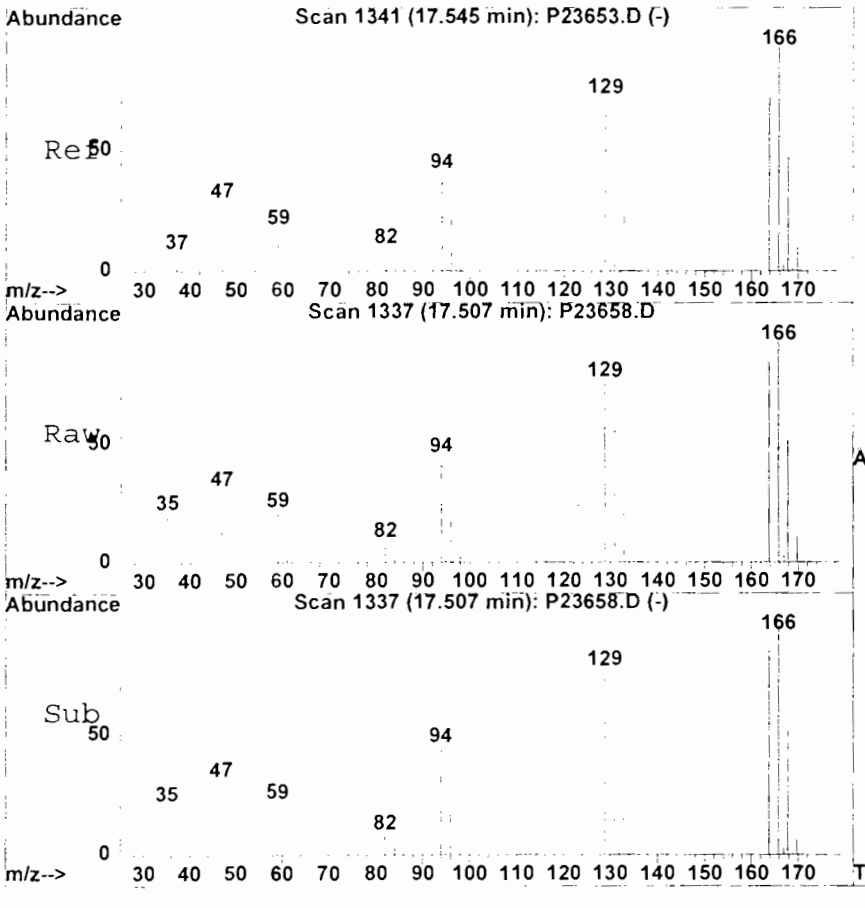


#32
Trichloroethene
Concen: 23.16 ug/l
RT: 12.54 min Scan# 833
Delta R.T. -0.07 min
Lab File: P23658.D
Acq: 22 May 2003 17:55

Tgt Ion:130 Resp: 60383

Ion	Ratio	Lower	Upper
130	100		
132	99.3	79.2	119.2
95	96.0	75.7	115.7

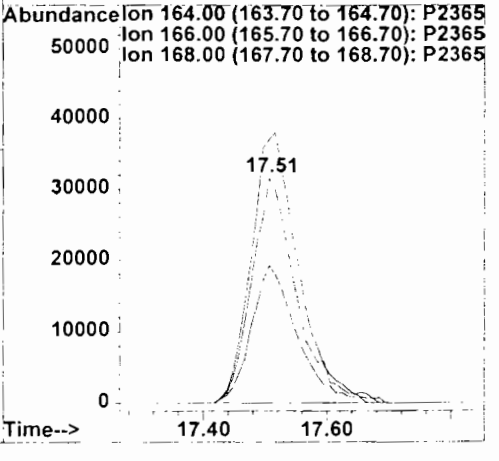




#43
Tetrachloroethene
Concen: 56.94 ug/l
RT: 17.51 min Scan# 1337
Delta R.T. -0.04 min
Lab File: P23658.D
Acq: 22 May 2003 17:55

Tgt Ion:164 Resp: 158552

Ion	Ratio	Lower	Upper
164	100		
166	127.9	113.2	153.2
168	62.4	42.9	82.9



ANSON014 V25

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

P3

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23657.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

P3

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23657.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

P3

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23657.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

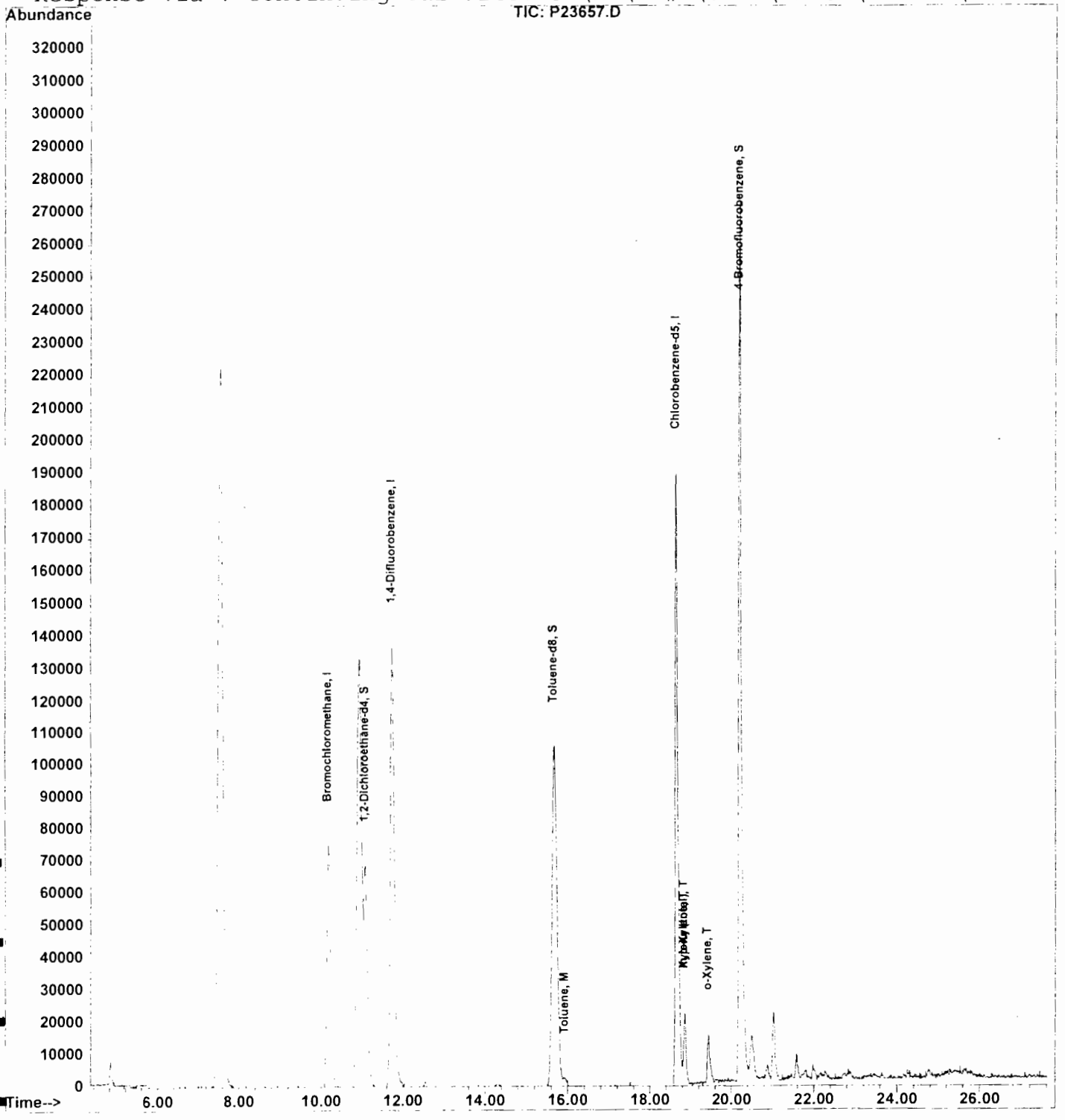
Number TICs found: 3 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	7.56	190	NJ
2.	unknown	10.93	110	J
3.	Benzene, trimethyl- isomer	21.03	5	J

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23657.D Vial: 5
Acq On : 22 May 2003 17:20 Operator: BBL
Sample : 0305404-002A Inst : H5970-3
Misc : ANSSON014,P3,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: lscint.P
Quant Time: May 27 13:43 2003 Quant Results File: OLMW328.RES

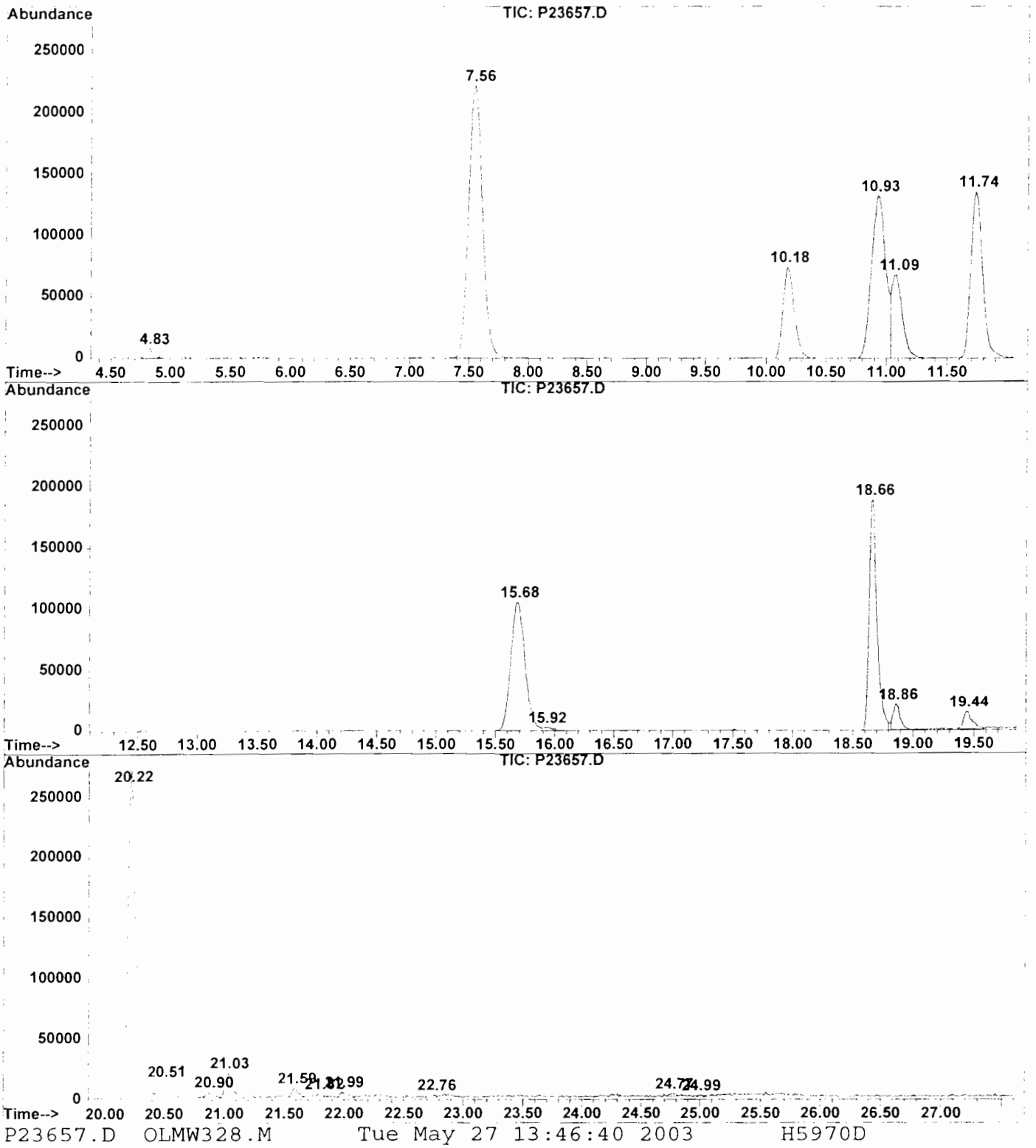
Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: O:\MS\HP#3\DATA\MAY03\052203\P23653.D



ANSON014 V29

LSC Report - Integrated Chromatogram

File : O:\MS\HP#3\DATA\MAY03\052203\P23657.D
Operator : BBL
Acquired : 22 May 2003 17:20 using AcqMethod OLMW328
Instrument : H5970-3
Sample Name: 0305404-002A
Misc Info : ANSSON014,P3,H2O,SAMP,,
Vial Number: 5
Quant File :OLMW328.RES (RTE Integrator)



P23657.D OLMW328.M Tue May 27 13:46:40 2003 H5970D

ANSON014 V30

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23657.D Vial: 5
Acq On : 22 May 2003 17:20 Operator: BBL
Sample : 0305404-002A Inst : H5970-3
Misc : ANSSON014,P3,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: lscint.P
Quant Time: May 27 13:43 2003 Quant Results File: OLMW328.RES

Quant Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: O:\MS\HP#3\DATA\MAY03\052203\P23653.D
DataAcq Meth : OLMW328

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.18	128	75173	50.00	ug/l	-0.06
24) 1,4-Difluorobenzene	11.74	114	350026	50.00	ug/l	-0.05
40) Chlorobenzene-d5	18.66	117	261984	50.00	ug/l	-0.04
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	11.09	65	172931	48.50	ug/l	-0.04
Spiked Amount 50.000	Range 76 - 114		Recovery = 97.00%			
46) Toluene-d8	15.68	98	329202	49.57	ug/l	-0.04
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.14%			
50) 4-Bromofluorobenzene	20.22	95	274935	54.07	ug/l	-0.05
Spiked Amount 50.000	Range 86 - 115		Recovery = 108.14%			
Target Compounds						Qvalue
47) Toluene	15.96	91	7757	1.37	ug/l #	69
52) m,p-Xylene	18.87	106	13648	5.62	UG/L	99
53) o-Xylene	19.43	106	9327	3.86	UG/L #	81
54) Xylene (total)	18.87	106	22976m	9.52	ug/l	

hw 5/27/03

ANSON014 V31

(#) = qualifier out of range (m) = manual integration

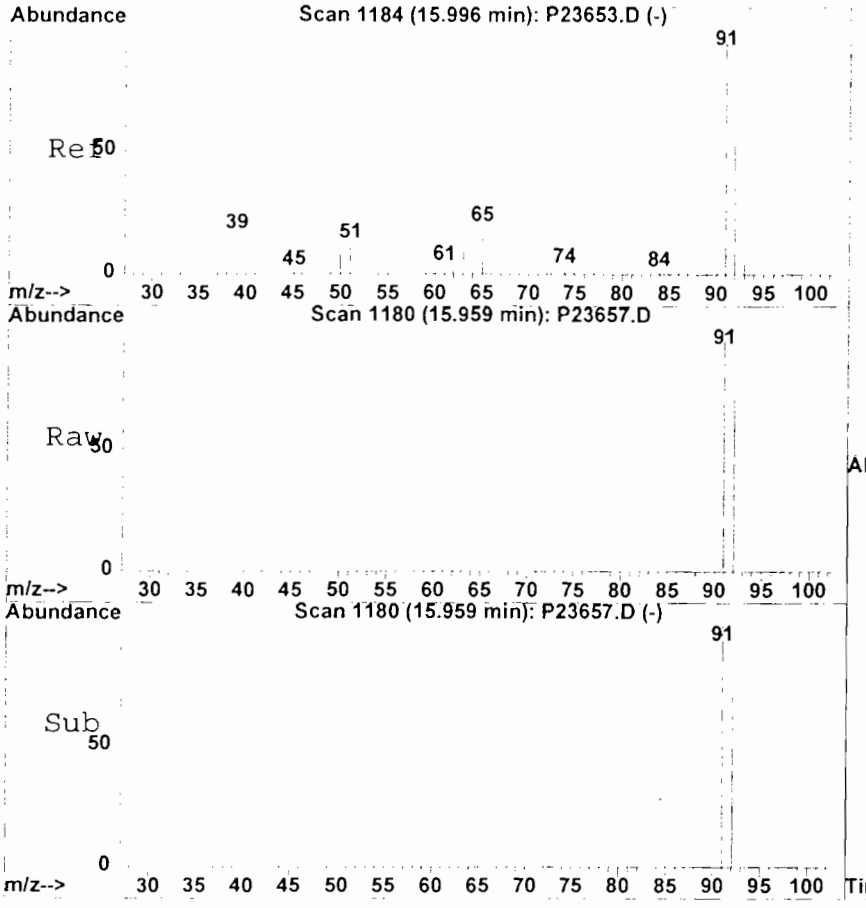
Tentatively Identified Compound (LSC) summary

Operator ID: BBL Date Acquired: 22 May 2003 17:20
Data File: O:\MS\HP#3\DATA\MAY03\052203\P23657.D
Name: 0305404-002A
[illegible]c: ANSSON014,P3,H2O,SAMP,,
[illegible]hod: O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title: CLP OLM 04.1
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Propane, 2-methoxy-2	7.56	185.8	ug/l	1792460	ISTD01	10.18	482470	50.0
2-Methyl-5-hexen-3-o	10.93	114.1	ug/l	1101450	ISTD01	10.18	482470	50.0
Benzene, 1,2,4-trime	21.03	5.3	ug/l	91878	ISTD03	18.66	871259	50.0

P23657.D OLMW328.M Tue May 27 13:46:42 2003 H5970D

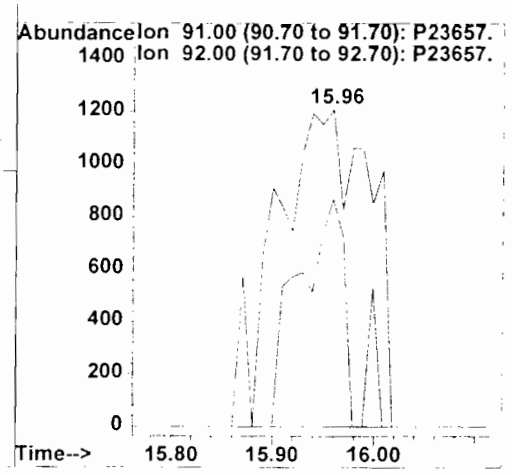
ANSON014 V32

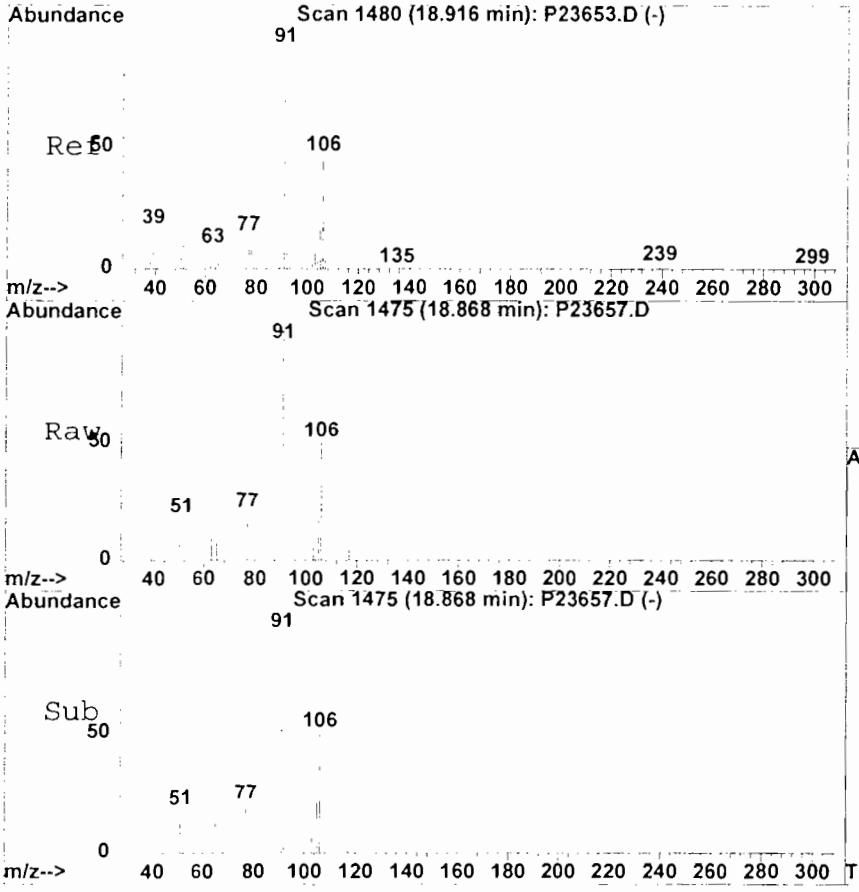


#47
Toluene
Concen: 1.37 ug/l
RT: 15.96 min Scan# 1180
Delta R.T. -0.04 min
Lab File: P23657.D
Acq: 22 May 2003 17:20

Tgt Ion: 91 Resp: 7757

Ion	Ratio	Lower	Upper
91	100		
92	34.7	37.6	77.6#

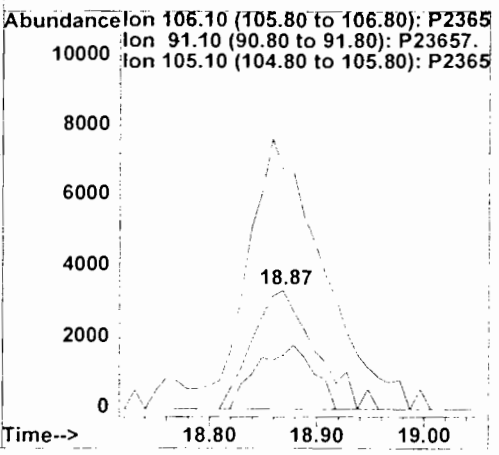




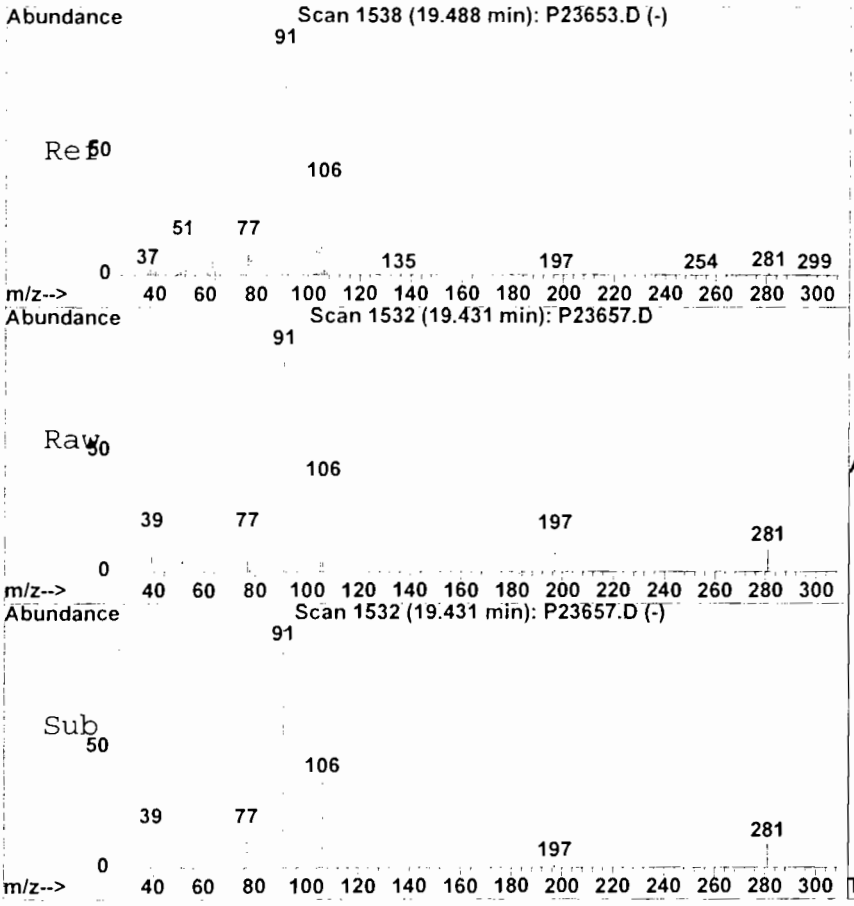
#52
m,p-Xylene
Concen: 5.62 UG/L
RT: 18.87 min Scan# 1475
Delta R.T. -0.05 min
Lab File: P23657.D
Acq: 22 May 2003 17:20

Tgt Ion:106 Resp: 13648

Ion	Ratio	Lower	Upper
106	100		
91	274.3	254.5	294.5
105	48.1	26.1	66.1



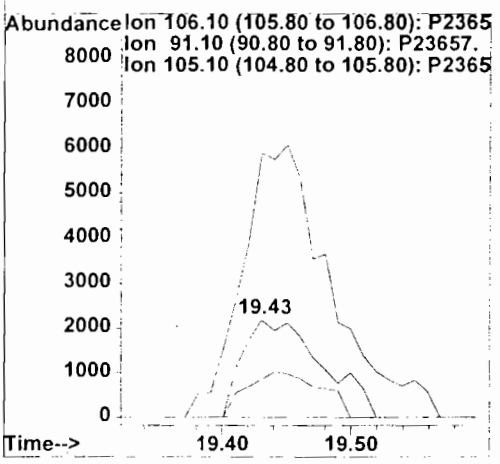
ANSON014 V33

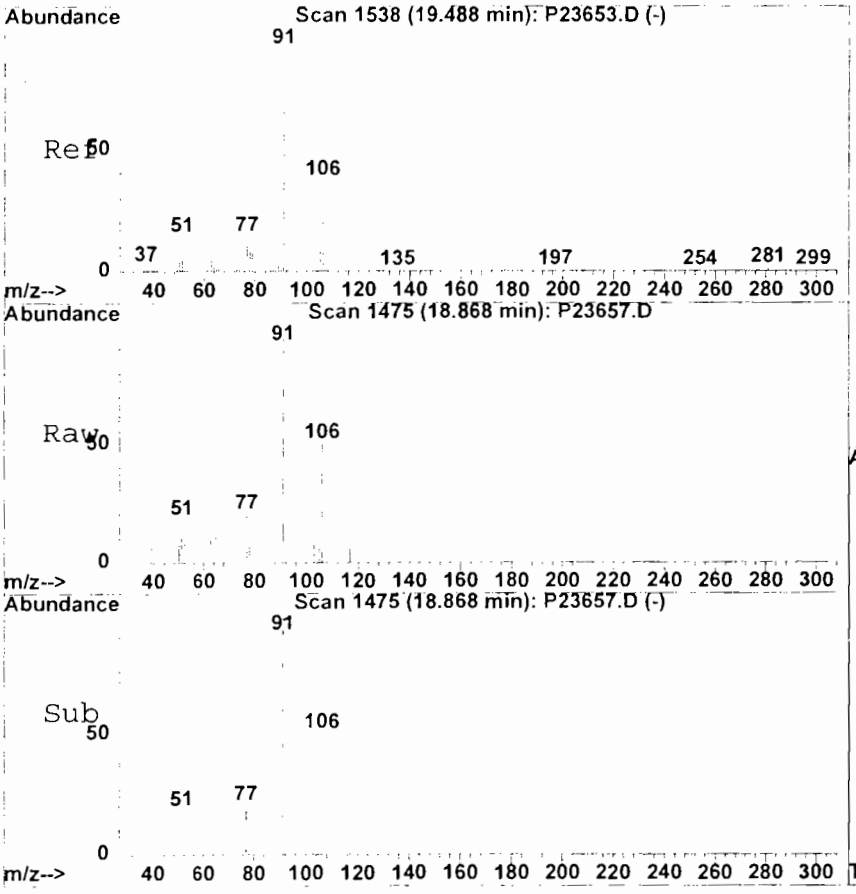


#53
o-Xylene
Concen: 3.86 UG/L
RT: 19.43 min Scan# 1532
Delta R.T. -0.06 min
Lab File: P23657.D
Acq: 22 May 2003 17:20

Tgt Ion:106 Resp: 9327

Ion	Ratio	Lower	Upper
106	100		
91	310.3	258.2	298.2#
105	43.6	42.4	82.4

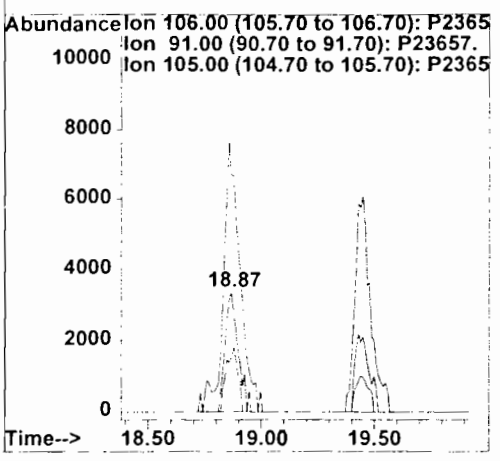




#54
Xylene (total)
Concen: 9.52 ug/l m
RT: 18.87 min Scan# 1475
Delta R.T. -0.62 min
Lab File: P23657.D
Acq: 22 May 2003 17:20

Tgt Ion:106 Resp: 22976

Ion	Ratio	Lower	Upper
106	100		
91	285.2	248.3	288.3
105	46.3	28.5	68.5



ANSON014 V34

Library Search Compound Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23657.D Vial: 5
Acq On : 22 May 2003 17:20 Operator: BBL
Sample : 0305404-002A Inst : H5970-3
Misc : ANSSON014,P3,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: LSCINT.P

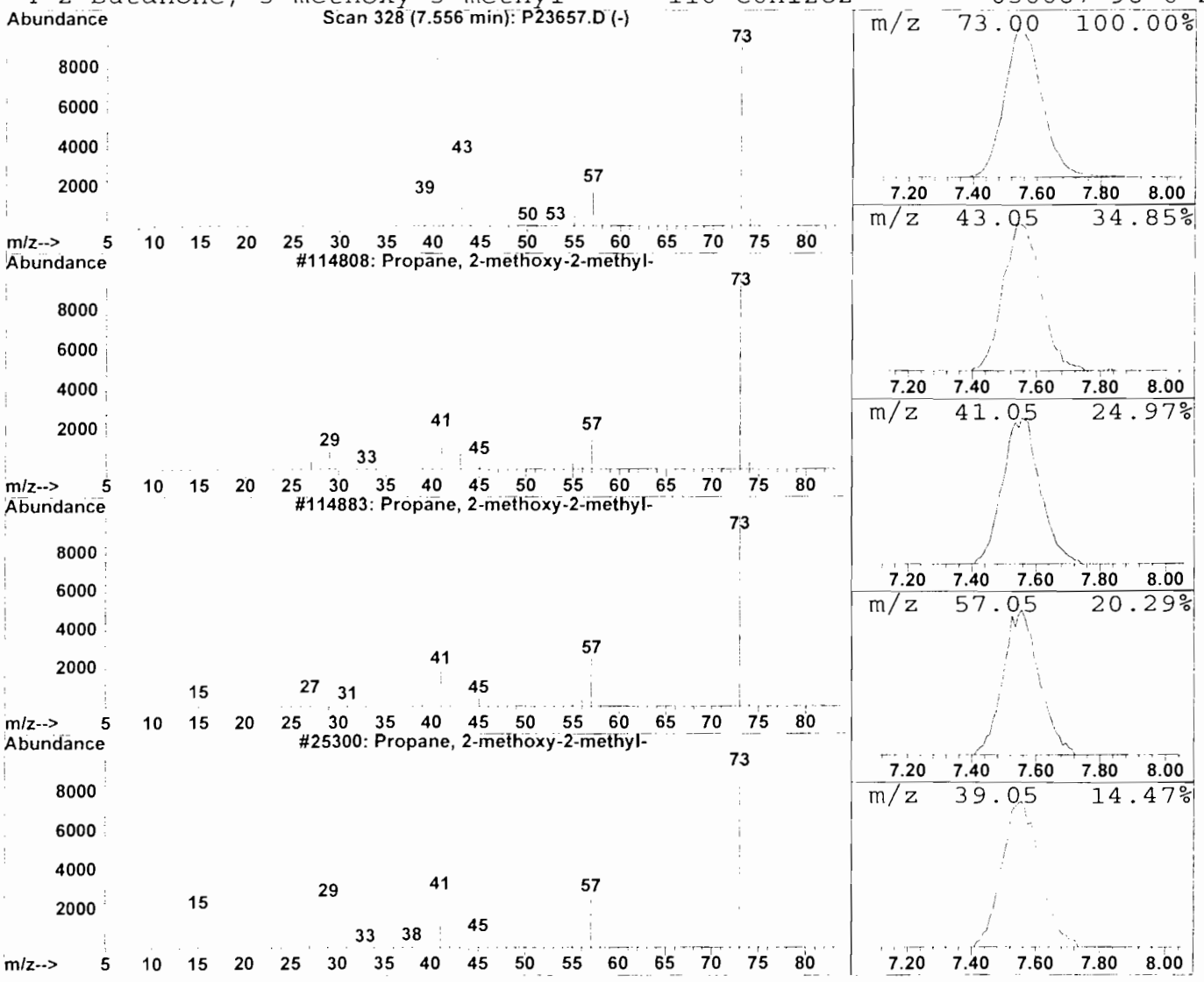
Quant Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 Propane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.56	185.76 ug/l	1792460	Bromochloromethane	10.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2-methoxy-2-methyl-	88	C5H12O	001634-04-4	50
2	Propane, 2-methoxy-2-methyl-	88	C5H12O	001634-04-4	9
3	Propane, 2-methoxy-2-methyl-	88	C5H12O	001634-04-4	64
4	2-Butanone, 3-methoxy-3-methyl-	116	C6H12O2	036687-98-6	2



ANSON014 V35

Library Search Compound Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23657.D Vial: 5
Acq On : 22 May 2003 17:20 Operator: BBL
Sample : 0305404-002A Inst : H5970-3
Misc : ANSSON014,P3,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: LSCINT.P

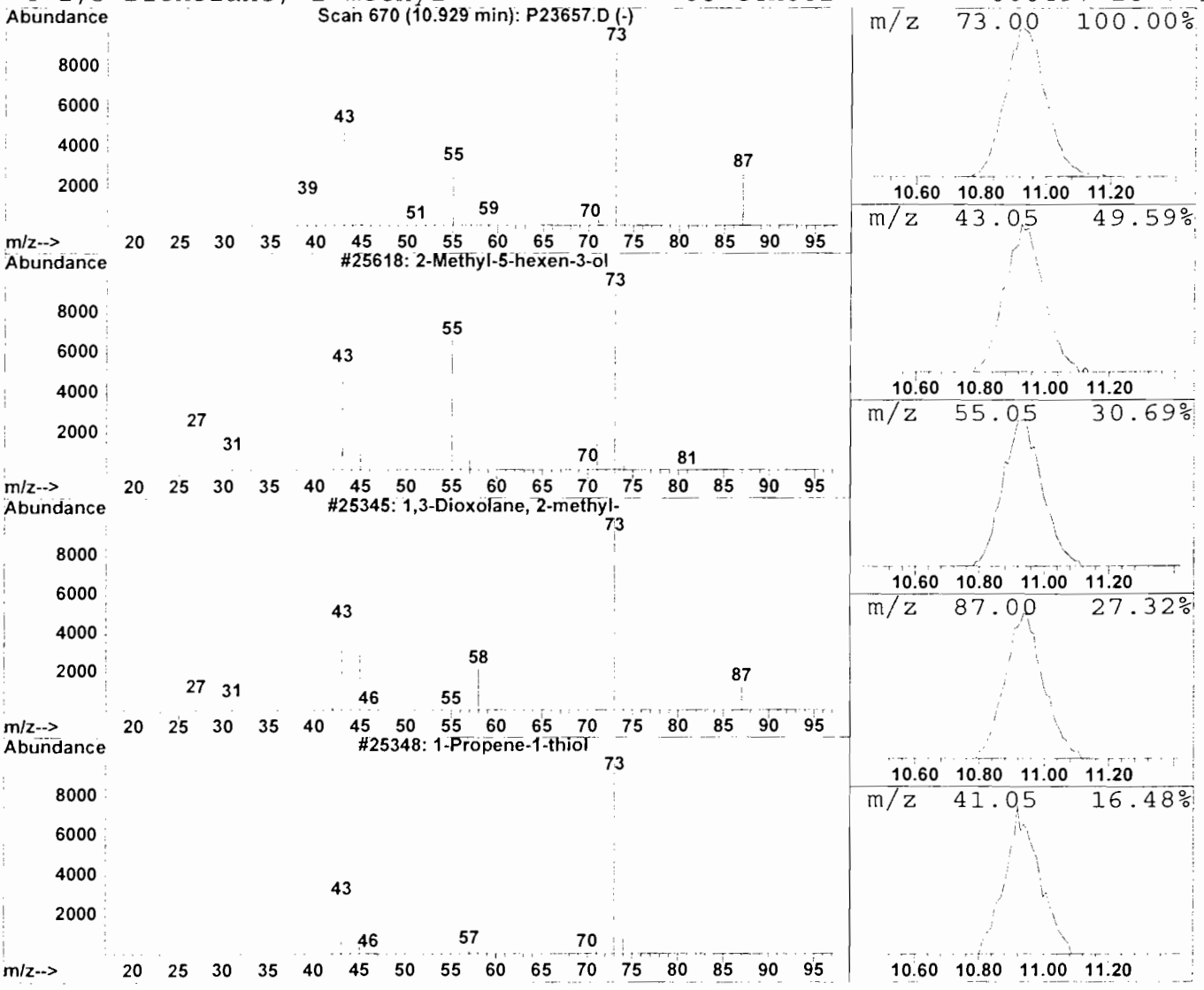
Quant Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Library : C:\DATABASE\NIST98.L

****

Peak Number 2 2-Methyl-5-hexen-3-ol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.93	114.15 ug/l	1101450	Bromochloromethane	10.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	17
2	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9
3	1-Propene-1-thiol	74	C3H6S	000925-89-3	7
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9



ANSON014 V36

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23657.D Vial: 5
Acq On : 22 May 2003 17:20 Operator: BBL
Sample : 0305404-002A Inst : H5970-3
Misc : ANSSON014,P3,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: LSCINT.P

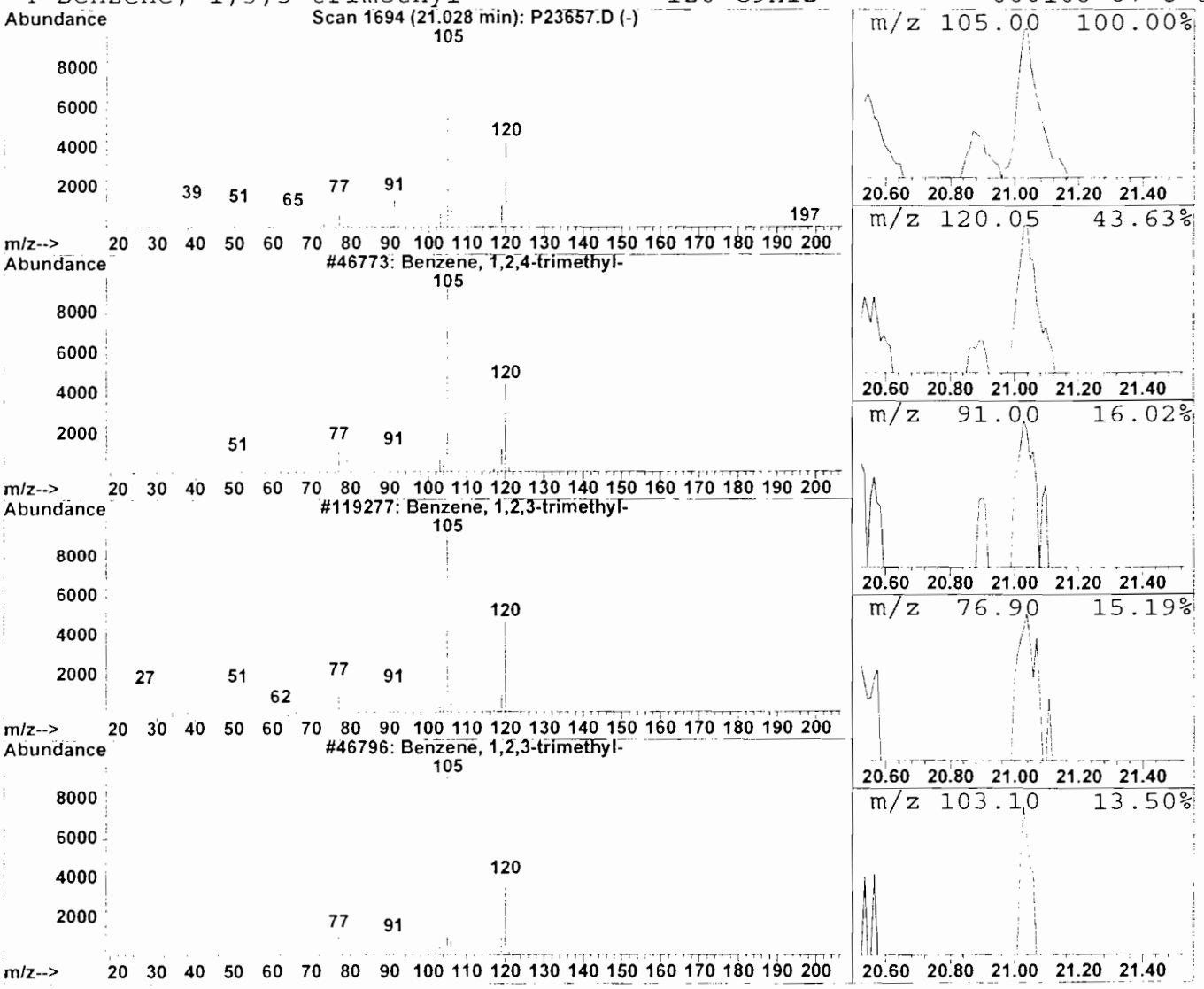
Quant Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Library : C:\DATABASE\NIST98.L

****

Peak Number 3 Benzene, 1,2,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.03	5.27 ug/l	91878	Chlorobenzene-d5	18.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	86
2	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	80
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	86
4	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	80



ANSON014 V37

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK 5/14

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23659.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK 5/14

Lab Name: H2M LABS, INC Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23659.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK 5/14

Lab Name H2M LABS. INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23659.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

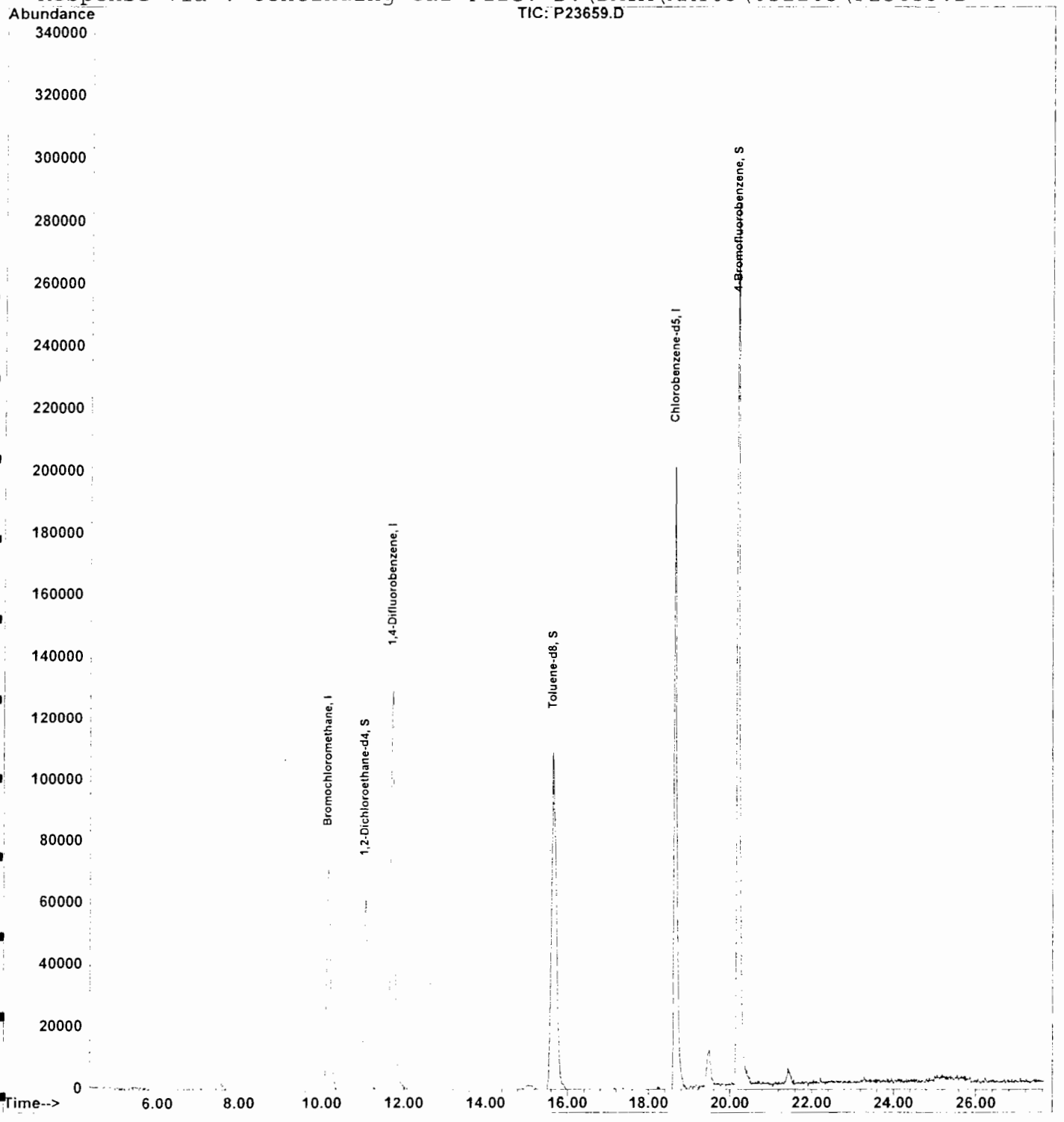
CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

ANSON014 V40

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23659.D Vial: 7
Acq On : 22 May 2003 18:32 Operator: BBL
Sample : 0305404-003A Inst : H5970-3
Misc : ANSSON014,TRIP BLANK5/14,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 12:58 2003 Quant Results File: OLMW328.RES

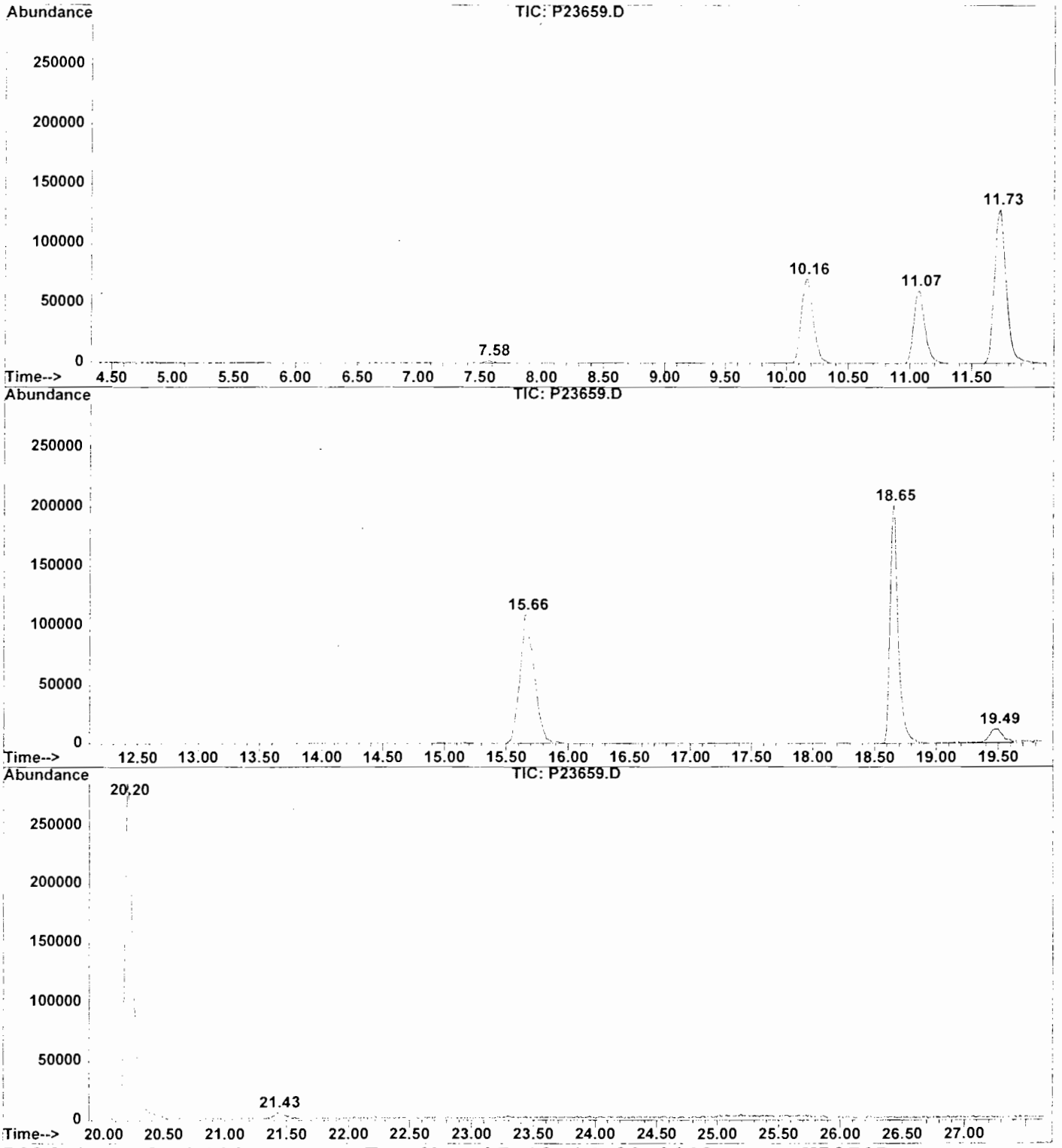
Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D



ANSON014 V41

LSC Report - Integrated Chromatogram

File : O:\MS\HP#3\DATA\MAY03\052203\P23659.D
Operator : BBL
Acquired : 22 May 2003 18:32 using AcqMethod OLMW328
Instrument : H5970-3
Sample Name: 0305404-003A
Misc Info : ANSSON014,TRIP BLANK5/14,H2O,SAMP,,
Vial Number: 7
Quant File :OLMW328.RES (RTE Integrator)



P23659.D OLMW328.M Tue May 27 13:47:08 2003 H5970D

ANSON014 V42

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23659.D Vial: 7
Acq On : 22 May 2003 18:32 Operator: BBL
Sample : 0305404-003A Inst : H5970-3
Misc : ANSSON014,TRIP BLANK5/14,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 12:58 2003 Quant Results File: OLMW328.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Sun May 18 18:09:20 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D
DataAcq Meth : OLMW328

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.15	128	75495	50.00	ug/l	-0.08
24) 1,4-Difluorobenzene	11.72	114	336954	50.00	ug/l	-0.06
40) Chlorobenzene-d5	18.65	117	273443	50.00	ug/l	-0.05
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	11.08	65	170831	47.71	ug/l	-0.04
Spiked Amount 50.000	Range 76 - 114		Recovery = 95.42%			
46) Toluene-d8	15.65	98	329570	47.55	ug/l	-0.07
Spiked Amount 50.000	Range 88 - 110		Recovery = 95.10%			
50) 4-Bromofluorobenzene	20.20	95	284650	53.64	ug/l	-0.07
Spiked Amount 50.000	Range 86 - 115		Recovery = 107.28%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

ANSON014 V43

Tentatively Identified Compound (LSC) summary

Operator ID: BBL Date Acquired: 22 May 2003 18:32
Data File: O:\MS\HP#3\DATA\MAY03\052203\P23659.D
Name: 0305404-003A
c: ANSSON014,TRIP BLANK5/14,H2O,SAMP,,
Method: C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title: CLP OLM 04.1
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

P23659.D OLMW328.M Tue May 27 13:47:08 2003 H5970D

ANSON014 V44

H2M LABS, INC.

III. STANDARD DATA PACKAGE FOR VOLATILE ORGANICS

A. INITIAL CALIBRATION FORM
B. STANDARD GC/MS CHROMATOGRAMS
C. DATA SYSTEM REPORT
D. CONTINUING CALIBRATION FORM
E. STANDARD GC/MS CHROMATOGRAMS
F. DATA SYSTEM REPORT

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON014

Instrument ID: HP5970-3 Calibration Date(s): 03/28/03 03/28/03

Heated Purge: (Y/N) N Calibration Times: 12:52 16:53

GC Column: R-502.2 ID: .53 (mm)

LAB FILE ID: VSTD010 P23001.D VSTD020 P23004.D
VSTD050 P22999.D VSTD100 P23002.D VSTD200 P23003.D

COMPOUND		VSTD010	VSTD020	VSTD050	VSTD100	VSTD200	RRF	% RSD	
Chloromethane		0.574	0.516	0.499	0.369	0.373	0.466	19.6	
Bromomethane	*	0.970	0.912	0.823	0.714	0.805	0.845	11.7	*
Vinyl chloride	*	0.833	0.736	0.682	0.529	0.575	0.671	18.3	*
Chloroethane		0.588	0.556	0.519	0.403	0.435	0.500	15.7	
Methylene chloride		1.199	1.029	1.416	0.935	0.914	1.099	19.1	
Acetone		0.429	0.678	0.355	0.352	0.387	0.440	31.0	
1,1-Dichloroethene	*	1.114	0.985	1.208	0.930	0.857	1.019	13.9	*
Carbon disulfide		2.513	2.115	2.813	2.111	2.057	2.322	14.2	
1,1-Dichloroethane	*	2.859	2.374	3.159	2.357	2.264	2.602	14.9	*
1,2-Dichloroethene (total)		1.518	1.313	1.593	1.175	1.123	1.344	15.4	
Chloroform	*	4.019	3.674	4.561	3.516	3.307	3.815	12.9	*
Methyl tert-butyl ether		4.616	4.036	5.223	3.828	3.587	4.258	15.5	
1,2-Dichloroethane	*	3.438	3.305	3.861	2.984	2.737	3.265	13.2	*
2-Butanone		0.537	0.810	0.445	0.486	0.549	0.566	25.3	
trans-1,2-Dichloroethene		1.421	1.192	1.461	1.074	1.023	1.234	16.1	
1,1,1-Trichloroethane	*	0.938	0.864	1.038	0.866	0.748	0.891	12.0	*
Carbon tetrachloride	*	0.906	0.888	0.999	0.836	0.725	0.871	11.5	*
Bromodichloromethane	*	1.033	0.854	1.088	0.870	0.770	0.923	14.4	*
1,2-Dichloropropane		0.330	0.298	0.355	0.271	0.235	0.298	15.9	
cis-1,2-Dichloroethene		1.524	1.347	1.666	1.218	1.170	1.385	15.0	
cis-1,3-Dichloropropene	*	0.663	0.563	0.709	0.545	0.478	0.591	15.8	*
Trichloroethene	*	0.445	0.398	0.468	0.362	0.317	0.398	15.4	*
Dibromochloromethane	*	0.964	0.800	0.976	0.806	0.708	0.851	13.6	*
1,1,2-Trichloroethane	*	0.420	0.338	0.434	0.330	0.285	0.361	17.6	*
Benzene	*	0.723	0.648	0.782	0.610	0.535	0.660	14.6	*
trans-1,3-Dichloropropene	*	0.621	0.537	0.681	0.541	0.477	0.571	14.0	*
Bromoform	*	0.749	0.704	0.835	0.675	0.585	0.710	13.0	*
4-Methyl-2-pentanone		0.588	0.821	0.458	0.483	0.506	0.571	25.9	
2-Hexanone		0.444	0.607	0.294	0.309	0.324	0.396	33.4	
Tetrachloroethene	*	0.730	0.664	0.814	0.576	0.502	0.657	18.8	*
1,1,2,2-Tetrachloroethane	*	0.814	0.827	0.833	0.653	0.566	0.739	16.5	*
Toluene	*	1.536	1.343	1.576	1.241	1.072	1.353	15.5	*
Chlorobenzene	*	1.127	1.046	1.219	0.948	0.856	1.039	13.8	*
Ethylbenzene	*	0.369	0.397	0.414	0.343	0.296	0.364	12.7	*
Styrene	*	0.875	0.874	0.980	0.802	0.706	0.847	12.0	*
Xylene (total)	*	0.558	0.522	0.620	0.496	0.441	0.528	12.7	*

6B

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON014

Instrument ID: HP5970-3 Calibration Date(s): 03/28/03 03/28/03

Heated Purge: (Y/N) N Calibration Times: 12:52 16:53

GC Column: R-502.2 ID: .53 (mm)

LAB FILE ID: VSTD010 P23001.D VSTD020 P23004.D
VSTD050 P22999.D VSTD100 P23002.D VSTD200 P23003.D

COMPOUND		VSTD010	VSTD020	VSTD050	VSTD100	VSTD200	RRF	% RSD	
m,p-Xylene	*	0.547	0.570	0.647	0.487	0.447	0.540	14.3	*
o-Xylene	*	0.558	0.522	0.620	0.496	0.441	0.528	12.7	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6B

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON014

Instrument ID: HP5970-3 Calibration Date(s): 03/28/03 03/28/03

Heated Purge: (Y/N) N Calibration Times: 12:52 16:53

GC Column: R-502.2 ID: .53 (mm)

LAB FILE ID: VSTD010 P23001.D VSTD020 P23004.D
VSTD050 P22999.D VSTD100 P23002.D VSTD200 P23003.D

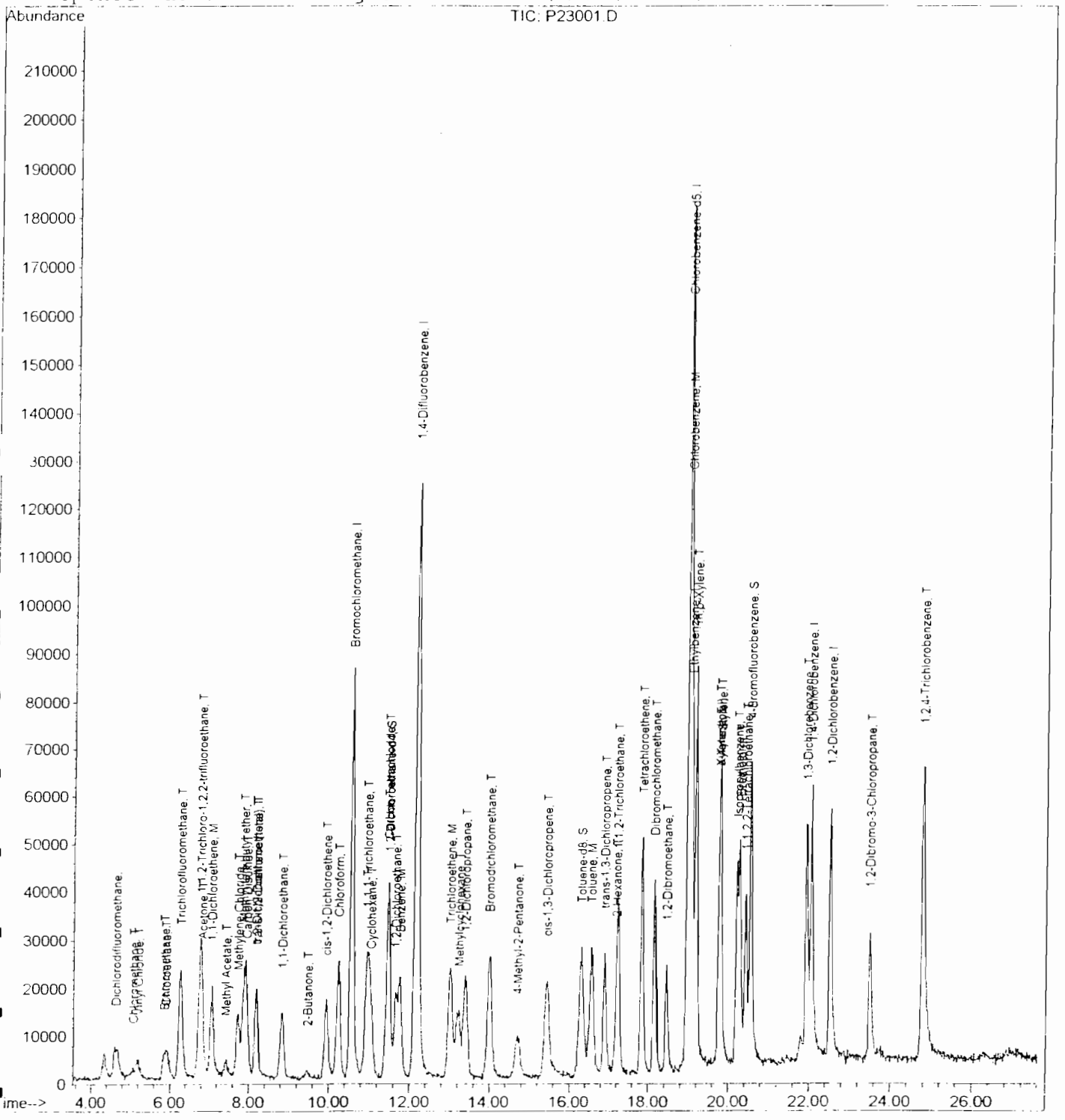
COMPOUND	VSTD010	VSTD020	VSTD050	VSTD100	VSTD200	$\overline{RRF}$	% RSD	
1,2-Dichloroethane-d4	3.324	2.948	2.509	2.736	2.614	2.826	11.4	
Toluene-d8	1.737	1.405	1.288	1.375	1.267	1.414	13.4	
4-Bromofluorobenzene *	1.294	1.092	0.973	1.074	0.967	1.080	12.3	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23001.D Vial: 11
Acq On : 28 Mar 2003 15:09 Operator:
Sample : VSTD010 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 16:42 2003 Quant Results File: OLMW0208.RES

Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Fri Mar 28 17:21:54 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D



ANSON014 V49

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23001.D Vial: 11
Acq On : 28 Mar 2003 15:09 Operator:
Sample : VSTD010 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 16:42 2003 Quant Results File: OLMW0208.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW0208.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Thu Mar 27 19:41:41 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D
DataAcq Meth : OLMW0208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.57	128	69495	50.00	ug/l	-0.08
24) 1,4-Difluorobenzene	12.17	114	305434	50.00	ug/l	-0.08
40) Chlorobenzene-d5	18.96	117	222291	50.00	ug/l	-0.07
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	11.49	65	46194	13.17	ug/l	-0.09
Spiked Amount 50.000	Range 76 - 114		Recovery = 26.34%#			
46) Toluene-d8	16.30	98	77233	13.20	ug/l	-0.08
Spiked Amount 50.000	Range 88 - 110		Recovery = 26.40%#			
50) 4-Bromofluorobenzene	20.55	95	57525	12.55	ug/l	-0.06
Spiked Amount 50.000	Range 86 - 115		Recovery = 25.10%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.63	85	29077	12.94	ug/l #	96
3) Chloromethane	5.07	50	7980	15.72	ug/l	70
4) Bromomethane	5.84	94	13476	15.51	ug/l	97
5) Vinyl Chloride	5.21	62	11582	15.19	ug/l	78
6) Chloroethane	5.90	64	8170m	13.45	ug/l	
7) Methylene Chloride	7.73	84	16668	12.03	ug/l	97
8) Acetone	6.84	43	5968	12.08	ug/l	88
9) Carbon Disulfide	7.94	76	34928	11.06	ug/l	99
10) Methyl Acetate	7.44	43	11420	13.97	ug/l #	86
11) 1,1-Dichloroethene	7.08	96	15486	10.98	ug/l	95
12) 1,1-Dichloroethane	8.83	63	39732	11.32	ug/l	98
13) Methyl tert-butyl ether	7.88	73	64153	11.25	UG/L	99
14) Trichlorofluoromethane	6.26	101	70520	12.75	UG/L	97
15) 1,1,2-Trichloro-1,2,2-trif	6.77	101	38536	10.44	UG/L	98
17) trans-1,2-Dichloroethene	8.17	96	19749	12.36	UG/L	90
18) cis-1,2-Dichloroethene	9.94	96	21184	11.78	UG/L	95
19) 1,2-Dichloroethene (total)	8.17	96	42204m	24.05	ug/l	
20) 2-Butanone	9.47	43	7466	12.50	UG/L	77
21) Chloroform	10.24	83	55855	10.67	ug/l	98
23) 1,2-Dichloroethane	11.65	62	47781	10.43	ug/l	99
25) 1,1,1-Trichloroethane	10.93	97	57317	10.52	ug/l	98
26) Cyclohexane	11.04	56	16790	9.71	ug/l #	59
27) Carbon Tetrachloride	11.47	117	55352	12.59	ug/l	96
29) Bromodichloromethane	14.00	83	63113	11.89	ug/l	97
30) 1,2-Dichloropropane	13.38	63	20158	11.46	ug/l	95
31) cis-1,3-Dichloropropene	15.43	75	40472	12.23	ug/l	95
) Trichloroethene	13.01	130	27203	11.11	ug/l	98
3) Methylcyclohexane	13.23	83	18033	10.04	ug/l #	18

(#) = qualifier out of range (m) = manual integration

ANSON014 V50

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23001.D Vial: 11
Acq On : 28 Mar 2003 15:09 Operator:
Sample : VSTD010 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 16:42 2003 Quant Results File: OLMW0208.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW0208.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Thu Mar 27 19:41:41 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D
DataAcq Meth : OLMW0208

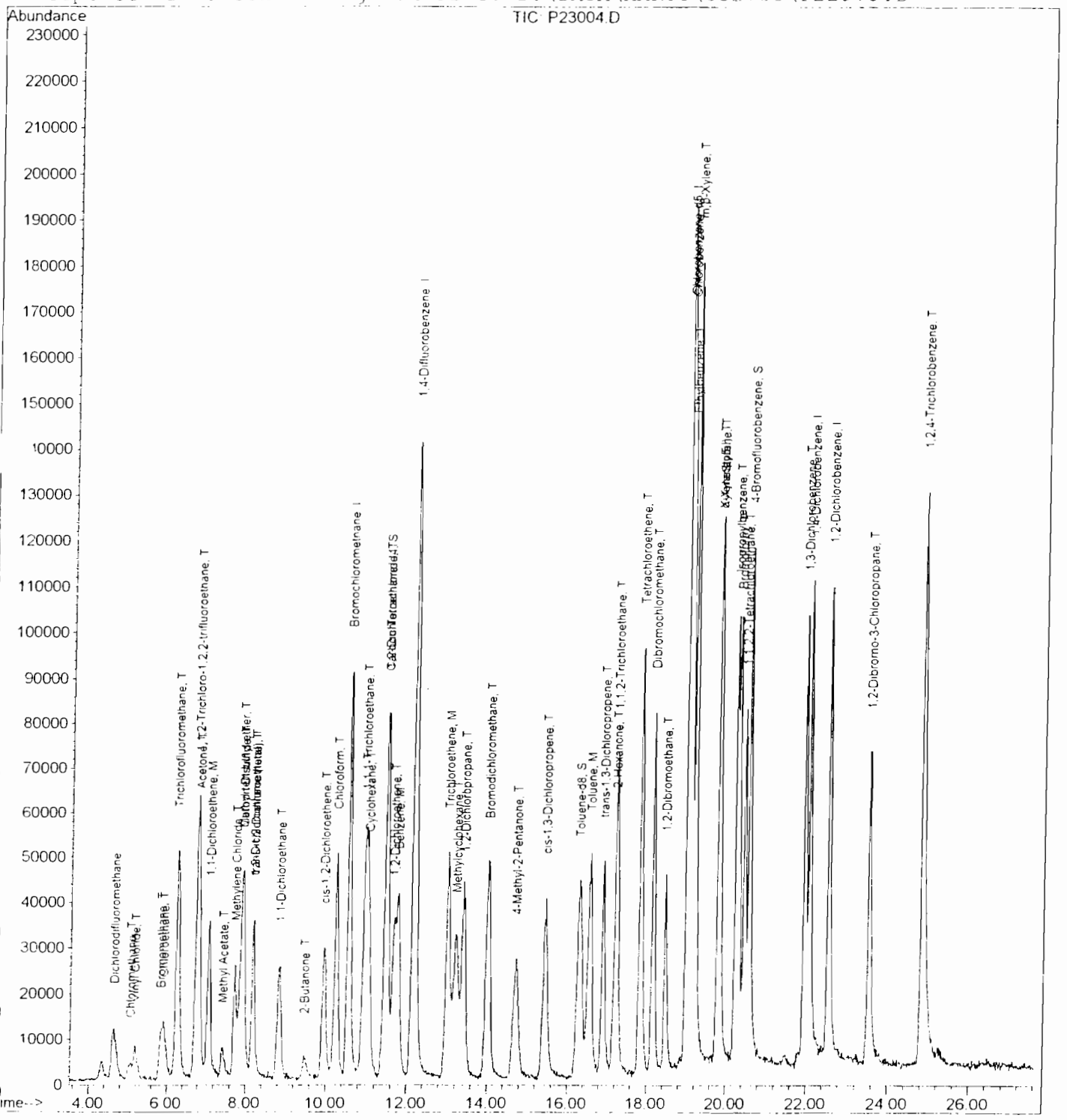
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
34)	Benzene	11.75	78	44188	11.55 ug/l		99
35)	Dibromochloromethane	18.14	129	58863	11.99 ug/l		97
36)	1,2-Dibromoethane	18.45	107	37287	12.34 ug/l		96
37)	trans-1,3-Dichloropropene	16.90	75	37916	11.79 ug/l		98
38)	1,1,2-Trichloroethane	17.22	97	25678	12.60 ug/l		97
39)	Bromoform	20.28	173	45780	10.70 ug/l		98
41)	4-Methyl-2-Pentanone	14.72	43	26150	12.33 ug/l		91
42)	2-Hexanone	17.18	43	19732	14.74 ug/l	#	76
43)	Tetrachloroethene	17.84	164	32434	11.30 ug/l		97
44)	Isopropylbenzene	20.20	105	69491	9.00 ug/l		96
45)	1,1,2,2-Tetrachloroethane	20.42	83	36200	11.58 ug/l		97
47)	Toluene	16.54	91	68287	11.44 ug/l		98
48)	Chlorobenzene	19.02	112	50109	10.92 ug/l		99
9)	Ethylbenzene	19.07	106	16426m	10.13 ug/l		
1)	Styrene	19.80	104	38911	10.42 ug/l		93
52)	m,p-Xylene	19.17	106	48617	19.85 UG/L		95
53)	o-Xylene	19.75	106	24801	10.70 UG/L		91
54)	Xylene (total)	19.75	106	24801	10.70 ug/l		91
55)	1,3-Dichlorobenzene	21.92	146	47857	10.21 ug/l		99
56)	1,4-Dichlorobenzene	22.04	146	60250	10.75 ug/l		91
57)	1,2-Dichlorobenzene	22.51	146	57005	11.25 ug/l		97
58)	1,2-Dibromo-3-Chloropropan	23.50	75	23518	17.75 ug/l		94
59)	1,2,4-Trichlorobenzene	24.79	180	70389	18.42 ug/l		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23004.D Vial: 14
Acq On : 28 Mar 2003 16:53 Operator:
Sample : VSTD020 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 16:21 2003 Quant Results File: OLMW0208.RES

Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Fri Mar 28 17:21:54 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D



ANSON014 V52

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23004.D Vial: 14
Acq On : 28 Mar 2003 16:53 Operator:
Sample : VSTD020 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 18:21 2003 Quant Results File: OLMW0208.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW0208.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Thu Mar 27 19:41:41 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D
DataAcq Meth : OLMW0208

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	10.56	128	74757	50.00 ug/l	-0.09
24) 1,4-Difluorobenzene	12.17	114	338965	50.00 ug/l	-0.08
40) Chlorobenzene-d5	18.99	117	233597	50.00 ug/l	-0.04
System Monitoring Compounds					
22) 1,2-Dichloroethane-d4	11.49	65	88163	23.37 ug/l	-0.09
Spiked Amount 50.000	Range 76 - 114		Recovery =	46.74%#	
46) Toluene-d8	16.29	98	131325	21.37 ug/l	-0.09
Spiked Amount 50.000	Range 88 - 110		Recovery =	42.74%#	
50) 4-Bromofluorobenzene	20.57	95	102039	21.18 ug/l	-0.04
Spiked Amount 50.000	Range 86 - 115		Recovery =	42.36%#	
Target Compounds					Qvalue
3) Dichlorodifluoromethane	4.64	85	47368	19.59 ug/l #	93
3) Chloromethane	5.08	50	15442	28.27 ug/l	93
4) Bromomethane	5.83	94	27263	29.17 ug/l	98
5) Vinyl Chloride	5.18	62	22022	26.86 ug/l	90
6) Chloroethane	5.90	64	16632	25.46 ug/l #	100
7) Methylene Chloride	7.72	84	30764	20.65 ug/l	92
8) Acetone	6.82	43	20281	38.16 ug/l	90
9) Carbon Disulfide	7.93	76	63245	18.62 ug/l	94
10) Methyl Acetate	7.43	43	23201	26.38 ug/l #	90
11) 1,1-Dichloroethene	7.09	96	29447	19.40 ug/l	97
12) 1,1-Dichloroethane	8.83	63	70993	18.80 ug/l	99
13) Methyl tert-butyl ether	7.90	73	120681	19.68 UG/L	99
14) Trichlorofluoromethane	6.26	101	142112	23.88 UG/L	99
15) 1,1,2-Trichloro-1,2,2-trif	6.78	101	83091	20.93 UG/L	99
17) trans-1,2-Dichloroethene	8.19	96	35657	20.74 UG/L	94
18) cis-1,2-Dichloroethene	9.95	96	40279	20.82 UG/L	93
19) 1,2-Dichloroethene (total)	8.19	96	78530m	41.60 ug/l	
20) 2-Butanone	9.48	43	24230	37.72 UG/L	82
21) Chloroform	10.25	83	109853	19.51 ug/l	100
23) 1,2-Dichloroethane	11.65	62	98829	20.06 ug/l	98
25) 1,1,1-Trichloroethane	10.94	97	117139	19.37 ug/l	97
26) Cyclohexane	11.04	56	42299	22.04 ug/l	94
27) Carbon Tetrachloride	11.46	117	120443	24.68 ug/l	97
29) Bromodichloromethane	14.01	83	115809	19.65 ug/l	99
30) 1,2-Dichloropropane	13.42	63	40370	20.69 ug/l	90
31) cis-1,3-Dichloropropene	15.44	75	76296	20.77 ug/l	93
Trichloroethene	13.01	130	53934	19.84 ug/l	99
39) Methylcyclohexane	13.22	83	43656	21.90 ug/l	98

(#) = qualifier out of range (m) = manual integration

ANSON014 V53

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23004.D Vial: 14
Acq On : 28 Mar 2003 16:53 Operator:
Sample : VSTD020 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 18:21 2003 Quant Results File: OLMW0208.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW0208.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Thu Mar 27 19:41:41 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D
DataAcq Meth : OLMW0208

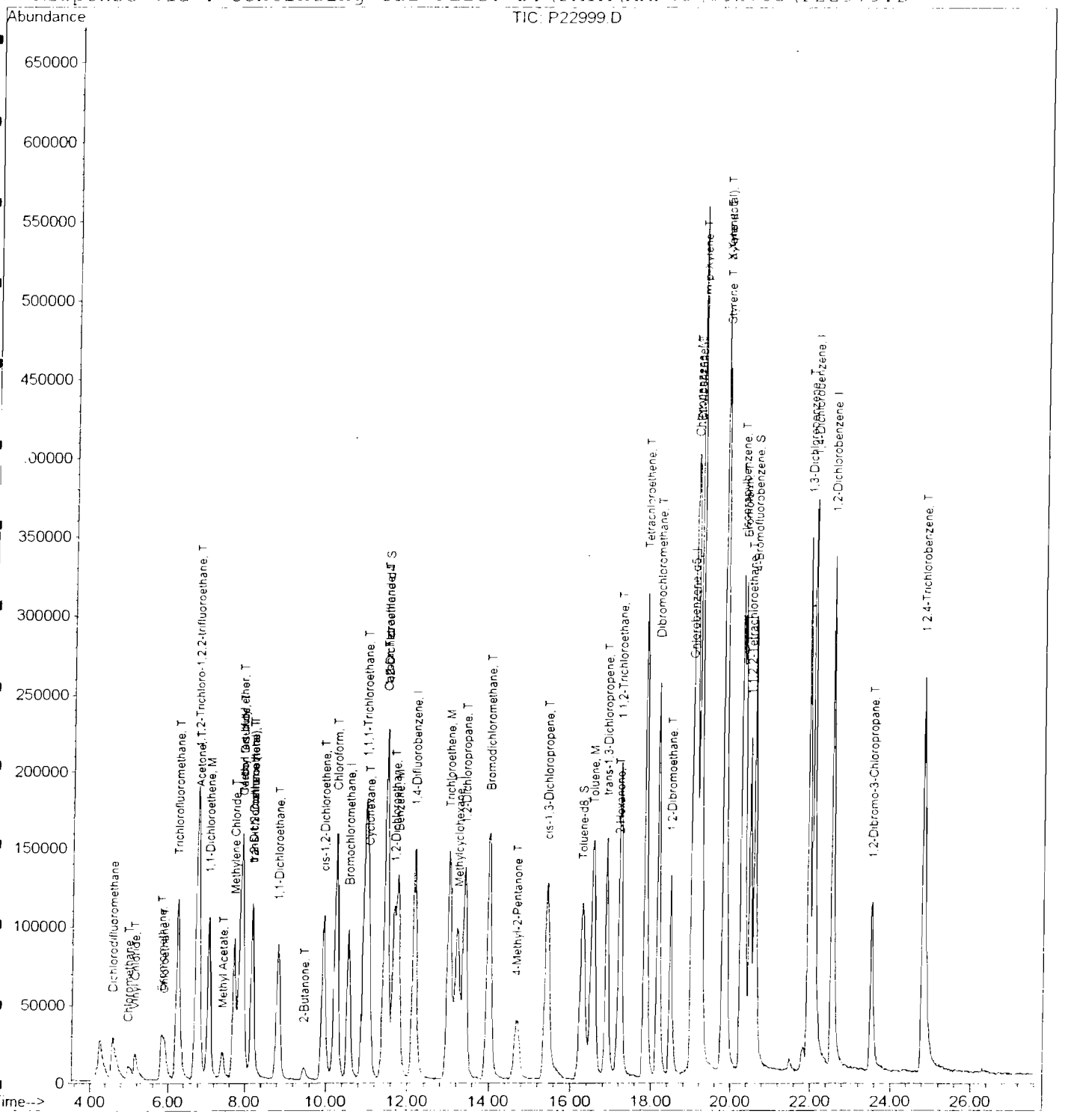
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34)	Benzene	11.76	78	87922	20.72	ug/l	98
35)	Dibromochloromethane	18.15	129	108497	19.92	ug/l	100
36)	1,2-Dibromoethane	18.46	107	76946	22.94	ug/l	95
37)	trans-1,3-Dichloropropene	16.90	75	72817	20.40	ug/l	96
38)	1,1,2-Trichloroethane	17.23	97	45828	20.26	ug/l	98
39)	Bromoform	20.31	173	95426	20.09	ug/l	97
41)	4-Methyl-2-Pentanone	14.71	43	76721	34.42	ug/l	99
42)	2-Hexanone	17.19	43	56718	40.31	ug/l	84
43)	Tetrachloroethene	17.85	164	61999	20.56	ug/l	99
44)	Isopropylbenzene	20.23	105	157249	19.37	ug/l	98
45)	1,1,2,2-Tetrachloroethane	20.45	83	77284	23.53	ug/l	99
47)	Toluene	16.57	91	125453	20.00	ug/l	96
48)	Chlorobenzene	19.04	112	97709	20.26	ug/l	97
9)	Ethylbenzene	19.09	106	37086m	21.76	ug/l	
1)	Styrene	19.82	104	81660	20.80	ug/l	98
52)	m,p-Xylene	19.18	106	106499	41.38	UG/L	95
53)	o-Xylene	19.78	106	48806	20.03	UG/L	96
54)	Xylene (total)	19.78	106	48806	20.03	ug/l	96
55)	1,3-Dichlorobenzene	21.94	146	95082	19.30	ug/l	98
56)	1,4-Dichlorobenzene	22.06	146	105071	17.85	ug/l	98
57)	1,2-Dichlorobenzene	22.54	146	108179	20.32	ug/l	99
58)	1,2-Dibromo-3-Chloropropan	23.53	75	62796	45.11	ug/l	95
59)	1,2,4-Trichlorobenzene	24.84	180	142563	35.50	ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAR03\032803\P22999.D Vial: 9
Acq On : 28 Mar 2003 12:52 Operator:
Sample : VSTD050 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 17:10 2003 Quant Results File: OLMW0208.FES

Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Fri Mar 28 17:21:54 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D



ANSON014 V55

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAR03\032803\P22999.D Vial: 9
Acq On : 28 Mar 2003 12:52 Operator:
Sample : VSTD050 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 17:10 2003 Quant Results File: OLMW0208.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW0208.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Thu Mar 27 19:41:41 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D
DataAcq Meth : OLMW0208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.54	128	79725	50.00	ug/l	-0.10
24) 1,4-Difluorobenzene	12.17	114	365519	50.00	ug/l	-0.07
40) Chlorobenzene-d5	18.99	117	264839	50.00	ug/l	-0.04
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	11.47	65	200043	49.72	ug/l	-0.10
Spiked Amount 50.000	Range 76 - 114		Recovery = 99.44%			
46) Toluene-d8	16.29	98	340990	48.93	ug/l	-0.08
Spiked Amount 50.000	Range 88 - 110		Recovery = 97.86%			
50) 4-Bromofluorobenzene	20.59	95	257601	47.16	ug/l	-0.02
Spiked Amount 50.000	Range 86 - 115		Recovery = 94.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.58	85	127415	49.42	ug/l #	93
3) Chloromethane	4.98	50	39752	68.24	ug/l	79
4) Bromomethane	5.83	94	65640	65.86	ug/l	96
5) Vinyl Chloride	5.17	62	54388	62.20	ug/l	95
6) Chloroethane	5.90	64	41342	59.34	ug/l #	100
7) Methylene Chloride	7.72	84	112880	71.04	ug/l	97
8) Acetone	6.81	43	28295	49.92	ug/l	93
9) Carbon Disulfide	7.92	76	224270	61.93	ug/l	92
10) Methyl Acetate	7.42	43	71341	76.07	ug/l	95
11) 1,1-Dichloroethene	7.07	96	96336	59.51	ug/l	98
12) 1,1-Dichloroethane	8.82	63	251826	62.52	ug/l	99
13) Methyl tert-butyl ether	7.90	73	416413	63.66	UG/L	99
14) Trichlorofluoromethane	6.24	101	333372	52.53	UG/L	99
15) 1,1,2-Trichloro-1,2,2-trif	6.75	101	265945	62.80	UG/L	98
17) trans-1,2-Dichloroethene	8.18	96	116462	63.52	UG/L	97
18) cis-1,2-Dichloroethene	9.94	96	132785	64.37	UG/L	94
19) 1,2-Dichloroethene (total)	8.18	96	253949m	126.14	ug/l	
20) 2-Butanone	9.47	43	35515	51.84	UG/L	95
21) Chloroform	10.24	83	363592	60.54	ug/l	100
23) 1,2-Dichloroethane	11.67	62	307818	58.59	ug/l	99
25) 1,1,1-Trichloroethane	10.96	97	379474	58.19	ug/l	99
26) Cyclohexane	11.04	56	131181	63.40	ug/l	98
27) Carbon Tetrachloride	11.45	117	365164	69.38	ug/l	99
29) Bromodichloromethane	13.99	83	397837	62.61	ug/l	99
30) 1,2-Dichloropropane	13.38	63	129924	61.74	ug/l	95
31) cis-1,3-Dichloropropene	15.41	75	259065	65.40	ug/l	95
) Trichloroethene	13.01	130	170907	58.31	ug/l	100
) Methylcyclohexane	13.22	83	129944	60.44	ug/l	96

(#) = qualifier out of range (m) = manual integration

ANSON014 V56

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAR03\032803\P22999.D Vial: 9
Acq On : 28 Mar 2003 12:52 Operator:
Sample : VSTD050 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 17:10 2003 Quant Results File: OLMW0208.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW0208.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Thu Mar 27 19:41:41 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D
DataAcq Meth : OLMW0208

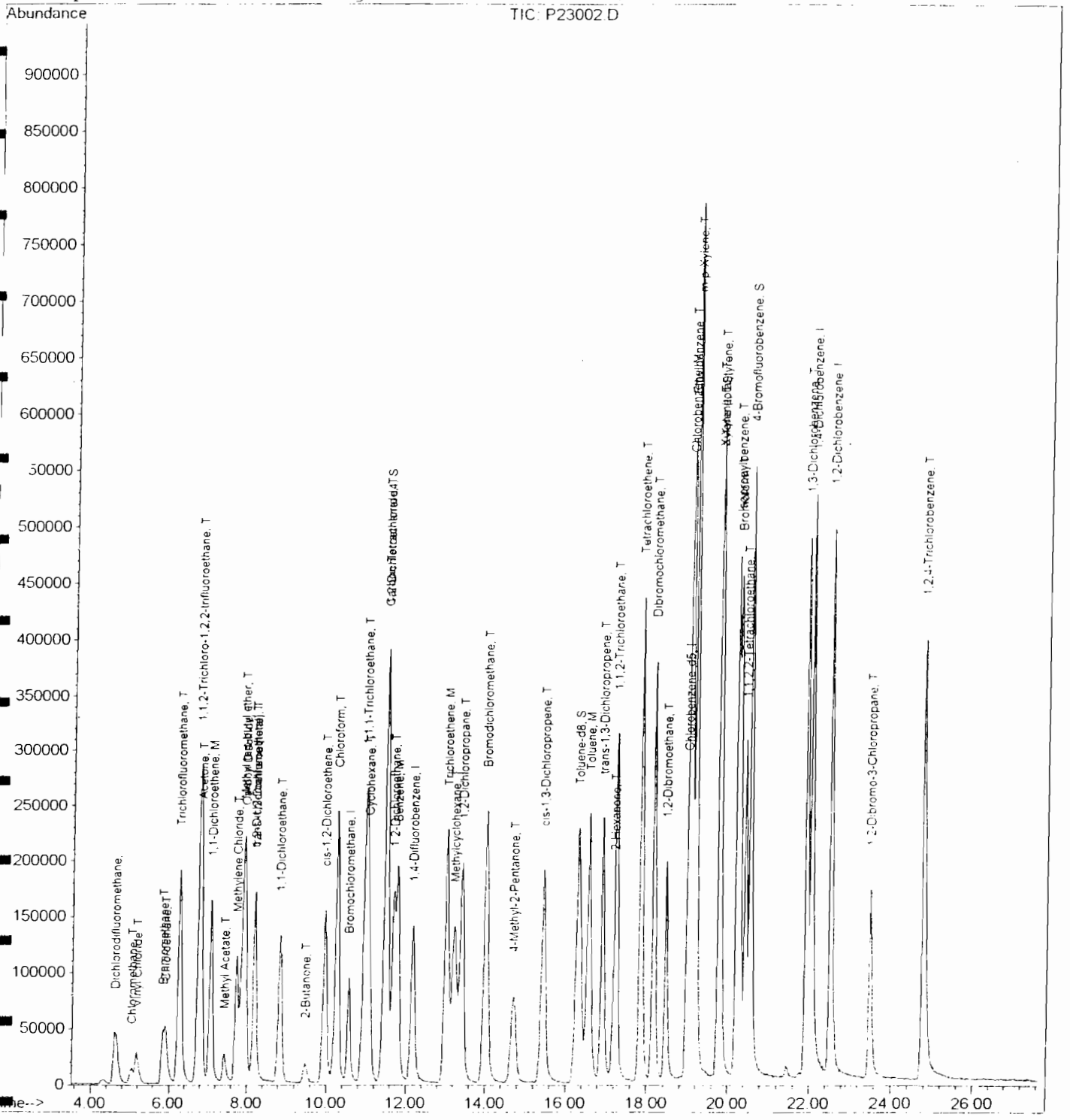
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) Benzene	11.76	78	285674	62.42 ug/l	99
35) Dibromochloromethane	18.15	129	356666	60.73 ug/l	99
36) 1,2-Dibromoethane	18.47	107	227332	62.85 ug/l	100
37) trans-1,3-Dichloropropene	16.88	75	249005	64.68 ug/l	98
38) 1,1,2-Trichloroethane	17.22	97	158626	65.04 ug/l	95
39) Bromoform	20.33	173	305256	59.61 ug/l	99
41) 4-Methyl-2-Pentanone	14.68	43	121258	47.98 ug/l	98
42) 2-Hexanone	17.18	43	77922	48.84 ug/l	94
43) Tetrachloroethene	17.85	164	215593	63.06 ug/l	100
44) Isopropylbenzene	20.26	105	528653	57.45 ug/l	99
45) 1,1,2,2-Tetrachloroethane	20.47	83	220673	59.25 ug/l	98
47) Toluene	16.53	91	417471	58.72 ug/l	98
48) Chlorobenzene	19.05	112	322843	59.04 ug/l	98
9) Ethylbenzene	19.10	106	109571m	56.71 ug/l	
1) Styrene	19.84	104	259571	58.32 ug/l	97
52) m,p-Xylene	19.20	106	342889	117.52 UG/L	94
53) o-Xylene	19.80	106	164173	59.43 UG/L	99
54) Xylene (total)	19.80	106	164173	59.43 ug/l	99
55) 1,3-Dichlorobenzene	21.94	146	313224	56.08 ug/l	96
56) 1,4-Dichlorobenzene	22.07	146	388168	58.15 ug/l	97
57) 1,2-Dichlorobenzene	22.54	146	347971	57.65 ug/l	99
58) 1,2-Dibromo-3-Chloropropan	23.52	75	94864	60.11 ug/l	98
59) 1,2,4-Trichlorobenzene	24.82	180	289634	63.61 ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23002.D Vial: 12
Acq On : 28 Mar 2003 15:44 Operator:
Sample : VSTD100 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 17:44 2003 Quant Results File: OLMW0208.RES

Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Fri Mar 28 17:21:54 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D



ANSON014 V58

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23002.D Vial: 12
Acq On : 28 Mar 2003 15:44 Operator:
Sample : VSTD100 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 17:44 2003 Quant Results File: OLMW0208.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW0208.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Thu Mar 27 19:41:41 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D
DataAcq Meth : OLMW0208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.55	128	77814	50.00	ug/l	-0.09
24) 1,4-Difluorobenzene	12.18	114	335660	50.00	ug/l	-0.06
40) Chlorobenzene-d5	18.97	117	240651	50.00	ug/l	-0.06
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	11.49	65	425824	108.43	ug/l	-0.08
Spiked Amount 50.000	Range 76 - 114		Recovery = 216.86%#			
46) Toluene-d8	16.30	98	661917	104.54	ug/l	-0.07
Spiked Amount 50.000	Range 88 - 110		Recovery = 209.08%#			
50) 4-Bromofluorobenzene	20.54	95	516943	104.15	ug/l	-0.06
Spiked Amount 50.000	Range 86 - 115		Recovery = 208.30%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.62	85	197473	78.47	ug/l #	94
3) Chloromethane	5.06	50	57476	101.09	ug/l	69
4) Bromomethane	5.84	94	111173	114.28	ug/l	95
5) Vinyl Chloride	5.17	62	82284	96.41	ug/l	99
6) Chloroethane	5.91	64	62746	92.28	ug/l #	100
7) Methylene Chloride	7.72	84	145589	93.87	ug/l	98
8) Acetone	6.83	43	54789	99.04	ug/l	100
9) Carbon Disulfide	7.94	76	328490	92.93	ug/l	99
10) Methyl Acetate	7.42	43	97034	106.00	ug/l	97
11) 1,1-Dichloroethene	7.07	96	144809	91.66	ug/l	97
12) 1,1-Dichloroethane	8.83	63	366748	93.29	ug/l	97
13) Methyl tert-butyl ether	7.89	73	595810	93.32	UG/L	100
14) Trichlorofluoromethane	6.27	101	557328	89.98	UG/L	100
15) 1,1,2-Trichloro-1,2,2-trif	6.77	101	395001	95.57	UG/L	99
17) trans-1,2-Dichloroethene	8.19	96	167178	93.42	UG/L	98
18) cis-1,2-Dichloroethene	9.94	96	189613	94.18	UG/L	97
19) 1,2-Dichloroethene (total)	8.19	96	365758m	186.14	ug/l	
20) 2-Butanone	9.48	43	75688	113.19	UG/L	99
21) Chloroform	10.25	83	547232	93.36	ug/l	99
23) 1,2-Dichloroethane	11.67	62	464408	90.56	ug/l	99
25) 1,1,1-Trichloroethane	10.97	97	581359	97.08	ug/l	99
26) Cyclohexane	11.05	56	189345	99.65	ug/l	98
27) Carbon Tetrachloride	11.46	117	561421	116.15	ug/l	98
29) Bromodichloromethane	14.00	83	583917	100.06	ug/l	99
30) 1,2-Dichloropropane	13.40	63	181663	94.00	ug/l	98
31) cis-1,3-Dichloropropene	15.43	75	366161	100.65	ug/l	97
?) Trichloroethene	13.03	130	242892	90.24	ug/l	96
?) Methylcyclohexane	13.22	83	192463	97.48	ug/l	100

(#) = qualifier out of range (m) = manual integration

ANSON014 V59

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23002.D Vial: 12
Acq On : 28 Mar 2003 15:44 Operator:
Sample : VSTD100 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 17:44 2003 Quant Results File: OLMW0208.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW0208.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Thu Mar 27 19:41:41 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D
DataAcq Meth : OLMW0208

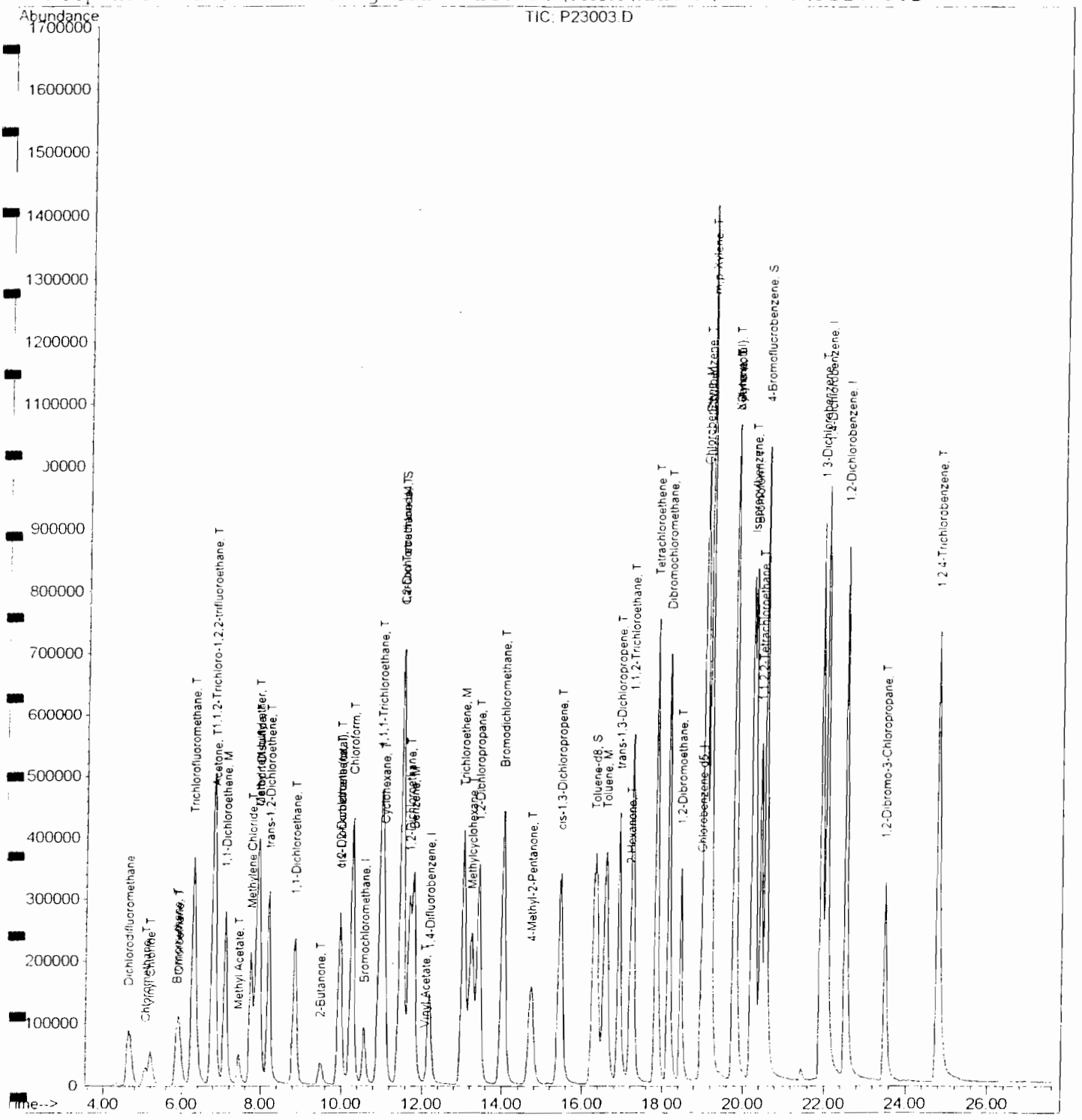
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) Benzene	11.77	78	409593	97.46 ug/l	99
35) Dibromochloromethane	18.15	129	541034	100.31 ug/l	100
36) 1,2-Dibromoethane	18.45	107	332976	100.25 ug/l	100
37) trans-1,3-Dichloropropene	16.90	75	362999	102.68 ug/l	100
38) 1,1,2-Trichloroethane	17.23	97	221478	98.88 ug/l	97
39) Bromoform	20.27	173	453241	96.37 ug/l	99
41) 4-Methyl-2-Pentanone	14.70	43	232357	101.19 ug/l	99
42) 2-Hexanone	17.18	43	148853	102.68 ug/l	93
43) Tetrachloroethene	17.84	164	277034	89.17 ug/l	99
44) Isopropylbenzene	20.20	105	756113	90.43 ug/l	99
45) 1,1,2,2-Tetrachloroethane	20.43	83	314140	92.83 ug/l	98
47) Toluene	16.56	91	597059	92.42 ug/l	100
48) Chlorobenzene	19.01	112	456065	91.79 ug/l	99
9) Ethylbenzene	19.06	106	165226m	94.12 ug/l	
51) Styrene	19.79	104	385821	95.40 ug/l	97
52) m,p-Xylene	19.17	106	469169	176.96 UG/L	98
53) o-Xylene	19.75	106	238936	95.18 UG/L	99
54) Xylene (total)	19.75	106	238936	95.18 ug/l	99
55) 1,3-Dichlorobenzene	21.91	146	465292	91.67 ug/l	100
56) 1,4-Dichlorobenzene	22.04	146	564069	93.00 ug/l	95
57) 1,2-Dichlorobenzene	22.51	146	515929	94.06 ug/l	99
58) 1,2-Dibromo-3-Chloropropan	23.48	75	144765	100.94 ug/l	98
59) 1,2,4-Trichlorobenzene	24.76	180	430728	104.11 ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23003.D Vial: 13
Acq On : 28 Mar 2003 16:18 Operator:
Sample : VSTD200 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 17:58 2003 Quant Results File: OLMW0208.RES

Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Fri Mar 28 17:21:54 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D



ANSON014 V61

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23003.D Vial: 13
Acq On : 28 Mar 2003 16:18 Operator:
Sample : VSTD200 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
IS Integration Params: RTEINT.P
Quant Time: Mar 28 17:58 2003 Quant Results File: OLMW0208.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW0208.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Thu Mar 27 19:41:41 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D
DataAcq Meth : OLMW0208

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.57	128	74865	50.00	ug/l	-0.08
24) 1,4-Difluorobenzene	12.18	114	344952	50.00	ug/l	-0.07
40) Chlorobenzene-d5	18.96	117	243630	50.00	ug/l	-0.07
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	11.48	65	782815	207.19	ug/l	-0.09
Spiked Amount 50.000	Range 76 - 114		Recovery = 414.38%#			
46) Toluene-d8	16.32	98	1234712	192.61	ug/l	-0.06
Spiked Amount 50.000	Range 88 - 110		Recovery = 385.22%#			
50) 4-Bromofluorobenzene	20.53	95	942566	187.58	ug/l	-0.08
Spiked Amount 50.000	Range 86 - 115		Recovery = 375.16%#			
Target Compounds						Qvalue
?) Dichlorodifluoromethane	4.63	85	406604	167.95	ug/l #	94
3) Chloromethane	5.06	50	111586	203.99	ug/l	66
4) Bromomethane	5.85	94	241087	257.59	ug/l	94
5) Vinyl Chloride	5.18	62	172050	209.53	ug/l	98
6) Chloroethane	5.92	64	130359	199.26	ug/l #	100
7) Methylene Chloride	7.74	84	273695	183.43	ug/l	95
8) Acetone	6.83	43	115856	217.68	ug/l	98
9) Carbon Disulfide	7.94	76	615984	181.13	ug/l	97
10) Methyl Acetate	7.43	43	179136	203.40	ug/l	94
11) 1,1-Dichloroethene	7.10	96	256622	168.83	ug/l	98
12) 1,1-Dichloroethane	8.84	63	678121	179.29	ug/l	100
13) Methyl tert-butyl ether	7.89	73	1074180	174.88	UG/L	99
14) Trichlorofluoromethane	6.27	101	1196978	200.87	UG/L	99
15) 1,1,2-Trichloro-1,2,2-trif	6.78	101	703083	176.81	UG/L	98
16) Vinyl Acetate	12.08	43	330	100.71	ug/l #	1
17) trans-1,2-Dichloroethene	8.19	96	306334	177.92	UG/L	98
18) cis-1,2-Dichloroethene	9.95	96	350254	180.81	UG/L	97
19) 1,2-Dichloroethene (total)	9.95	96	672536m	355.75	ug/l	
20) 2-Butanone	9.47	43	164490	255.69	UG/L	94
21) Chloroform	10.26	83	990366	175.62	ug/l	99
23) 1,2-Dichloroethane	11.67	62	819697	166.14	ug/l	99
25) 1,1,1-Trichloroethane	10.95	97	1031730	167.64	ug/l	98
26) Cyclohexane	11.05	56	319506	163.62	ug/l	97
27) Carbon Tetrachloride	11.48	117	1000403	201.40	ug/l	99
29) Bromodichloromethane	14.02	83	1061805	177.07	ug/l	100
30) 1,2-Dichloropropane	13.41	63	324682	163.48	ug/l	99
) cis-1,3-Dichloropropene	15.44	75	659000	176.27	ug/l	98
) Trichloroethene	13.02	130	436774	157.91	ug/l	96

(#) = qualifier out of range (m) = manual integration

ANSON014 V62

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAR03\032803\P23003.D Vial: 13
Acq On : 28 Mar 2003 16:18 Operator:
Sample : VSTD200 Inst : H5970-3
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 17:58 2003 Quant Results File: OLMW0208.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW0208.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Thu Mar 27 19:41:41 2003
Response via : Continuing Cal File: D:\DATA\MAR03\032703\P22979.D
DataAcq Meth : OLMW0208

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
33) Methylcyclohexane	13.23	83	326367	160.84 ug/l	99
34) Benzene	11.77	78	738157	170.90 ug/l	99
35) Dibromochloromethane	18.14	129	977320	176.32 ug/l	99
36) 1,2-Dibromoethane	18.45	107	590082	172.87 ug/l	100
37) trans-1,3-Dichloropropene	16.90	75	658379	181.22 ug/l	99
38) 1,1,2-Trichloroethane	17.23	97	392580	170.56 ug/l	98
39) Bromoform	20.27	173	806875	166.95 ug/l	99
41) 4-Methyl-2-Pentanone	14.71	43	493524	212.30 ug/l	99
42) 2-Hexanone	17.18	43	315797	215.18 ug/l	92
43) Tetrachloroethene	17.84	164	488794	155.41 ug/l	98
44) Isopropylbenzene	20.20	105	1346467	159.06 ug/l	99
45) 1,1,2,2-Tetrachloroethane	20.42	83	551546	160.99 ug/l	100
47) Toluene	16.56	91	1044658	159.72 ug/l	98
9) Chlorobenzene	19.02	112	834211	165.84 ug/l	98
) Ethylbenzene	19.06	106	288720m	162.45 ug/l	
51) Styrene	19.80	104	687612	167.95 ug/l	98
52) m,p-Xylene	19.17	106	871124	324.54 UG/L	97
53) o-Xylene	19.76	106	429906	169.16 UG/L	96
54) Xylene (total)	19.76	106	429906	169.16 ug/l	96
55) 1,3-Dichlorobenzene	21.91	146	816647	158.93 ug/l	99
56) 1,4-Dichlorobenzene	22.04	146	990895	161.37 ug/l	97
57) 1,2-Dichlorobenzene	22.51	146	875292	157.63 ug/l	97
58) 1,2-Dibromo-3-Chloropropan	23.48	75	277534	191.16 ug/l	96
59) 1,2,4-Trichlorobenzene	24.77	180	795879	190.02 ug/l	96

(#) = qualifier out of range (m) = manual integration

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

Instrument ID: HP5970-3 Calibration Date: 05/22/03 Time: 14:31

Lab File ID: 3\P23653.D Init. Calib. Date(s): 03/28/03 03/28/03

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:52 16:53

Heated Purge: (Y/N) N

GC Column: R-502.2 ID: .53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.466	0.491		5.3	
Bromomethane	0.845	0.731	0.100	-13.5	25.0
Vinyl chloride	0.671	0.696	0.100	3.7	25.0
Chloroethane	0.500	0.635		26.9	
Methylene chloride	1.099	1.020		-7.2	
Acetone	0.440	0.397		-9.8	
1,1-Dichloroethene	1.019	0.891	0.100	-12.6	25.0
Carbon disulfide	2.322	1.690		-27.2	
1,1-Dichloroethane	2.602	2.156	0.200	-17.2	25.0
1,2-Dichloroethene (total)	1.344	1.099		-18.3	
Chloroform	3.815	3.216	0.200	-15.7	25.0
1,2-Dichloroethane	3.265	2.790	0.100	-14.5	25.0
2-Butanone	0.566	0.498		-12.0	
1,1,1-Trichloroethane	0.891	0.658	0.100	-26.1	25.0
Carbon tetrachloride	0.871	0.588	0.100	-32.5	25.0
Bromodichloromethane	0.923	0.731	0.200	-20.8	25.0
1,2-Dichloropropane	0.298	0.251		-15.7	
cis-1,3-Dichloropropene	0.591	0.513	0.200	-13.3	25.0
Trichloroethene	0.398	0.381	0.300	-4.2	25.0
Dibromochloromethane	0.851	0.786	0.100	-7.6	25.0
1,1,2-Trichloroethane	0.361	0.337	0.100	-6.7	25.0
Benzene	0.660	0.547	0.500	-17.1	25.0
trans-1,3-Dichloropropene	0.571	0.506	0.100	-11.4	25.0
Bromoform	0.710	0.680	0.100	-4.2	25.0
4-Methyl-2-pentanone	0.571	0.502		-12.1	
2-Hexanone	0.396	0.339		-14.3	
Tetrachloroethene	0.657	0.518	0.200	-21.1	25.0
1,1,2,2-Tetrachloroethane	0.739	0.611	0.300	-17.3	25.0
Toluene	1.353	1.079	0.400	-20.3	25.0
Chlorobenzene	1.039	0.851	0.500	-18.1	25.0
Ethylbenzene	0.364	0.338	0.100	-7.1	25.0
Styrene	0.847	0.718	0.300	-15.3	25.0
Xylene (total)	0.528	0.461	0.300	-12.6	25.0

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON014

Instrument ID: HP5970-3 Calibration Date: 05/22/03 Time: 14:31

Lab File ID: 3\P23653.D Init. Calib. Date(s): 03/28/03 03/28/03

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 12:52 16:53

Heated Purge: (Y/N) N

GC Column: R-502.2 ID: .53 (mm)

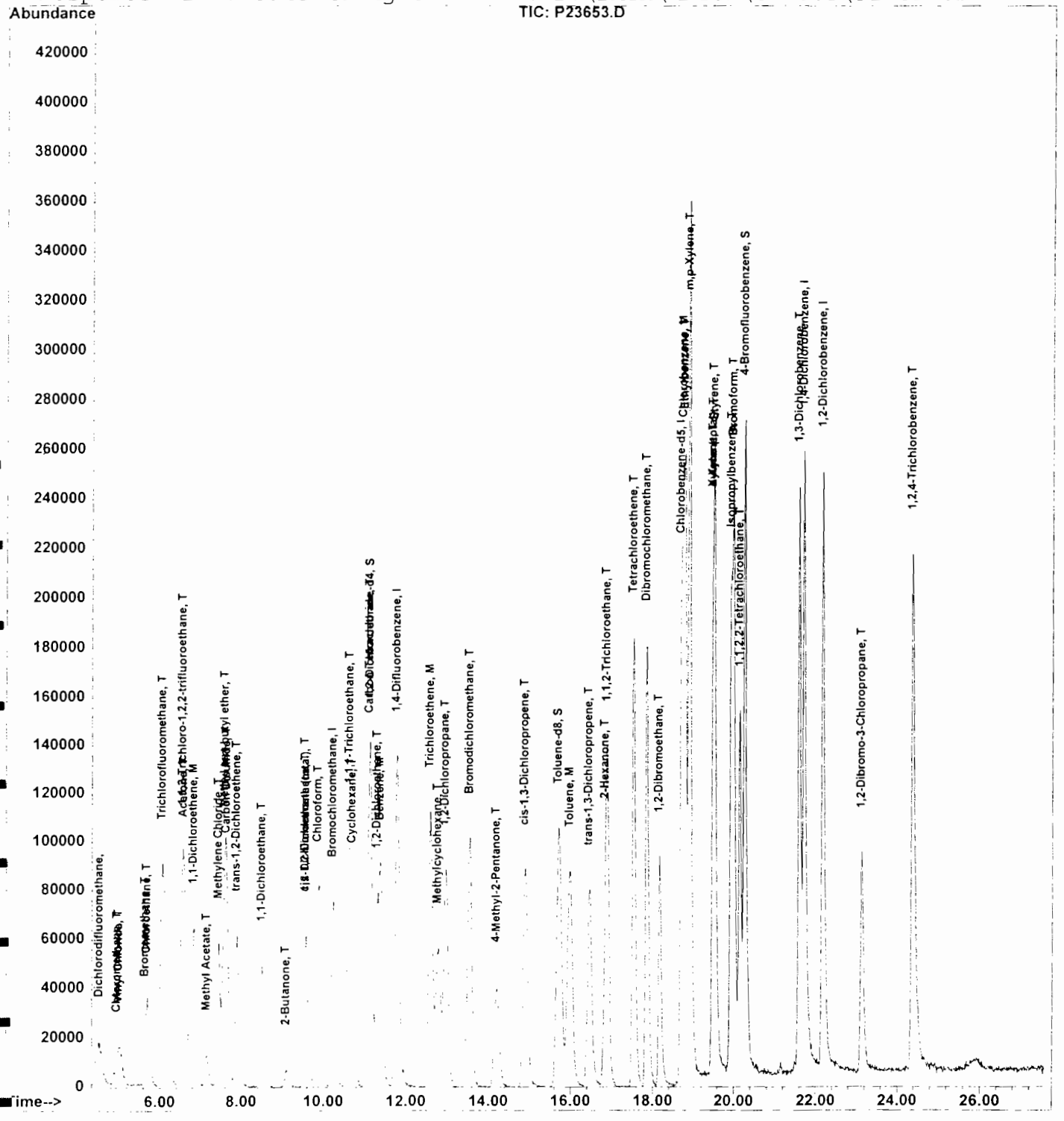
COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloroethane-d4	2.826	2.372		-16.1	
Toluene-d8	1.414	1.267		-10.4	
4-Bromofluorobenzene	1.080	0.970	0.200	-10.2	25.0

All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23653.D Vial: 2
Acq On : 22 May 2003 14:31 Operator: BBL
Sample : VSTD050 Inst : H5970-3
Misc : ,,,CCV,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 15:07 2003 Quant Results File: OLMW328.RES

Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: D:\DATA\MAY03\051803\P23611.D



Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23653.D Vial: 2
Acq On : 22 May 2003 14:31 Operator: BBL
Sample : VSTD050 Inst : H5970-3
Misc : ,,,CCV,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 15:07 2003 Quant Results File: OLMW328.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Sun May 18 18:09:20 2003
Response via : Continuing Cal File: D:\DATA\MAY03\051803\P23611.D
DataAcq Meth : OLMW328

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.24	128	72777	50.00	ug/l	-0.02
24) 1,4-Difluorobenzene	11.78	114	343238	50.00	ug/l	-0.04
40) Chlorobenzene-d5	18.70	117	251385	50.00	ug/l	0.00
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	11.12	65	172602	48.11	ug/l	-0.03
Spiked Amount 50.000	Range 76 - 114		Recovery = 96.22%			
46) Toluene-d8	15.72	98	318599	59.07	ug/l	-0.07
Spiked Amount 50.000	Range 88 - 110		Recovery = 118.14%#			
50) 4-Bromofluorobenzene	20.27	95	243933	49.59	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 99.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.53	85	99866	48.81	ug/l #	98
3) Chloromethane	4.96	50	35705	46.56	ug/l	100
4) Bromomethane	5.65	94	53235	40.03	ug/l	92
5) Vinyl Chloride	5.00	62	50662	45.75	ug/l	93
6) Chloroethane	5.70	64	46230	53.83	ug/l #	100
7) Methylene Chloride	7.46	84	74268	42.08	ug/l	96
8) Acetone	6.59	43	28913	49.61	ug/l	99
9) Carbon Disulfide	7.65	76	122999	29.95	ug/l	98
10) Methyl Acetate	7.17	43	51668	46.12	ug/l	95
11) 1,1-Dichloroethene	6.82	96	64813	36.83	ug/l	96
12) 1,1-Dichloroethane	8.52	63	156909	34.97	ug/l	99
13) Methyl tert-butyl ether	7.59	73	290919	42.14	UG/L	98
14) Trichlorofluoromethane	6.05	101	379097	56.37	UG/L	100
15) 1,1,2-Trichloro-1,2,2-trif	6.57	101	150363	35.63	UG/L	94
17) trans-1,2-Dichloroethene	7.89	96	72413	33.99	UG/L	98
18) cis-1,2-Dichloroethene	9.59	96	87259	35.34	UG/L	98
19) 1,2-Dichloroethene (total)	9.59	96	159989m	68.79	ug/l	
20) 2-Butanone	9.11	43	36244	49.30	UG/L	98
21) Chloroform	9.87	83	234084	35.20	ug/l	98
23) 1,2-Dichloroethane	11.30	62	203046	39.36	ug/l	99
25) 1,1,1-Trichloroethane	10.63	97	225897	37.89	ug/l	98
26) Cyclohexane	10.71	56	70934	33.42	ug/l	96
27) Carbon Tetrachloride	11.10	117	201969	38.41	ug/l	99
29) Bromodichloromethane	13.54	83	250751	43.79	ug/l	98
30) 1,2-Dichloropropane	12.96	63	86168	41.82	ug/l	98
31) cis-1,3-Dichloropropene	14.89	75	175919	49.21	ug/l	97
32) Trichloroethene	12.60	130	130706	44.33	ug/l	99
3) Methylcyclohexane	12.79	83	80948	34.58	ug/l	98

(#) = qualifier out of range (m) = manual integration

hm 5.27.03

ANSON014 V67

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23653.D Vial: 2
Acq On : 22 May 2003 14:31 Operator: BBL
Sample : VSTD050 Inst : H5970-3
Misc : ,,,CCV,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 15:07 2003 Quant Results File: OLMW328.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Sun May 18 18:09:20 2003
Response via : Continuing Cal File: D:\DATA\MAY03\051803\P23611.D
DataAcq Meth : OLMW328

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34) Benzene	11.39	78	187705	39.40	ug/l		98
35) Dibromochloromethane	17.87	129	269740	53.89	ug/l		100
36) 1,2-Dibromoethane	18.18	107	163633	54.65	ug/l		99
37) trans-1,3-Dichloropropene	16.47	75	173570	49.80	ug/l		96
38) 1,1,2-Trichloroethane	16.89	97	115642	51.14	ug/l		99
39) Bromoform	20.00	173	233281	57.22	ug/l		100
41) 4-Methyl-2-Pentanone	14.21	43	126161	69.67	ug/l		99
42) 2-Hexanone	16.84	43	85230	78.92	ug/l	#	99
43) Tetrachloroethene	17.54	164	130105	46.54	ug/l		97
44) Isopropylbenzene	19.94	105	342947	44.96	ug/l		99
45) 1,1,2,2-Tetrachloroethane	20.16	83	153504	54.32	ug/l		99
47) Toluene	16.00	91	271215	47.44	ug/l		100
48) Chlorobenzene	18.76	112	214033	47.60	ug/l		99
49) Ethylbenzene	18.81	106	85067m	57.54	ug/l		99
51) Styrene	19.54	104	180387	49.50	ug/l		99
52) m,p-Xylene	18.92	106	233091	96.35	UG/L		99
53) o-Xylene	19.49	106	115794	47.58	UG/L		99
54) Xylene (total)	19.49	106	115794	47.58	ug/l		99
55) 1,3-Dichlorobenzene	21.60	146	228654	51.11	ug/l		99
56) 1,4-Dichlorobenzene	21.73	146	293049	52.27	ug/l		99
57) 1,2-Dichlorobenzene	22.18	146	259842	53.51	ug/l		96
58) 1,2-Dibromo-3-Chloropropan	23.15	75	79284	67.36	ug/l		97
59) 1,2,4-Trichlorobenzene	24.38	180	251335	60.23	ug/l		98

5.27.03

(#) = qualifier out of range (m) = manual integration

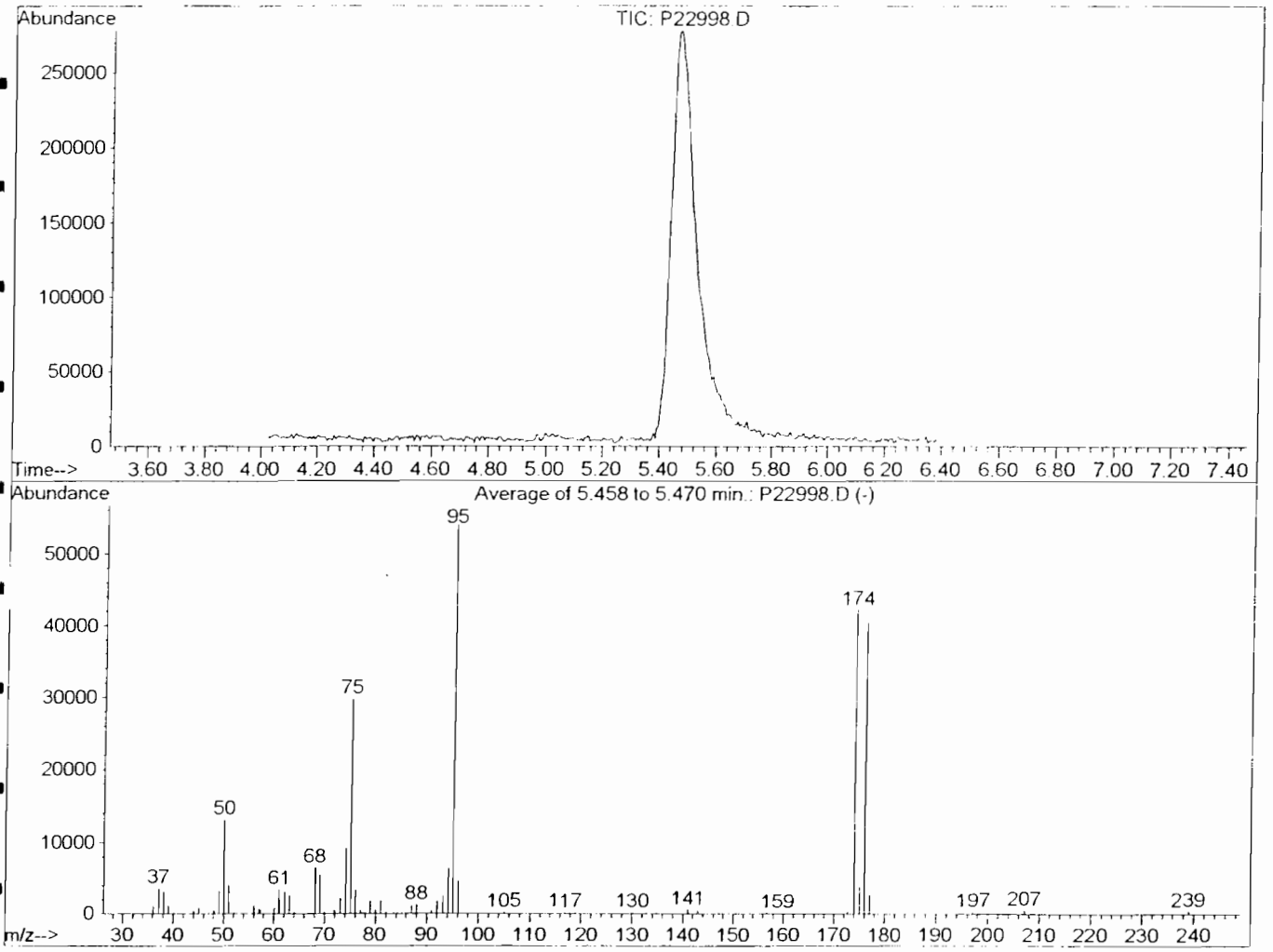
H2M LABS, INC.

IV. RAW QC DATA PACKAGE FOR VOLATILE ORGANICS

A. TUNING
B. BLANK
C. MATRIX SPIKE BLANK
D. SPIKE AND SPIKE DUPLICATE
E. COPY OF CALCULATIONS

CLPBFB

Data File : O:\MS\HP#3\DATA\MAR03\032803\P22998.D Vial: 8
Acq On : 28 Mar 2003 12:37 Operator:
Sample : 50 NG BFB Inst : H5970-3
Misc : ,,,tune,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : O:\MS\HP#3\METHODS\OLMS0423.M (RTE Integrator)
Title : CLP OLM 04.1



AutoFind: Scans 239, 240, 241; Background Corrected with Scan 222

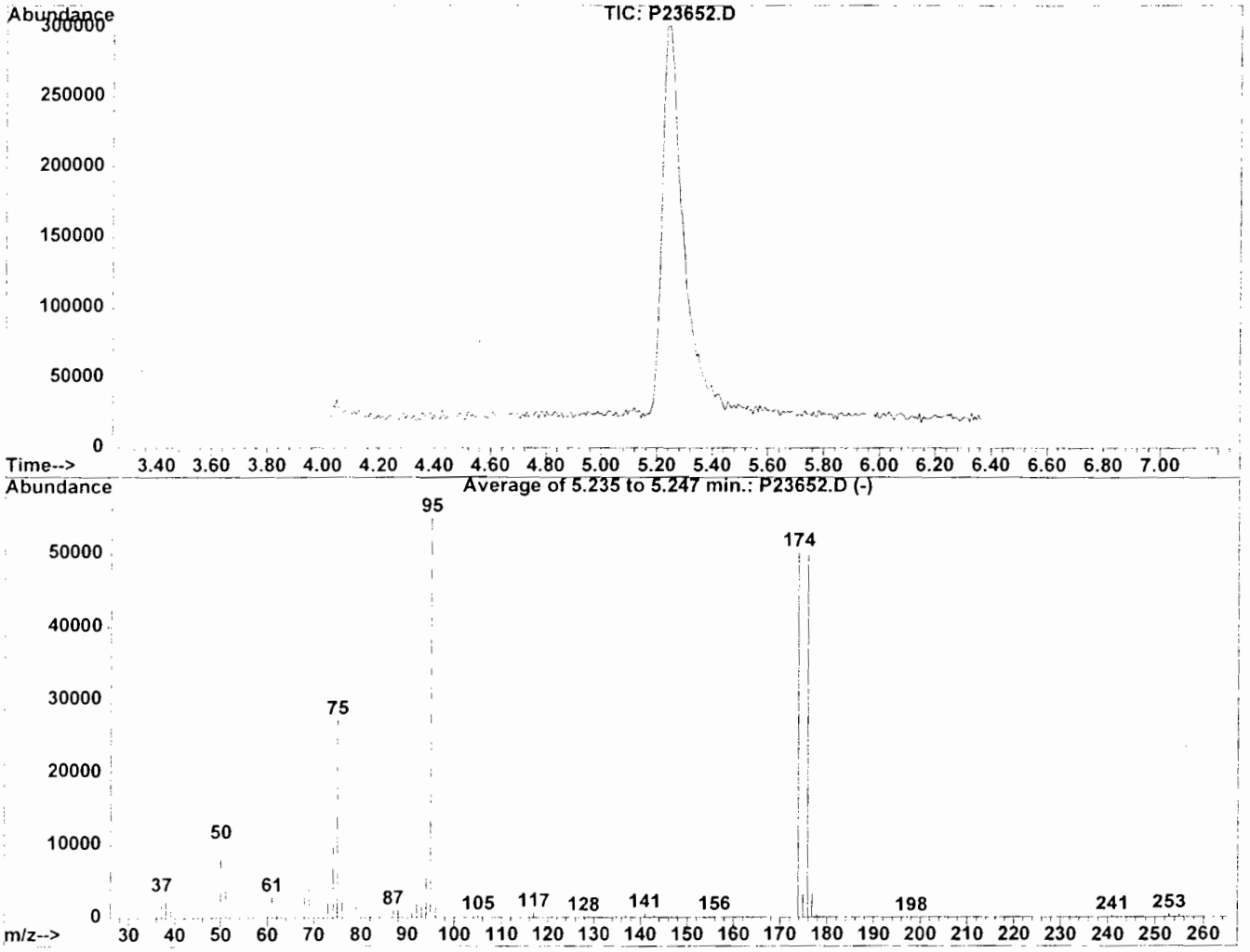
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.2	13096	PASS
75	95	30	60	55.0	29712	PASS
95	95	100	100	100.0	54051	PASS
96	95	5	9	8.5	4606	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.1	42232	PASS
175	174	5	9	9.0	3798	PASS
176	174	95	101	95.8	40477	PASS
177	176	5	9	6.7	2703	PASS

22998.D OLMS0423.M Mon May 12 21:31:55 2003 H5971

ANSON014 V70

CLPBFB

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23652.D Vial: 1
Acq On : 22 May 2003 13:01 Operator: BBL
Sample : 50 NG BFB Inst : H5970-3
Misc : ,,,TUNE,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1



Spectrum Information: Average of 5.235 to 5.247 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	10159	PASS
75	95	30	60	49.5	27195	PASS
95	95	100	100	100.0	54973	PASS
96	95	5	9	7.0	3824	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	91.3	50181	PASS
175	174	5	9	6.5	3269	PASS
176	174	95	101	99.4	49864	PASS
177	176	5	9	6.8	3402	PASS

P23652.D OLMW328.M Tue May 27 12:59:53 2003 H5970D

ANSON014 V71

IA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK052203

Lab Name: H2M LABS. INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: VBLK052203

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23654.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	1	J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK052203

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: VBLK052203

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23654.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

VBLK052203

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON014

Matrix: (soil/water) WATER Lab Sample ID: VBLK052203

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23654.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

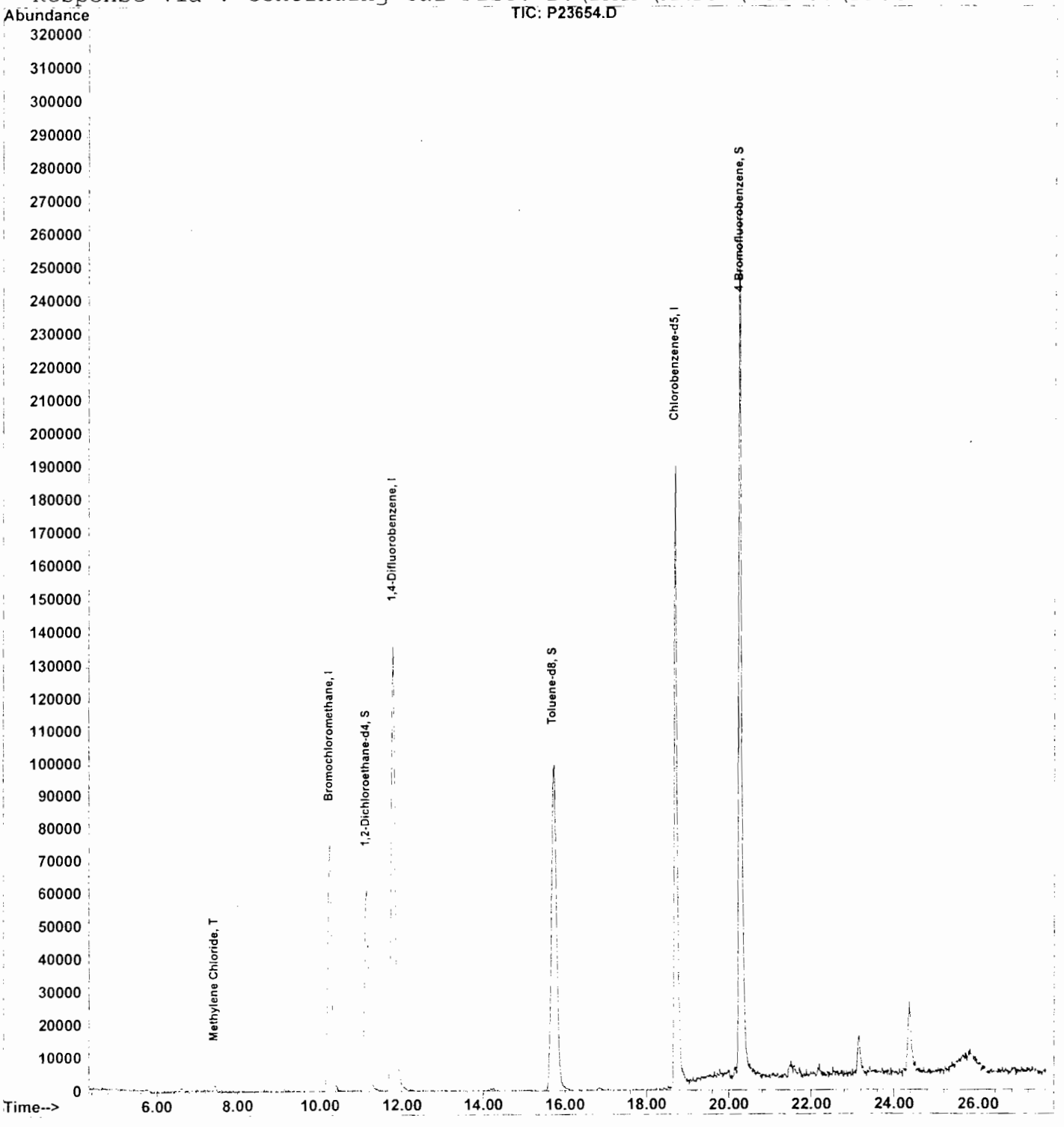
Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 000120-82-1	Benzene, 1,2,4-trichloro-	24.37	7	NJ

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23654.D Vial: 2
Acq On : 22 May 2003 15:31 Operator: BBL
Sample : VBLK052203 Inst : H5970-3
Misc : ,,,MBLK,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 11:37 2003 Quant Results File: OLMW328.RES

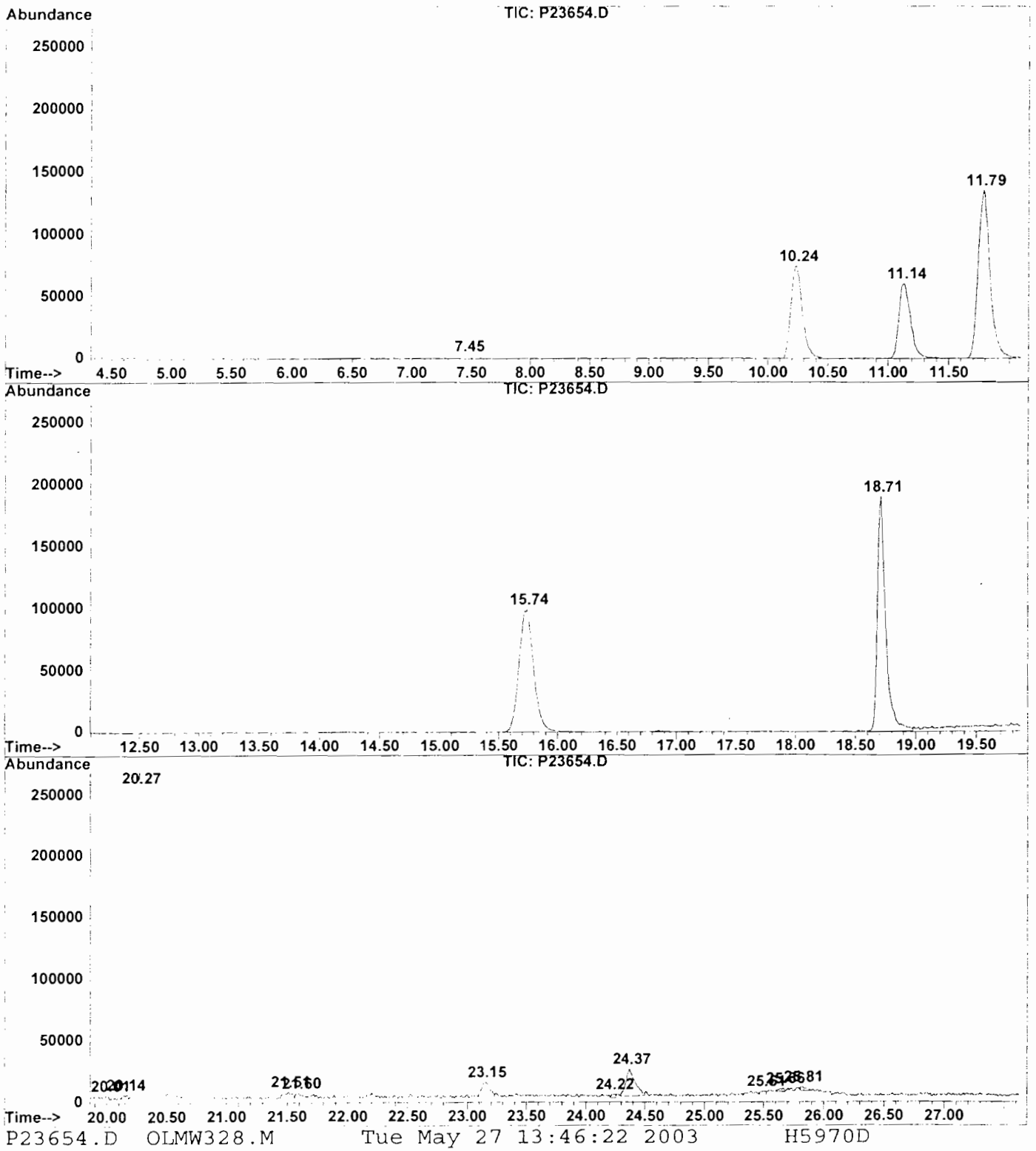
Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D



ANSON014 V75

LSC Report - Integrated Chromatogram

File : O:\MS\HP#3\DATA\MAY03\052203\P23654.D
Operator : BBL
Acquired : 22 May 2003 15:31 using AcqMethod OLMW328
Instrument : H5970-3
Sample Name: VBLK052203
Misc Info : ,,,MBLK,,
Vial Number: 2
Quant File :OLMW328.RES (RTE Integrator)



P23654.D OLMW328.M Tue May 27 13:46:22 2003 H5970D

ANSON014 V76

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23654.D Vial: 2
Acq On : 22 May 2003 15:31 Operator: BBL
Sample : VBLK052203 Inst : H5970-3
Misc : ,,,MBLK,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 11:37 2003 Quant Results File: OLMW328.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Sun May 18 18:09:20 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D
DataAcq Meth : OLMW328

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.23	128	75815	50.00	ug/l	0.00
24) 1,4-Difluorobenzene	11.80	114	340289	50.00	ug/l	0.01
40) Chlorobenzene-d5	18.71	117	254590	50.00	ug/l	0.01
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	11.14	65	177701	49.41	ug/l	0.01
Spiked Amount 50.000	Range 76 - 114		Recovery = 98.82%			
46) Toluene-d8	15.72	98	304875	47.24	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 94.48%			
50) 4-Bromofluorobenzene	20.27	95	261395	52.90	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 105.80%			
Target Compounds						Qvalue
7) Methylene Chloride	7.46	84	1660	1.07	ug/l #	51

(#) = qualifier out of range (m) = manual integration

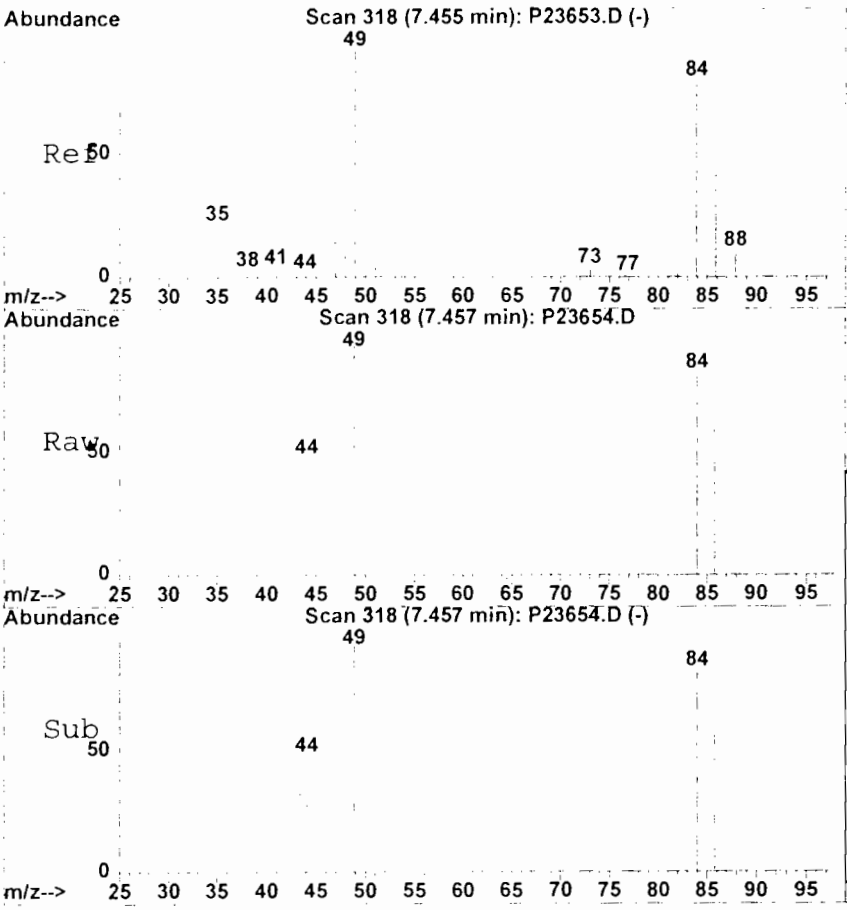
Tentatively Identified Compound (LSC) summary

Operator ID: BBL Date Acquired: 22 May 2003 15:31
Data File: O:\MS\HP#3\DATA\MAY03\052203\P23654.D
Name: VBLK052203
'c: ,,,MBLK,,
.hod: C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title: CLP OLM 04.1
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzene, 1,2,4-trich	24.37	6.6	ug/l	120487	ISTD03	18.71	916986	50.0

P23654.D OLMW328.M Tue May 27 13:46:23 2003 H5970D

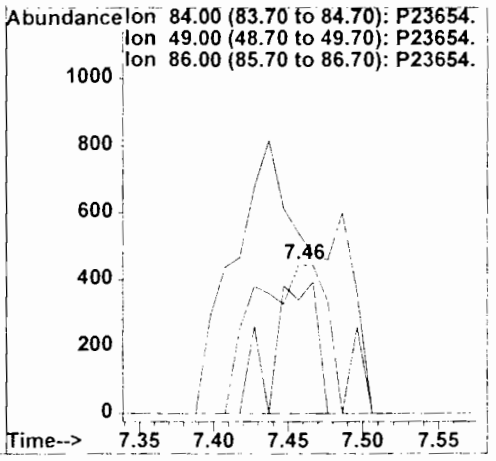
ANSON014 V78



#7
Methylene Chloride
Concen: 1.07 ug/l
RT: 7.46 min Scan# 318
Delta R.T. 0.00 min
Lab File: P23654.D
Acq: 22 May 2003 15:31

Tgt Ion: 84 Resp: 1660

Ion	Ratio	Lower	Upper
84	100		
49	205.0	110.9	150.9#
86	49.1	45.9	85.9



ANSON014 V79

Library Search Compound Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23654.D Vial: 2
Acq On : 22 May 2003 15:31 Operator: BBL
Sample : VBLK052203 Inst : H5970-3
Misc : ,,,MBLK,, Multiplr: 1.00
MS Integration Params: LSCINT.P

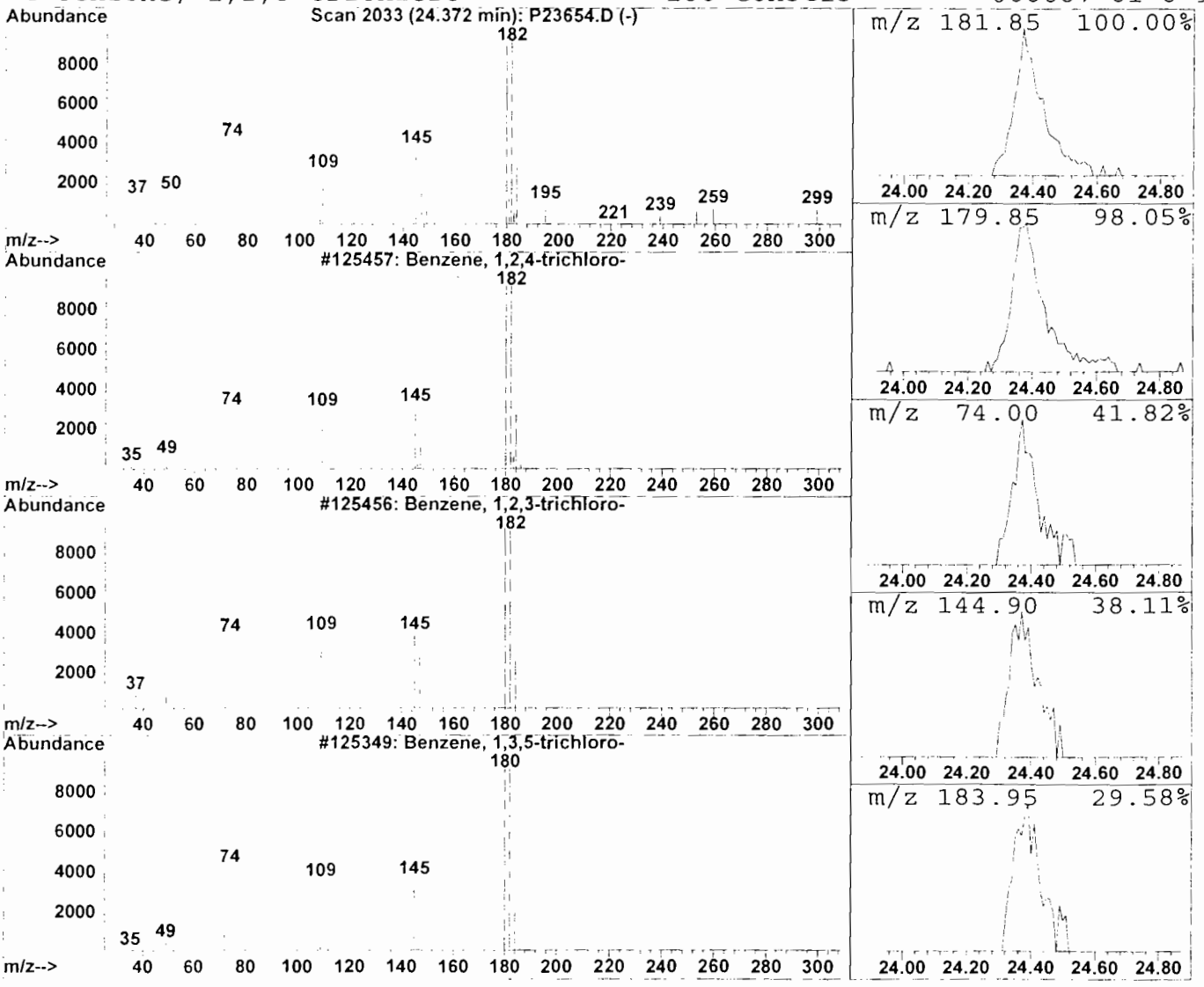
Quant Method : C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 Benzene, 1,2,4-trichloro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.37	6.57 ug/l	120487	Chlorobenzene-d5	18.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4-trichloro-	180	C6H3Cl3	000120-82-1	95
2	Benzene, 1,2,3-trichloro-	180	C6H3Cl3	000087-61-6	47
3	Benzene, 1,3,5-trichloro-	180	C6H3Cl3	000108-70-3	76
4	Benzene, 1,2,3-trichloro-	180	C6H3Cl3	000087-61-6	95



ANSON014 V80

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2DMS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-001AMS

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23660.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	56	
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	27	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	J
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	80	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	64	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	53	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	60	
108-90-7	Chlorobenzene	63	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2DMS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-001AMS

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23660.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

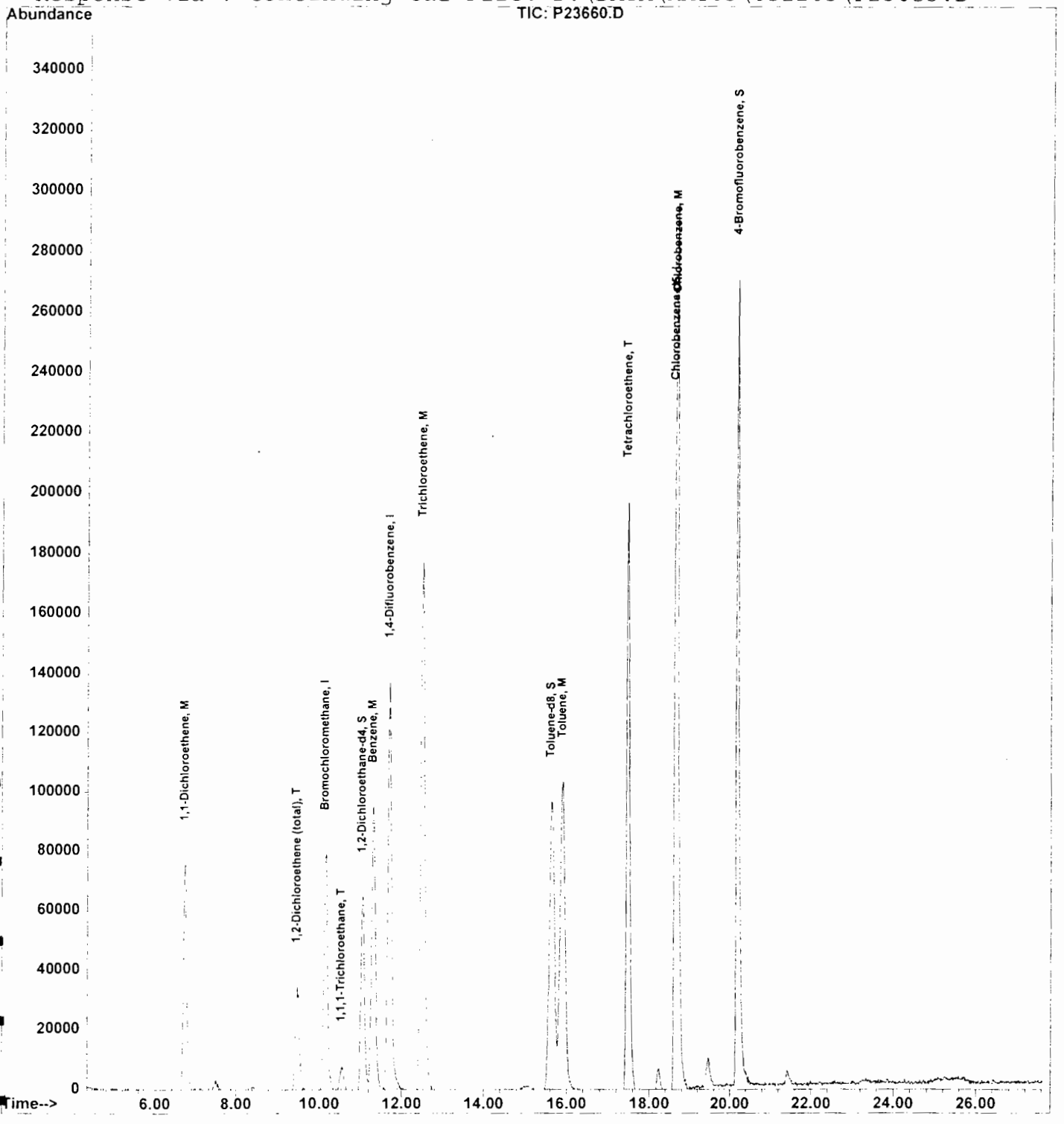
Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23660.D Vial: 8
Acq On : 22 May 2003 19:07 Operator: BBL
Sample : 0305404-001AMS Inst : H5970-3
Misc : ANSSON014,NC2DMS,H2O,MS,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 12:58 2003 Quant Results File: OLMW328.RES

Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D



ANSON014 V83

Quantitation Report (QT Reviewed)

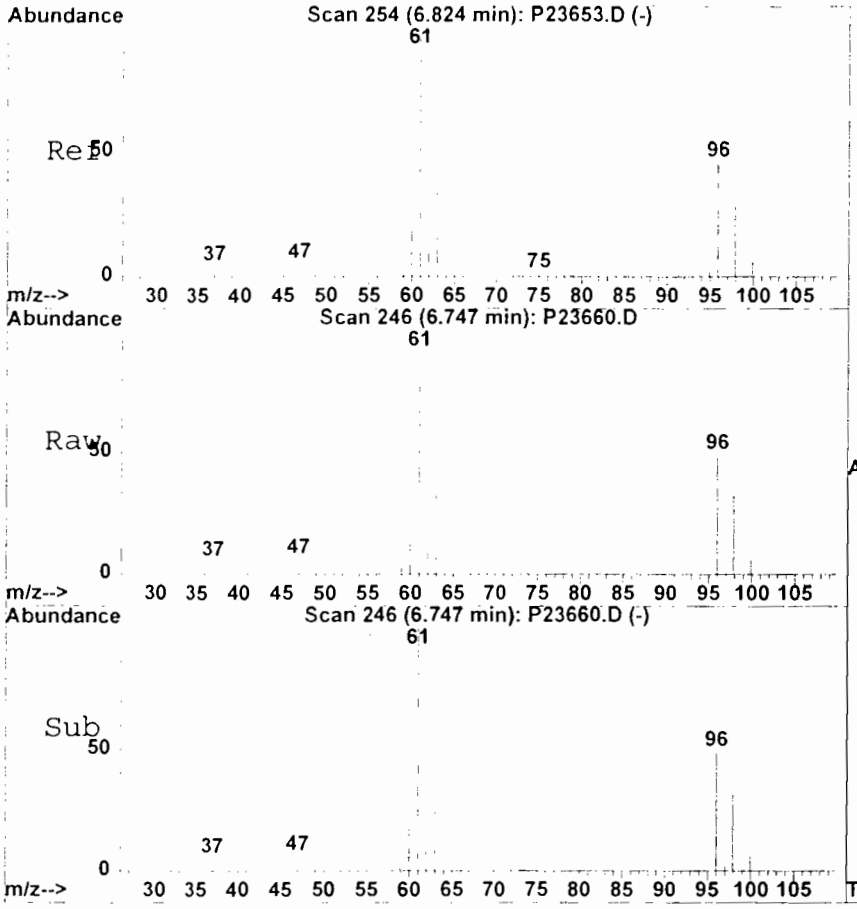
Data File : O:\MS\HP#3\DATA\MAY03\052203\P23660.D Vial: 8
Acq On : 22 May 2003 19:07 Operator: BBL
Sample : 0305404-001AMS Inst : H5970-3
Misc : ANSSON014,NC2DMS,H2O,MS,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 12:58 2003 Quant Results File: OLMW328.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Sun May 18 18:09:20 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D
DataAcq Meth : OLMW328

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.15	128	78754	50.00	ug/l		-0.09
24) 1,4-Difluorobenzene	11.71	114	345268	50.00	ug/l		-0.08
40) Chlorobenzene-d5	18.63	117	260135	50.00	ug/l		-0.07
System Monitoring Compounds							
22) 1,2-Dichloroethane-d4	11.05	65	177632	47.55	ug/l		-0.08
Spiked Amount 50.000	Range 76 - 114		Recovery = 95.10%				
46) Toluene-d8	15.64	98	309983	47.01	ug/l		-0.08
Spiked Amount 50.000	Range 88 - 110		Recovery = 94.02%				
50) 4-Bromofluorobenzene	20.19	95	275080	54.49	ug/l		-0.08
Spiked Amount 50.000	Range 86 - 115		Recovery = 108.98%				
Target Compounds							Qvalue
11) 1,1-Dichloroethene	6.75	96	78447	55.92	ug/l		97
19) 1,2-Dichloroethene (total)	9.49	96	47459	27.41	ug/l	#	7
25) 1,1,1-Trichloroethane	10.53	97	21908	4.82	ug/l		97
32) Trichloroethene	12.51	130	209471	79.66	ug/l		96
34) Benzene	11.31	78	241798	64.03	ug/l		100
43) Tetrachloroethene	17.48	164	142226	52.82	ug/l		97
47) Toluene	15.91	91	334442	59.58	ug/l		100
48) Chlorobenzene	18.69	112	276952	62.52	ug/l		93

ANSON014 V84

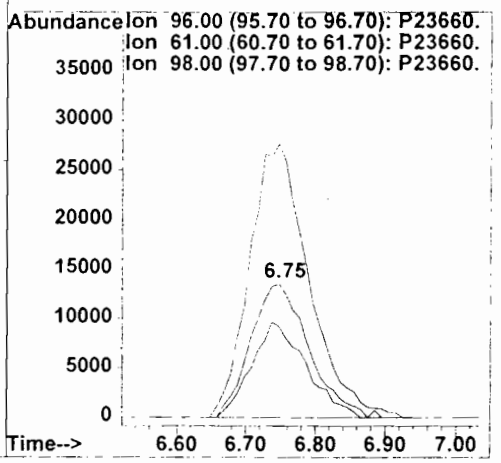
(#) = qualifier out of range (m) = manual integration

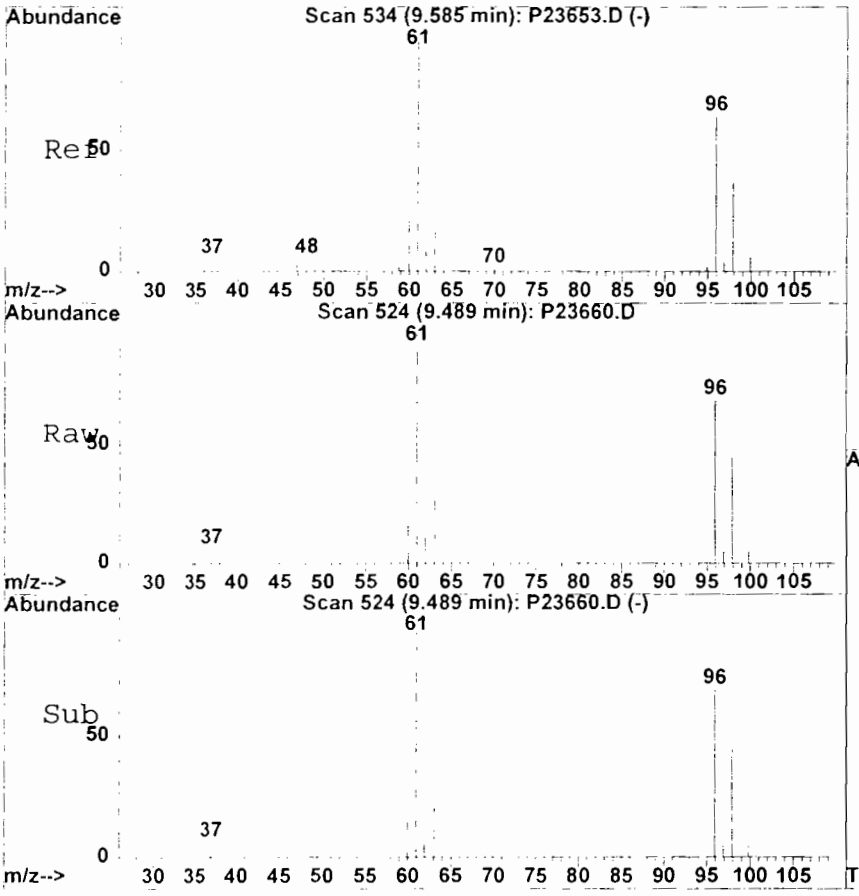


#11
1,1-Dichloroethene
Concen: 55.92 ug/l
RT: 6.75 min Scan# 246
Delta R.T. -0.08 min
Lab File: P23660.D
Acq: 22 May 2003 19:07

Tgt Ion: 96 Resp: 78447

Ion	Ratio	Lower	Upper
96	100		
61	208.3	194.5	234.5
98	66.7	45.6	85.6

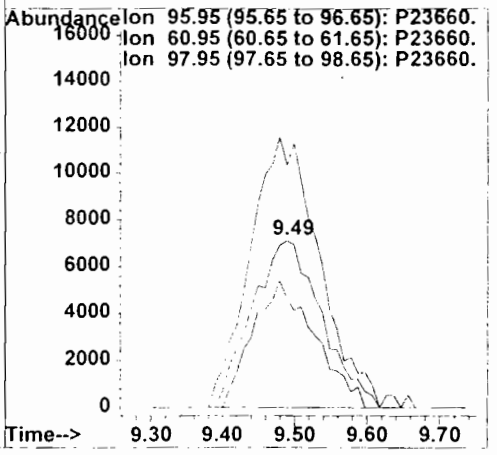




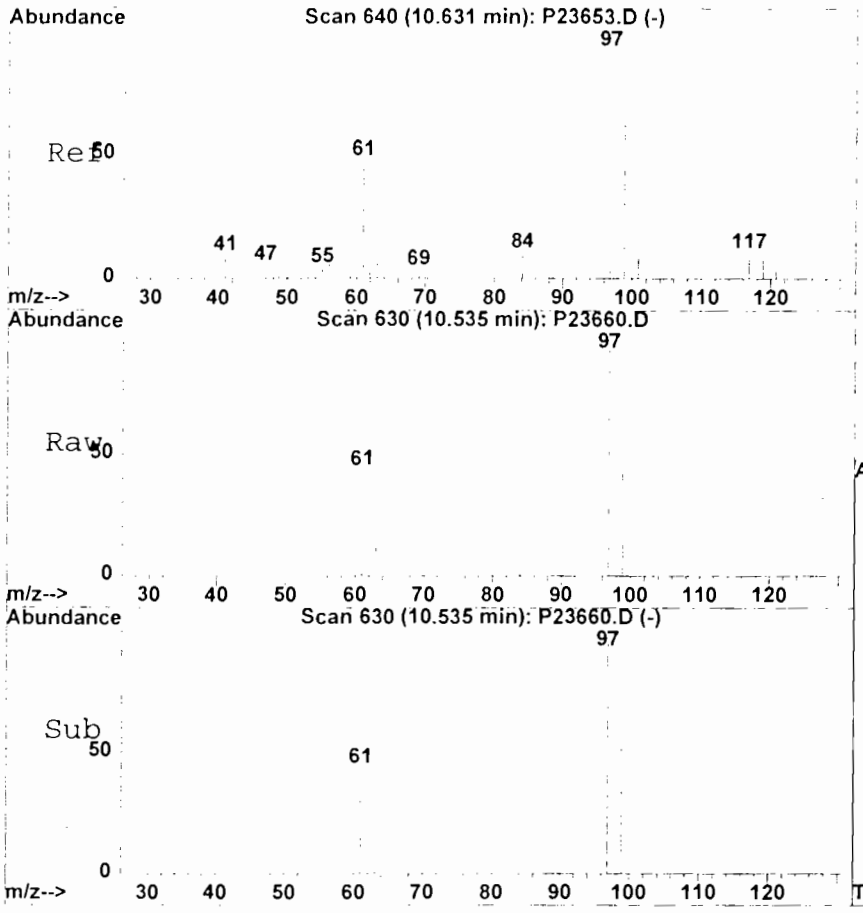
#19
1,2-Dichloroethene (total)
Concen: 27.41 ug/l
RT: 9.49 min Scan# 524
Delta R.T. -0.10 min
Lab File: P23660.D
Acq: 22 May 2003 19:07

Tgt Ion: 96 Resp: 47459

Ion	Ratio	Lower	Upper
96	100		
61	163.9	56.4	96.4#
98	67.9	9.4	49.4#



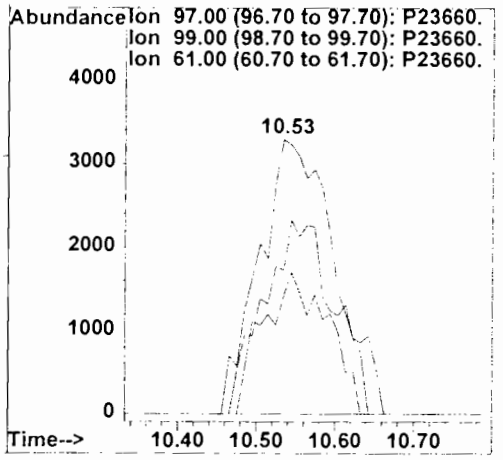
ANSON014 V85

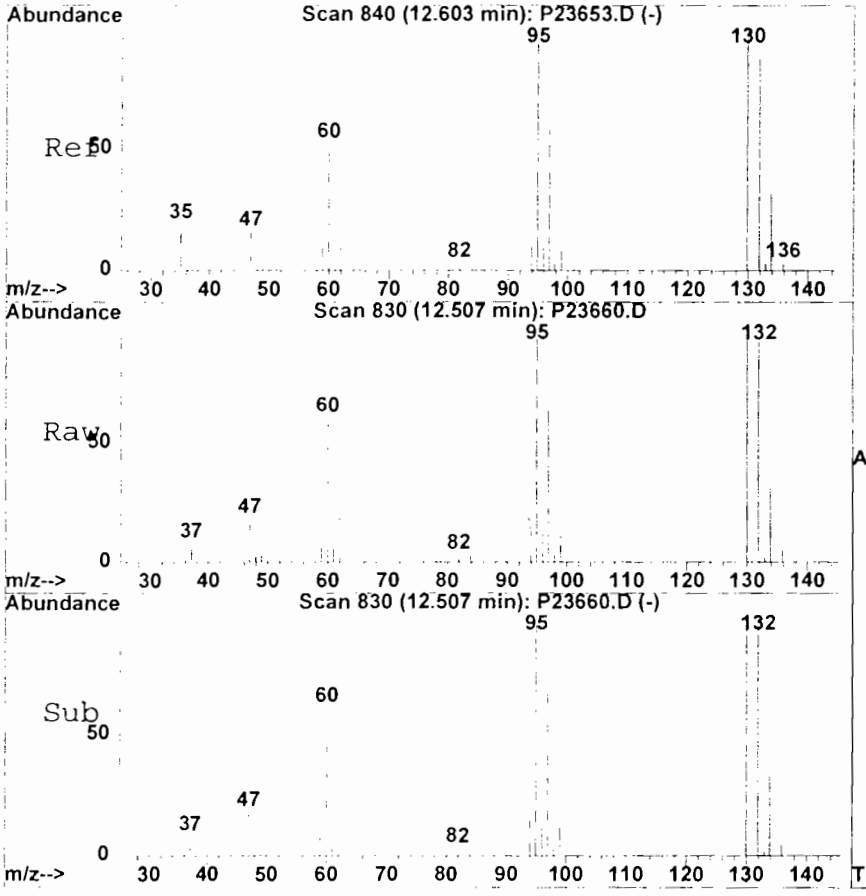


#25
1,1,1-Trichloroethane
Concen: 4.82 ug/l
RT: 10.53 min Scan# 630
Delta R.T. -0.10 min
Lab File: P23660.D
Acq: 22 May 2003 19:07

Tgt Ion: 97 Resp: 21908

Ion	Ratio	Lower	Upper
97	100		
99	65.9	43.9	83.9
61	44.7	26.7	66.7

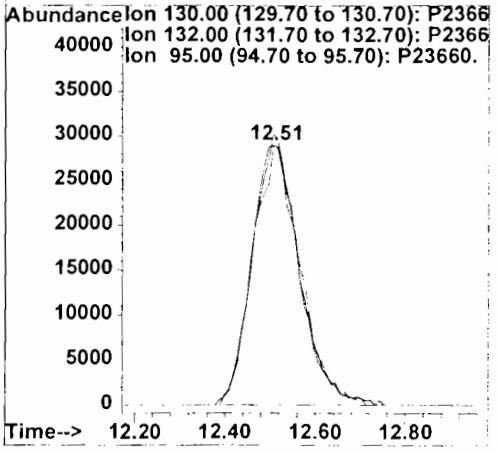




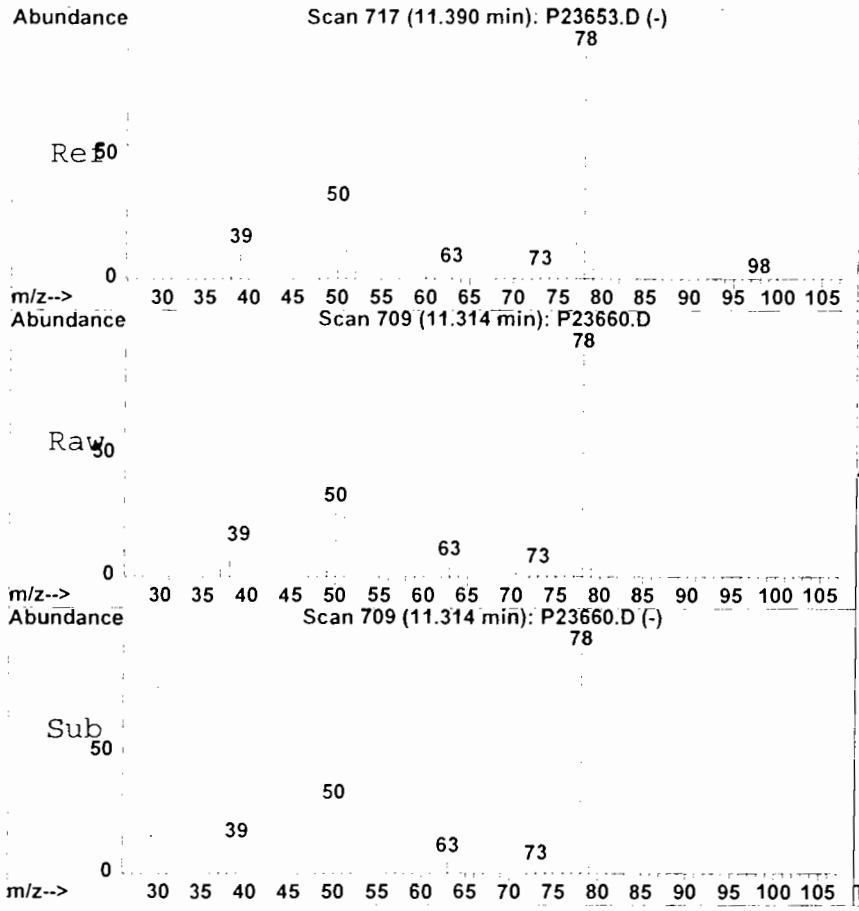
#32
Trichloroethene
Concen: 79.66 ug/l
RT: 12.51 min Scan# 830
Delta R.T. -0.10 min
Lab File: P23660.D
Acq: 22 May 2003 19:07

Tgt Ion:130 Resp: 209471

Ion	Ratio	Lower	Upper
130	100		
132	102.6	79.2	119.2
95	100.0	75.7	115.7



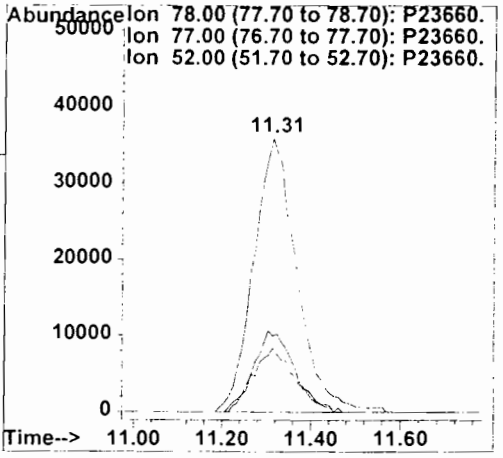
ANSON014 V86

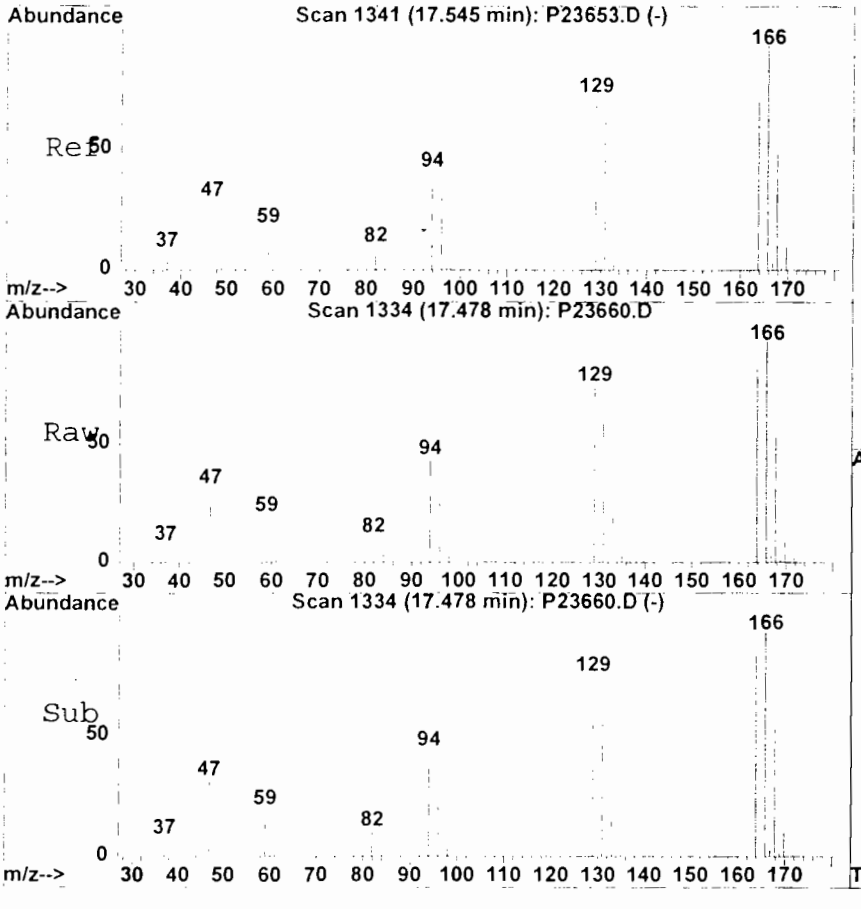


#34
Benzene
Concen: 64.03 ug/l
RT: 11.31 min Scan# 709
Delta R.T. -0.08 min
Lab File: P23660.D
Acq: 22 May 2003 19:07

Tgt Ion: 78 Resp: 241798

Ion	Ratio	Lower	Upper
78	100		
77	28.2	8.0	48.0
52	22.4	2.6	42.6

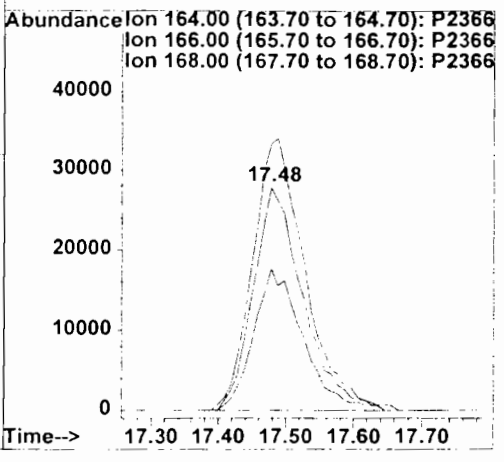




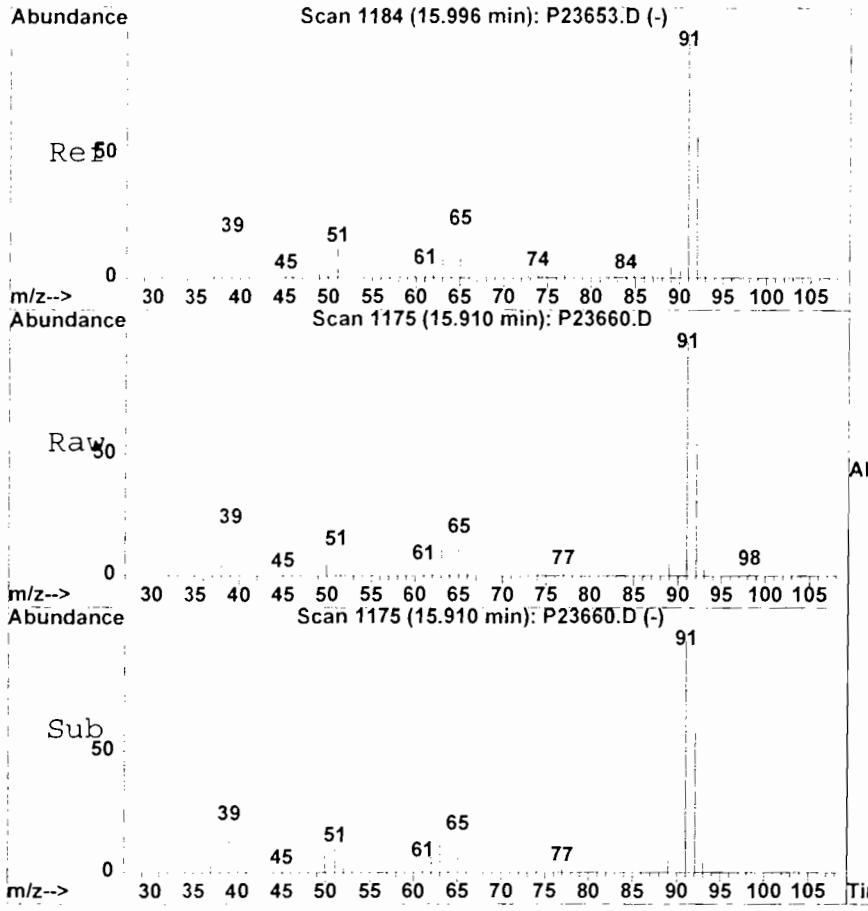
#43
Tetrachloroethene
Concen: 52.82 ug/l
RT: 17.48 min Scan# 1334
Delta R.T. -0.07 min
Lab File: P23660.D
Acq: 22 May 2003 19:07

Tgt Ion:164 Resp: 142226

Ion	Ratio	Lower	Upper
164	100		
166	128.5	113.2	153.2
168	62.8	42.9	82.9



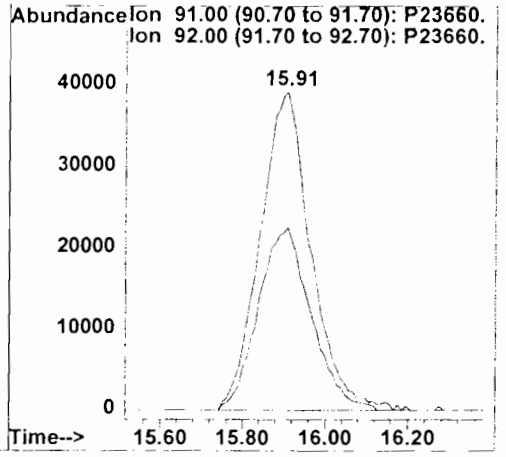
ANSON014 V87

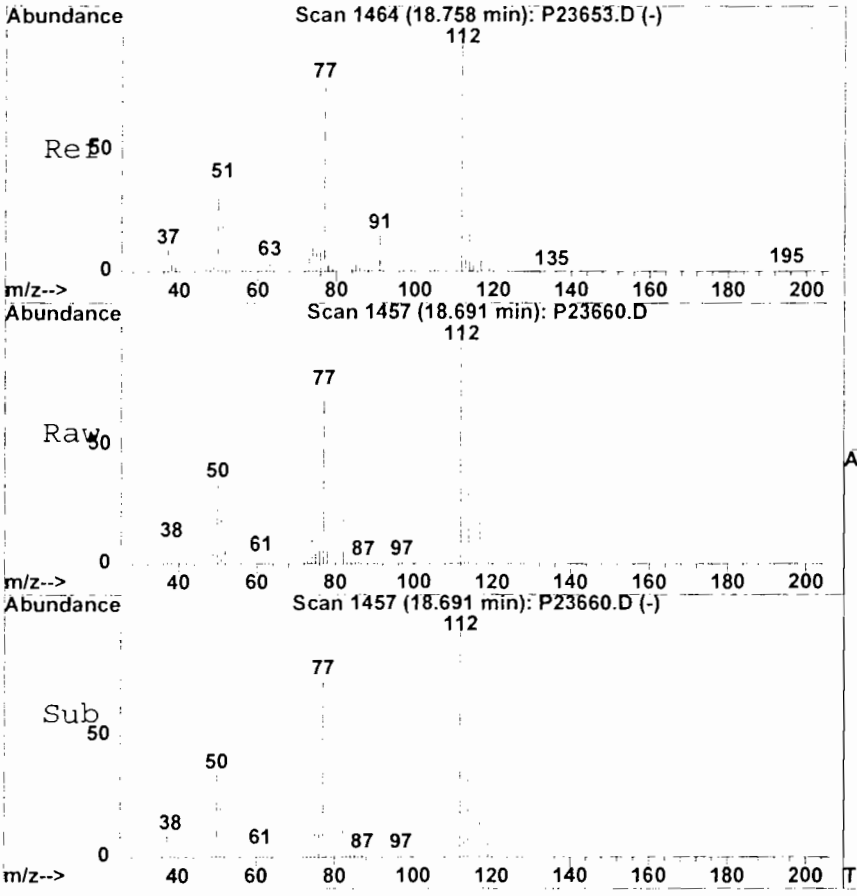


#47
Toluene
Concen: 59.58 ug/l
RT: 15.91 min Scan# 1175
Delta R.T. -0.09 min
Lab File: P23660.D
Acq: 22 May 2003 19:07

Tgt Ion: 91 Resp: 334442

Ion	Ratio	Lower	Upper
91	100		
92	60.0	39.7	79.7

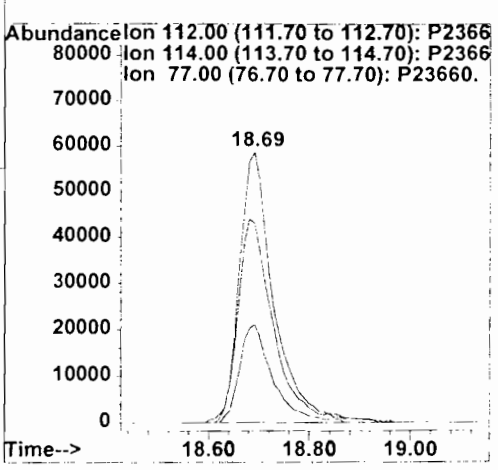




#48
Chlorobenzene
Concen: 62.52 ug/l
RT: 18.69 min Scan# 1457
Delta R.T. -0.07 min
Lab File: P23660.D
Acq: 22 May 2003 19:07

Tgt Ion:112 Resp: 276952

Ion	Ratio	Lower	Upper
112	100		
114	34.9	15.3	55.3
77	78.5	67.0	107.0



ANSON014 V88

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2DMSD

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-001AMSD

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23661.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	48	
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	27	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	J
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	74	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	61	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	51	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	61	
108-90-7	Chlorobenzene	60	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2DMSD

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: 0305404-001AMSD

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23661.D

Level: (low/med) LOW Date Received: 05/14/03

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

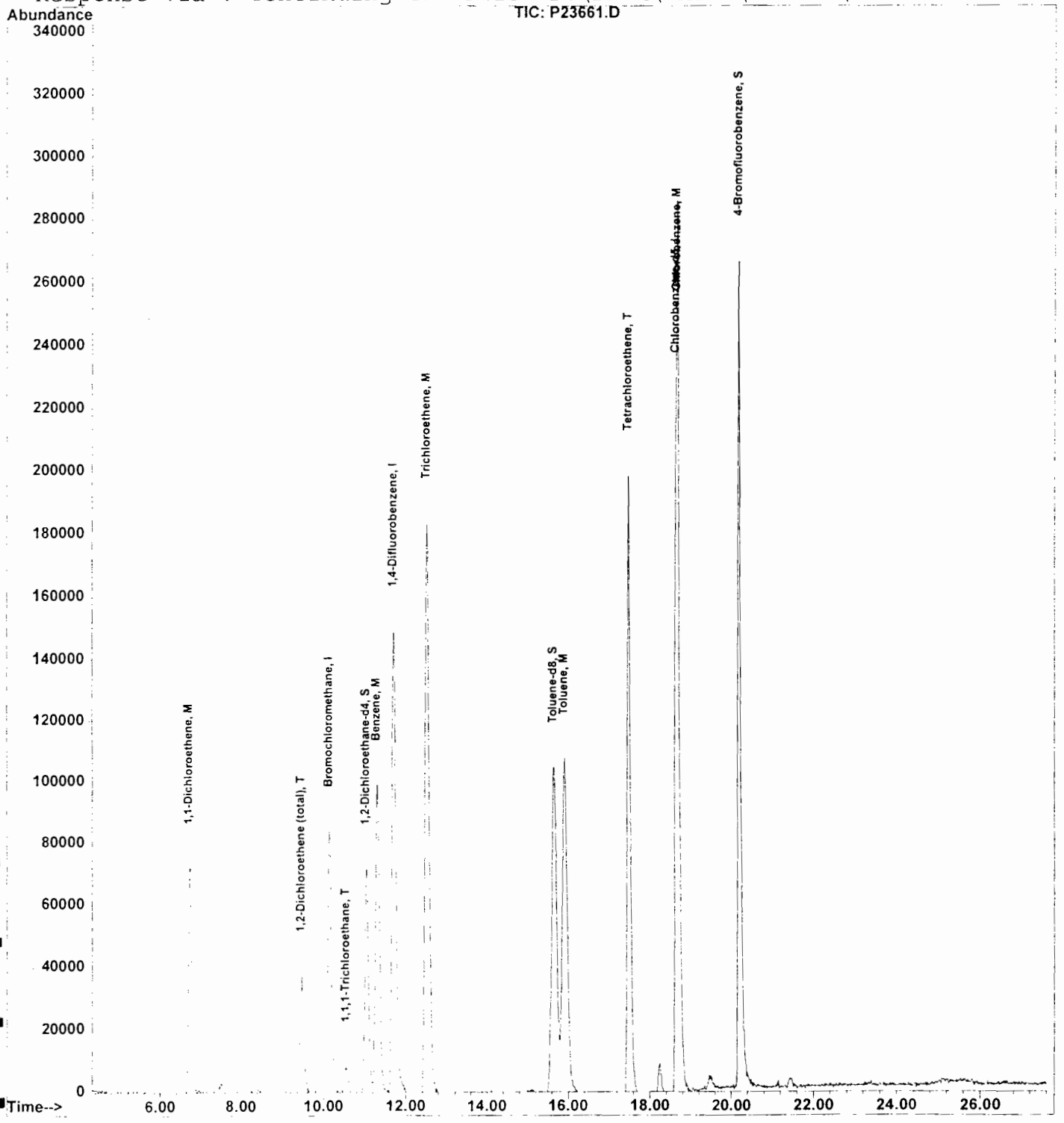
Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23661.D Vial: 9
Acq On : 22 May 2003 19:42 Operator: BBL
Sample : 0305404-001AMSD Inst : H5970-3
Misc : ANSSON014,NC2DMSD,H2O,MSD,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 12:59 2003 Quant Results File: OLMW328.RES

Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D



ANSON014 V91

Quantitation Report (QT Reviewed)

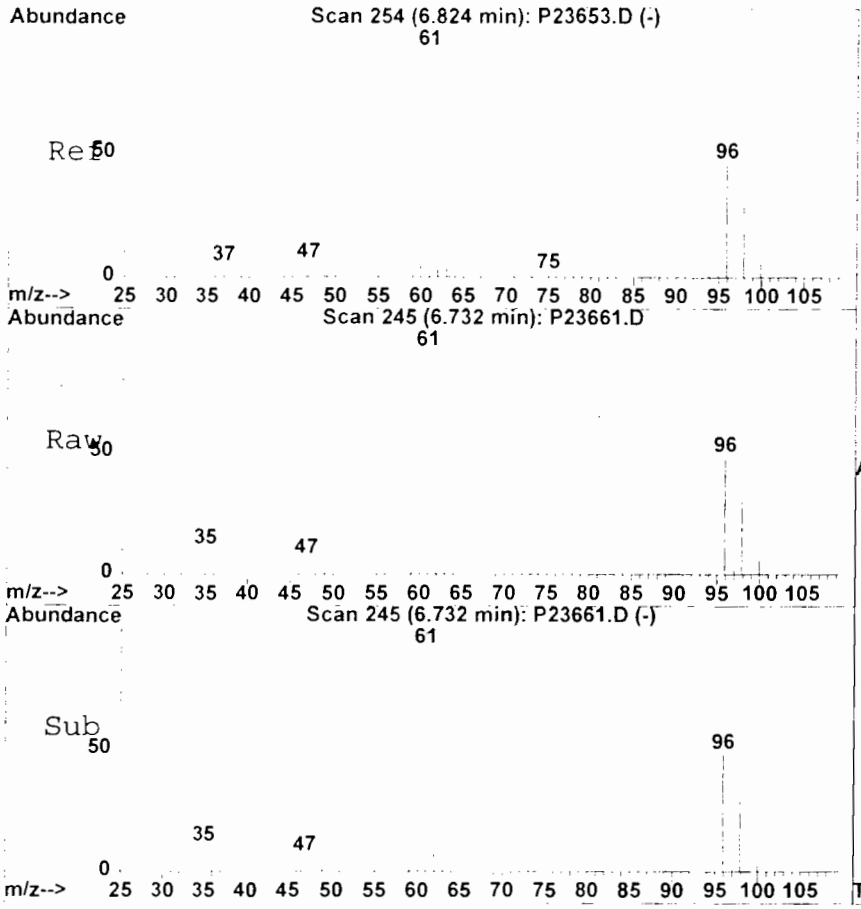
Data File : O:\MS\HP#3\DATA\MAY03\052203\P23661.D Vial: 9
Acq On : 22 May 2003 19:42 Operator: BBL
Sample : 0305404-001AMSD Inst : H5970-3
Misc : ANSSON014,NC2DMSD,H2O,MSD,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 12:59 2003 Quant Results File: OLMW328.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Sun May 18 18:09:20 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D
DataAcq Meth : OLMW328

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.13	128	85114	50.00	ug/l		-0.10
24) 1,4-Difluorobenzene	11.71	114	382040	50.00	ug/l		-0.07
40) Chlorobenzene-d5	18.65	117	257190	50.00	ug/l		-0.05
System Monitoring Compounds							
22) 1,2-Dichloroethane-d4	11.05	65	194072	48.07	ug/l		-0.07
Spiked Amount 50.000	Range 76 - 114		Recovery = 96.14%				
46) Toluene-d8	15.65	98	331938	50.92	ug/l		-0.07
Spiked Amount 50.000	Range 88 - 110		Recovery = 101.84%				
50) 4-Bromofluorobenzene	20.20	95	273319	54.76	ug/l		-0.06
Spiked Amount 50.000	Range 86 - 115		Recovery = 109.52%				
Target Compounds							Qvalue
11) 1,1-Dichloroethene	6.73	96	72866	48.06	ug/l		99
19) 1,2-Dichloroethene (total)	9.47	96	50738	27.12	ug/l	#	14
25) 1,1,1-Trichloroethane	10.56	97	23017	4.58	ug/l		96
32) Trichloroethene	12.51	130	214454	73.70	ug/l		96
34) Benzene	11.32	78	254450	60.90	ug/l		99
43) Tetrachloroethene	17.49	164	135811	51.01	ug/l		98
47) Toluene	15.92	91	340364	61.33	ug/l		99
48) Chlorobenzene	18.70	112	264577	60.41	ug/l		92

ANSON014 V92

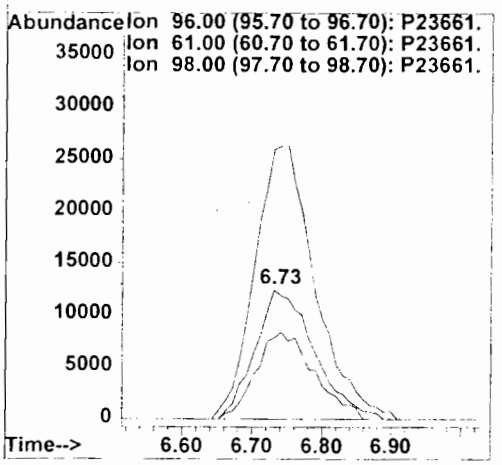
(#) = qualifier out of range (m) = manual integration

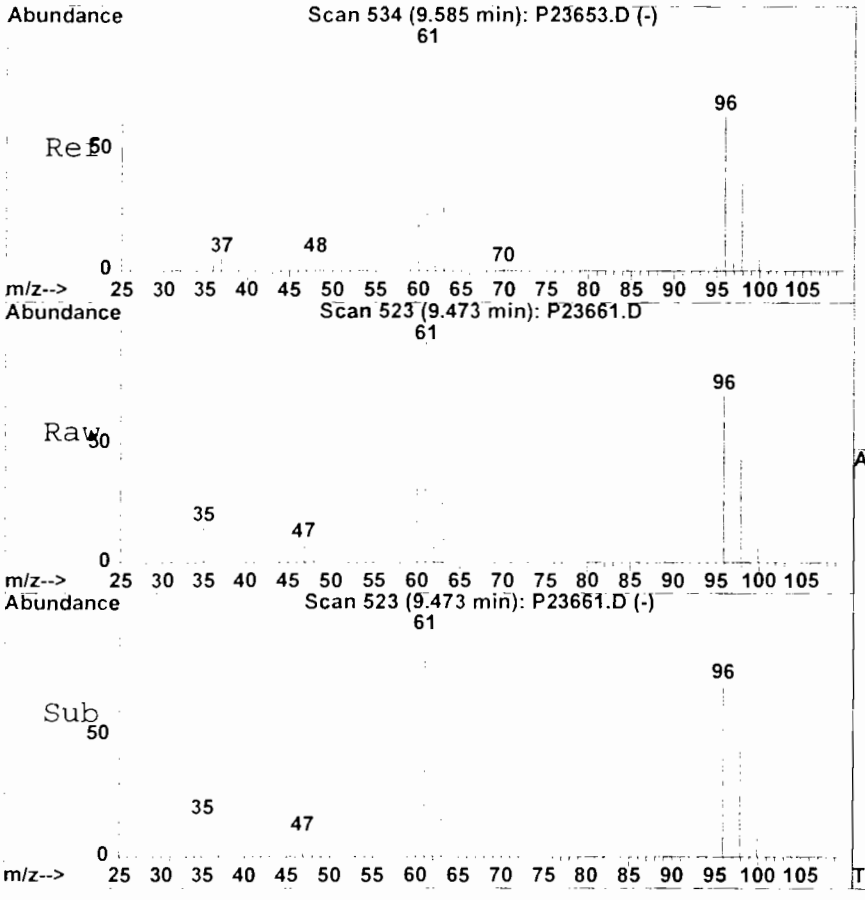


#11
1,1-Dichloroethene
Concen: 48.06 ug/l
RT: 6.73 min Scan# 245
Delta R.T. -0.09 min
Lab File: P23661.D
Acq: 22 May 2003 19:42

Tgt Ion: 96 Resp: 72866

Ion	Ratio	Lower	Upper
96	100		
61	215.4	194.5	234.5
98	66.0	45.6	85.6

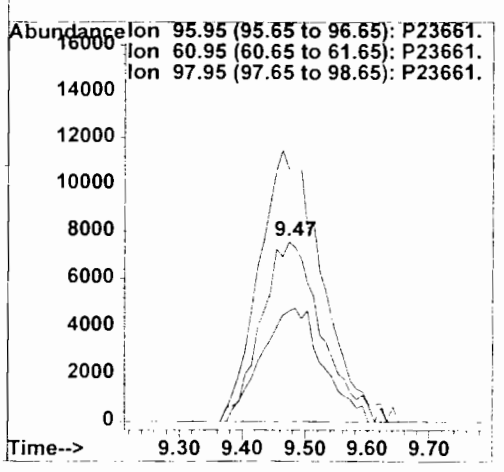




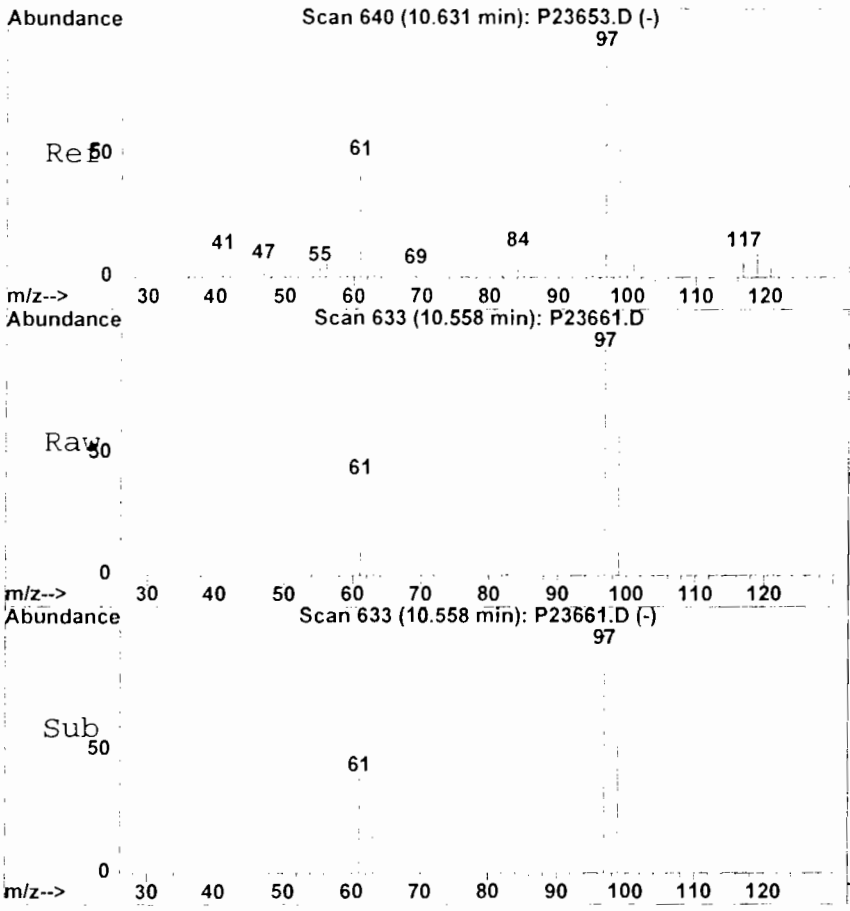
#19
1,2-Dichloroethene (total)
Concen: 27.12 ug/l
RT: 9.47 min Scan# 523
Delta R.T. -0.11 min
Lab File: P23661.D
Acq: 22 May 2003 19:42

Tgt Ion: 96 Resp: 50738

Ion	Ratio	Lower	Upper
96	100		
61	157.2	56.4	96.4#
98	63.9	9.4	49.4#



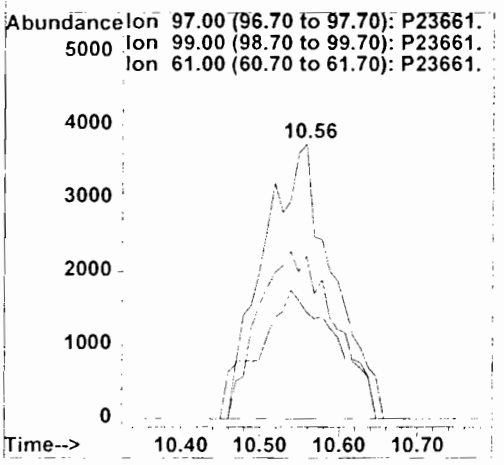
ANSON014 V93

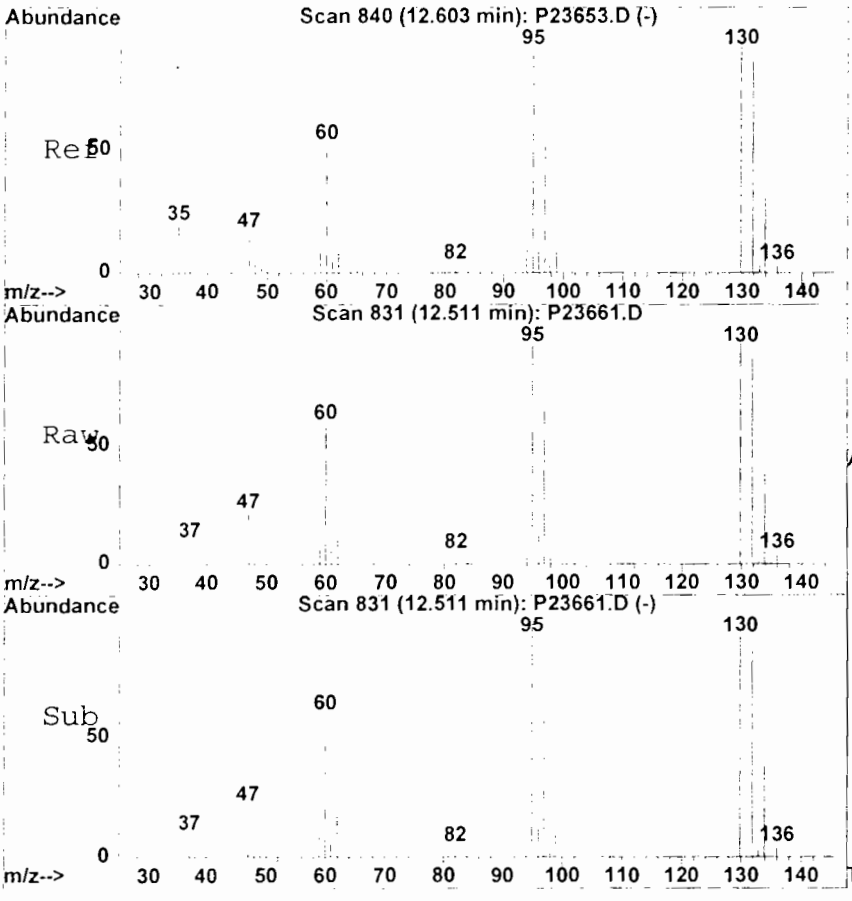


#25
1,1,1-Trichloroethane
Concen: 4.58 ug/l
RT: 10.56 min Scan# 633
Delta R.T. -0.07 min
Lab File: P23661.D
Acq: 22 May 2003 19:42

Tgt Ion: 97 Resp: 23017

Ion	Ratio	Lower	Upper
97	100		
99	65.8	43.9	83.9
61	51.3	26.7	66.7

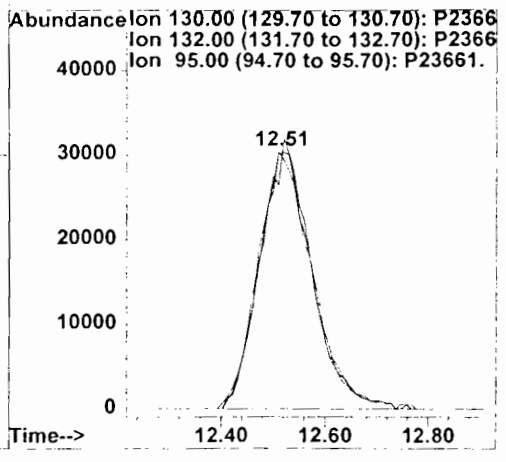




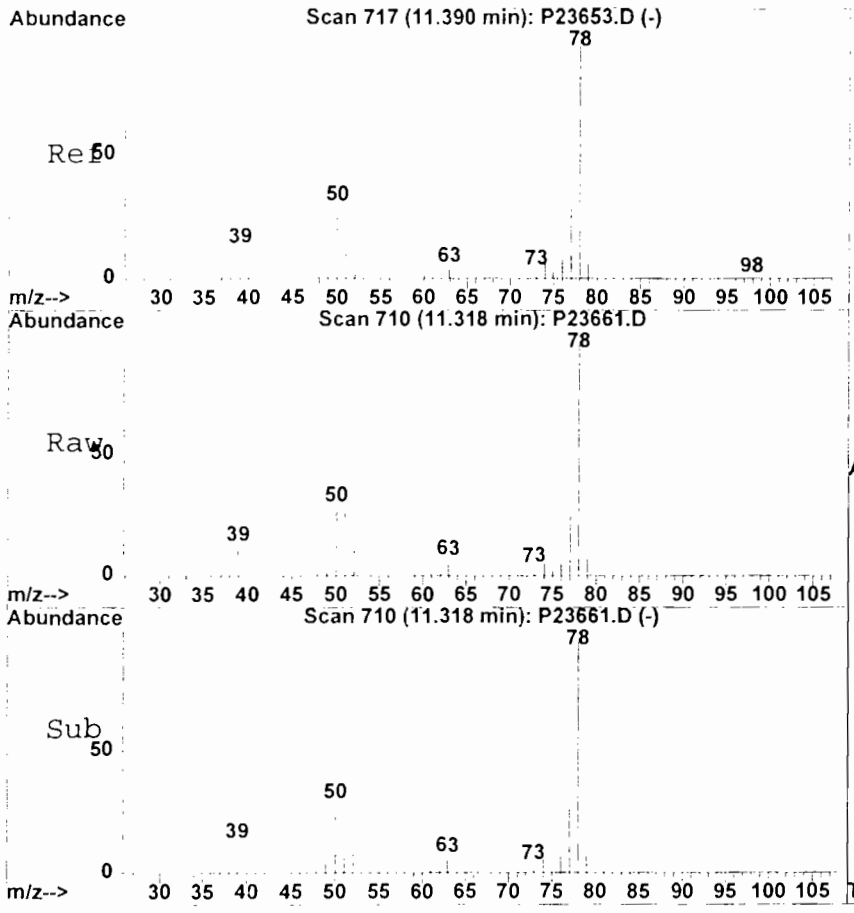
#32
Trichloroethene
Concen: 73.70 ug/l
RT: 12.51 min Scan# 831
Delta R.T. -0.09 min
Lab File: P23661.D
Acq: 22 May 2003 19:42

Tgt Ion:130 Resp: 214454

Ion	Ratio	Lower	Upper
130	100		
132	102.2	79.2	119.2
95	100.8	75.7	115.7



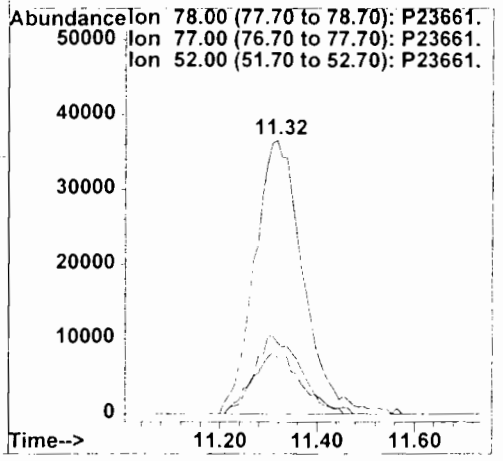
ANSON014 V94

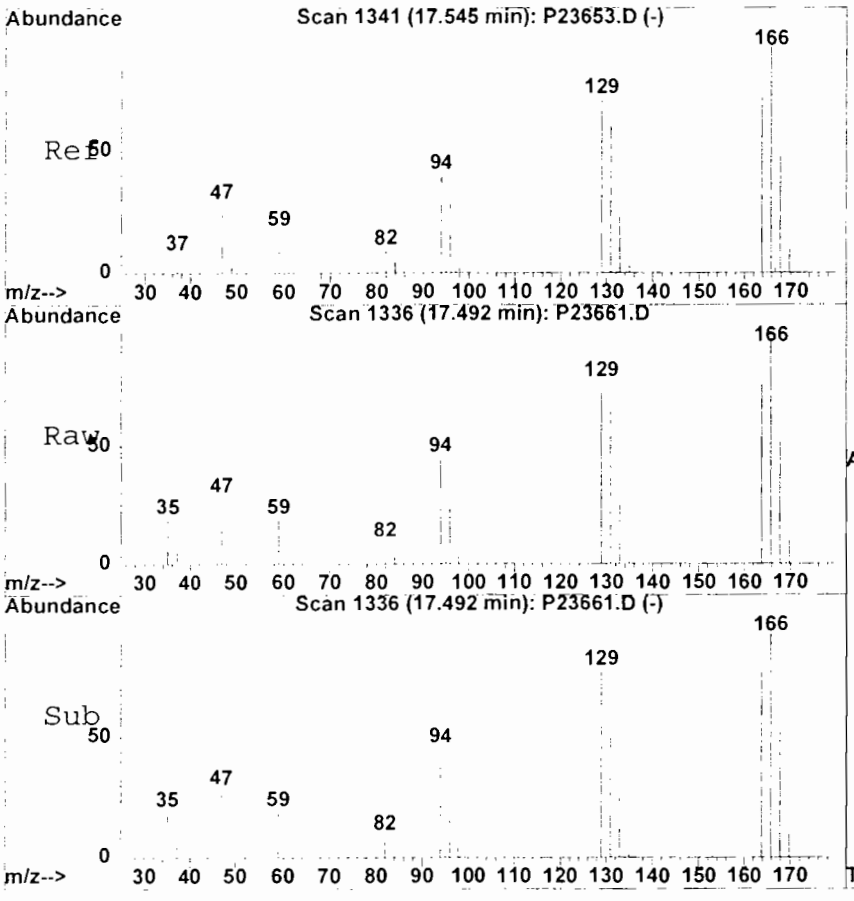


#34
Benzene
Concen: 60.90 ug/l
RT: 11.32 min Scan# 710
Delta R.T. -0.07 min
Lab File: P23661.D
Acq: 22 May 2003 19:42

Tgt Ion: 78 Resp: 254450

Ion	Ratio	Lower	Upper
78	100		
77	27.9	8.0	48.0
52	21.7	2.6	42.6

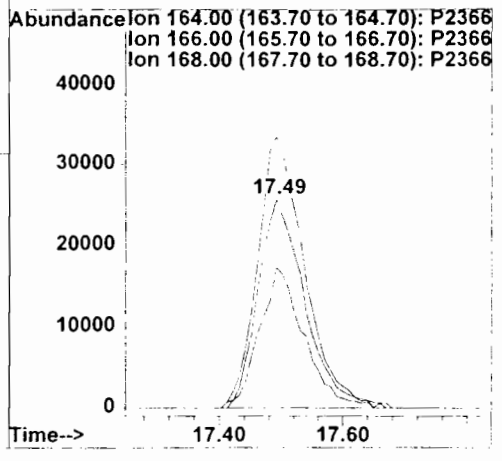




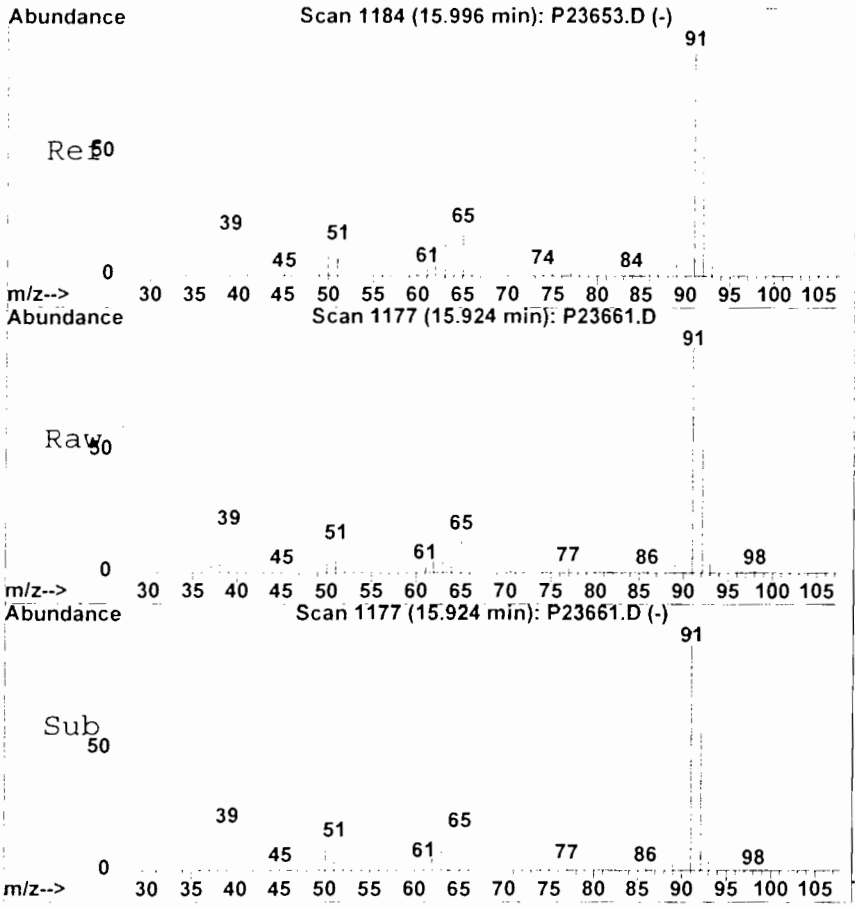
#43
Tetrachloroethene
Concen: 51.01 ug/l
RT: 17.49 min Scan# 1336
Delta R.T. -0.05 min
Lab File: P23661.D
Acq: 22 May 2003 19:42

Tgt Ion:164 Resp: 135811

Ion	Ratio	Lower	Upper
164	100		
166	130.7	113.2	153.2
168	63.8	42.9	82.9



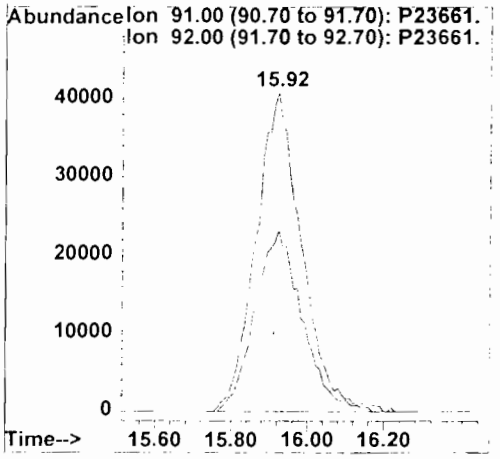
ANSON014 V95

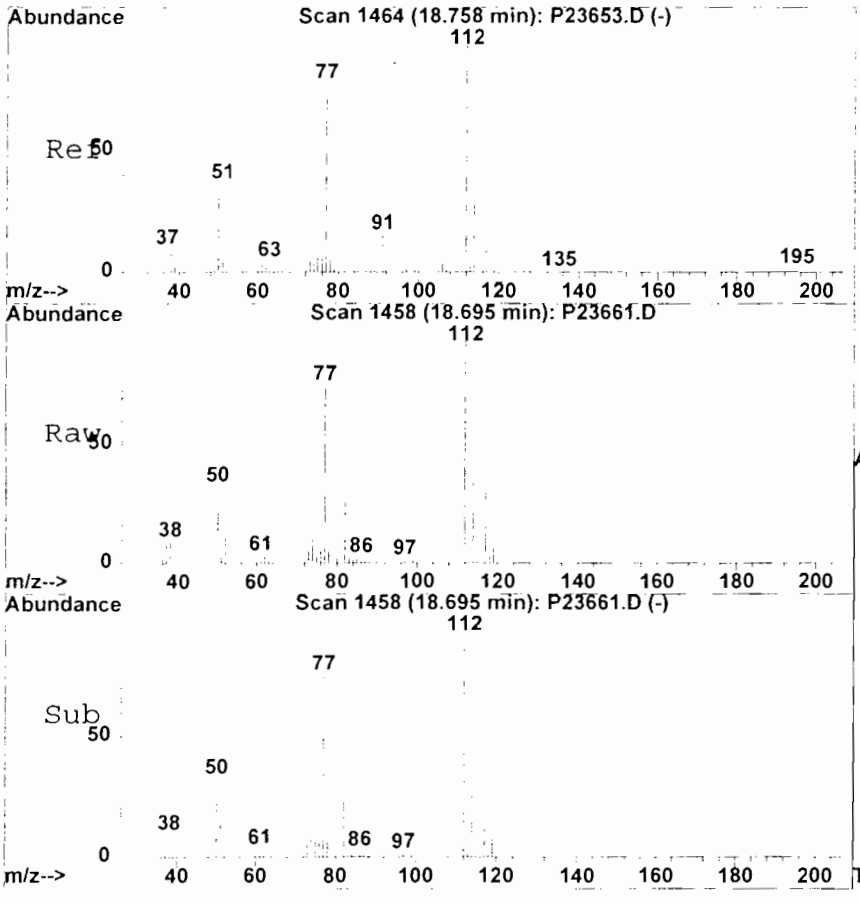


#47
Toluene
Concen: 61.33 ug/l
RT: 15.92 min Scan# 1177
Delta R.T. -0.07 min
Lab File: P23661.D
Acq: 22 May 2003 19:42

Tgt Ion: 91 Resp: 340364

Ion	Ratio	Lower	Upper
91	100		
92	59.1	39.7	79.7

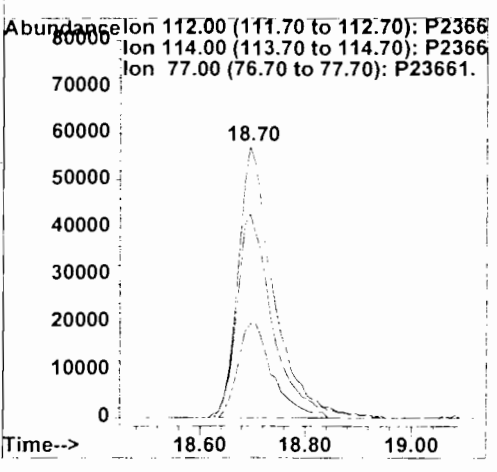




#48
Chlorobenzene
Concen: 60.41 ug/l
RT: 18.70 min Scan# 1458
Delta R.T. -0.06 min
Lab File: P23661.D
Acq: 22 May 2003 19:42

Tgt Ion:112 Resp: 264577

Ion	Ratio	Lower	Upper
112	100		
114	34.3	15.3	55.3
77	76.9	67.0	107.0



ANSON014 V96

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS052203

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: LCS052203

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23656.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	45	
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	57	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	57	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	59	
108-90-7	Chlorobenzene	60	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS052203

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: LCS052203

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23656.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

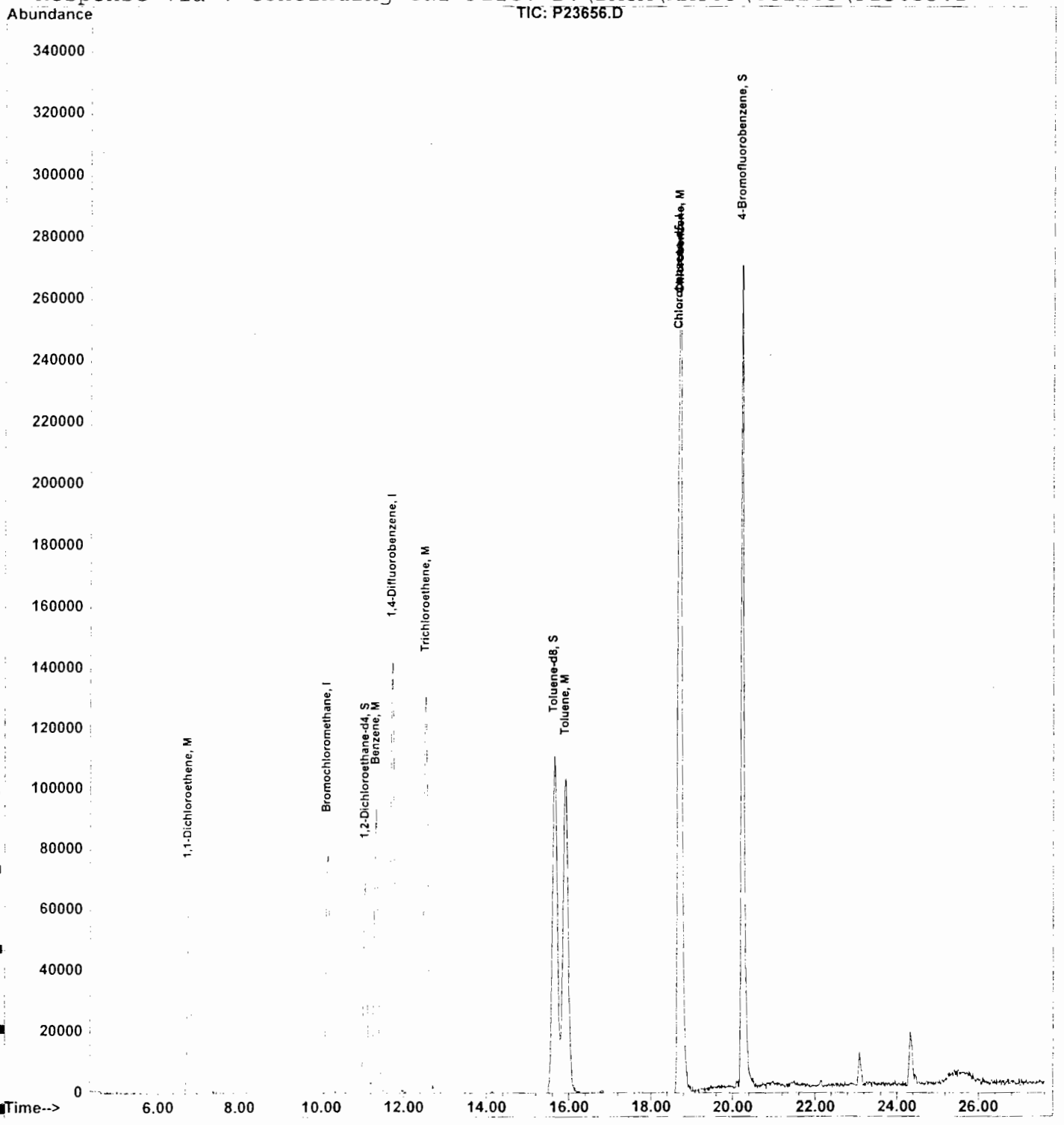
Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23656.D Vial: 4
Acq On : 22 May 2003 16:42 Operator: BBL
Sample : MSB052203 Inst : H5970-3
Misc : ,,,LCS,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 11:48 2003 Quant Results File: OLMW328.RES

Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D



ANSON014 V99

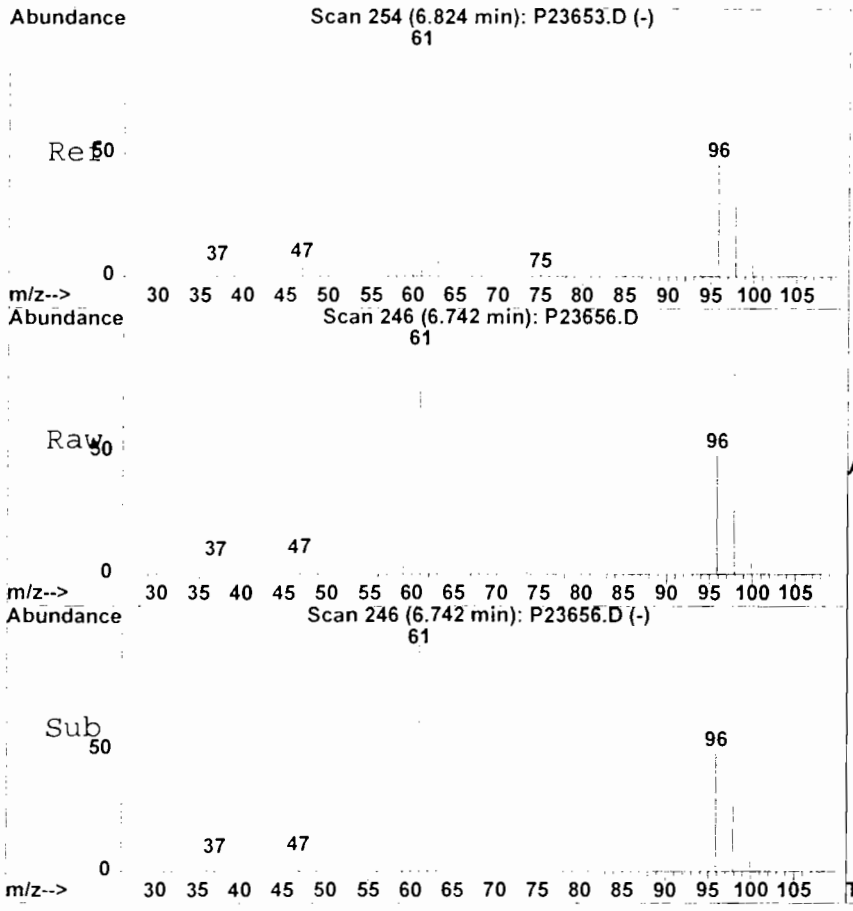
Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23656.D Vial: 4
Acq On : 22 May 2003 16:42 Operator: BBL
Sample : MSB052203 Inst : H5970-3
Misc : ,,,LCS,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 27 11:48 2003 Quant Results File: OLMW328.RES

Quant Method : C:\HPCHEM\1\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Sun May 18 18:09:20 2003
Response via : Continuing Cal File: D:\DATA\MAY03\052203\P23653.D
DataAcq Meth : OLMW328

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.14	128	80847	50.00	ug/l	-0.09
24) 1,4-Difluorobenzene	11.72	114	370148	50.00	ug/l	-0.06
40) Chlorobenzene-d5	18.68	117	268907	50.00	ug/l	-0.02
System Monitoring Compounds						
22) 1,2-Dichloroethane-d4	11.06	65	187090	48.79	ug/l	-0.06
Spiked Amount 50.000	Range 76 - 114		Recovery = 97.58%			
46) Toluene-d8	15.65	98	342024	50.18	ug/l	-0.07
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.36%			
50) 4-Bromofluorobenzene	20.23	95	279877	53.63	ug/l	-0.03
Spiked Amount 50.000	Range 86 - 115		Recovery = 107.26%			
Target Compounds						Qvalue
11) 1,1-Dichloroethene	6.74	96	64161	44.56	ug/l	98
32) Trichloroethene	12.53	130	161499	57.29	ug/l	98
34) Benzene	11.32	78	229498	56.69	ug/l	99
47) Toluene	15.91	91	340255	58.64	ug/l	99
48) Chlorobenzene	18.72	112	272590	59.53	ug/l	92

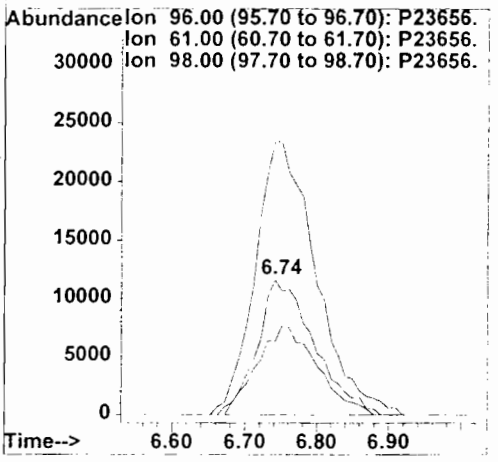
(#) = qualifier out of range (m) = manual integration

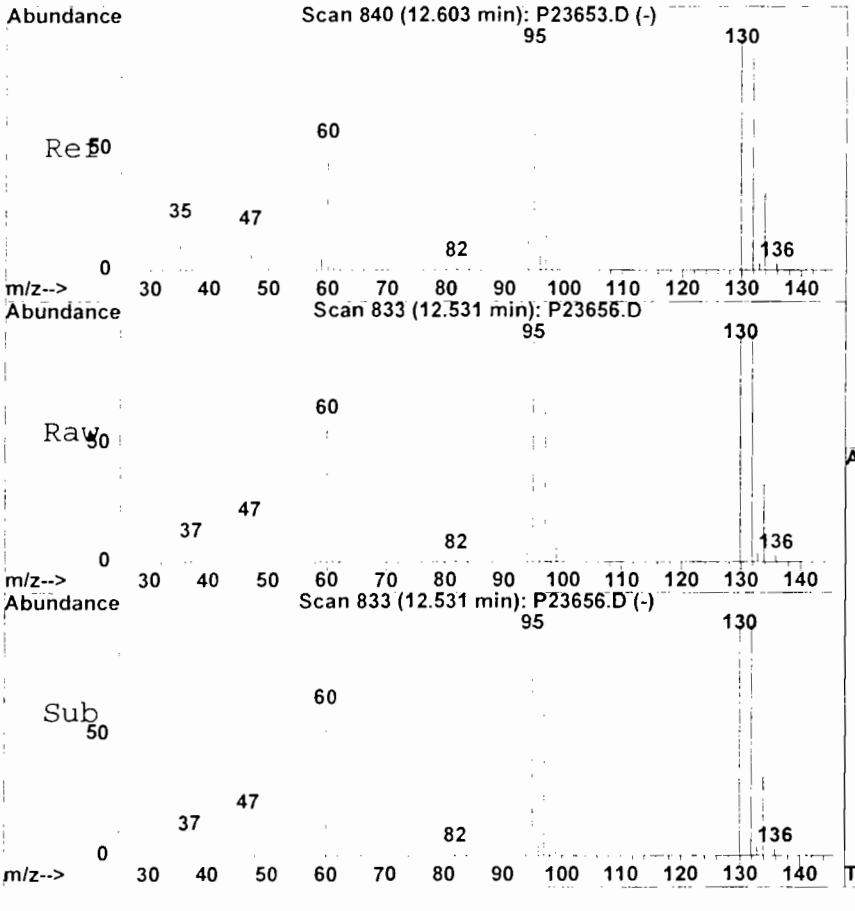


#11
1,1-Dichloroethene
Concen: 44.56 ug/l
RT: 6.74 min Scan# 246
Delta R.T. -0.08 min
Lab File: P23656.D
Acq: 22 May 2003 16:42

Tgt Ion: 96 Resp: 64161

Ion	Ratio	Lower	Upper
96	100		
61	215.7	194.5	234.5
98	69.5	45.6	85.6

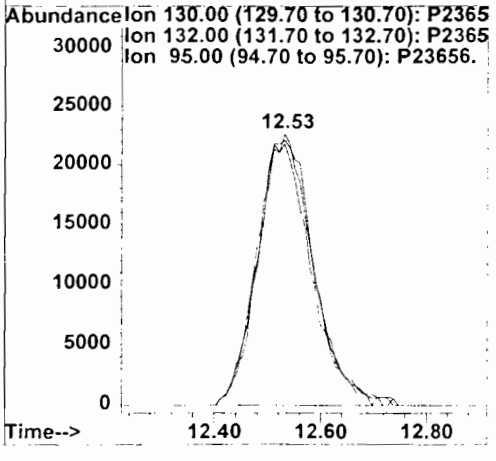




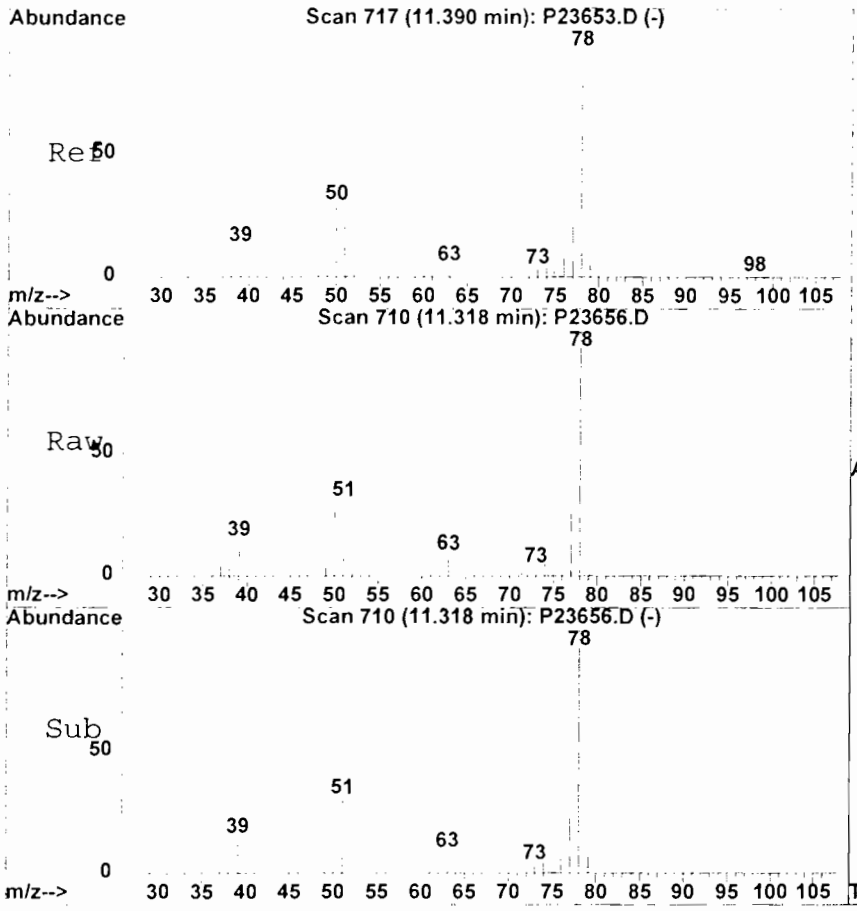
#32
Trichloroethene
Concen: 57.29 ug/l
RT: 12.53 min Scan# 833
Delta R.T. -0.07 min
Lab File: P23656.D
Acq: 22 May 2003 16:42

Tgt Ion:130 Resp: 161499

Ion	Ratio	Lower	Upper
130	100		
132	102.6	79.2	119.2
95	97.2	75.7	115.7



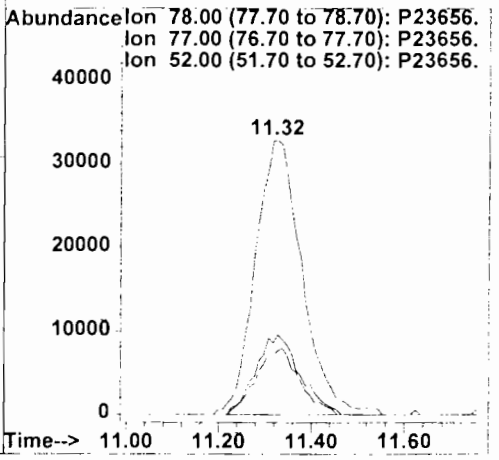
ANSON014 V101

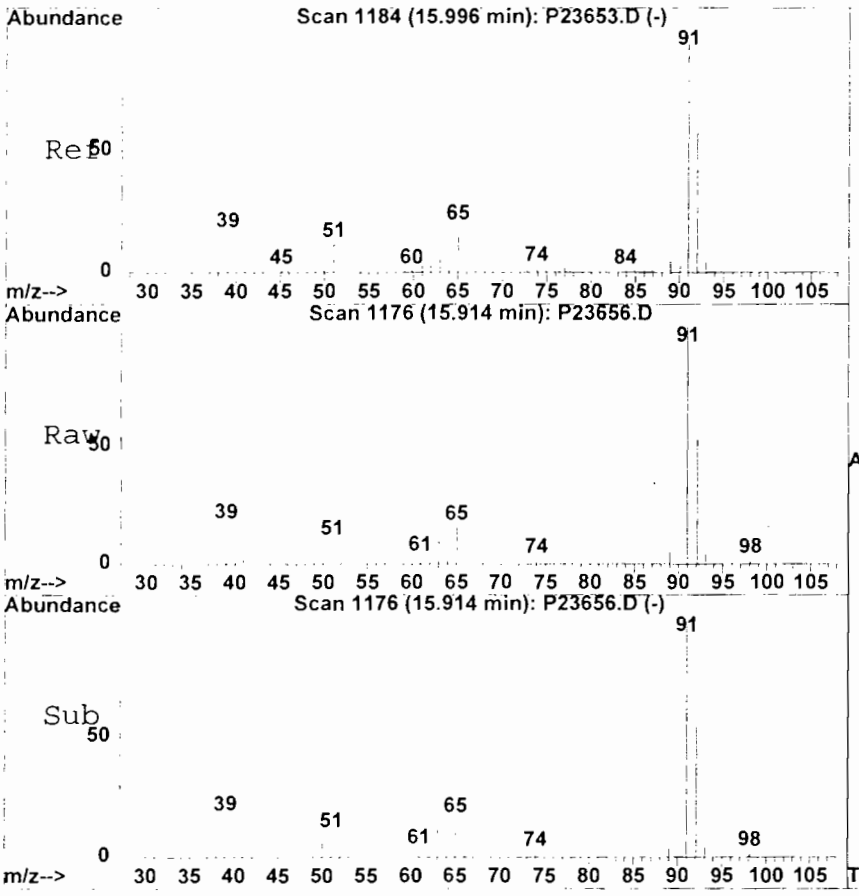


#34
Benzene
Concen: 56.69 ug/l
RT: 11.32 min Scan# 710
Delta R.T. -0.07 min
Lab File: P23656.D
Acq: 22 May 2003 16:42

Tgt Ion: 78 Resp: 229498

Ion	Ratio	Lower	Upper
78	100		
77	27.4	8.0	48.0
52	22.2	2.6	42.6

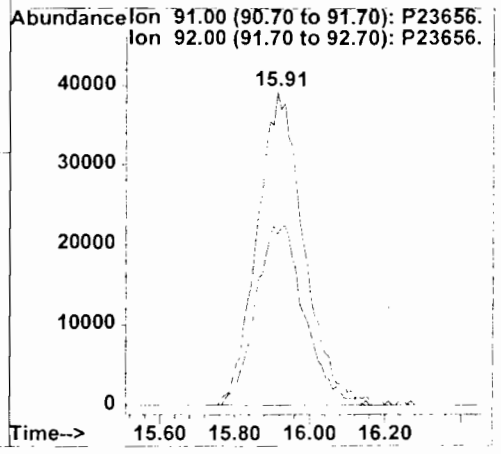




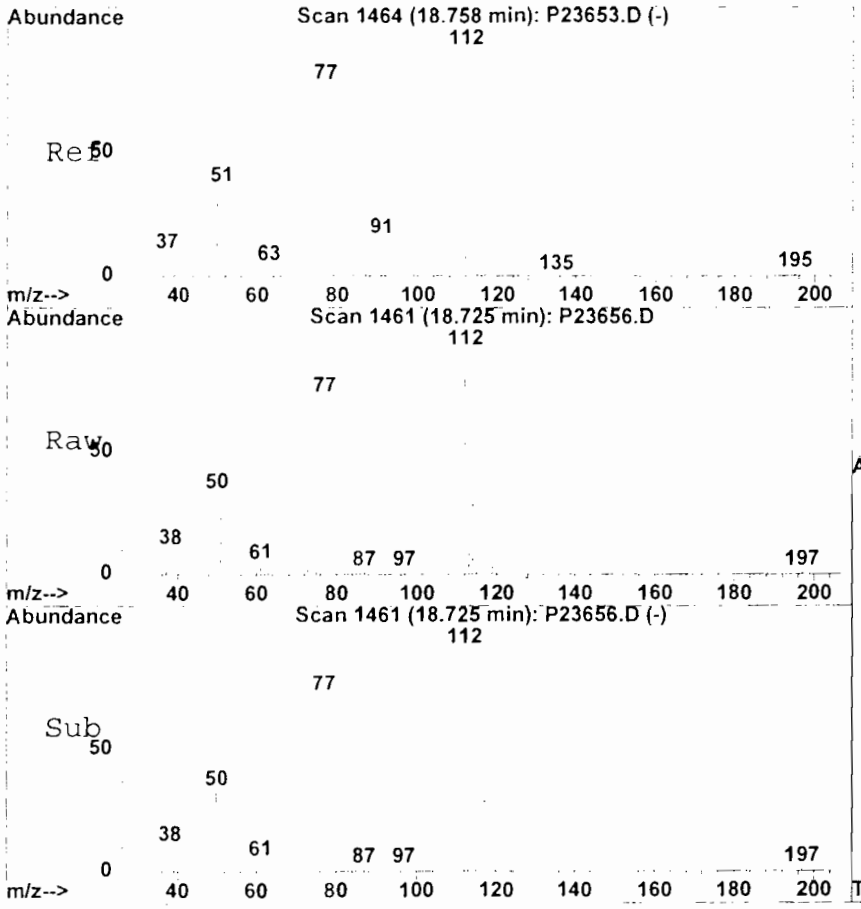
#47
Toluene
Concen: 58.64 ug/l
RT: 15.91 min Scan# 1176
Delta R.T. -0.08 min
Lab File: P23656.D
Acq: 22 May 2003 16:42

Tgt Ion: 91 Resp: 340255

Ion	Ratio	Lower	Upper
91	100		
92	59.1	39.7	79.7



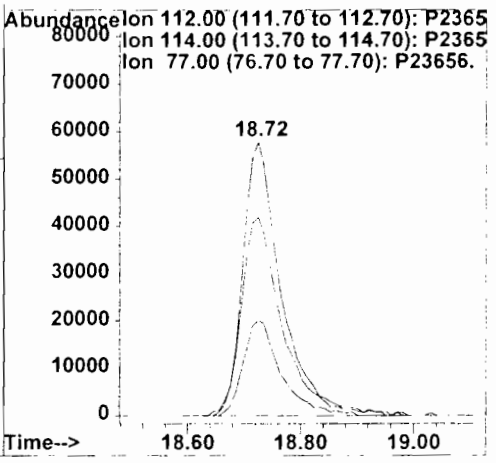
ANSON014 V102



#48
Chlorobenzene
Concen: 59.53 ug/l
RT: 18.72 min Scan# 1461
Delta R.T. -0.03 min
Lab File: P23656.D
Acq: 22 May 2003 16:42

Tgt Ion:112 Resp: 272590

Ion	Ratio	Lower	Upper
112	100		
114	34.2	15.3	55.3
77	77.6	67.0	107.0



ANSON014 V103

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFB052203

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: LFB052203

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23655.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	43	
74-83-9	Bromomethane	52	
75-01-4	Vinyl chloride	49	
75-00-3	Chloroethane	41	
75-09-2	Methylene chloride	43	
67-64-1	Acetone	35	
75-35-4	1,1-Dichloroethene	48	
75-15-0	Carbon disulfide	52	
75-34-3	1,1-Dichloroethane	50	
540-59-0	1,2-Dichloroethene (total)	100	
67-66-3	Chloroform	51	
107-06-2	1,2-Dichloroethane	49	
78-93-3	2-Butanone	42	
71-55-6	1,1,1-Trichloroethane	59	
56-23-5	Carbon tetrachloride	61	
75-27-4	Bromodichloromethane	55	
78-87-5	1,2-Dichloropropane	55	
10061-01-5	cis-1,3-Dichloropropene	52	
79-01-6	Trichloroethene	57	
124-48-1	Dibromochloromethane	52	
79-00-5	1,1,2-Trichloroethane	52	
71-43-2	Benzene	55	
10061-02-6	trans-1,3-Dichloropropene	51	
75-25-2	Bromoform	51	
108-10-1	4-Methyl-2-pentanone	48	
591-78-6	2-Hexanone	46	
127-18-4	Tetrachloroethene	57	
79-34-5	1,1,2,2-Tetrachloroethane	49	
108-88-3	Toluene	54	
108-90-7	Chlorobenzene	53	
100-41-4	Ethylbenzene	50	
100-42-5	Styrene	52	

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFB052203

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON014

Matrix: (soil/water) WATER Lab Sample ID: LFB052203

Sample wt/vol: 5 (g/mL) ML Lab File ID: 3\P23655.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/22/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

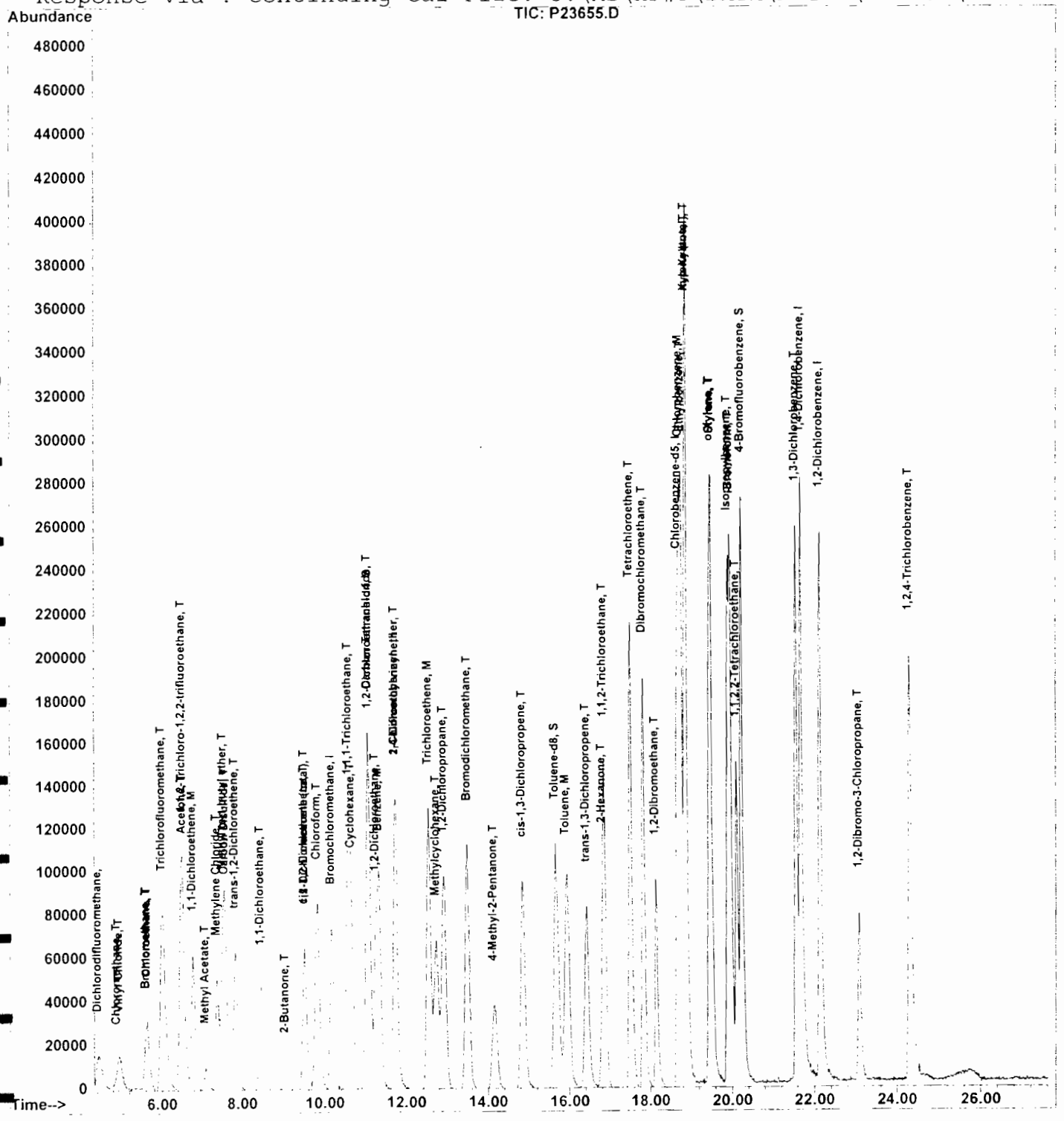
Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	160	

Quantitation Report

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23655.D Vial: 3
Acq On : 22 May 2003 16:07 Operator: BBL
Sample : LFB052203 Inst : H5970-3
Misc : ,,,LFB,, Multiplr: 1.00
MS Integration Params: lscint.P
Quant Time: May 27 13:41 2003 Quant Results File: OLMW328.RES

Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: O:\MS\HP#3\DATA\MAY03\052203\P23653.D



ANSON014 V106

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23655.D Vial: 3
Acq On : 22 May 2003 16:07 Operator: BBL
Sample : LFB052203 Inst : H5970-3
Misc : ,,,LFB,, Multiplr: 1.00
MS Integration Params: lscint.P
Quant Time: May 27 13:41 2003 Quant Results File: OLMW328.RES

Quant Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: O:\MS\HP#3\DATA\MAY03\052203\P23653.D
DataAcq Meth : OLMW328

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	10.18	128	77109	50.00	ug/l		-0.06
24) 1,4-Difluorobenzene	11.73	114	349312	50.00	ug/l		-0.06
40) Chlorobenzene-d5	18.67	117	265213	50.00	ug/l		-0.03
System Monitoring Compounds							
22) 1,2-Dichloroethane-d4	11.08	65	176541	48.27	ug/l		-0.05
Spiked Amount 50.000	Range 76 - 114		Recovery = 96.54%				
46) Toluene-d8	15.66	98	326430	48.56	ug/l		-0.06
Spiked Amount 50.000	Range 88 - 110		Recovery = 97.12%				
50) 4-Bromofluorobenzene	20.23	95	260211	50.56	ug/l		-0.04
Spiked Amount 50.000	Range 86 - 115		Recovery = 101.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.43	85	86010	40.64	ug/l	#	98
3) Chloromethane	4.89	50	32159	42.50	ug/l		81
4) Bromomethane	5.60	94	58944	52.25	ug/l		100
5) Vinyl Chloride	4.97	62	52411	48.82	ug/l		90
6) Chloroethane	5.64	64	40221	41.06	ug/l	#	100
7) Methylene Chloride	7.39	84	67203	42.70	ug/l		96
8) Acetone	6.53	43	21282	34.74	ug/l		60
9) Carbon Disulfide	7.60	76	135987	52.17	ug/l		99
10) Methyl Acetate	7.10	43	42891	39.17	ug/l	#	84
11) 1,1-Dichloroethene	6.78	96	65420	47.63	ug/l		99
12) 1,1-Dichloroethane	8.45	63	167720	50.44	ug/l		99
13) Methyl tert-butyl ether	7.53	73	265116	43.01	UG/L		98
14) Trichlorofluoromethane	6.01	101	332682	41.41	UG/L		99
15) 1,1,2-Trichloro-1,2,2-trif	6.50	101	179077	56.20	UG/L		98
17) trans-1,2-Dichloroethene	7.82	96	76507	49.86	UG/L		95
18) cis-1,2-Dichloroethene	9.52	96	93769	50.71	UG/L		93
19) 1,2-Dichloroethene (total)	9.52	96	170569m	100.62	ug/l		
20) 2-Butanone	9.06	43	32309	42.07	UG/L		85
21) Chloroform	9.82	83	255006	51.41	ug/l		99
23) 1,2-Dichloroethane	11.25	62	210843	49.00	ug/l		99
25) 1,1,1-Trichloroethane	10.58	97	271300	59.01	ug/l		98
26) Cyclohexane	10.66	56	89920	62.28	ug/l		98
27) Carbon Tetrachloride	11.06	117	248730	60.51	ug/l		99
28) 2-Chloroethylvinyl ether	11.75	63	88393	95.22	ug/l	#	100
29) Bromodichloromethane	13.48	83	279853	54.83	ug/l		99
30) 1,2-Dichloropropane	12.92	63	96815	55.20	ug/l		89
31) cis-1,3-Dichloropropene	14.84	75	187384	52.33	ug/l		96
32) Trichloroethene	12.55	130	151977	57.13	ug/l		95

5/27/03

(#) = qualifier out of range (m) = manual integration

ANSON014 V107

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP#3\DATA\MAY03\052203\P23655.D Vial: 3
Acq On : 22 May 2003 16:07 Operator: BBL
Sample : LFB052203 Inst : H5970-3
Misc : ,,,LFB,, Multiplr: 1.00
MS Integration Params: lscint.P
Quant Time: May 27 13:41 2003 Quant Results File: OLMW328.RES

Quant Method : O:\MS\HP#3\METHODS\OLMW328.M (RTE Integrator)
Title : CLP OLM 04.1
Last Update : Tue May 27 11:45:35 2003
Response via : Continuing Cal File: O:\MS\HP#3\DATA\MAY03\052203\P23653.D
DataAcq Meth : OLMW328

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
33) Methylcyclohexane	12.73	83	99177	60.19 ug/l	95
34) Benzene	11.34	78	209093	54.73 ug/l	97
35) Dibromochloromethane	17.83	129	283887	51.71 ug/l	99
36) 1,2-Dibromoethane	18.14	107	172332	51.74 ug/l	96
37) trans-1,3-Dichloropropene	16.42	75	178852	50.63 ug/l	97
38) 1,1,2-Trichloroethane	16.86	97	121508	51.62 ug/l	96
39) Bromoform	19.95	173	243656	51.32 ug/l	99
41) 4-Methyl-2-Pentanone	14.14	43	127146	47.76 ug/l	98
42) 2-Hexanone	16.81	43	82171	45.69 ug/l	94
43) Tetrachloroethene	17.51	164	155644	56.70 ug/l	97
44) Isopropylbenzene	19.90	105	414376	57.26 ug/l	98
45) 1,1,2,2-Tetrachloroethane	20.11	83	157972	48.77 ug/l	99
47) Toluene	15.93	91	310806	54.31 ug/l	97
48) Chlorobenzene	18.72	112	240957	53.35 ug/l	97
49) Ethylbenzene	18.78	106	89078m	49.63 ug/l	
51) Styrene	19.50	104	197871	51.99 ug/l	95
52) m,p-Xylene	18.88	106	261717	106.43 UG/L	92
53) o-Xylene	19.46	106	128394	52.55 UG/L	92
54) Xylene (total)	18.88	106	390407m	159.79 ug/l	
55) 1,3-Dichlorobenzene	21.57	146	258313	53.54 ug/l	99
56) 1,4-Dichlorobenzene	21.68	146	329261	53.25 ug/l	100
57) 1,2-Dichlorobenzene	22.14	146	294504	53.72 ug/l	98
58) 1,2-Dibromo-3-Chloropropan	23.08	75	66613	39.82 ug/l	93
59) 1,2,4-Trichlorobenzene	24.32	180	240995	45.44 ug/l	96

(#) = qualifier out of range (m) = manual integration

H2M LABS, INC.

COMPUTATIONS FOR VOLATILE ORGANICS
PERFORMED BY RTE DATA SYSTEM OF HP

$$CONC = \frac{Ax}{Ais \times RRF} \quad \frac{Is}{W}$$

WHERE:

CONC = Concentration in sample (ug/L or ug/KG)

Ax = Area of characteristic ion of compound

Ais = Area of characteristic ion of internal standard

RRF = Relative response factor as area per (ng) of compound, divided by area per ng of respective internal standard

Is = Amount of internal standard injected (ng)

W = Volume of sample in (ml) or dry weight (g)

Generally the amount of each internal standard injected is 250 ng.

H2M LABS, INC.

V. DOCUMENTATION FOR VOLATILE ORGANICS

A. LOG BOOK PAGES
B. REPORTING ANALYST SIGNATURE PAGE

I.S.		
MS		
QC CHECK		
CALIBRATION		

SCAN: VOA INSTRUMENT: HP5970-3 COLUMN: RTX 502.2

ANALYST'S SIGNATURE	DATE	RUN #	LAB SAMPLE ID	CLIENT SAMPLE ID	INJ TIME	VOL WT	HEAT. PURG. Y/N	METHOD	TRAY POS.	QDEL	IMPORT	TEST CODE	SDG	COMMENTS
RSL	03/27/03	P22987	0303505-004A	MS GWMW-8(2-8)	0014	5.0mL	N	OLMW020B		~		ASPUS-8260-W	VHB007	
		988	-004A	MSD -08(2-8)	0049					~				
		989	0303535-001A	MW-1	0125					~			VHBCT00	
		990	-002A	MW-2	0200					~				
		991	-003A	MW-3	0235					~				
		992	-004A	MW-4	0310					~				
		993	-005A	MW-5	0345					~				
		994	-006A	MW-6	0420					~				
		995	0303550-003A	DW-3	0455					✓			VHB007	BFB EXP.
		996	-004A	GWMW-09(21-27)	0529					~				Dilute 1:5
		997	-005A	-09(28-32)	0605					~				Dilute 1:5
DF	03/28/03	P22998	50 NG BFB		1237	1.0mL	N	BFBHP#3						
		999	VSTD050		1252	5.0mL		OLMW020B						
		P23000	VSTD020	High	1434									
		001	VSTD010		1509									
		002	VSTD100	OLMW328	1544									
		003	VSTD200	#701	1618									
		004	VSTD020		1653									
		005	50 NG BFB		1735			OLMW328						
		006	VSTD050		1900									
		007	VBLK032803		1935									
		008	VBLK032803		2012									
		009	LFB032803		2047									

GC/MS VOLATILE ANALYSIS

	LOT #	SOLN ID
SURR.		
I.S.		
MS		
QC CHECK		
CALIBRATION		

SCAN: VOA INSTRUMENT: HP6890-3 COLUMN: Rtx502.2

ANALYST'S SIGNATURE	DATE	RUN #	LAB SAMPLE ID	CLIENT SAMPLE ID	INJ TIME	VOL WT	HEAT. PURG. Y/N	METHOD	TRAY POS.	QDEL	IMPORT	TEST CODE	SDG	COMMENTS
BMcLynch	5/21/03	F23631	0305451-CC1A	HHGS 52(40-50)	1441	5.0	Y	OLMS0423						
		632	-CC1A	"	1517									
		633	VBLK		1548									
		634	0305688-CC1A		1618									RE
		635	0305577-CC3A	SB-1 1-8 FT	1649								BFB24	
		636	-CC4A	SB-2 4FT	1719									DILUTE 1:10
		637	-CC1A	PRIMARY A FCC	1750									
		638	-CC2A	PRIMARY B FCC	1821									
		639	0305614-CC1A	SB-3 19-20 FT BGS	1852									RE
		640	-CC2A	SB-4 15-16 FT BGS	1923									
		641	-CC2AMS	" MS	1953									
		642	-CC2AMSD	" MSD	2024									
		643	-CC3A	SB-5 19 FT BGS	2055									
		644	-CC4A	SB-6 14 FT	2125									RE
		645	-CC5A	SB-7 8-10 FT	2156									
		646	-CC6A	SB-7 24-26 FT	2226									
		647	0305577-CC1A	PRIMARY A FCC	2257									~~RE~~
		648	-CC4A	SB-2 4FT	2328	1.5								DILUTE 1:10
		649	VBLK		2358									
		650			0029									
		651			0100									
BMcLynch	5/22/03	F23652	50ng BFB		1301	1ml	N	OLMW328						
"	"	F23653	VSTD050		1431	5ml	"	"						

:/MS LAB ANALYSIS

SCAN: VOA INSTRUMENT: H5970-3 COLUMN: RTX502.2

SURR.		
I.S.		
MS		
QC CHECK		
CALIBRATION		

ANALYST'S SIGNATURE	DATE	RUN #	LAB SAMPLE ID	CLIENT SAMPLE ID	INJ TIME	VOL WT	HEAT. PURG. Y/N	METHOD	TRAY POS.	QDEL	IMPORT	TEST CODE	SDG	COMMENTS
GB Brunschwig	5/22/03	P23654	VBLK052203		1531	5ml	N	OLMW328						
		655	LFB052203		1607									
		656	MSB052203		1642									
		657	0305404-002A	P3	1720							ASPBS 8260_W	ANSON014	
		658	-001A	NC2D	1755									
		659	-003A	Trip Blank 5/14	1832									
		660	-001A MS	NC2D MS	1907									
		661	-001A MSD	NC2D MSD	1942									
		662	0305573-001A	HGP-30 (54-58)	2017								VHB013	
		663	-002A	(64-68)	2052									
		664	-003A	TB051903	2127									
		665	0305588-002A	FB052003	2202								VHB012	
		666	0305614-007A	Field Blank	2238								BER001	
		667	0305648-001A	HHGP-31 (63-67)	2313								VHB013	
		668	-002A	(74-78)	2348									
		669	-003A	FB052203	0023									
		670	-004A	TB052203	0059									
↓	↓	671	0305342-001A		0134	↓	↓	↓		✓	✓	1311-V		C 1.10000
GB Brunschwig	5/21/03	P23672	50 ng BFB			1ul		BFBHP#3						

ANSON014 V113

H2M LABS, INC.

SDG # ANSON014
SCAN: VOA

This data package was reported by the undersigned. This reporting includes data calculations, manual edits, if necessary, and compilation of raw data. The information presented is true and correct to the best of my knowledge.

Signature:

5/27/2003

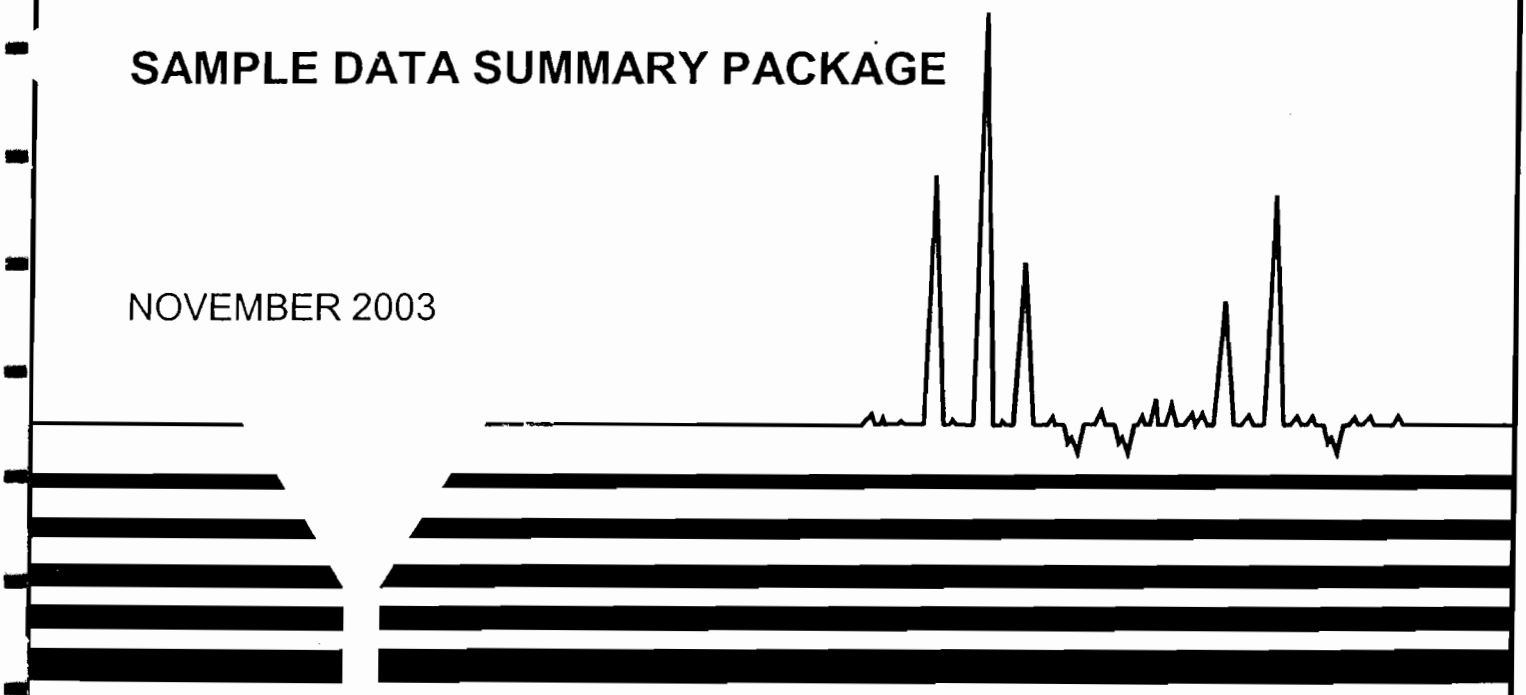
Analytical Data Package For

ANSON ENVIRONMENTAL
ATLAS GRAPHICS
SDG NO: ANSON015

Water Samples
Received: 11/13/03

SAMPLE DATA SUMMARY PACKAGE

NOVEMBER 2003



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

SAMPLE DATA SUMMARY PACKAGE

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ANSON ENVIRONMENTAL, LTD.
PROJECT NO.: 00025
PROJECT NAME: ATLAS GRAPHICS
SAMPLES RECEIVED: 11/13/03
SDG NO.: ANSON015

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2. CHAIN OF CUSTODY DOCUMENTATION

3. SDG NARRATIVES

4. SAMPLE REPORTS
   4.1 VOLATILES

5. SURROGATE SPIKE ANALYSIS RESULTS
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   6.1 VOLATILES

7. BLANK SUMMARY DATA AND RESULTS
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8. INTERNAL STANDARD AREA DATA
   8.1 VOLATILES

1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
ANSON ENVIRONMENTAL, LTD.
ATLAS GRAPHICS
PROJECT NO. 00025
SAMPLES RECEIVED: 11/13/03
SDG #: ANSON015

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*GC VOA	PCB	*METALS	OTHER TS
NC2D	0311385-001	X					
NCP2	0311385-002	X					
TRIP BLANK	0311385-003	X					

* Check Appropriate Boxes
* CLP, ~~Non-CLP~~ (Please indicate year of protocol) ASP B 10/95
* TCL/TAL, HCL, TS

ANSON015 S3

VOLATILE SAMPLE ANALYSIS SUMMARY

ANSON015

EPAsampID	Matrix	CollectDate	DateReceived	Level	AnalDate	DF
NC2DMS	Aqueous	13-Nov-03	13-Nov-03	LOW	19-Nov-03	1
NC2DMSD	Aqueous	13-Nov-03	13-Nov-03	LOW	19-Nov-03	1
NC2D	Aqueous	13-Nov-03	13-Nov-03	LOW	19-Nov-03	1
NCP2	Aqueous	13-Nov-03	13-Nov-03	LOW	19-Nov-03	1
TRIP BLANK	Aqueous	13-Nov-03	13-Nov-03	LOW	19-Nov-03	1

H2M LABS, INC.

2. CHAIN OF CUSTODY DOCUMENTATION

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

CLIENT: Anson Environmental Ltd

H2M SDG NO: ANSON015

PROJECT NAME/NUMBER: Atlas Graphics 00025

SAMPLERS: (signature)/Client

Matthew F. Schieferstein

DELIVERABLES: NYSDEC ASP CAT B 3260

TURNAROUND TIME: Normal TAT

NOTES:

Project Contact: Dean Anson

Phone Number: 631-351-3555 x12

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description: 40 ml VOA Vial	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
11/13	14:22	W	NC2D	6	X						0311385-001	MS MSD
11/13	14:40 (5515)	W	NCP2	2	X						002	
11/13	(5515)		TB (5515)	2							003	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/13/03	1515 1450		11/13/03	15:15
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain:

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt Y or N

ANSON015 S6

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

~~CRA4119~~ 11/13/03
ANSON015

H2M LABS, INC.

Sample Receipt Checklist

Client Name **ANSON** Date and Time Receive **11/13/2003 3:15:00 PM**

Work Order Numbe **0311385** Received by **SD**

Checklist completed b _____ Signature 11/13/03 Date Reviewed by SMB Initials 11/14/03 Date

Matrix Carrier name Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
" samples received within holding time?	Yes ☑	No ☐	
ontainer/Temp Blank temperature in compliance?	Yes ☑	No ☐ <6°c	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: On COC the following information was not recorded: times of collection, the field I.D. for the second sample and the trip blank. Information was collected from sample labels.

Corrective Action _____

ANSON015 S7

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: [illegible] DELIVERABLES: B's 70 TURN AROUND TIME: 21 Days

DG #: [illegible] CASE #: _____ MATRIX: Aqueous pH CHECK Y or (N)

REMARKS: _____

RECEIVED BY: [illegible] SIGNATURE: [illegible] DATE: 11/13/03 TIME: 15:15

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
NCDD MS/MSD	311345-311346	11/13/03	DH	4 6	ASPBS-8260-CO
NCPD	311347			2	
TRIP BLANK	311348			2	

VOLATILE

P 0232

ANSON015 S8

2M LABS, INC.

T: ____________

G #: ____________

INTERNAL CHAIN OF CUSTODY

TE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
	17 40	SIGN	SIGN	DH	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

VOLATILE

3. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSES
SAMPLE RECEIVED: 11/13/03
SDG #: ANSON015

For Samples:

NC2D MS/MSD
NCP2
TRIP BLANK

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 8260B for the TCL volatile organic analytes.

All QC data and the calibrations met the requirements of the protocol. The following should be noted:

- Sample NC2D was analyzed as the matrix spike/matrix spike duplicate.
- A lab fortified blank was analyzed. All percent recoveries were within QC limits.
- In the continuous calibration on 11/19/03, %D for tetrachloroethene exceeded 25% D but met the limit of 40% for the exceptions.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. 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.

Date Reported: December 1, 2003

****
* *
* *
****
Joann M. Slavin
Laboratory Manager

o:\qc\narr2003\anson\voa\anson015.rtf

ANSON015 SII 12/4/03

4. SAMPLE REPORTS

4.1 VOLATILES

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

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

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\% moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported of Form I with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU' or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

X- Indicates that the amount of the total was determined by manual integration.

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2D

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36848.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	UG/L	Q
1330-20-7	Xylene (total)		10	U

1F

EPA SAMPLE NO.

NC2D

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36848.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

Number TICs found: 0 CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NCP2

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36849.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	5	J
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	4	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NCP2

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36849.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

NCP2

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36849.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	7.92	10	NJ

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36847.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	5	J
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36847.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: ____ (µL) Soil Aliquot Volume ____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

ANSON015 S21

1F

EPA SAMPLE NO.

TRIP BLANK

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36847.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

ANSON015 S22

5. SURROGATE SPIKE ANALYSIS RESULTS

5.1 VOLATILES

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON015

	EPA SAMPLE NO.	SMC1 DCE#	SMC2 TOL#	SMC3 BFB#	Other	TOT OUT
01	VBLK111903	92	101	95		0
02	LFB111903	101	100	101		0
03	MSB111903	94	100	97		0
04	NC2DMS	92	101	99		0
05	NC2DMSD	94	100	96		0
06	TRIP BLANK	94	101	96		0
07	NC2D	95	101	96		0
08	NCP2	95	101	96		0

			QC Limits
SMC1	DCE	= 1,2-Dichloroethane-d4	(76-114)
SMC2	TOL	= Toluene-d8	(88-110)
SMC3	BFB	= 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY

6.1 VOLATILES

SYSTEM MONITORING SPIKE/DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON015

Matrix Spike - Sample No.: NC2D Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	44	88	61-145
Trichloroethene	50	7	60	106	71-120
Benzene	50	0	46	91	76-127
Toluene	50	0	57	114	76-125
Chlorobenzene	50	0	58	116	75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	41	82	7	14	61-145
Trichloroethene	50	57	100	6	14	71-120
Benzene	50	44	88	3	11	76-127
Toluene	50	55	110	4	13	76-125
Chlorobenzene	50	55	111	4	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON015

Sample ID LFB111903 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	48	96	70-114
Bromomethane	50	0	48	95	50-136
Vinyl chloride	50	0	46	92	66-117
Chloroethane	50	0	47	94	71-116
Methylene chloride	50	1	49	98	80-112
Acetone	50	0	53	106	71-125
1,1-Dichloroethene	50	0	47	94	67-120
Carbon disulfide	50	0	46	92	61-126
1,1-Dichloroethane	50	0	47	95	77-114
1,2-Dichloroethene (total)	100	0	94	94	78-128
Chloroform	50	0	48	96	75-119
1,2-Dichloroethane	50	0	50	100	76-120
2-Butanone	50	0	53	106	74-121
1,1,1-Trichloroethane	50	0	46	92	66-126
Carbon tetrachloride	50	0	46	91	64-126
Bromodichloromethane	50	0	48	96	78-118
1,2-Dichloropropane	50	0	48	95	81-115
cis-1,3-Dichloropropene	50	0	48	96	79-116
Trichloroethene	50	0	46	93	72-121
Dibromochloromethane	50	0	49	99	75-125
1,1,2-Trichloroethane	50	0	50	99	82-116
Benzene	50	0	47	94	77-116
trans-1,3-Dichloropropene	50	0	49	97	77-120
Bromoform	50	0	49	99	75-121
4-Methyl-2-pentanone	50	0	51	103	79-121
2-Hexanone	50	0	53	106	76-119
Tetrachloroethene	50	0	46	93	59-133
1,1,2,2-Tetrachloroethane	50	0	51	102	77-120
Toluene	50	0	47	94	70-125
Chlorobenzene	50	0	47	95	72-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 33 0 outside limits BTM 11/20/03

COMMENTS: _____

FORM III SW8260B

ANSON015 S27

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON015

Sample ID LFB111903 Level: (low/med) LOW

Ethylbenzene	50	0	48	95	68-128
Styrene	50	0	47	94	72-124
Xylene (total)	150	0	150	98	78-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

33 BR 11/20/03

Spike Recovery: 0 out of 0 outside limits

COMMENTS:

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON015

Sample ID MSB111903 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	40	80	61-145
Trichloroethene	50	0	50	99	71-120
Benzene	50	0	44	88	76-127
Toluene	50	0	55	109	76-125
Chlorobenzene	50	0	56	112	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits PTM 11/20/03

COMMENTS:

ANSON015 S29

7. BLANK SUMMARY DATA AND RESULTS

7.1 VOLATILES

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK111903

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No. _____ SDG No.: ANSON015

Lab File ID: A\A36836.D Lab Sample ID: VBLK111903

Date Analyzed: 11/19/03 Time Analyzed: 11:53

GC Column: R-502. ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5971

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB111903	LFB111903	A\A36837.D	12:21
02	MSB111903	MSB111903	A\A36841.D	14:51
03	NC2DMS	0311385-001AMS	A\A36845.D	16:49
04	NC2DMSD	0311385-001AMSD	A\A36846.D	17:28
05	TRIP BLANK	0311385-003A	A\A36847.D	17:56
06	NC2D	0311385-001A	A\A36848.D	18:24
07	NCP2	0311385-002A	A\A36849.D	18:53

COMMENTS: _____

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK111903

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: VBLK111903

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36836.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: ____ (µL) Soil Aliquot Volume ____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	1	J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK111903

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: VBLK111903

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36836.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK111903

ab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON015

Matrix: (soil/water) WATER Lab Sample ID: VBLK111903

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36836.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

H2M LABS, INC.

8. INTERNAL STANDARD AREA DATA
8.1 VOLATILES

ANSON015 S35

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No. _____ SDG No.: ANSON015

Lab File ID (Standard): A\A36835.D Date Analyzed: 11/19/03

EPA Sample No. (VSTD050##): VSTD050 Time Analyzed: 11:21

Instrument ID: HP5971 Heated Purge: (Y/N) N

GC Column: R-502. ID: .53 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	75315	9.39	382235	10.19	345586	14.7
	UPPER LIMIT	150630	9.89	764470	10.69	691172	15.2
	LOWER LIMIT	37658	8.89	191118	9.69	172793	14.2
	EPA SAMPLE						
01	VBLK111903	71610	9.39	368086	10.19	322331	14.71
02	LFB111903	73096	9.34	377650	10.15	340747	14.68
03	MSB111903	72493	9.42	365090	10.21	326290	14.71
04	NC2DMS	73235	9.40	369976	10.20	328280	14.72
05	NC2DMSD	75500	9.40	381684	10.20	339775	14.71
06	TRIP BLANK	73192	9.39	373171	10.18	330026	14.70
07	NC2D	72002	9.34	369515	10.15	327707	14.68
08	NCP2	72466	9.33	370160	10.14	328656	14.67

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

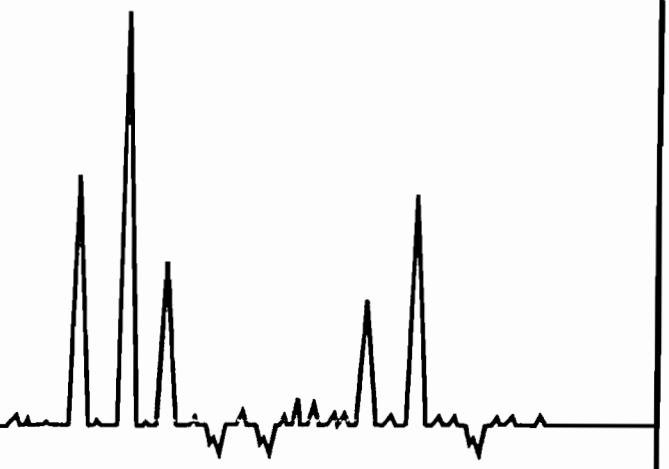
Analytical Data Package For

ANSON ENVIRONMENTAL
ATLAS GRAPHICS
SDG NO: ANSON015

Water Samples
Received: 11/13/03

VOLATILES DATA PACKAGE

NOVEMBER 2003



H2M LABS, INC.
Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

H2M LABS, INC.

ANALYTICAL DATA PACKAGE

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ANSON ENVIRONMENTAL, LTD.
PROJECT NO.: 00025
PROJECT NAME: ATLAS GRAPHICS
SAMPLES RECEIVED: 11/13/03
SDG NO.: ANSON015

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II. SDG NARRATIVES

III. CHAIN OF CUSTODY DOCUMENTATION

IV. ANALYTICAL DATA PACKAGE

A. VOLATILES

DATA PACKAGE FOR CLIENT INFORMATION
PURPOSES ONLY

H2M LABS, INC.

I. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
ANSON ENVIRONMENTAL, LTD.
ATLAS GRAPHICS
PROJECT NO. 00025
SAMPLES RECEIVED: 11/13/03
SDG #: ANSON015

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*GC VOA	PCB	*METALS	OTHER TS
NC2D	0311385-001	X					
NCP2	0311385-002	X					
TRIP BLANK	0311385-003	X					

Check Appropriate Boxes
* CLP, ~~Non-CLP~~ (Please indicate year of protocol) ASP B 10/95
TCL/TAL, HCL, TS

ANSON015 A3

VOLATILE SAMPLE ANALYSIS SUMMARY

ANSON015

EPAsampID	Matrix	CollectDate	DateReceived	Level	AnalDate	DF
NC2DMS	Aqueous	13-Nov-03	13-Nov-03	LOW	19-Nov-03	1
NC2DMSD	Aqueous	13-Nov-03	13-Nov-03	LOW	19-Nov-03	1
NC2D	Aqueous	13-Nov-03	13-Nov-03	LOW	19-Nov-03	1
NCP2	Aqueous	13-Nov-03	13-Nov-03	LOW	19-Nov-03	1
TRIP BLANK	Aqueous	13-Nov-03	13-Nov-03	LOW	19-Nov-03	1

II. SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES ANALYSES
SAMPLE RECEIVED: 11/13/03
SDG #: ANSON015

For Samples:

NC2D MS/MSD
NCP2
TRIP BLANK

The above samples were analyzed according to the requirements of the NYSDEC ASP 10/95 method 8260B for the TCL volatile organic analytes.

All QC data and the calibrations met the requirements of the protocol. The following should be noted:

- Sample NC2D was analyzed as the matrix spike/matrix spike duplicate.
- A lab fortified blank was analyzed. All percent recoveries were within QC limits.
- In the continuous calibration on 11/19/03, %D for tetrachloroethene exceeded 25% D but met the limit of 40% for the exceptions.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. 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.

Date Reported: December 1, 2003

****
* *
* *
****
Joann M. Slavin
Laboratory Manager

o:\qc\narr2003\anson\voa\anson015.rtf

ANSON015 @ 12/2/03

III. CHAIN OF CUSTODY DOCUMENTATION

H2 LABS, INC.

1170

EXTERNAL CHAIN OF CUSTODY

575 Broad Hollow Rd, Melville, NY 11747-5076
Tel: (516) 694-3040 Fax: (516) 420-8436

CLIENT: Anson Environmental Ltd

H2M SDG NO: ANSON015

PROJECT NAME/NUMBER: Atlas Graphics 00025

SAMPLERS: (signature)/Client

Matthew F Schieferstein

DELIVERABLES: NYSDEC ASP CAT B 3260

TURNAROUND TIME: Normal TAT

NOTES:

Project Contact: Dean Anson

Phone Number: 631-351-3555 x12

DATE	TIME	MATRIX	FIELD I.D.	Total No. of Containers	Sample Container Description: 40 ml VOA VIAL	ANALYSIS REQUESTED: ORGANIC VOA	ORGANIC BNA	ORGANIC Pest/PCB	INORG. Metal	INORG. CN	LAB I.D. NO.	REMARKS:
11/13	14:22	W	NC2D	6	X						0311385-001	MS MSD
11/13	11:40	W	NCP2	2	X						002	
11/13	(5M.)		TB (3260)	2							003	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/13/03	1515 ~~1450~~		11/13/03	15:15
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

LABORATORY USE ONLY

Discrepancies Between Sample Labels and COC Record? Y or N

Explain: _____

Samples were:
1. Shipped___ or Hand Delivered___ Airbill# _____
2. Ambient or chilled
3. Received in good condition: Y or N
4. Properly preserved: Y or N
5. Samples returned to lab ___ Hrs from collection

COC Tape was:
1. Present on outer package: Y or N
2. Unbroken on outer package: Y or N
3. COC record present & complete upon sample receipt. Y or N

ANSON015 A8

WHITE COPY - ORIGINAL YELLOW COPY - CLIENT PINK COPY - LABORATORY

C

~~GRA419~~ 11/13/03
ANSON015

H2M LABS, INC.

Sample Receipt Checklist

Client Name ANSON | Date and Time Receive 11/13/2003 3:15:00 PM

Work Order Numbe 0311385 | Received by SD

Checklist completed b _____ 11/13/03 (Signature / Date) | Reviewed by SMB (Initials) 11/14/03 (Date)

Matrix | Carrier name Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐ 4.6°C	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section b

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: On soc the following information was not recorded: time of collection, the field id. for the trip blank sample and the trip blank information was collected from sample labels.

Corrective Action _____

ANSON015 A9

H2M LABS, INC.

INTERNAL CHAIN OF CUSTODY

CLIENT: [illegible] DELIVERABLES: BS 7D TURN AROUND TIME: 21 Days

SDG #: [illegible] CASE #: _____ MATRIX: Aqueous pH CHECK Y or (N)

REMARKS: _____

RECEIVED BY: [illegible] SIGNATURE: [signature] DATE: 11/13/03 TIME: 15:15

CLIENT ID	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
MW2D MW3D	311365	11/13/03	DH	4	ASPBS-8260.00
MW2D	[illegible]	↓	↓	2	↓
TRIP BLANK	[illegible]	↓	↓	2	↓

MW3D 11/13/03

VOLATILE

P 0232

ANSON015 A10

2M LABS, INC.

T: ____________

O #: ____________

INTERNAL CHAIN OF CUSTODY

E	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT
[illegible]	17:40	SIGN	SIGN	DH	Analysis	
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			
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		SIGN	SIGN			
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		SIGN	SIGN			
		SIGN	SIGN			
		SIGN	SIGN			

VOLATILE

H2M LABS, INC.

IV. ANALYTICAL DATA PACKAGE

A. VOLATILES

H2M LABS, INC.

ANSON015

VOLATILE ORGANICS

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H2M LABS, INC.

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C. MSB FORM
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E. GC/MS TUNING FORM
F. INTERNAL STANDARD AREA AND RT SUMMARY
G. INSTRUMENT DETECTION LIMITS

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON015

	EPA SAMPLE NO.	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	Other	TOT OUT
01	VBLK111903	92	101	95		0
02	LFB111903	101	100	101		0
03	MSB111903	94	100	97		0
04	NC2DMS	92	101	99		0
05	NC2DMSD	94	100	96		0
06	TRIP BLANK	94	101	96		0
07	NC2D	95	101	96		0
08	NCP2	95	101	96		0

			QC Limits
SMC1	DCE	= 1,2-Dichloroethane-d4	(76-114)
SMC2	TOL	= Toluene-d8	(88-110)
SMC3	BFB	= 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

SYSTEM MONITORING SPIKE/DUPLICATE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON015

Matrix Spike - Sample No.: NC2D Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	44	88	61-145
Trichloroethene	50	7	60	106	71-120
Benzene	50	0	46	91	76-127
Toluene	50	0	57	114	76-125
Chlorobenzene	50	0	58	116	75-130

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	41	82	7	14	61-145
Trichloroethene	50	57	100	6	14	71-120
Benzene	50	44	88	3	11	76-127
Toluene	50	55	110	4	13	76-125
Chlorobenzene	50	55	111	4	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON015

Sample ID LFB111903 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
Chloromethane	50	0	48	96	70-114
Bromomethane	50	0	48	95	50-136
Vinyl chloride	50	0	46	92	66-117
Chloroethane	50	0	47	94	71-116
Methylene chloride	50	1	49	98	80-112
Acetone	50	0	53	106	71-125
1,1-Dichloroethene	50	0	47	94	67-120
Carbon disulfide	50	0	46	92	61-126
1,1-Dichloroethane	50	0	47	95	77-114
1,2-Dichloroethene (total)	100	0	94	94	78-128
Chloroform	50	0	48	96	75-119
1,2-Dichloroethane	50	0	50	100	76-120
2-Butanone	50	0	53	106	74-121
1,1,1-Trichloroethane	50	0	46	92	66-126
Carbon tetrachloride	50	0	46	91	64-126
Bromodichloromethane	50	0	48	96	78-118
1,2-Dichloropropane	50	0	48	95	81-115
cis-1,3-Dichloropropene	50	0	48	96	79-116
Trichloroethene	50	0	46	93	72-121
Dibromochloromethane	50	0	49	99	75-125
1,1,2-Trichloroethane	50	0	50	99	82-116
Benzene	50	0	47	94	77-116
trans-1,3-Dichloropropene	50	0	49	97	77-120
Bromoform	50	0	49	99	75-121
4-Methyl-2-pentanone	50	0	51	103	79-121
2-Hexanone	50	0	53	106	76-119
Tetrachloroethene	50	0	46	93	59-133
1,1,2,2-Tetrachloroethane	50	0	51	102	77-120
Toluene	50	0	47	94	70-125
Chlorobenzene	50	0	47	95	72-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 0 outside limits

BTM 11/20/03

COMMENTS:

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract:

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON015

Sample ID LFB111903 Level: (low/med) LOW

Ethylbenzene	50	0	48	95	68-128
Styrene	50	0	47	94	72-124
Xylene (total)	150	0	150	98	78-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of ~~0~~ 33 outside limits JBD 11/20/03

COMMENTS:

3A

SYSTEM MONITORING SPIKE RECOVERY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON015

Sample ID MSB111903 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	SPIKE CONCENTRATION (µg/L)	SPIKE % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	40	80	61-145
Trichloroethene	50	0	50	99	71-120
Benzene	50	0	44	88	76-127
Toluene	50	0	55	109	76-125
Chlorobenzene	50	0	56	112	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 0 outside limits PTH 11/20/03

COMMENTS: _____

FORM III SW8260B

ANSON015 V7

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK111903

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No. _____ SDG No.: ANSON015

Lab File ID: A\A36836.D Lab Sample ID: VBLK111903

Date Analyzed: 11/19/03 Time Analyzed: 11:53

GC Column: R-502. ID: .53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5971

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LFB111903	LFB111903	A\A36837.D	12:21
02	MSB111903	MSB111903	A\A36841.D	14:51
03	NC2DMS	0311385-001AMS	A\A36845.D	16:49
04	NC2DMSD	0311385-001AMSD	A\A36846.D	17:28
05	TRIP BLANK	0311385-003A	A\A36847.D	17:56
06	NC2D	0311385-001A	A\A36848.D	18:24
07	NCP2	0311385-002A	A\A36849.D	18:53

COMMENTS: _____

_____

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON015

Lab File ID: A\A36337.D BFB Injection Date: 10/21/03

Instrument ID: HP5971 BFB Injection Time: 10:12

GC Column: R-502.2 ID: .53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.2
75	30.0 - 60.0% of mass 95	41.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	67.0
175	5.0 - 9.0% of mass 174	4.9 (7.2)1
176	95.0 - 101.0% of mass 174	65.3 (97.4)1
177	5.0 - 9.0% of mass 176	4.3 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	A\A36338.D	10/21/03	11:05
02	VSTD010	VSTD010	A\A36339.D	10/21/03	12:18
03	VSTD020	VSTD020	A\A36340.D	10/21/03	12:46
04	VSTD100	VSTD100	A\A36341.D	10/21/03	13:15
05	VSTD200	VSTD200	A\A36342.D	10/21/03	13:43

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON015

Lab File ID: A\A36833.D BFB Injection Date: 11/19/03

Instrument ID: HP5971 BFB Injection Time: 10:19

GC Column: R-502.2 ID: .53 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.3
75	30.0 - 60.0% of mass 95	43.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.1 (0.1)1
174	Greater than 50.0% of mass 95	64.7
175	5.0 - 9.0% of mass 174	4.6 (7.1)1
176	95.0 - 101.0% of mass 174	63.0 (97.3)1
177	5.0 - 9.0% of mass 176	4.5 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	A\A36835.D	11/19/03	11:21
02	VBLK111903	VBLK111903	A\A36836.D	11/19/03	11:53
03	LFB111903	LFB111903	A\A36837.D	11/19/03	12:21
04	MSB111903	MSB111903	A\A36841.D	11/19/03	14:51
05	NC2DMS	0311385-001AMS	A\A36845.D	11/19/03	16:49
06	NC2DMSD	0311385-001AMSD	A\A36846.D	11/19/03	17:28
07	TRIP BLANK	0311385-003A	A\A36847.D	11/19/03	17:56
08	NC2D	0311385-001A	A\A36848.D	11/19/03	18:24
09	NCP2	0311385-002A	A\A36849.D	11/19/03	18:53

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No. _____ SDG No.: ANSON015

Lab File ID (Standard): A\A36835.D Date Analyzed: 11/19/03

EPA Sample No.(VSTD050##): VSTD050 Time Analyzed: 11:21

Instrument ID: HP5971 Heated Purge: (Y/N) N

GC Column: R-502. ID: .53 (mm)

		IS1 AREA #	RT #	IS2 DFB AREA #	RT #	IS3 CBZ AREA #	RT #
	12 HOUR STD	75315	9.39	382235	10.19	345586	14.7
	UPPER LIMIT	150630	9.89	764470	10.69	691172	15.2
	LOWER LIMIT	37658	8.89	191118	9.69	172793	14.2
	EPA SAMPLE						
01	VBLK111903	71610	9.39	368086	10.19	322331	14.71
02	LFB111903	73096	9.34	377650	10.15	340747	14.68
03	MSB111903	72493	9.42	365090	10.21	326290	14.71
04	NC2DMS	73235	9.40	369976	10.20	328280	14.72
05	NC2DMSD	75500	9.40	381684	10.20	339775	14.71
06	TRIP BLANK	73192	9.39	373171	10.18	330026	14.70
07	NC2D	72002	9.34	369515	10.15	327707	14.68
08	NCP2	72466	9.33	370160	10.14	328656	14.67

IS1 = Bromochloromethane
IS2 DFB = 1,4-Difluorobenzene
IS3 CBZ = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

H2M LABS, INC.

Date: 20-Nov-03

Test Code: ASPB5-8260_W
Test Number: SW8260B
Test Name: ASPB5 8260B(VOA IN WATER BY GC/MS)
Matrix: Aqueous **Units:** µg/L

METHOD DETECTION / REPORTING LIMITS

Updated: 23-Jul-01

Type	Analyte	MDL	PQL
A	1,1,1-Trichloroethane	0.12	10
A	1,1,2,2-Tetrachloroethane	0.35	10
A	1,1,2-Trichloroethane	0.24	10
A	1,1-Dichloroethane	0.12	10
A	1,1-Dichloroethene	0.14	10
A	1,2-Dichloroethane	0.26	10
A	1,2-Dichloroethene (total)	2.9	10
A	1,2-Dichloropropane	0.33	10
A	2-Butanone	0.75	10
A	2-Hexanone	1.4	10
A	4-Methyl-2-pentanone	0.30	10
A	Acetone	2.8	10
A	Benzene	0.25	10
A	Bromodichloromethane	0.20	10
A	Bromoform	0.47	10
A	Bromomethane	0.46	10
A	Carbon disulfide	0.15	10
A	Carbon tetrachloride	0.18	10
A	Chlorobenzene	0.34	10
A	Chloroethane	0.48	10
A	Chloroform	0.27	10
A	Chloromethane	0.42	10
A	cis-1,3-Dichloropropene	0.19	10
A	Dibromochloromethane	0.29	10
A	Ethylbenzene	0.30	10
A	Methylene chloride	0.20	10
A	Styrene	0.35	10
A	Tetrachloroethene	0.42	10
A	Toluene	0.23	10
A	trans-1,3-Dichloropropene	0.39	10
A	Trichloroethene	0.14	10
A	Vinyl chloride	0.41	10
A	Xylene (total)	0.33	10
I	1,4-Difluorobenzene	-	10
I	Bromochloromethane	-	10
I	Chlorobenzene-d5	-	10
S	1,2-Dichloroethane-d4	2.7	10
S	4-Bromofluorobenzene	1.3	10
S	Toluene-d8	0.77	10
X	cis-1,2-Dichloroethene	0.17	10
X	Freon-113	0.76	10
X	m,p-Xylene	0.56	10

H2M LABS, INC.

Date: 20-Nov-03

Test Code: ASPB5-8260_W
Test Number: SW8260B
Test Name: ASPB5 8260B(VOA IN WATER BY GC/MS)
Matrix: Aqueous **Units:** µg/L

METHOD DETECTION / REPORTING LIMITS

Updated: 19-Jul-01

Type	Analyte	MDL	PQL
X	Methyl tert-butyl ether	0.58	10
X	o-Xylene	0.33	10
X	trans-1,2-Dichloroethene	0.13	10

II. SAMPLE DATA PACKAGE FOR VOLATILE ORGANICS

A. REPORTS
B. RAW DATA

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

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

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(300\ U)}{D} \times df \text{ where } D = \frac{100\%moisture}{100}$$

and df - dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(300\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/L and a concentration of 3 ug/L is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported of Form 1 with a "P".

C - This flag applies to pesticide results when the identification has been confirmed by GC/MS.. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identified compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration ranges in the second analysis, then the results of both analyses shall be reported on separate copies of Form 1. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g. a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceed 200 ug/L or the peak representing the two coeluting isomers on that GC column exceed 400 ug/L. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceed 400 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, used the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU' or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

X- Indicates that the amount of the total was determined by manual integration.

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

NC2D

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36848.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	4	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	1	J
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	7	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	42	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2D

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36848.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg)	UG/L	Q
1330-20-7	Xylene (total)		10	U

1F

EPA SAMPLE NO.

NC2D

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-001A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36848.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

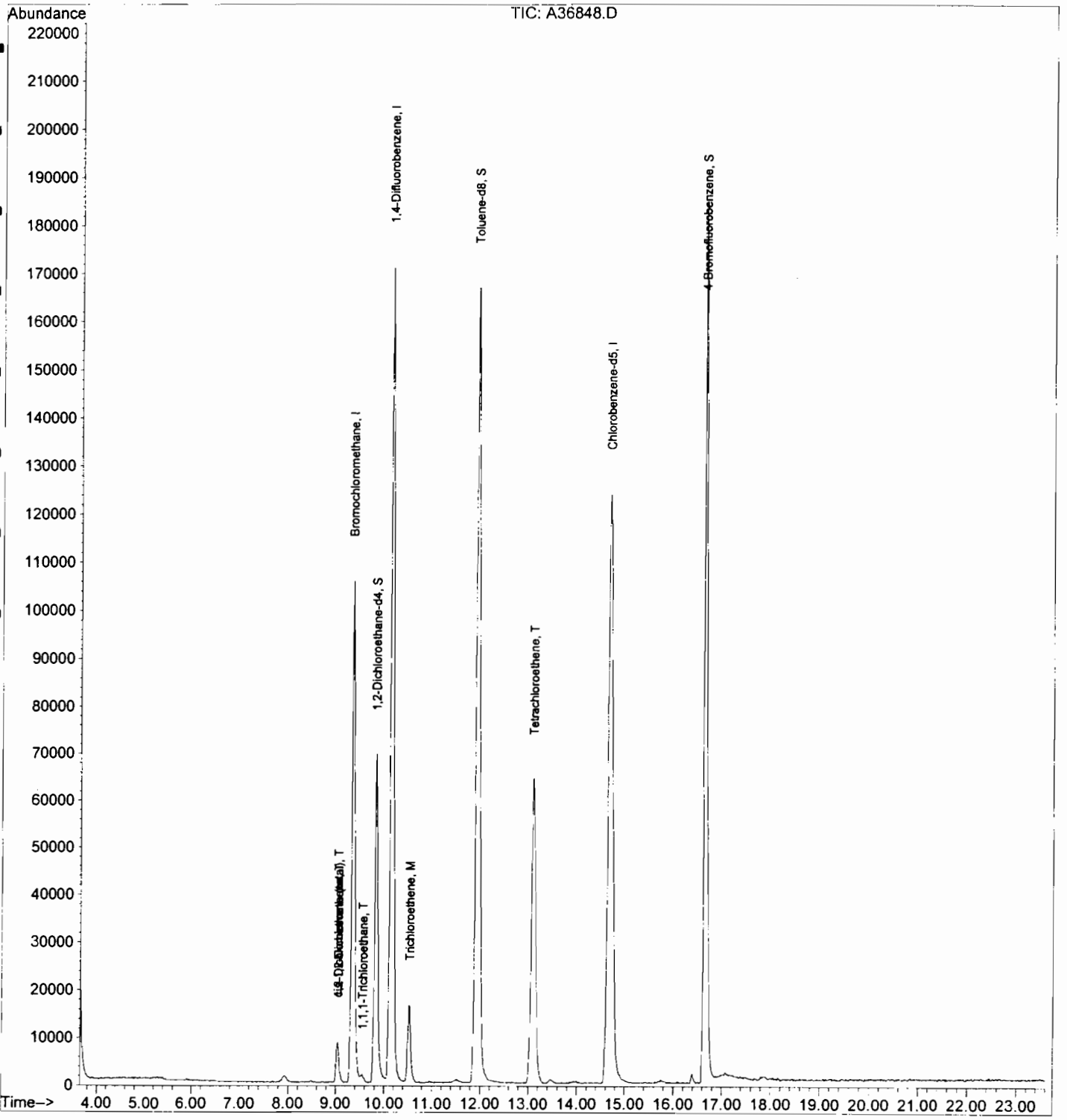
Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

Quantitation Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36848.D Vial: 16
Acq On : 19 Nov 2003 18:24 Operator: JV
Sample : 0311385-001A Inst : H5971
Misc : ANSON015,NC2D,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 19 18:48 2003 Quant Results File: CLPW1021.RES

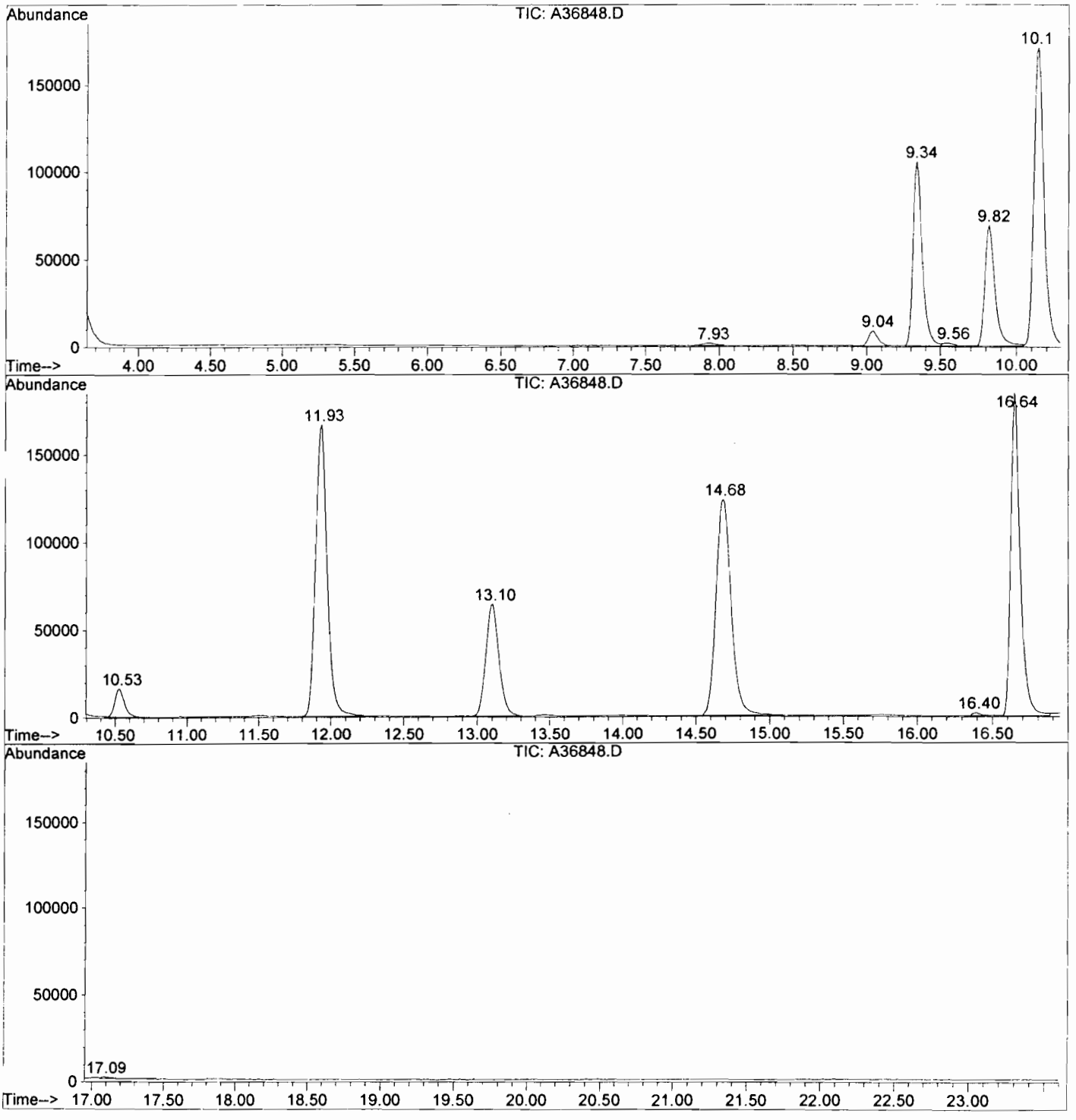
Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D



ANSON015 V20

LSC Report - Integrated Chromatogram

File : O:\MS\HP5971\DATA\NOV03\111903A\A36848.D
Operator : JV
Acquired : 19 Nov 2003 18:24 using AcqMethod CLPW1021
Instrument : H5971
Sample Name: 0311385-001A
Misc Info : ANSON015,NC2D,H2O,SAMP,,
Vial Number: 16
Quant File :CLPW1021.RES (RTE Integrator)



ANSON015 V21

A36848.D CLPW1021.M Thu Nov 20 19:44:41 2003 SYS1

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36848.D Vial: 16
Acq On : 19 Nov 2003 18:24 Operator: JV
Sample : 0311385-001A Inst : H5971
Misc : ANSON015,NC2D,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 19 18:48 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 27 16:57:53 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D
DataAcq Meth : CLPW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.34	128	72002	50.00	ug/l	-0.05
26) 1,4-Difluorobenzene	10.15	114	369515	50.00	ug/l	-0.04
41) Chlorobenzene-d5	14.68	117	327707	50.00	ug/l	-0.02
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.82	65	100692	47.58	ug/l	-0.04
Spiked Amount 50.000	Range 76 - 114		Recovery = 95.16%			
47) Toluene-d8	11.93	98	351654	50.51	ug/l	-0.03
Spiked Amount 50.000	Range 88 - 110		Recovery = 101.02%			
51) 4-Bromofluorobenzene	16.64	95	195076	48.19	ug/l	-0.02
Spiked Amount 50.000	Range 86 - 115		Recovery = 96.38%			
Target Compounds						Qvalue
10) cis-1,2-Dichloroethene	9.04	96	9094	4.26	UG/L	97
11) 1,2-Dichloroethene (total)	9.04	96	9094	4.48	ug/l	97
27) 1,1,1-Trichloroethane	9.56	97	2326	1.01	ug/l	92
34) Trichloroethene	10.53	130	16625	6.92	ug/l	98
45) Tetrachloroethene	13.10	164	53721	42.06	ug/l	99

ANSON015 V22

(#) = qualifier out of range (m) = manual integration

Tentatively Identified Compound (LSC) summary

Operator ID: JV Date Acquired: 19 Nov 2003 18:24
Data File: O:\MS\HP5971\DATA\NOV03\111903A\A36848.D
Name: 0311385-001A
: : ANSON015,NC2D,H2O,SAMP,,
Method: C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title: VOA Standards for 5 point calibration
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
A36848.D CLPW1021.M	Thu Nov 20 19:44:41 2003				SYS1			

ANSON015 V23

LSC Area Percent Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36848.D Vial: 16
Acq On : 19 Nov 2003 18:24 Operator: JV
Sample : 0311385-001A Inst : H5971
Misc : ANSON015,NC2D,H2O,SAMP,, Multiplr: 1.00
Integration Params: LSCINT.P

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0.08 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

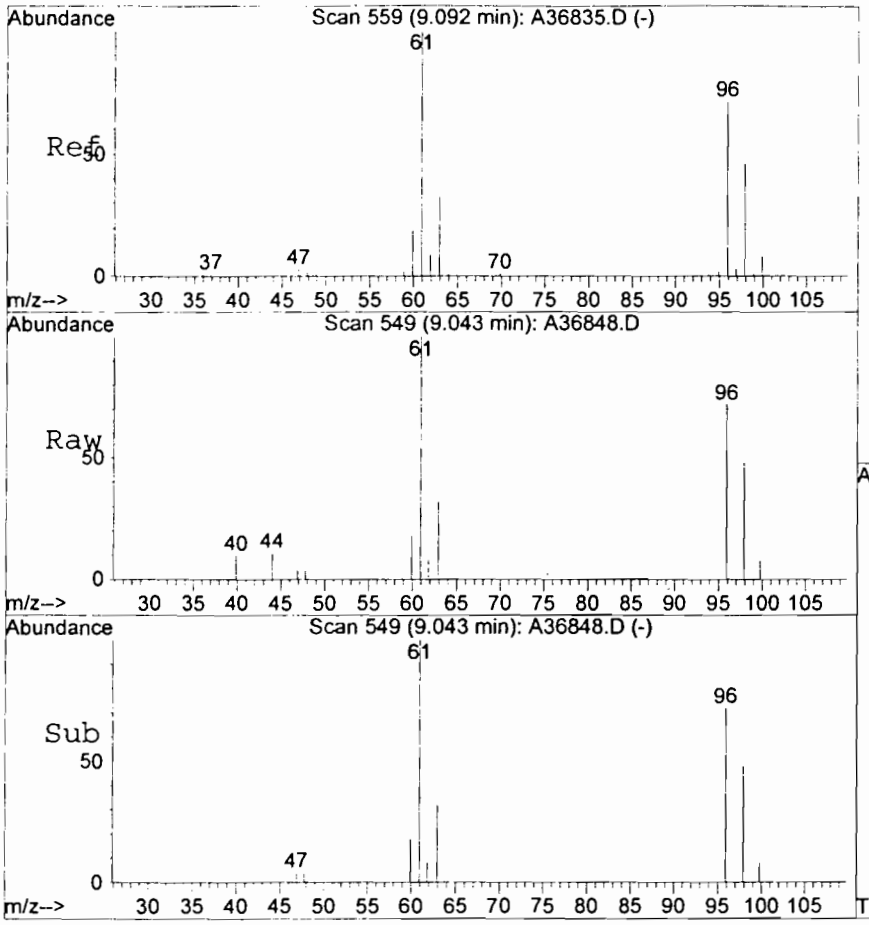
Signal : TIC

Peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	7.929	425	436	448	rBV6	1310	8730	0.94%	0.185%
	9.043	536	549	563	rBV2	8475	37527	4.04%	0.795%
3	9.339	568	579	596	rBV	105340	460399	49.61%	9.752%
4	9.556	596	601	611	rVB5	1723	7724	0.83%	0.164%
	9.822	619	628	651	rBV	69102	317441	34.20%	6.724%
6	10.147	651	661	689	rVV	170688	793589	85.51%	16.810%
	10.532	689	700	719	rVB	16120	76307	8.22%	1.616%
	11.931	827	842	880	rBV	166493	928087	100.00%	19.658%
	13.104	943	961	982	rVB	63969	398759	42.97%	8.446%
0	14.682	1104	1121	1163	rBV2	123425	884842	95.34%	18.742%
1	16.397	1289	1295	1303	rBV4	1984	6597	0.71%	0.140%
2	16.643	1309	1320	1344	rBV	184424	792553	85.40%	16.788%
	17.087	1362	1365	1394	rVB7	1154	8498	0.92%	0.180%

Sum of corrected areas: 4721053

A36848.D CLPW1021.M Thu Nov 20 19:44:38 2003 SYS1

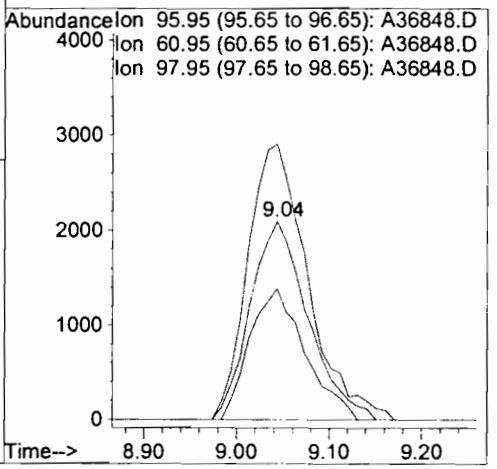
ANSON015 V24

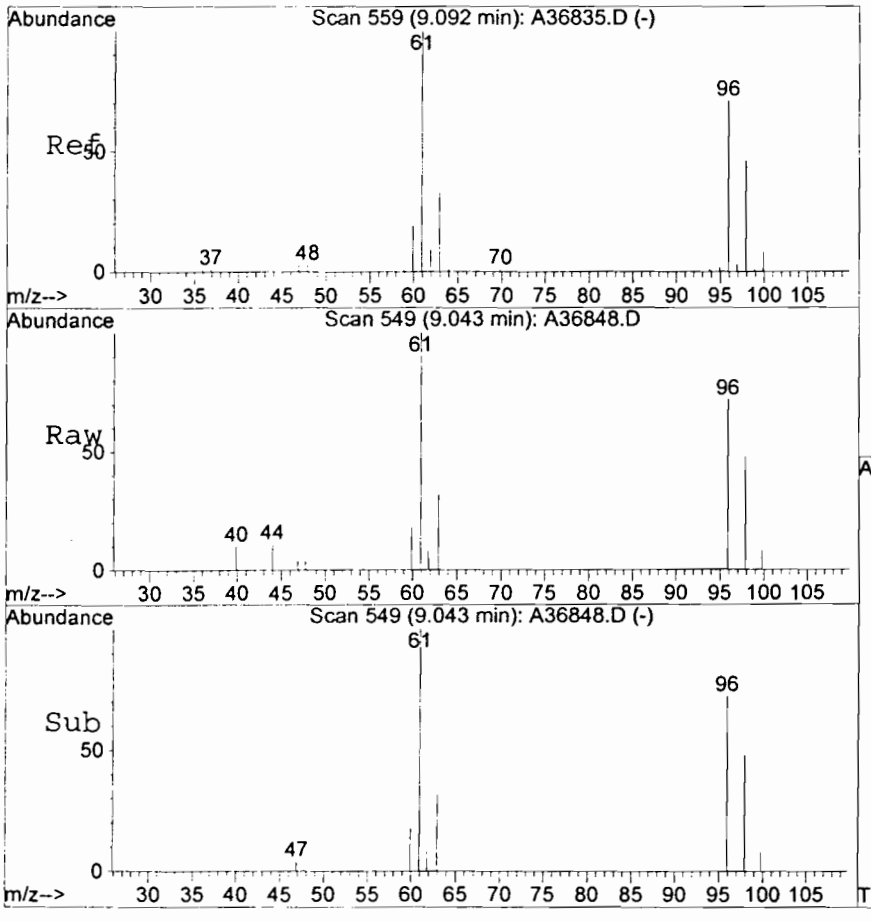


#20
cis-1,2-Dichloroethene
Concen: 4.26 UG/L
RT: 9.04 min Scan# 549
Delta R.T. -0.05 min
Lab File: A36848.D
Acq: 19 Nov 2003 18:24

Tgt Ion: 96 Resp: 9094

Ion	Ratio	Lower	Upper
96	100		
61	138.6	123.1	163.1
98	66.3	44.5	84.5

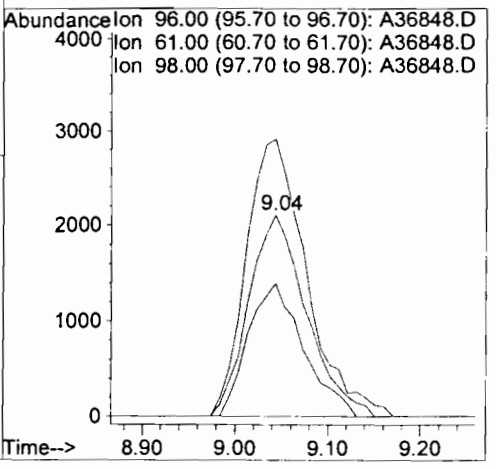




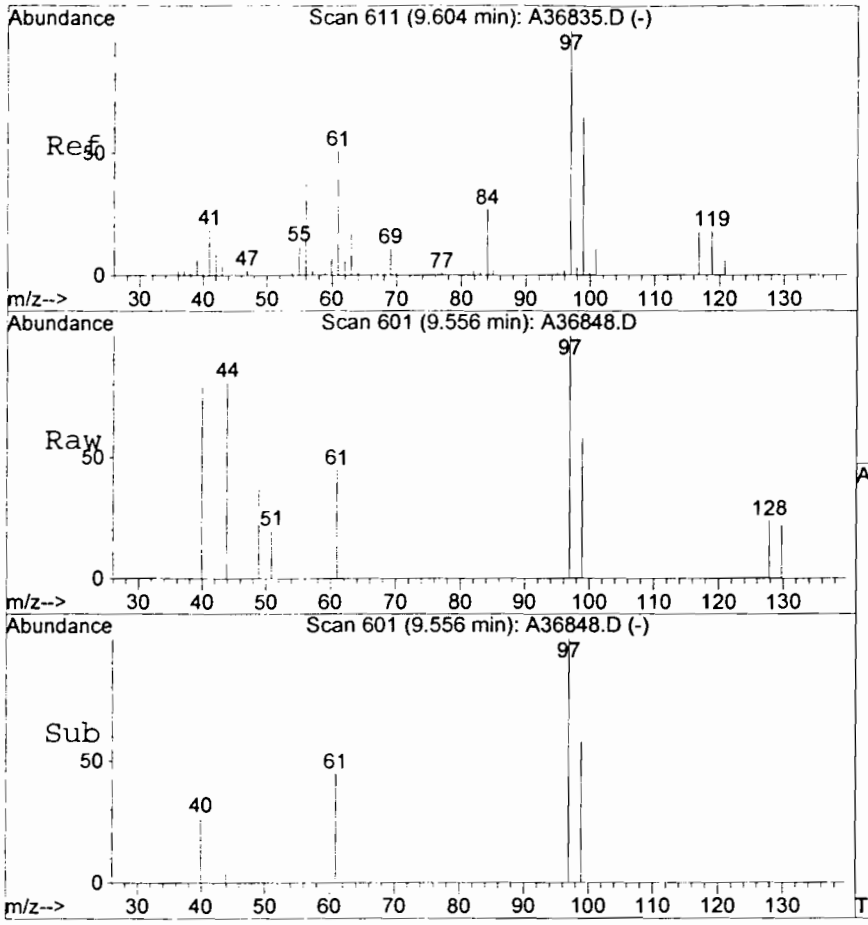
#21
1,2-Dichloroethene (total)
Concen: 4.48 ug/l
RT: 9.04 min Scan# 549
Delta R.T. -0.05 min
Lab File: A36848.D
Acq: 19 Nov 2003 18:24

Tgt Ion: 96 Resp: 9094

Ion	Ratio	Lower	Upper
96	100		
61	138.6	123.1	163.1
98	66.3	44.5	84.5

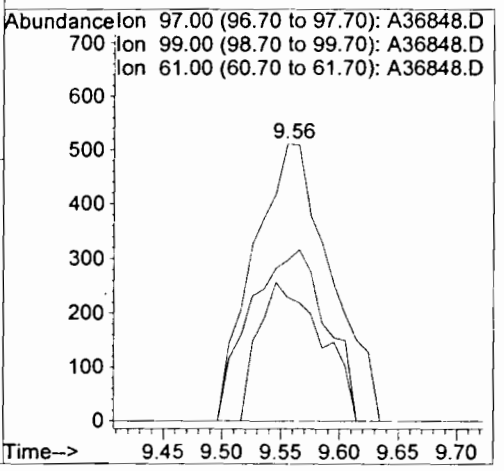


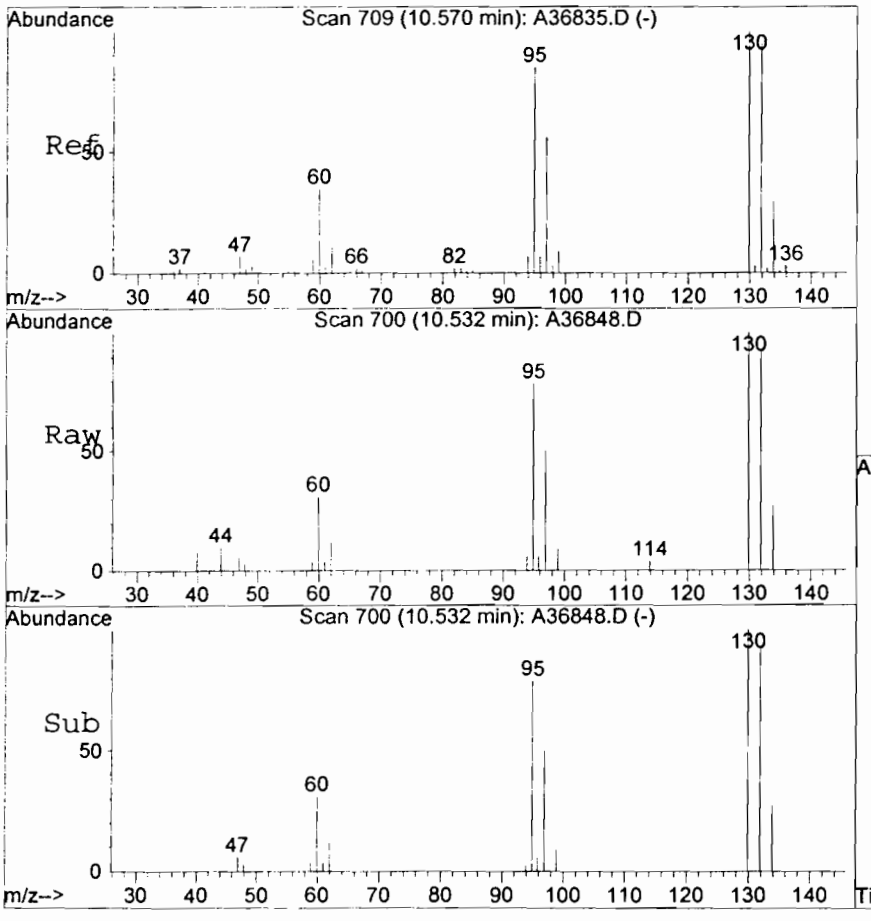
ANSON015 V25



#27
1,1,1-Trichloroethane
Concen: 1.01 ug/l
RT: 9.56 min Scan# 601
Delta R.T. -0.05 min
Lab File: A36848.D
Acq: 19 Nov 2003 18:24

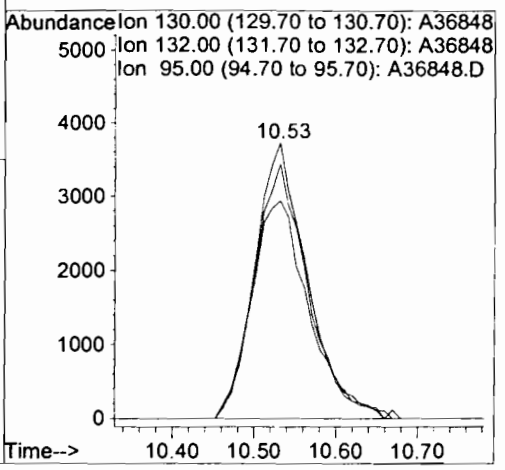
Tgt Ion: 97	Resp:	2326	
Ion	Ratio	Lower	Upper
97	100		
99	58.0	45.3	85.3
61	44.9	28.8	68.8



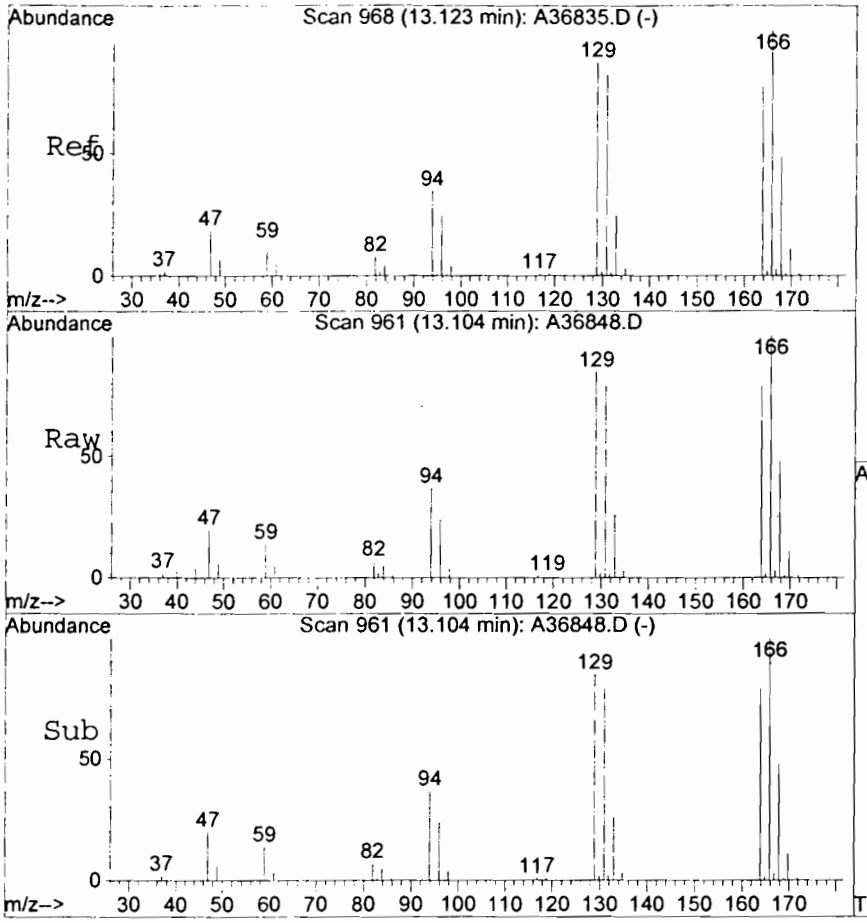


#34
Trichloroethene
Concen: 6.92 ug/l
RT: 10.53 min Scan# 700
Delta R.T. -0.04 min
Lab File: A36848.D
Acq: 19 Nov 2003 18:24

Tgt Ion:130	Resp:	16625	
Ion	Ratio	Lower	Upper
130	100		
132	92.3	73.4	113.4
95	78.8	61.6	101.6



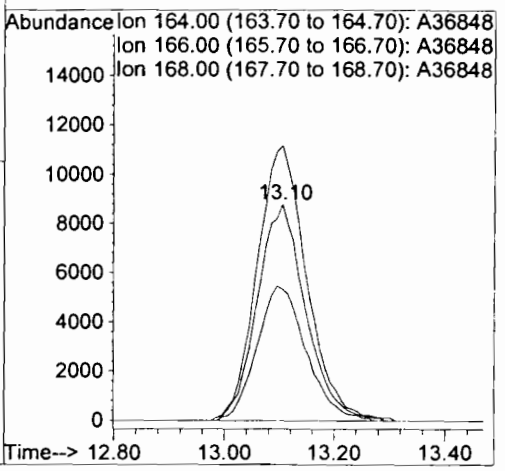
ANSON015 V26



#45
Tetrachloroethene
Concen: 42.06 ug/l
RT: 13.10 min Scan# 961
Delta R.T. -0.02 min
Lab File: A36848.D
Acq: 19 Nov 2003 18:24

Tgt Ion:164 Resp: 53721

Ion	Ratio	Lower	Upper
164	100		
166	127.2	105.1	145.1
168	60.7	41.2	81.2



ANSON015 V27

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NCP2

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36849.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	5	J
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	4	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NCP2

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36849.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

NCP2

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-002A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36849.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

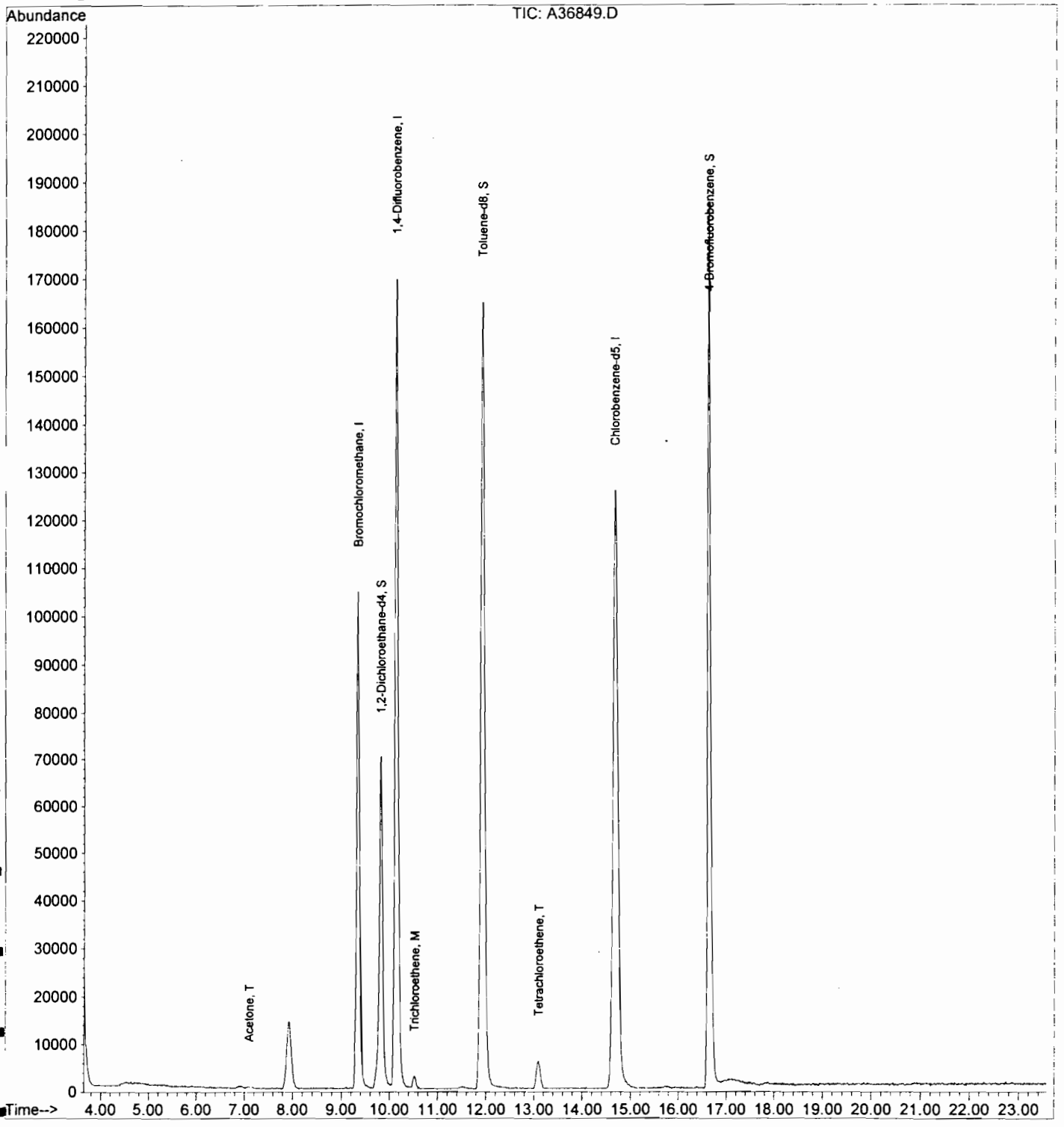
Number TICs found: 1 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1. 001634-04-4	Propane, 2-methoxy-2-methyl-	7.92	10	NJ

Quantitation Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36849.D Vial: 17
Acq On : 19 Nov 2003 18:53 Operator: JV
Sample : 0311385-002A Inst : H5971
Misc : ANSON015,NCP2,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 20 19:31 2003 Quant Results File: CLPW1021.RES

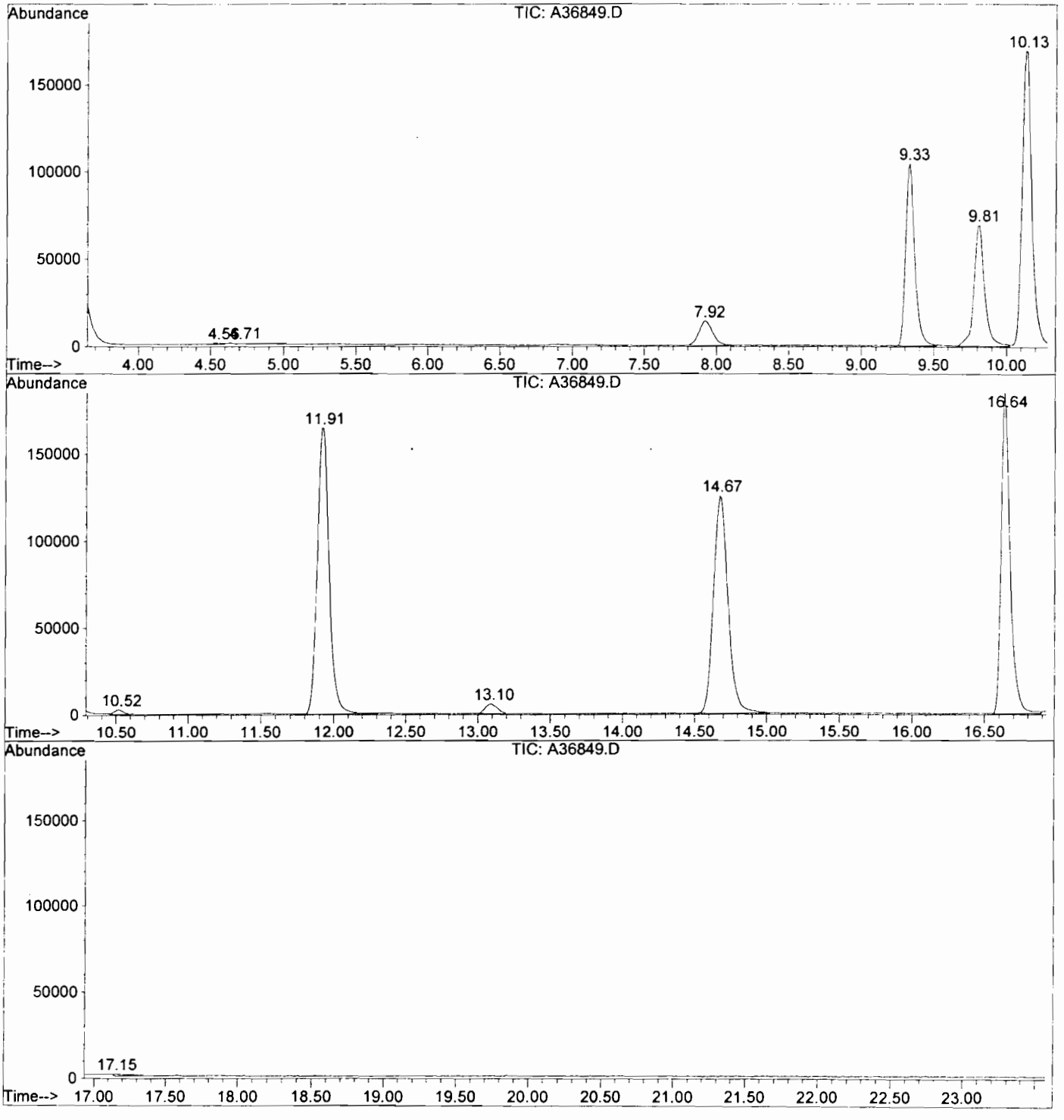
Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D



ANSON015 V31

LSC Report - Integrated Chromatogram

File : O:\MS\HP5971\DATA\NOV03\111903A\A36849.D
Operator : JV
Acquired : 19 Nov 2003 18:53 using AcqMethod CLPW1021
Instrument : H5971
Sample Name: 0311385-002A
Misc Info : ANSON015,NCP2,H2O,SAMP,,
Vial Number: 17
Quant File :CLPW1021.RES (RTE Integrator)



ANSON015 V32

A36849.D CLPW1021.M Thu Nov 20 19:45:34 2003 SYS1

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36849.D Vial: 17
Acq On : 19 Nov 2003 18:53 Operator: JV
Sample : 0311385-002A Inst : H5971
Misc : ANSON015,NCP2,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 20 19:31 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 27 16:57:53 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D
DataAcq Meth : CLPW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.33	128	72466	50.00	ug/l	-0.06
26) 1,4-Difluorobenzene	10.14	114	370160	50.00	ug/l	-0.05
41) Chlorobenzene-d5	14.67	117	328656	50.00	ug/l	-0.03
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.80	65	101586	47.69	ug/l	-0.06
Spiked Amount 50.000	Range 76 - 114		Recovery = 95.38%			
47) Toluene-d8	11.91	98	351434	50.33	ug/l	-0.05
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.66%			
51) 4-Bromofluorobenzene	16.64	95	195584	48.18	ug/l	-0.03
Spiked Amount 50.000	Range 86 - 115		Recovery = 96.36%			
Target Compounds						Qvalue
12) Acetone	7.08	43	1857	5.03	ug/l	84
34) Trichloroethene	10.52	130	2549	1.06	ug/l	99
45) Tetrachloroethene	13.10	164	4914	3.84	ug/l	96

ANSON015 V33

(#) = qualifier out of range (m) = manual integration

Tentatively Identified Compound (LSC) summary.

Operator ID: JV Date Acquired: 19 Nov 2003 18:53
)ata File: O:\MS\HP5971\DATA\NOV03\111903A\A36849.D
lame: 0311385-002A
c: ANSON015,NCP2,H2O,SAMP,,
.hod: C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
itle: VOA Standards for 5 point calibration
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
ropane, 2-methoxy-2	7.92	10.3	ug/l	95551	ISTD01	9.33	464416	50.0

A36849.D CLPW1021.M Thu Nov 20 19:45:36 2003 SYS1

ANSON015 V34

LSC Area Percent Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36849.D Vial: 17
Acq On : 19 Nov 2003 18:53 Operator: JV
Sample : 0311385-002A Inst : H5971
Misc : ANSON015,NCP2,H2O,SAMP,, Multiplr: 1.00
Integration Params: LSCINT.P

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0.08 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

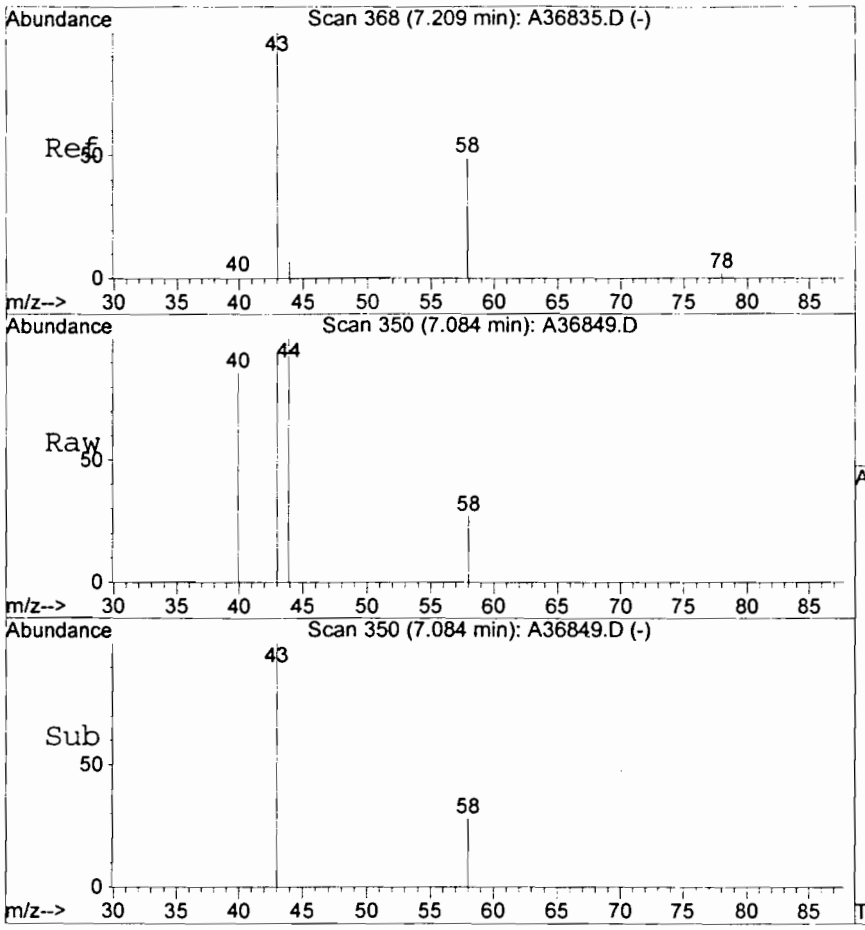
Signal : TIC

Peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	4.560	78	94	98	rBV5	812	6582	0.71%	0.150%
	4.708	106	109	136	rVB5	651	5001	0.54%	0.114%
	7.922	420	435	457	rVB3	14163	95551	10.24%	2.179%
4	9.331	567	578	597	rBV	104363	464416	49.79%	10.589%
	9.814	610	627	648	rBV	69629	345443	37.04%	7.876%
6	10.130	648	659	692	rVV	169187	795791	85.32%	18.144%
7	10.524	692	699	707	rVB4	2586	11262	1.21%	0.257%
	11.914	828	840	880	rBV	164557	932701	100.00%	21.266%
	13.097	947	960	973	rBV3	5791	34314	3.68%	0.782%
0	14.674	1098	1120	1155	rBV2	125351	887774	95.18%	20.241%
	16.636	1310	1319	1345	rBV	185117	796199	85.36%	18.153%
2	17.149	1370	1371	1402	rVB8	1074	10916	1.17%	0.249%

Sum of corrected areas: 4385950

A36849.D CLPW1021.M Thu Nov 20 19:45:31 2003 SYS1

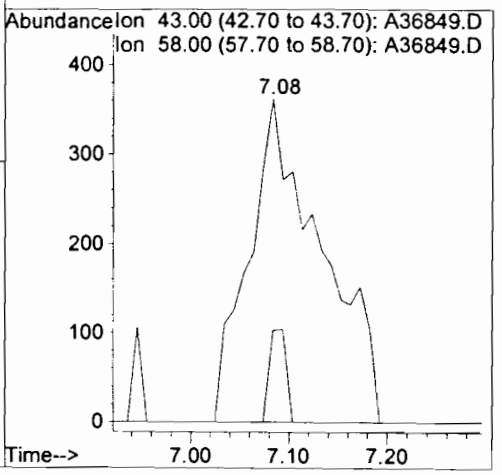
ANSON015 V35

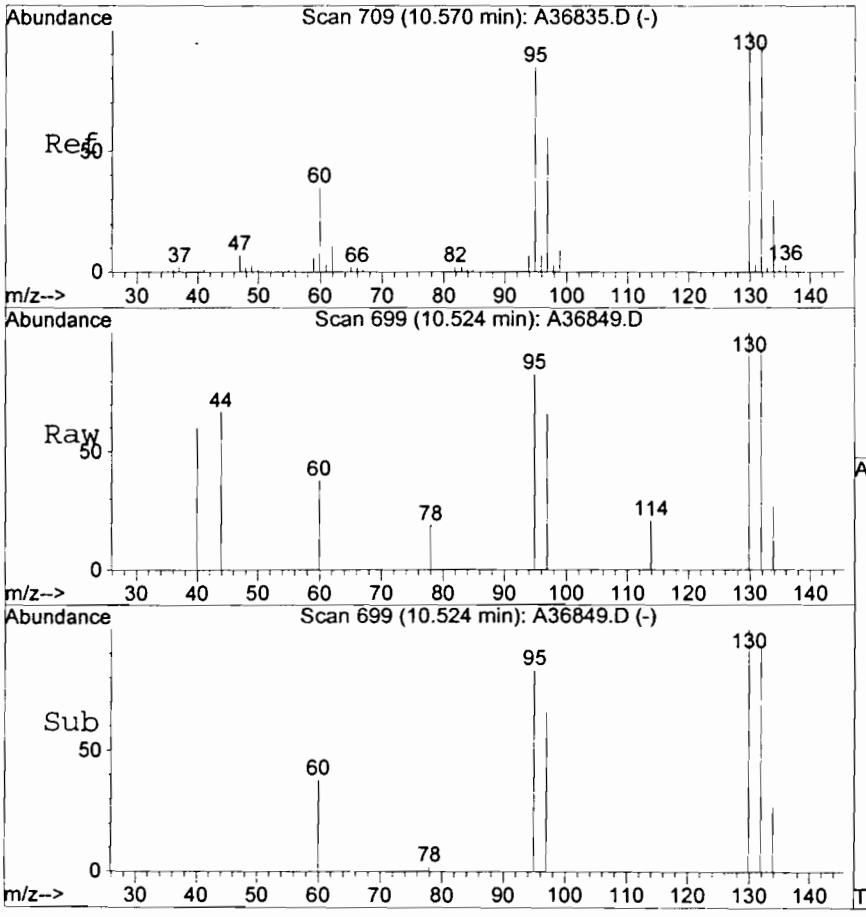


#12
Acetone
Concen: 5.03 ug/l
RT: 7.08 min Scan# 350
Delta R.T. -0.08 min
Lab File: A36849.D
Acq: 19 Nov 2003 18:53

Tgt Ion: 43 Resp: 1857

Ion	Ratio	Lower	Upper
43	100		
58	28.5	18.3	58.3

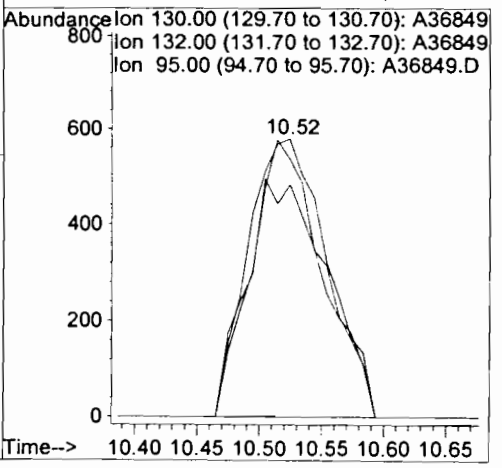




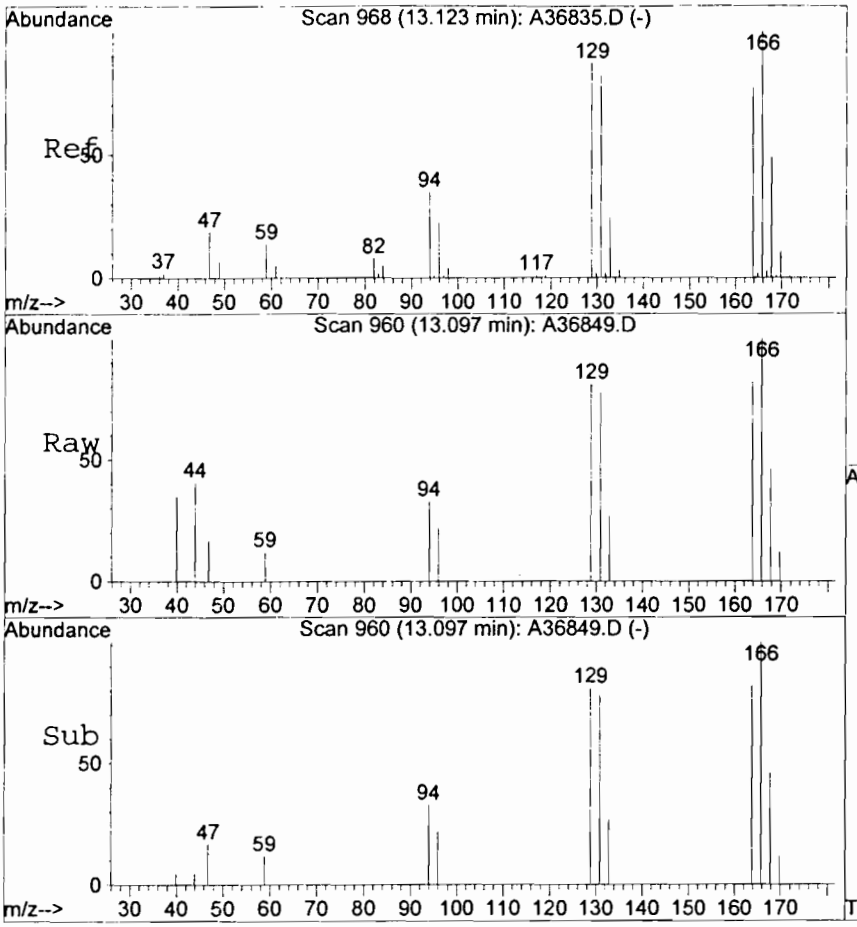
#34
Trichloroethene
Concen: 1.06 ug/l
RT: 10.52 min Scan# 699
Delta R.T. -0.05 min
Lab File: A36849.D
Acq: 19 Nov 2003 18:53

Tgt Ion:130 Resp: 2549

Ion	Ratio	Lower	Upper
130	100		
132	92.6	73.4	113.4
95	83.2	61.6	101.6



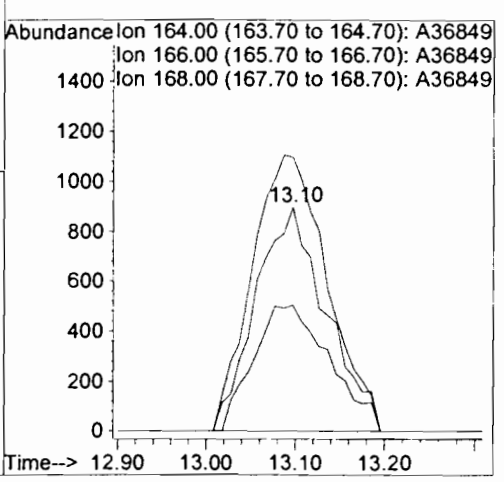
ANSON015 V36



#45
Tetrachloroethene
Concen: 3.84 ug/l
RT: 13.10 min Scan# 960
Delta R.T. -0.03 min
Lab File: A36849.D
Acq: 19 Nov 2003 18:53

Tgt Ion:164 Resp: 4914

Ion	Ratio	Lower	Upper
164	100		
166	122.2	105.1	145.1
168	56.1	41.2	81.2



ANSON015 V37

Library Search Compound Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36849.D Vial: 17
Acq On : 19 Nov 2003 18:53 Operator: JV
Sample : 0311385-002A Inst : H5971
Misc : ANSON015,NCP2,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: LSCINT.P

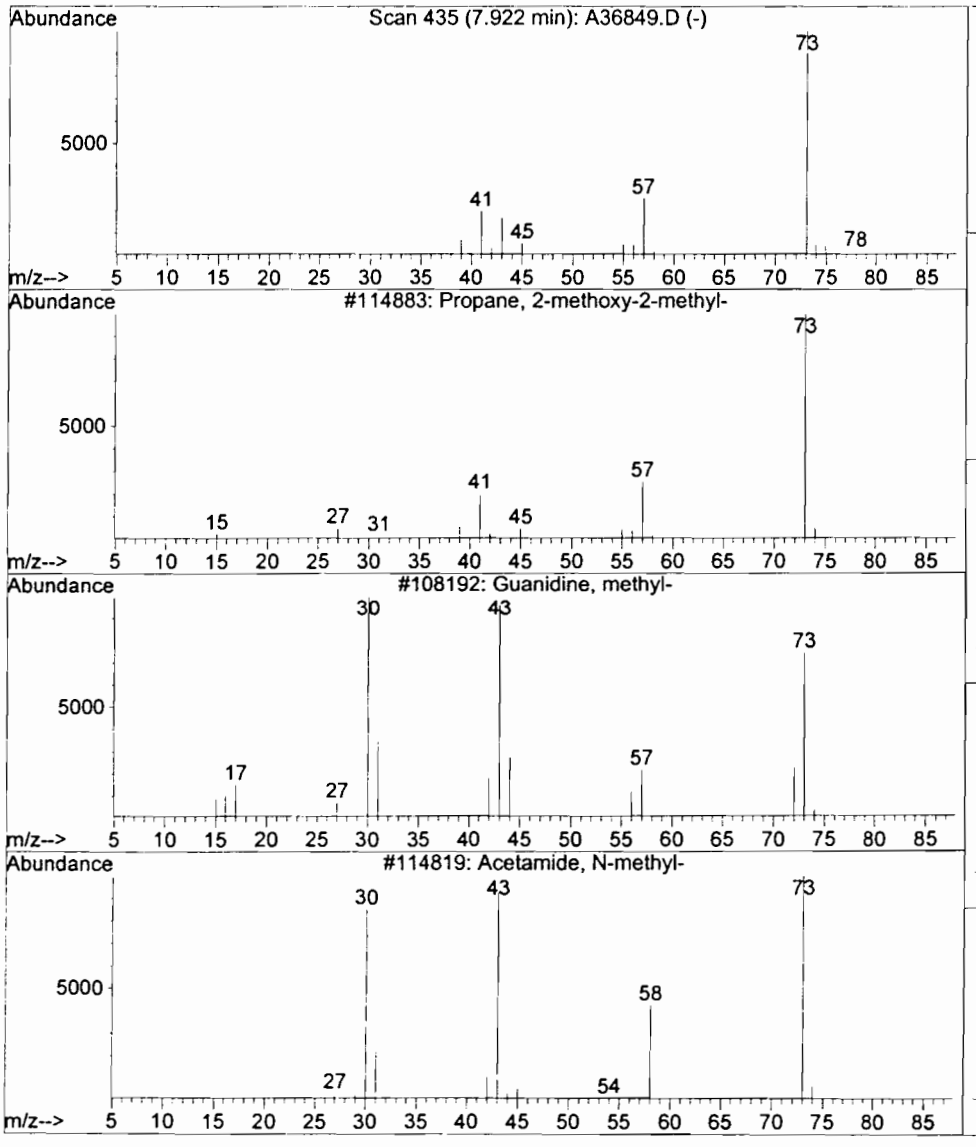
Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Library : C:\DATABASE\NIST98.L

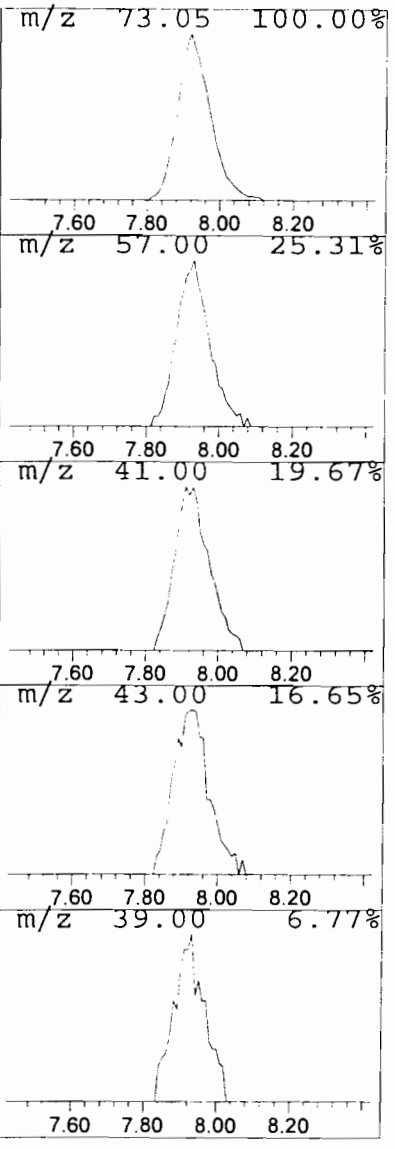
****

Peak Number 1 Propane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.92	10.29 ug/l	95551	Bromochloromethane	9.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 2-methoxy-2-methyl-	88	C5H12O	001634-04-4	56
2	Guanidine, methyl-	73	C2H7N3	000471-29-4	7
3	Acetamide, N-methyl-	73	C3H7NO	000079-16-3	4
4	2-Propen-1-amine	57	C3H7N	000107-11-9	4





ANSON015 V38

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36847.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	5	J
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36847.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

TRIP BLANK

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-003A

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36847.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

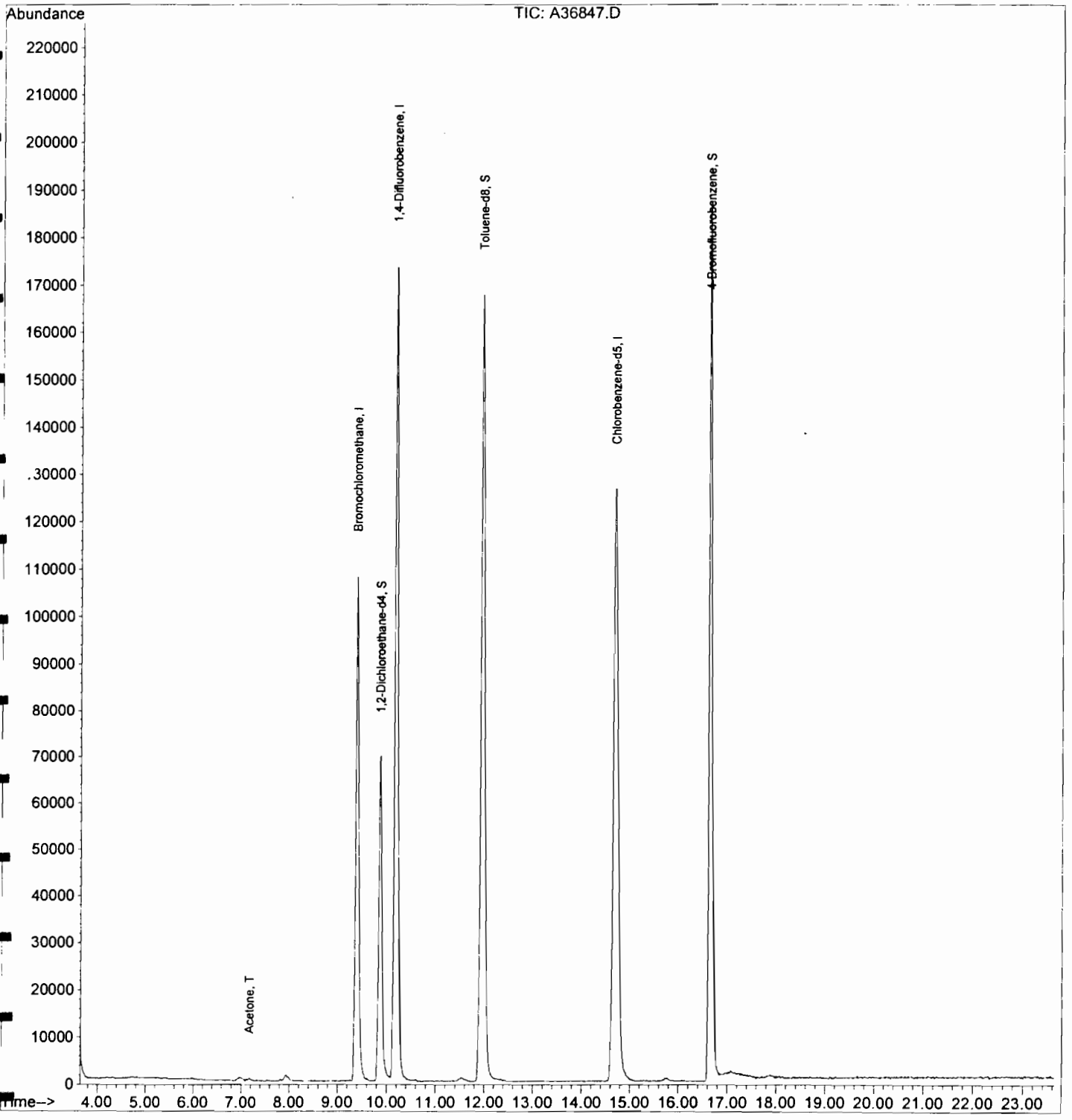
Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

Quantitation Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36847.D Vial: 15
Acq On : 19 Nov 2003 17:56 Operator: JV
Sample : 0311385-003A Inst : H5971
Misc : ANSON015,TRIPBLANK,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 19 18:20 2003 Quant Results File: CLPW1021.RES

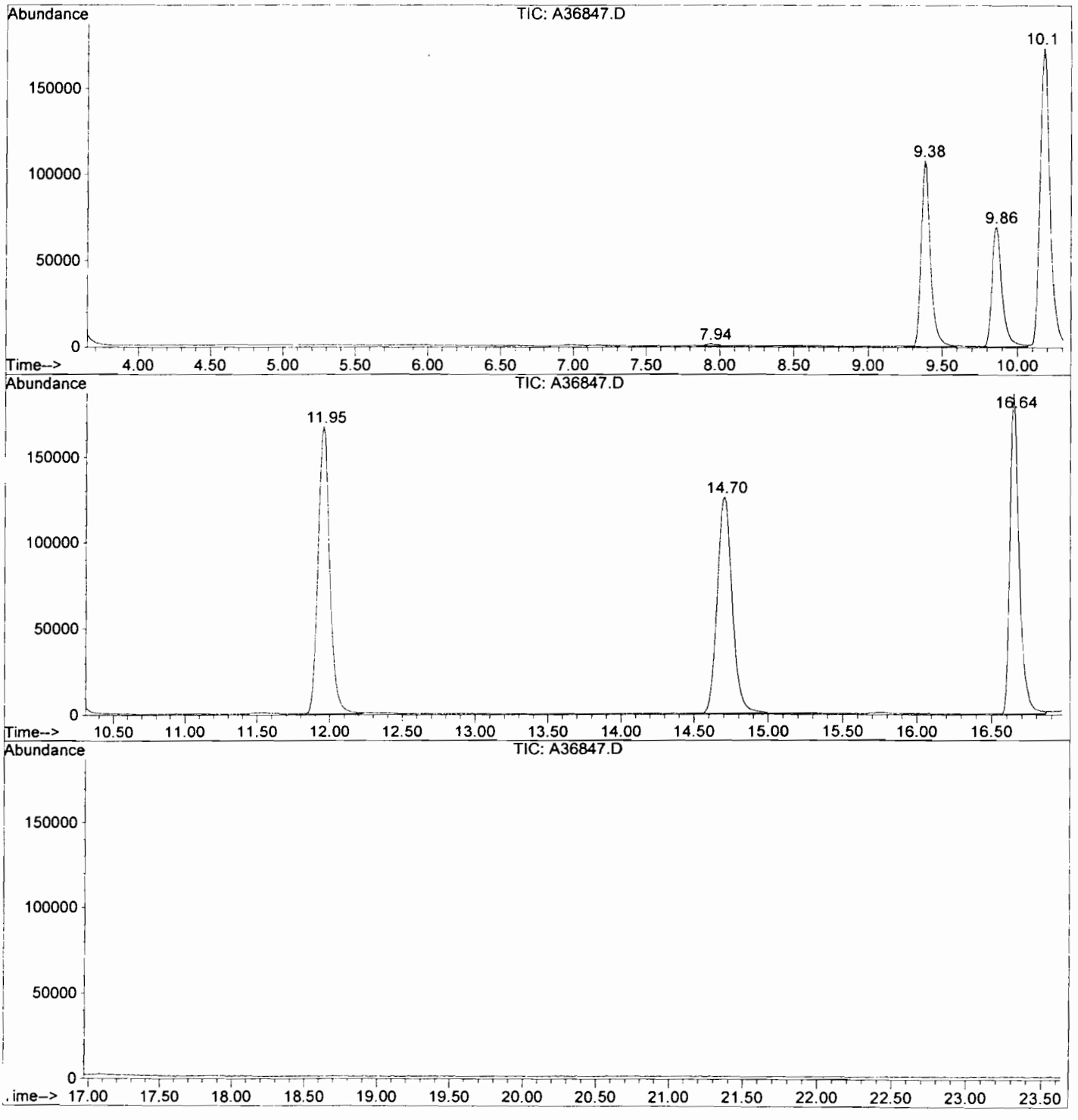
Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D



ANSON015 V42

LSC Report - Integrated Chromatogram

File : O:\MS\HP5971\DATA\NOV03\111903A\A36847.D
Operator : JV
Acquired : 19 Nov 2003 17:56 using AcqMethod CLPW1021
Instrument : H5971
Sample Name: 0311385-003A
Misc Info : ANSON015,TRIPBLANK,H2O,SAMP,,
Vial Number: 15
Quant File :CLPW1021.RES (RTE Integrator)



ANSON015 V43

A36847.D CLPW1021.M Thu Nov 20 19:52:31 2003 SYS1

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36847.D Vial: 15
Acq On : 19 Nov 2003 17:56 Operator: JV
Sample : 0311385-003A Inst : H5971
Misc : ANSON015,TRIPBLANK,H2O,SAMP,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 19 18:20 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 27 16:57:53 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D
DataAcq Meth : CLPW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.39	128	73192	50.00	ug/l	0.00
26) 1,4-Difluorobenzene	10.18	114	373171	50.00	ug/l	0.00
41) Chlorobenzene-d5	14.70	117	330026	50.00	ug/l	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.86	65	101357	47.11	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 94.22%			
47) Toluene-d8	11.95	98	354400	50.54	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 101.08%			
51) 4-Bromofluorobenzene	16.64	95	194786	47.78	ug/l	-0.02
Spiked Amount 50.000	Range 86 - 115		Recovery = 95.56%			
Target Compounds						Qvalue
2) Acetone	7.16	43	1851	4.97	ug/l	99

ANSON015 V44

(#) = qualifier out of range (m) = manual integration

Tentatively Identified Compound (LSC) summary

perator ID: JV Date Acquired: 19 Nov 2003 17:56
ta File: O:\MS\HP5971\DATA\NOV03\111903A\A36847.D
me: 0311385-003A
: ANSON015,TRIPBLANK,H2O,SAMP,,
nod: C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
le: VOA Standards for 5 point calibration
brary Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
A36847.D CLPW1021.M	Thu Nov 20 19:52:31 2003				SYS1			

ANSON015 V45

LSC Area Percent Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36847.D Vial: 15
Acq On : 19 Nov 2003 17:56 Operator: JV
Sample : 0311385-003A Inst : H5971
Misc : ANSON015,TRIPBLANK,H2O,SAMP,, Multiplr: 1.00
Integration Params: LSCINT.P

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0.08 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

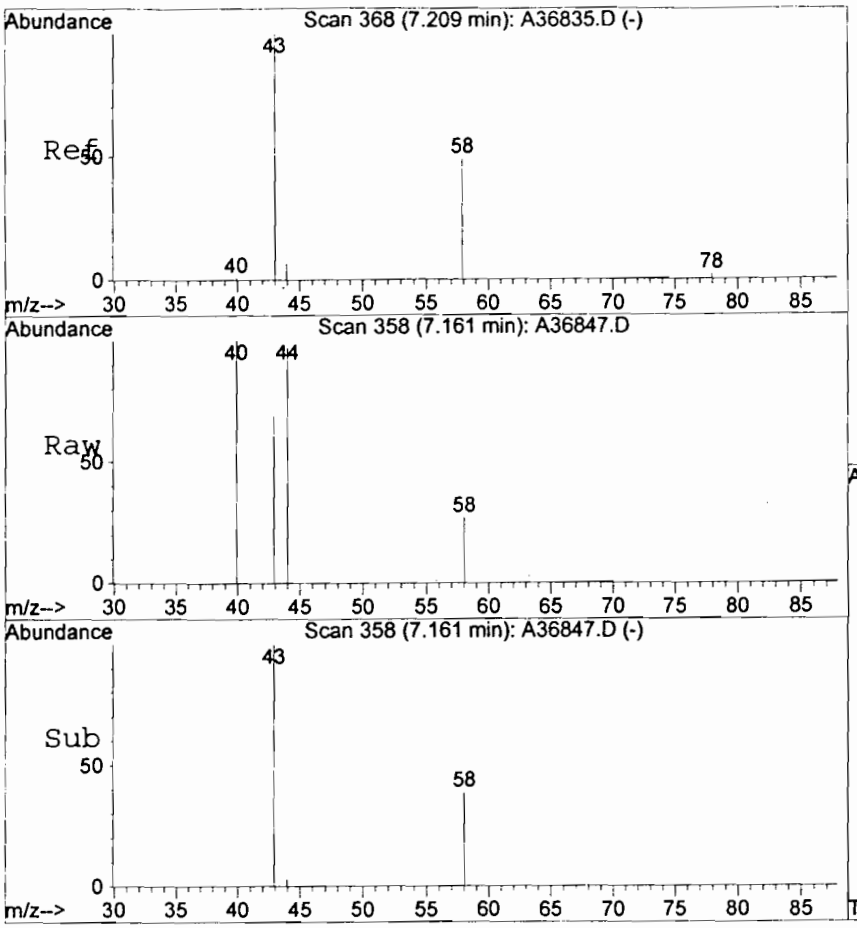
Signal : TIC

Peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	7.940	428	437	453	rVB2	1348	8414	0.90%	0.200%
3	9.379	574	583	605	rBV	107682	466757	50.10%	11.077%
4	9.862	622	632	653	rBV	69269	320129	34.36%	7.597%
5	10.178	653	664	696	rVB	172974	796840	85.52%	18.911%
6	11.952	827	844	872	rBV	167377	931743	100.00%	22.112%
6	14.702	1107	1123	1166	rVB	126195	894952	96.05%	21.239%
7	16.644	1308	1320	1342	rBV	187109	794891	85.31%	18.864%

Sum of corrected areas: 4213726

A36847.D CLPW1021.M Thu Nov 20 19:52:28 2003 SYS1

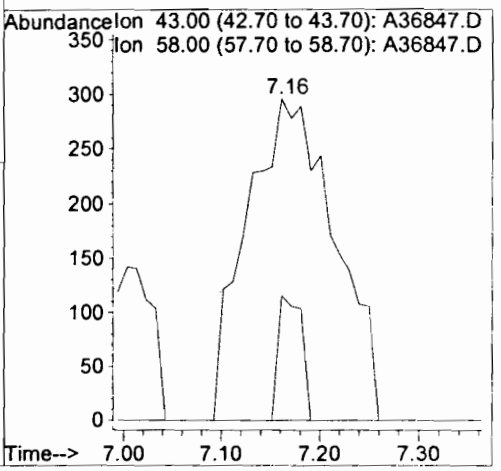
ANSON015 V46



#12
Acetone
Concen: 4.97 ug/l
RT: 7.16 min Scan# 358
Delta R.T. 0.00 min
Lab File: A36847.D
Acq: 19 Nov 2003 17:56

Tgt Ion: 43 Resp: 1851

Ion	Ratio	Lower	Upper
43	100		
58	39.2	18.3	58.3



ANSON015 V47

H2M LABS, INC.

III. STANDARD DATA PACKAGE FOR VOLATILE ORGANICS

A. INITIAL CALIBRATION FORM
B. STANDARD GC/MS CHROMATOGRAMS
C. DATA SYSTEM REPORT
D. CONTINUING CALIBRATION FORM
E. STANDARD GC/MS CHROMATOGRAMS
F. DATA SYSTEM REPORT

6B

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON015

Instrument ID: HP5971 Calibration Date(s): 10/21/03 10/21/03

Heated Purge: (Y/N) N Calibration Times: 11:05 13:43

GC Column: R-502.2 ID: .53 (mm)

LAB FILE ID: VSTD010 = A36339.D VSTD020 = A36340.D
VSTD050 = A36338.D VSTD100 = A36341.D VSTD200 = A36342.D

COMPOUND		VSTD010	VSTD020	VSTD050	VSTD100	VSTD200	RRF	% RSD	
Chloromethane		0.709	0.563	0.723	0.665	0.694	0.671	9.5	
Bromomethane	*	0.560	0.532	0.660	0.650	0.714	0.623	12.1	*
Vinyl chloride	*	0.864	0.776	1.025	0.993	1.023	0.936	11.9	*
Chloroethane		0.665	0.613	0.764	0.736	0.763	0.708	9.5	
Methylene chloride		1.340	1.176	1.341	1.123	1.160	1.228	8.5	
Acetone		0.273	0.256	0.286	0.232	0.240	0.257	8.8	
1,1-Dichloroethene	*	1.136	0.983	1.196	1.045	1.069	1.086	7.6	*
Carbon disulfide		3.090	2.751	3.442	2.909	3.004	3.039	8.5	
1,1-Dichloroethane	*	2.730	2.403	2.869	2.439	2.508	2.590	7.8	*
1,2-Dichloroethene (total)		1.365	1.240	1.472	1.253	1.293	1.325	7.2	
Chloroform	*	2.549	2.252	2.646	2.217	2.285	2.390	8.1	*
Freon-113		1.953	1.949	1.704	1.559	1.590	1.751	10.9	
Methyl tert-butyl ether		2.480	2.323	2.332	2.186	2.221	2.309	5.0	
1,2-Dichloroethane	*	1.553	1.427	1.616	1.362	1.409	1.473	7.2	*
2-Butanone		0.642	0.604	0.640	0.522	0.547	0.591	9.2	
trans-1,2-Dichloroethene		1.305	1.176	1.403	1.206	1.236	1.265	7.2	
1,1,1-Trichloroethane		0.370	0.332	0.333	0.311	0.316	0.332	7.0	
Carbon tetrachloride	*	0.387	0.351	0.331	0.309	0.317	0.339	9.2	*
Bromodichloromethane	*	0.499	0.462	0.525	0.451	0.470	0.481	6.3	*
1,2-Dichloropropane		0.402	0.365	0.403	0.356	0.364	0.378	6.0	
cis-1,2-Dichloroethene		1.425	1.305	1.540	1.300	1.344	1.383	7.3	
cis-1,3-Dichloropropene	*	0.552	0.512	0.580	0.512	0.531	0.537	5.4	*
Trichloroethene	*	0.402	0.370	0.365	0.349	0.363	0.370	5.3	*
Dibromochloromethane	*	0.551	0.516	0.578	0.516	0.538	0.540	4.8	*
1,1,2-Trichloroethane	*	0.342	0.312	0.335	0.294	0.307	0.318	6.2	*
Benzene	*	0.917	0.815	0.897	0.792	0.807	0.846	6.8	*
trans-1,3-Dichloropropene	*	0.456	0.428	0.483	0.423	0.443	0.446	5.5	*
Bromoform	*	0.303	0.288	0.319	0.287	0.306	0.301	4.4	*
4-Methyl-2-pentanone		0.472	0.397	0.511	0.385	0.388	0.431	13.3	
2-Hexanone		0.291	0.267	0.283	0.239	0.247	0.265	8.4	
Tetrachloroethene	*	0.285	0.294	0.236	0.239	0.249	0.261	10.5	*
1,1,2,2-Tetrachloroethane	*	0.598	0.553	0.562	0.494	0.505	0.542	7.9	*
Toluene	*	1.155	1.029	0.937	0.898	0.921	0.988	10.7	*
Chlorobenzene	*	0.975	0.889	0.799	0.784	0.815	0.853	9.3	*
Ethylbenzene	*	0.399	0.413	0.330	0.340	0.360	0.368	9.9	*
Styrene	*	0.794	0.771	0.646	0.660	0.683	0.711	9.4	*

6B

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON015

Instrument ID: HP5971 Calibration Date(s): 10/21/03 10/21/03

Heated Purge: (Y/N) N Calibration Times: 11:05 13:43

GC Column: R-502.2 ID: .53 (mm)

LAB FILE ID: VSTD010 = A36339.D VSTD020 = A36340.D
VSTD050 = A36338.D VSTD100 = A36341.D VSTD200 = A36342.D

COMPOUND		VSTD010	VSTD020	VSTD050	VSTD100	VSTD200	RRF	% RSD	
Xylene (total)	*	0.507	0.505	0.401	0.421	0.437	0.454	10.8	*
m,p-Xylene	*	0.541	0.548	0.431	0.447	0.461	0.485	11.3	*
o-Xylene	*	0.507	0.505	0.401	0.421	0.437	0.454	10.8	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6B

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: SDG No.: ANSON015

Instrument ID: HP5971 Calibration Date(s): 10/21/03 10/21/03

Heated Purge: (Y/N) N Calibration Times: 11:05 13:43

GC Column: R-502.2 ID: .53 (mm)

LAB FILE ID: VSTD010 = A36339.D VSTD020 = A36340.D
VSTD050 = A36338.D VSTD100 = A36341.D VSTD200 = A36342.D

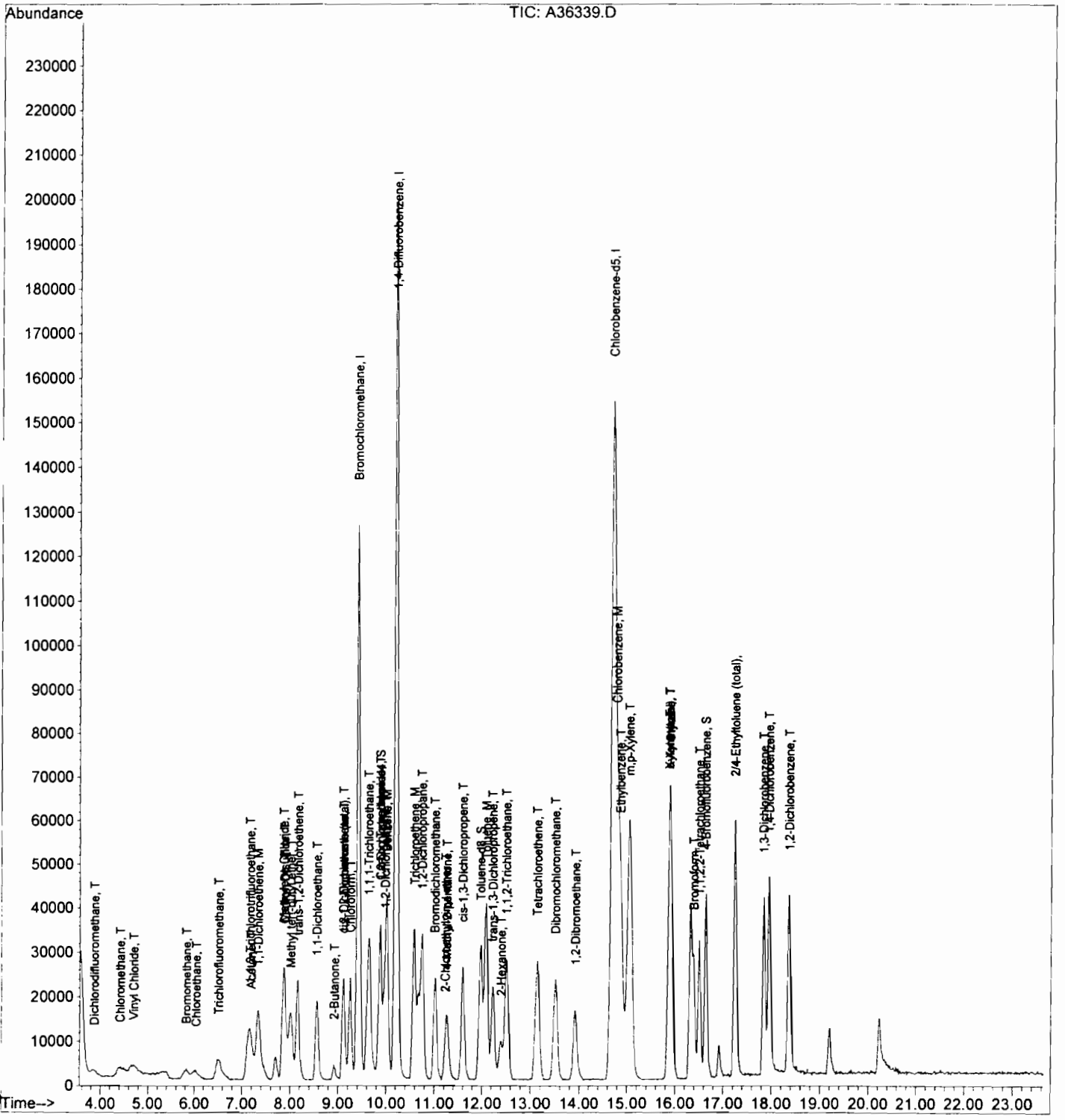
COMPOUND	VSTD010	VSTD020	VSTD050	VSTD100	VSTD200	$\overline{RRF}$	% RSD	
1,2-Dichloroethane-d4	1.340	1.216	1.393	1.301	1.348	1.319	5.0	
Toluene-d8	0.835	0.721	0.850	0.918	0.940	0.853	10.1	
4-Bromofluorobenzene *	0.558	0.490	0.564	0.575	0.589	0.555	6.9	*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36339.D Vial: 3
Acq On : 21 Oct 2003 12:18 Operator: JV
Sample : VSTD010 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 11:43 2003 Quant Results File: CLPW1021.RES

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D



ANSON015 V52

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36339.D Vial: 3
Acq On : 21 Oct 2003 12:18 Operator: JV
Sample : VSTD010 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 11:43 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Tue Oct 21 12:31:28 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D
DataAcq Meth : CLPW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.40	128	87291	50.00	ug/l	-0.03
26) 1,4-Difluorobenzene	10.20	114	436485	50.00	ug/l	0.00
41) Chlorobenzene-d5	14.72	117	391133	50.00	ug/l	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.88	65	23393	9.62	ug/l	-0.02
Spiked Amount 50.000	Range 76 - 114		Recovery = 19.24%#			
47) Toluene-d8	11.97	98	65314	9.82	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 19.64%#			
51) 4-Bromofluorobenzene	16.64	95	43659	9.90	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 19.80%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.87	85	8315	8.43	ug/l	100
3) Chloromethane	4.42	50	12378	9.81	ug/l	94
4) Bromomethane	5.82	94	9776	8.48	ug/l	94
5) Vinyl Chloride	4.69	62	15084	8.43	ug/l	93
6) Chloroethane	6.05	64	11603	8.70	ug/l	95
10) 1,1,2-Trichlorotrifluoroet	7.16	101	34090	11.46	ug/l	97
11) Methylene Chloride	7.86	84	23400	10.00	ug/l	97
12) Acetone	7.20	43	4768	9.54	ug/l	88
13) Carbon Disulfide	7.89	76	53943	8.98	ug/l	99
14) 1,1-Dichloroethene	7.33	96	19833	9.50	ug/l	90
15) 1,1-Dichloroethane	8.56	63	47664	9.52	ug/l	98
16) Trichlorofluoromethane	6.52	101	21527	8.71	UG/L	93
18) Methyl tert-butyl ether	8.01	73	43302	10.64	UG/L	96
19) trans-1,2-Dichloroethene	8.16	96	22783	9.30	UG/L	100
20) cis-1,2-Dichloroethene	9.11	96	24875	9.25	UG/L	98
21) 1,2-Dichloroethene (total)	9.11	96	47657m	18.55	ug/l	
22) 2-Butanone	8.92	43	11200	10.02	UG/L	95
23) Chloroform	9.25	83	44508	9.63	ug/l	99
25) 1,2-Dichloroethane	9.97	62	27110	9.61	ug/l	100
27) 1,1,1-Trichloroethane	9.62	97	32329	11.13	ug/l	98
29) Carbon Tetrachloride	9.87	117	33742	11.69	ug/l	99
30) 2-Chloroethylvinyl ether	11.22	63	2649	2.40	UG/L #	60
31) Bromodichloromethane	11.01	83	43525	9.49	ug/l	99
32) 1,2-Dichloropropane	10.75	63	35062	9.97	ug/l	97
33) cis-1,3-Dichloropropene	11.59	75	48182	9.51	ug/l	98
34) Trichloroethene	10.58	130	35092	11.02	ug/l	99
6) Benzene	10.01	78	80079	10.22	ug/l	99

BM 11/20/03

(#) = qualifier out of range (m) = manual integration

ANSON015 V53

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36339.D Vial: 3
Acq On : 21 Oct 2003 12:18 Operator: JV
Sample : VSTD010 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 11:43 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Tue Oct 21 12:31:28 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D
DataAcq Meth : CLPW1021

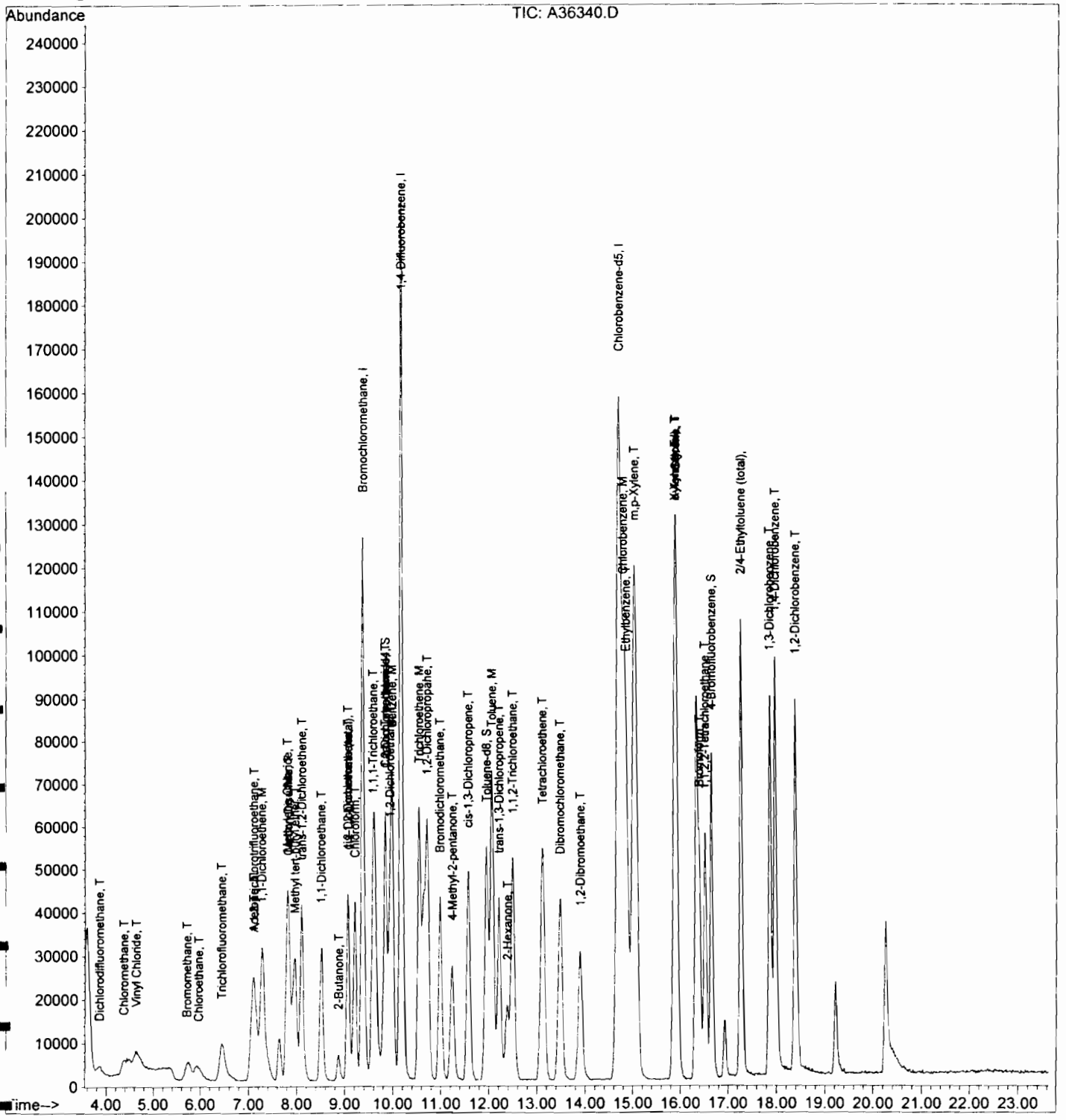
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Dibromochloromethane	13.51	129	48130	9.54	ug/l	95
38) trans-1,3-Dichloropropene	12.23	75	39819	9.44	ug/l	98
39) 1,1,2-Trichloroethane	12.52	97	29877	10.23	ug/l	98
40) Bromoform	16.40	173	26489	9.52	ug/l	96
42) 4-Methyl-2-pentanone	11.27	43	36892	9.24	ug/l	93
43) 2-Hexanone	12.40	43	22794	10.30	ug/l	94
44) 1,2-Dibromoethane	13.92	107	43260	10.39	ug/l	99
45) Tetrachloroethene	13.14	164	22286	12.09	ug/l	96
46) 1,1,2,2-Tetrachloroethane	16.51	83	46748	10.63	ug/l	99
48) Toluene	12.09	91	90333	12.32	ug/l	99
49) Chlorobenzene	14.81	112	76278	12.20	ug/l	100
50) Ethylbenzene	14.87	106	31235	12.10	ug/l	99
52) Styrene	15.91	104	62125	12.30	ug/l	98
53) m,p-Xylene	15.05	106	84563	25.09	UG/L	97
54) o-Xylene	15.87	106	39695	12.64	UG/L	95
55) Xylene (total)	15.87	106	39695	12.64	ug/l	95
57) 1,3-Dichlorobenzene	17.84	146	39598	11.58	UG/L	97
58) 1,4-Dichlorobenzene	17.95	146	48320	11.90	UG/L	98
59) 1,2-Dichlorobenzene	18.36	146	42095	11.81	UG/L	96
62) 2/4-Ethyltoluene (total)	17.25	105	104092	19.39	ug/l	99

ANSON015 V54

Quantitation Report

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36340.D Vial: 3
Acq On : 21 Oct 2003 12:46 Operator: JV
Sample : VSTD020 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:13 2003 Quant Results File: CLPW1021.RES

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D



ANSON015 V55

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36340.D Vial: 3
Acq On : 21 Oct 2003 12:46 Operator: JV
Sample : VSTD020 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:13 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Tue Oct 21 12:31:28 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D
DataAcq Meth : CLPW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.36	128	86212	50.00	ug/l	-0.07
26) 1,4-Difluorobenzene	10.16	114	430860	50.00	ug/l	-0.05
41) Chlorobenzene-d5	14.70	117	390278	50.00	ug/l	-0.02
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.83	65	41931	17.46	ug/l	-0.06
Spiked Amount 50.000	Range 76 - 114		Recovery = 34.92%#			
47) Toluene-d8	11.94	98	112584	16.97	ug/l	-0.03
Spiked Amount 50.000	Range 88 - 110		Recovery = 33.94%#			
51) 4-Bromofluorobenzene	16.64	95	76485	17.38	ug/l	-0.01
Spiked Amount 50.000	Range 86 - 115		Recovery = 34.76%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.85	85	14345	14.72	ug/l	90
3) Chloromethane	4.38	50	19407	15.58	ug/l	91
4) Bromomethane	5.71	94	18342	16.11	ug/l	99
5) Vinyl Chloride	4.64	62	26768	15.15	ug/l	96
6) Chloroethane	5.96	64	21122	16.03	ug/l	97
10) 1,1,2-Trichlorotrifluoroet	7.10	101	67202	22.87	ug/l	99
11) Methylene Chloride	7.79	84	40538	17.54	ug/l	97
12) Acetone	7.11	43	8830	17.89	ug/l	95
13) Carbon Disulfide	7.83	76	94851	15.98	ug/l	94
14) 1,1-Dichloroethene	7.28	96	33905	16.44	ug/l	99
15) 1,1-Dichloroethane	8.50	63	82867	16.75	ug/l	98
16) Trichlorofluoromethane	6.45	101	39146	16.03	UG/L	99
18) Methyl tert-butyl ether	7.96	73	80114	19.93	UG/L	98
19) trans-1,2-Dichloroethene	8.10	96	40560	16.76	UG/L	92
20) cis-1,2-Dichloroethene	9.06	96	44987	16.94	UG/L	94
21) 1,2-Dichloroethene (total)	9.06	96	85543m	33.71	ug/l	
22) 2-Butanone	8.87	43	20818	18.85	UG/L	95
23) Chloroform	9.19	83	77645	17.02	ug/l	97
25) 1,2-Dichloroethane	9.92	62	49199	17.65	ug/l	99
27) 1,1,1-Trichloroethane	9.57	97	57267	19.97	ug/l	98
29) Carbon Tetrachloride	9.82	117	60457	21.22	ug/l	97
31) Bromodichloromethane	10.98	83	79647	17.59	ug/l	98
32) 1,2-Dichloropropane	10.72	63	62879	18.12	ug/l	97
33) cis-1,3-Dichloropropene	11.56	75	88224	17.64	ug/l	97
34) Trichloroethene	10.54	130	63851	20.31	ug/l	99
36) Benzene	9.97	78	140433	18.16	ug/l	99
37) Dibromochloromethane	13.48	129	89001	17.88	ug/l	98

(#) = qualifier out of range (m) = manual integration

ANSON015 V56

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36340.D Vial: 3
Acq On : 21 Oct 2003 12:46 Operator: JV
Sample : VSTD020 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:13 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Tue Oct 21 12:31:28 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D
DataAcq Meth : CLPW1021

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) trans-1,3-Dichloropropene	12.20	75	73685	17.69	ug/l	98
39) 1,1,2-Trichloroethane	12.48	97	53852	18.67	ug/l	98
40) Bromoform	16.40	173	49656	18.08	ug/l	97
42) 4-Methyl-2-pentanone	11.23	43	62003	15.56	ug/l	99
43) 2-Hexanone	12.38	43	41619	18.85	ug/l	96
44) 1,2-Dibromoethane	13.89	107	78654	18.93	ug/l	99
45) Tetrachloroethene	13.11	164	45973	25.00	ug/l	95
46) 1,1,2,2-Tetrachloroethane	16.52	83	86375	19.68	ug/l	99
48) Toluene	12.05	91	160576	21.95	ug/l	100
49) Chlorobenzene	14.79	112	138787	22.24	ug/l	98
50) Ethylbenzene	14.86	106	64548	25.07	ug/l	91
52) Styrene	15.91	104	120305	23.87	ug/l	99
53) m,p-Xylene	15.03	106	171180	50.91	UG/L	97
54) o-Xylene	15.87	106	78884	25.17	UG/L	99
55) Xylene (total)	15.87	106	78884	25.17	ug/l	99
57) 1,3-Dichlorobenzene	17.86	146	89672	26.29	UG/L	99
58) 1,4-Dichlorobenzene	17.97	146	102573	25.31	UG/L	98
59) 1,2-Dichlorobenzene	18.38	146	92292	25.96	UG/L	97
62) 2/4-Ethyltoluene (total)	17.26	105	182286	34.02	ug/l	99

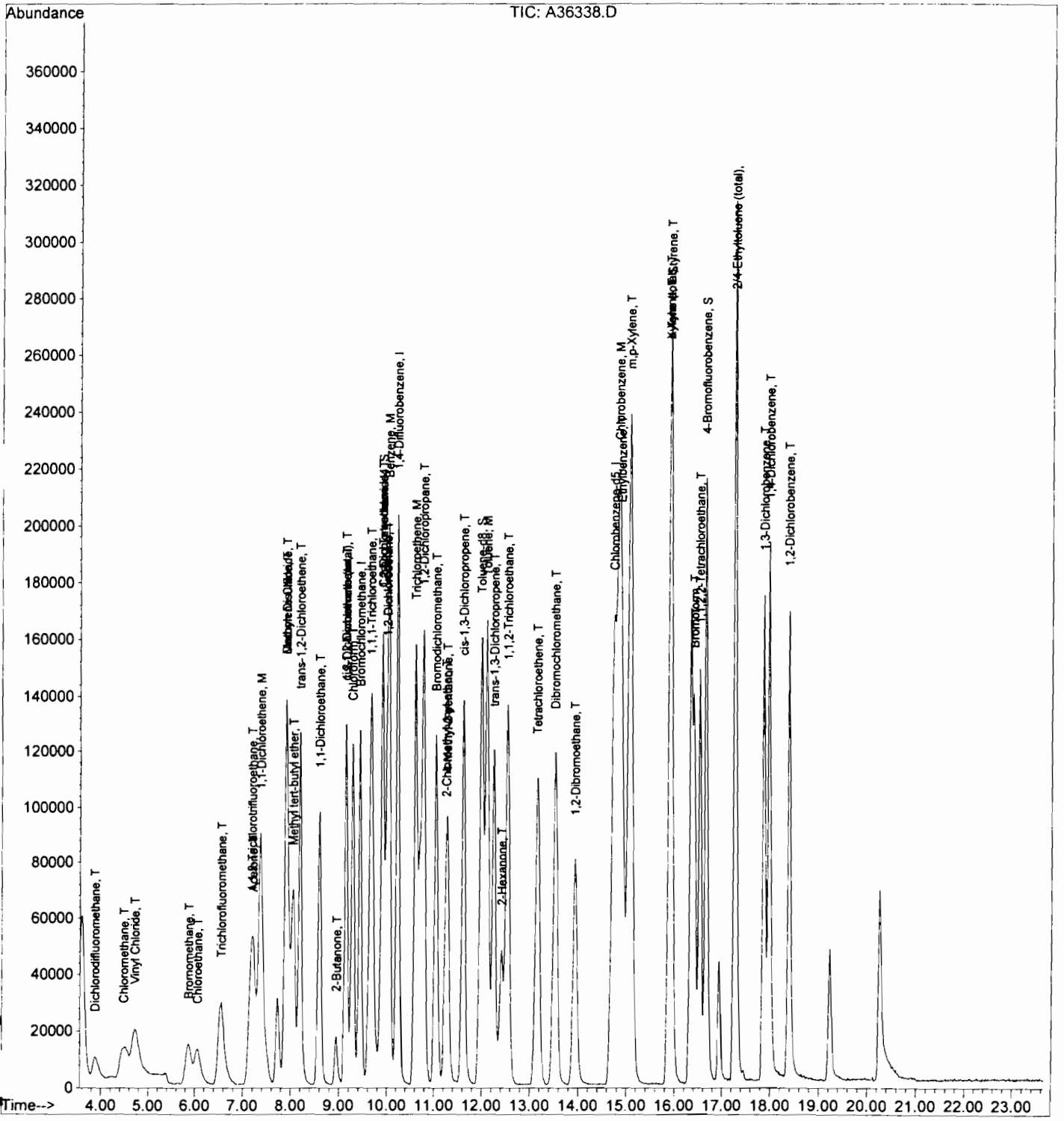
ANSON015 V57

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36338.D Vial: 2
Acq On : 21 Oct 2003 11:05 Operator: JV
Sample : VSTD050 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 11:31 2003 Quant Results File: CLPW1021.RES

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D



ANSON015 V58

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36338.D Vial: 2
Acq On : 21 Oct 2003 11:05 Operator: JV
Sample : VSTD050 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 11:31 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Tue Oct 21 12:29:52 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D
DataAcq Meth : CLPW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.43	128	85460	50.00	ug/l	0.00
26) 1,4-Difluorobenzene	10.21	114	428091	50.00	ug/l	0.00
41) Chlorobenzene-d5	14.73	117	390044	50.00	ug/l	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.90	65	119044	50.00	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 100.00%			
47) Toluene-d8	11.98	98	331524	50.00	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.00%			
51) 4-Bromofluorobenzene	16.65	95	219941	50.00	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.87	85	48292	50.00	ug/l	90
3) Chloromethane	4.47	50	61758	50.00	ug/l	92
4) Bromomethane	5.87	94	56436	50.00	ug/l	96
5) Vinyl Chloride	4.73	62	87600	50.00	ug/l	96
6) Chloroethane	6.05	64	65288	50.00	ug/l	97
10) 1,1,2-Trichlorotrifluoroet	7.19	101	145617	50.00	ug/l	99
11) Methylene Chloride	7.89	84	114574	50.00	ug/l	96
12) Acetone	7.20	43	24470	50.00	ug/l	99
13) Carbon Disulfide	7.90	76	294183	50.00	ug/l	98
14) 1,1-Dichloroethene	7.36	96	102204	50.00	ug/l	96
15) 1,1-Dichloroethane	8.59	63	245173	50.00	ug/l	99
16) Trichlorofluoromethane	6.55	101	121003	50.00	UG/L	96
18) Methyl tert-butyl ether	8.04	73	199268	50.00	UG/L	99
19) trans-1,2-Dichloroethene	8.18	96	119933	50.00	UG/L	99
20) cis-1,2-Dichloroethene	9.13	96	131623	50.00	UG/L	96
21) 1,2-Dichloroethene (total)	9.13	96	251562m	100.00	ug/l	
22) 2-Butanone	8.94	43	54726	50.00	UG/L	96
23) Chloroform	9.28	83	226134	50.00	ug/l	96
25) 1,2-Dichloroethane	9.98	62	138124	50.00	ug/l	99
27) 1,1,1-Trichloroethane	9.64	97	142455	50.00	ug/l	99
29) Carbon Tetrachloride	9.90	117	141570	50.00	ug/l	94
30) 2-Chloroethylvinyl ether	11.24	63	54110	50.00	UG/L	95
31) Bromodichloromethane	11.03	83	224909	50.00	ug/l	98
32) 1,2-Dichloropropane	10.76	63	172401	50.00	ug/l	95
33) cis-1,3-Dichloropropene	11.61	75	248413	50.00	ug/l	98
34) Trichloroethene	10.60	130	156178	50.00	ug/l	99
6) Benzene	10.03	78	384163	50.00	ug/l	100

(#) = qualifier out of range (m) = manual integration

ANSON015 V59

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36338.D Vial: 2
Acq On : 21 Oct 2003 11:05 Operator: JV
Sample : VSTD050 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 11:31 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Tue Oct 21 12:29:52 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D
DataAcq Meth : CLPW1021

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) Dibromochloromethane	13.52	129	247331	50.00	ug/l	97
38) trans-1,3-Dichloropropene	12.24	75	206878	50.00	ug/l	99
39) 1,1,2-Trichloroethane	12.52	97	143280	50.00	ug/l	98
40) Bromoform	16.41	173	136427	50.00	ug/l	96
42) 4-Methyl-2-pentanone	11.27	43	199142	50.00	ug/l	90
43) 2-Hexanone	12.41	43	110319	50.00	ug/l	98
44) 1,2-Dibromoethane	13.93	107	207634	50.00	ug/l	100
45) Tetrachloroethene	13.16	164	91900	50.00	ug/l	98
46) 1,1,2,2-Tetrachloroethane	16.52	83	219298	50.00	ug/l	99
48) Toluene	12.09	91	365481	50.00	ug/l	100
49) Chlorobenzene	14.82	112	311814	50.00	ug/l	98
50) Ethylbenzene	14.88	106	128673	50.00	ug/l	97
52) Styrene	15.92	104	251892	50.00	ug/l	99
53) m,p-Xylene	15.06	106	336046	100.00	UG/L	96
54) o-Xylene	15.88	106	156602	50.00	UG/L	98
55) Xylene (total)	15.88	106	156602	50.00	ug/l	98
57) 1,3-Dichlorobenzene	17.86	146	170440	50.00	UG/L	99
58) 1,4-Dichlorobenzene	17.97	146	202484	50.00	UG/L	99
59) 1,2-Dichlorobenzene	18.38	146	177665	50.00	UG/L	99
62) 2/4-Ethyltoluene (total)	17.26	105	535471	99.98	ug/l	99

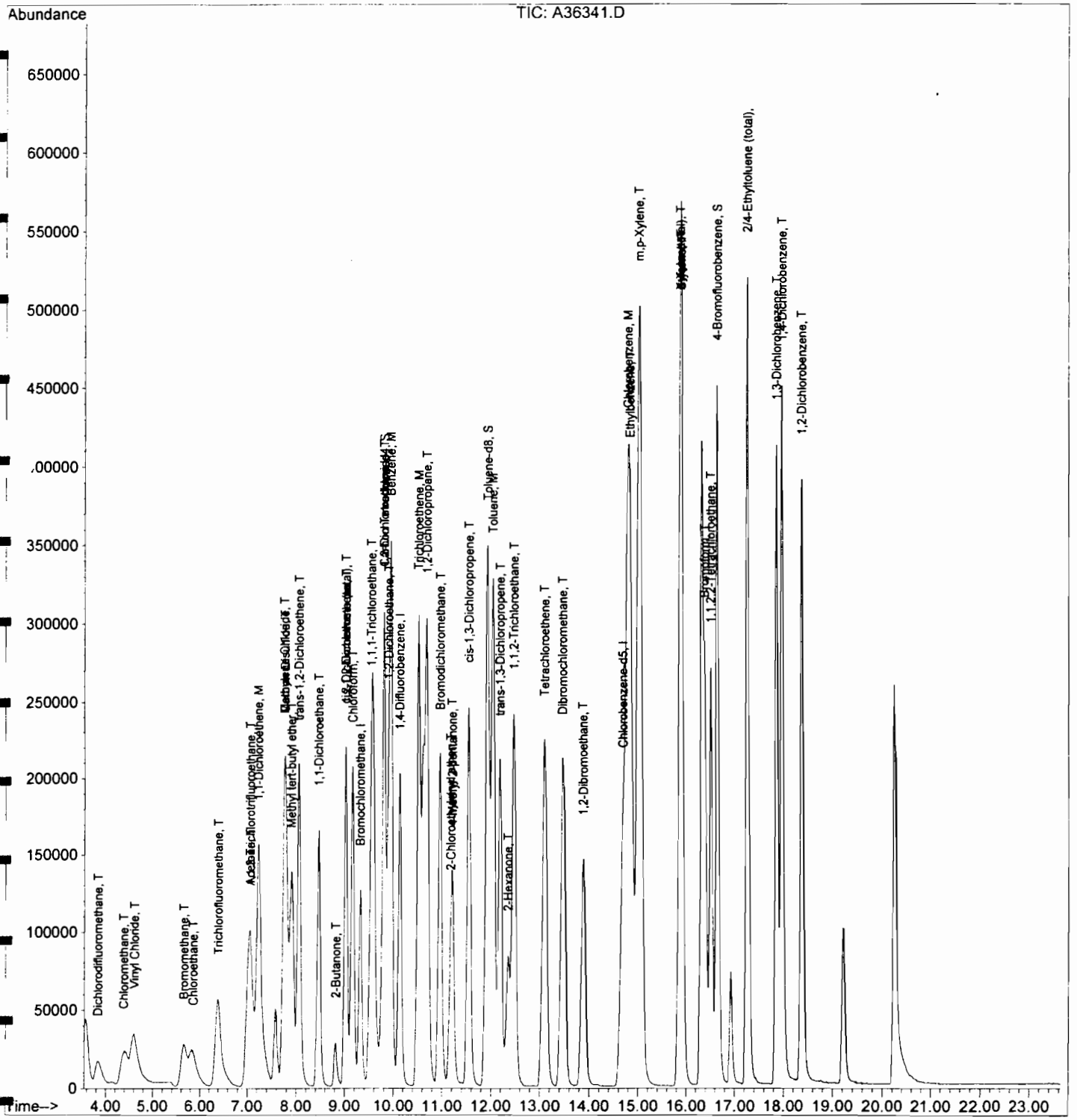
(#) = qualifier out of range (m) = manual integration

ANSON015 V60

Quantitation Report

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36341.D Vial: 5
Acq On : 21 Oct 2003 13:15 Operator: JV
Sample : VSTD100 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:13 2003 Quant Results File: CLPW1021.RES

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D



ANSON015 V61

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36341.D Vial: 5
Acq On : 21 Oct 2003 13:15 Operator: JV
Sample : VSTD100 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:13 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Tue Oct 21 12:31:28 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D
DataAcq Meth : CLPW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.31	128	87481	50.00	ug/l	-0.12
26) 1,4-Difluorobenzene	10.13	114	431607	50.00	ug/l	-0.08
41) Chlorobenzene-d5	14.68	117	396223	50.00	ug/l	-0.04
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.79	65	227557	93.37	ug/l	-0.10
Spiked Amount 50.000	Range 76 - 114		Recovery = 186.74%#			
47) Toluene-d8	11.91	98	727117	107.95	ug/l	-0.06
Spiked Amount 50.000	Range 88 - 110		Recovery = 215.90%#			
51) 4-Bromofluorobenzene	16.63	95	455727	101.99	ug/l	-0.02
Spiked Amount 50.000	Range 86 - 115		Recovery = 203.98%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.84	85	94046	95.12	ug/l	90
3) Chloromethane	4.37	50	116359	92.03	ug/l	93
4) Bromomethane	5.65	94	113716	98.42	ug/l	97
5) Vinyl Chloride	4.61	62	173803	96.91	ug/l	92
6) Chloroethane	5.85	64	128789	96.35	ug/l	99
10) 1,1,2-Trichlorotrifluoroet	7.04	101	272695	91.47	ug/l	99
11) Methylene Chloride	7.74	84	196461	83.75	ug/l	99
12) Acetone	7.06	43	40534	80.91	ug/l	100
13) Carbon Disulfide	7.77	76	509000	84.51	ug/l	98
14) 1,1-Dichloroethene	7.22	96	182868	87.40	ug/l	99
15) 1,1-Dichloroethane	8.45	63	426645	85.00	ug/l	100
16) Trichlorofluoromethane	6.38	101	253951	102.51	UG/L	97
18) Methyl tert-butyl ether	7.90	73	382499	93.76	UG/L	97
19) trans-1,2-Dichloroethene	8.05	96	210921	85.90	UG/L	95
20) cis-1,2-Dichloroethene	9.01	96	227450	84.41	UG/L	98
21) 1,2-Dichloroethene (total)	9.01	96	438493m	170.28	ug/l	
22) 2-Butanone	8.82	43	91282	81.47	UG/L	95
23) Chloroform	9.15	83	387962	83.80	ug/l	97
25) 1,2-Dichloroethane	9.88	62	238266	84.26	ug/l	98
27) 1,1,1-Trichloroethane	9.53	97	268030	93.31	ug/l	99
29) Carbon Tetrachloride	9.78	117	266431	93.33	ug/l	96
30) 2-Chloroethylvinyl ether	11.16	63	44153	40.47	UG/L	89
31) Bromodichloromethane	10.96	83	389563	85.90	ug/l	100
32) 1,2-Dichloropropane	10.69	63	307017	88.32	ug/l	96
33) cis-1,3-Dichloropropene	11.54	75	441574	88.15	ug/l	98
34) Trichloroethene	10.51	130	301094	95.61	ug/l	98
36) Benzene	9.94	78	683789	88.27	ug/l	99

(#) = qualifier out of range (m) = manual integration

ANSON015 V62

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36341.D Vial: 5
Acq On : 21 Oct 2003 13:15 Operator: JV
Sample : VSTD100 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:13 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Tue Oct 21 12:31:28 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D
DataAcq Meth : CLPW1021

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) Dibromochloromethane	13.46	129	445612	89.35 ug/l	96
38) trans-1,3-Dichloropropene	12.18	75	364921	87.48 ug/l	99
39) 1,1,2-Trichloroethane	12.46	97	254188	87.98 ug/l	99
40) Bromoform	16.39	173	248161	90.21 ug/l	97
42) 4-Methyl-2-pentanone	11.20	43	305402	75.48 ug/l	94
43) 2-Hexanone	12.35	43	189431	84.52 ug/l	98
44) 1,2-Dibromoethane	13.87	107	381401	90.41 ug/l	100
45) Tetrachloroethene	13.09	164	189233	101.35 ug/l	96
46) 1,1,2,2-Tetrachloroethane	16.51	83	391744	87.92 ug/l	99
48) Toluene	12.03	91	711860	95.87 ug/l	98
49) Chlorobenzene	14.78	112	621431	98.09 ug/l	98
50) Ethylbenzene	14.84	106	269122	102.95 ug/l	98
52) Styrene	15.90	104	523267	102.25 ug/l	99
53) m,p-Xylene	15.02	106	708351	207.50 UG/L	97
54) o-Xylene	15.86	106	333562	104.84 UG/L	97
55) Xylene (total)	15.86	106	333562	104.84 ug/l	97
57) 1,3-Dichlorobenzene	17.85	146	400859	115.76 UG/L	99
58) 1,4-Dichlorobenzene	17.95	146	470706	114.42 UG/L	98
59) 1,2-Dichlorobenzene	18.37	146	411180	113.91 UG/L	99
62) 2/4-Ethyltoluene (total)	17.25	105	898799	165.23 ug/l	99

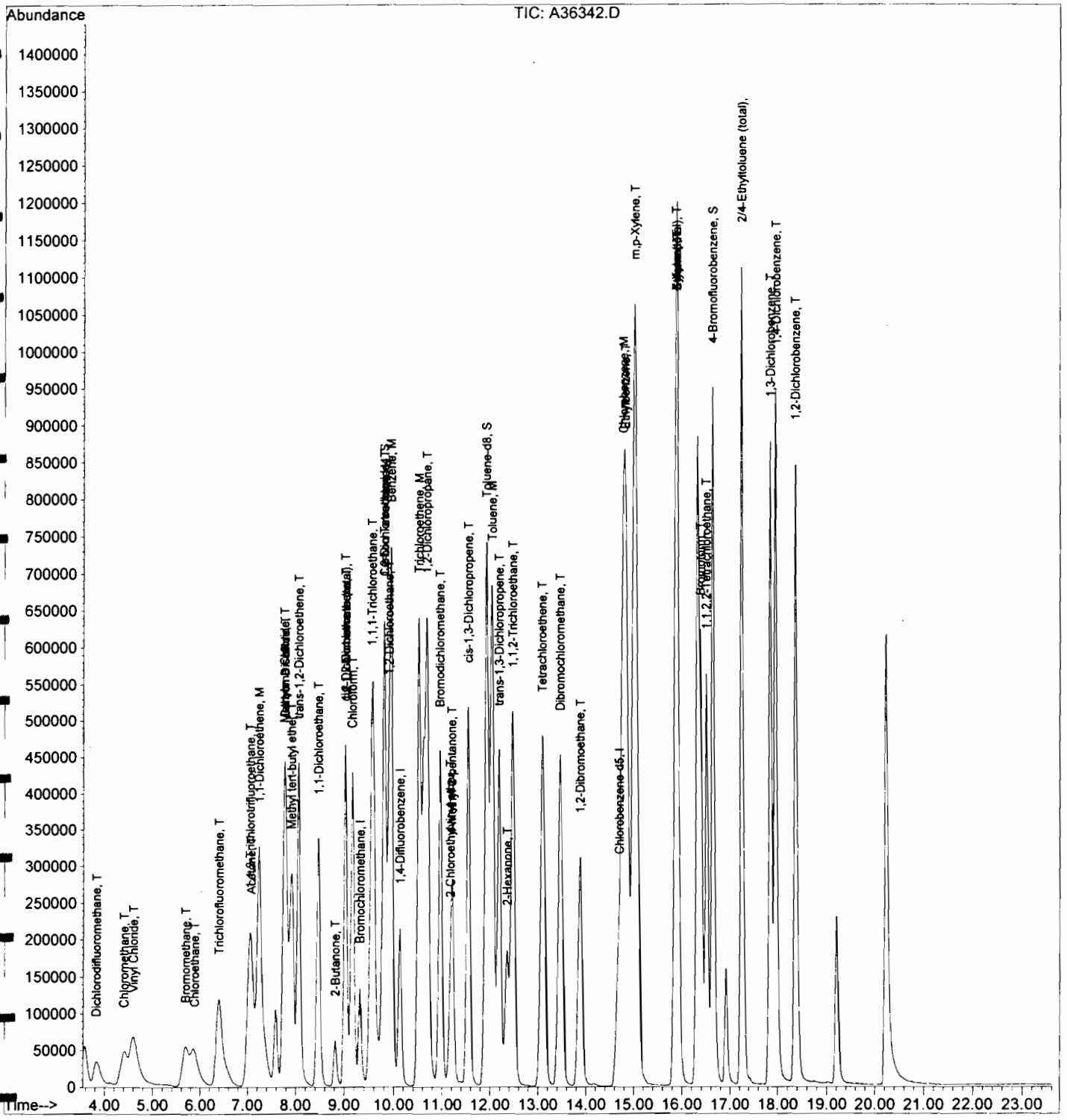
ANSON015 V63

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36342.D Vial: 6
Acq On : 21 Oct 2003 13:43 Operator: JV
Sample : VSTD200 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:14 2003 Quant Results File: CLPW1021.RES

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D



ANSON015 V64

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36342.D Vial: 6
Acq On : 21 Oct 2003 13:43 Operator: JV
Sample : VSTD200 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:14 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Tue Oct 21 12:31:28 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D
DataAcq Meth : CLPW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.32	128	89218	50.00	ug/l	-0.11
26) 1,4-Difluorobenzene	10.12	114	440782	50.00	ug/l	-0.09
41) Chlorobenzene-d5	14.68	117	406890	50.00	ug/l	-0.04
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.79	65	480959	193.50	ug/l	-0.10
Spiked Amount 50.000	Range 76 - 114		Recovery = 387.00%#			
47) Toluene-d8	11.91	98	1529469	221.12	ug/l	-0.06
Spiked Amount 50.000	Range 88 - 110		Recovery = 442.24%#			
51) 4-Bromofluorobenzene	16.62	95	959044	209.00	ug/l	-0.03
Spiked Amount 50.000	Range 86 - 115		Recovery = 418.00%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.83	85	204097	202.41	ug/l	93
3) Chloromethane	4.39	50	247503	191.94	ug/l	93
4) Bromomethane	5.67	94	254974	216.38	ug/l	98
5) Vinyl Chloride	4.60	62	364906	199.51	ug/l	96
6) Chloroethane	5.89	64	272330	199.78	ug/l	97
10) 1,1,2-Trichlorotrifluoroet	7.04	101	567599	186.69	ug/l	99
11) Methylene Chloride	7.74	84	413820	172.98	ug/l	99
12) Acetone	7.07	43	85511	167.37	ug/l	96
13) Carbon Disulfide	7.77	76	1072074	174.54	ug/l	97
14) 1,1-Dichloroethene	7.23	96	381467	178.76	ug/l	97
15) 1,1-Dichloroethane	8.45	63	895190	174.87	ug/l	99
16) Trichlorofluoromethane	6.39	101	564416	223.40	UG/L	97
18) Methyl tert-butyl ether	7.91	73	792663	190.52	UG/L	98
19) trans-1,2-Dichloroethene	8.05	96	441086	176.14	UG/L	95
20) cis-1,2-Dichloroethene	9.01	96	479580	174.51	UG/L	97
21) 1,2-Dichloroethene (total)	9.01	96	922734m	351.35	ug/l	
22) 2-Butanone	8.82	43	195175	170.81	UG/L	96
23) Chloroform	9.15	83	815390	172.70	ug/l	97
25) 1,2-Dichloroethane	9.88	62	502941	174.39	ug/l	97
27) 1,1,1-Trichloroethane	9.54	97	556813	189.81	ug/l	99
29) Carbon Tetrachloride	9.78	117	558902	191.71	ug/l	97
30) 2-Chloroethylvinyl ether	11.15	63	70504	63.27	UG/L	90
31) Bromodichloromethane	10.96	83	828006	178.78	ug/l	98
32) 1,2-Dichloropropane	10.68	63	641063	180.57	ug/l	99
33) cis-1,3-Dichloropropene	11.54	75	936708	183.11	ug/l	97
34) Trichloroethene	10.51	130	640754	199.23	ug/l	99
36) Benzene	9.93	78	1422276	179.78	ug/l	99

(#) = qualifier out of range (m) = manual integration

ANSON015 V65

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36342.D Vial: 6
Acq On : 21 Oct 2003 13:43 Operator: JV
Sample : VSTD200 Inst : H5971
Misc : ,,,ICAL,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:14 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Tue Oct 21 12:31:28 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\OCT03\102103A\A36338.D
DataAcq Meth : CLPW1021

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
37) Dibromochloromethane	13.46	129	948215	186.17 ug/l	97
38) trans-1,3-Dichloropropene	12.18	75	780360	183.17 ug/l	100
39) 1,1,2-Trichloroethane	12.46	97	540887	183.32 ug/l	99
40) Bromoform	16.39	173	539351	191.98 ug/l	97
42) 4-Methyl-2-pentanone	11.20	43	631813	152.07 ug/l	96
43) 2-Hexanone	12.35	43	402173	174.73 ug/l	98
44) 1,2-Dibromoethane	13.87	107	812097	187.46 ug/l	100
45) Tetrachloroethene	13.08	164	405121	211.29 ug/l	96
46) 1,1,2,2-Tetrachloroethane	16.50	83	821161	179.47 ug/l	99
48) Toluene	12.03	91	1498371	196.50 ug/l	99
49) Chlorobenzene	14.77	112	1326956	203.97 ug/l	99
50) Ethylbenzene	14.83	106	585620	218.14 ug/l	100
52) Styrene	15.89	104	1112402	211.67 ug/l	99
53) m,p-Xylene	15.02	106	1500093	427.91 UG/L	98
54) o-Xylene	15.86	106	710833	217.56 UG/L	99
55) Xylene (total)	15.86	106	710833	217.56 ug/l	99
57) 1,3-Dichlorobenzene	17.84	146	878323	247.00 UG/L	100
58) 1,4-Dichlorobenzene	17.94	146	1007795	238.55 UG/L	99
59) 1,2-Dichlorobenzene	18.35	146	891262	240.44 UG/L	99
62) 2/4-Ethyltoluene (total)	17.23	105	1907210	341.43 ug/l	99

ANSON015 V66

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON015

Instrument ID: HP5971 Calibration Date: 11/19/03 Time: 11:21

Lab File ID: A\A36835.D Init. Calib. Date(s): 10/21/03 10/21/03

EPA Sample No.(VSTD050##): VSTD050 Init. Calib. Times: 11:05 13:43

Heated Purge: (Y/N) N

GC Column: R-502.2 ID: .53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	0.671	0.706		5.4	
Bromomethane	0.623	0.672	0.100	7.8	25.0
Vinyl chloride	0.936	1.006	0.100	7.5	25.0
Chloroethane	0.708	0.809		14.3	
Methylene chloride	1.228	1.342		9.3	
Acetone	0.257	0.255		-1.1	
1,1-Dichloroethene	1.086	1.085	0.100	-0.1	25.0
Carbon disulfide	3.039	3.080		1.3	
1,1-Dichloroethane	2.590	2.840	0.100	9.7	25.0
1,2-Dichloroethene (total)	1.325	1.411		6.5	
Chloroform	2.390	2.575	0.200	7.7	25.0
1,2-Dichloroethane	1.473	1.603	0.100	8.8	25.0
2-Butanone	0.591	0.586		-0.8	
1,1,1-Trichloroethane	0.332	0.312		-6.1	
Carbon tetrachloride	0.339	0.295	0.100	-12.9	25.0
Bromodichloromethane	0.481	0.496	0.200	2.9	25.0
1,2-Dichloropropane	0.378	0.389		3.1	
cis-1,3-Dichloropropene	0.537	0.528	0.200	-1.7	25.0
Trichloroethene	0.370	0.325	0.300	-12.2	25.0
Dibromochloromethane	0.540	0.544	0.100	0.7	25.0
1,1,2-Trichloroethane	0.318	0.318	0.100	0.1	25.0
Benzene	0.846	0.846	0.500	0.1	25.0
trans-1,3-Dichloropropene	0.446	0.432	0.100	-3.1	25.0
Bromoform	0.301	0.310	0.100	3.1	25.0
4-Methyl-2-pentanone	0.431	0.386		-10.3	
2-Hexanone	0.265	0.252		-5.0	
Tetrachloroethene	0.261	0.195	0.200	-25.2	25.0
1,1,2,2-Tetrachloroethane	0.542	0.528	0.500	-2.7	25.0
Toluene	0.988	0.861	0.400	-12.9	25.0
Chlorobenzene	0.853	0.748	0.500	-12.3	25.0
Ethylbenzene	0.368	0.293	0.100	-20.4	25.0
Styrene	0.711	0.582	0.300	-18.1	25.0
Xylene (total)	0.454	0.370	0.300	-18.5	25.0

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: 10478 Case No.: ANSON SAS No.: _____ SDG No.: ANSON015

Instrument ID: HP5971 Calibration Date: 11/19/03 Time: 11:21

Lab File ID: A\A36835.D Init. Calib. Date(s): 10/21/03 10/21/03

EPA Sample No. (VSTD050##): VSTD050 Init. Calib. Times: 11:05 13:43

Heated Purge: (Y/N) N

GC Column: R-502.2 ID: .53 (mm)

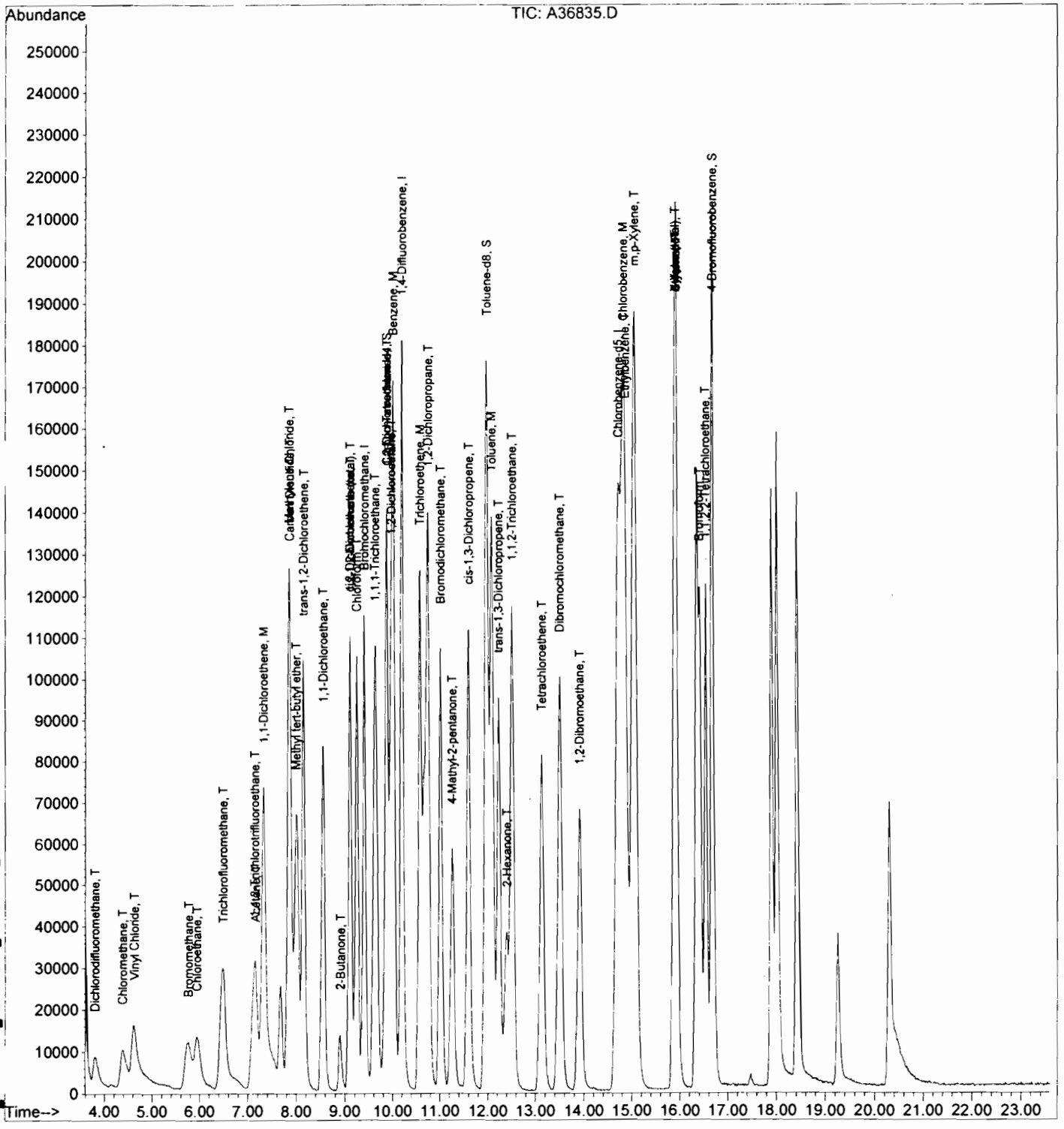
COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloroethane-d4	1.319	1.470		11.4	
Toluene-d8	0.853	1.062		24.6	
4-Bromofluorobenzene	0.555	0.618	0.200	11.2	25.0

All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36835.D Vial: 3
Acq On : 19 Nov 2003 11:21 Operator: JV
Sample : VSTD050 Inst : H5971
Misc : ,,,CCV,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 20 21:33 2003 Quant Results File: CLPW1021.RES

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: O:\MS\HP5971\DATA\NOV03\111903A\A36835.



ANSON015 V69

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36835.D Vial: 3
Acq On : 19 Nov 2003 11:21 Operator: JV
Sample : VSTD050 Inst : H5971
Misc : ,,,CCV,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 20 21:33 2003 Quant Results File: CLPW1021.RES

Quant Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: O:\MS\HP5971\DATA\NOV03\111903A\A36835.
DataAcq Meth : OLMW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.39	128	75315	50.00	ug/l	0.00
26) 1,4-Difluorobenzene	10.19	114	382235	50.00	ug/l	0.00
41) Chlorobenzene-d5	14.70	117	345586	50.00	ug/l	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.86	65	110689	50.00	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 100.00%			
47) Toluene-d8	11.96	98	367128	50.00	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.00%			
51) 4-Bromofluorobenzene	16.66	95	213445	50.00	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.80	85	40607	50.00	ug/l	88
3) Chloromethane	4.38	50	53210	50.00	ug/l	93
4) Bromomethane	5.76	94	50631	50.00	ug/l	97
5) Vinyl Chloride	4.62	62	75793	50.00	ug/l	92
6) Chloroethane	5.95	64	60959	50.00	ug/l	96
10) 1,1,2-Trichlorotrifluoroet	7.12	101	79662	50.00	ug/l	94
11) Methylene Chloride	7.83	84	101076	50.00	ug/l	99
12) Acetone	7.16	43	19177	50.00	ug/l	99
13) Carbon Disulfide	7.86	76	231970	50.00	ug/l	99
14) 1,1-Dichloroethene	7.31	96	81689	50.00	ug/l	99
15) 1,1-Dichloroethane	8.54	63	213892	50.00	ug/l	99
16) Trichlorofluoromethane	6.48	101	129002	50.00	UG/L	99
18) Methyl tert-butyl ether	8.00	73	200493	50.00	UG/L	96
19) trans-1,2-Dichloroethene	8.14	96	100158	50.00	UG/L	98
20) cis-1,2-Dichloroethene	9.09	96	111705	50.00	UG/L	99
21) 1,2-Dichloroethene (total)	9.09	96	212054	99.80	ug/l	
22) 2-Butanone	8.90	43	44146	50.00	UG/L	99
23) Chloroform	9.23	83	193922	50.00	ug/l	96
25) 1,2-Dichloroethane	9.95	62	120710	50.00	ug/l	97
27) 1,1,1-Trichloroethane	9.60	97	119320	50.00	ug/l	99
29) Carbon Tetrachloride	9.86	117	112810	50.00	ug/l	97
31) Bromodichloromethane	11.00	83	189435	50.00	ug/l	98
32) 1,2-Dichloropropane	10.74	63	148829	50.00	ug/l	96
33) cis-1,3-Dichloropropene	11.59	75	201924	50.00	ug/l	98
34) Trichloroethene	10.57	130	124189	50.00	ug/l	97
36) Benzene	10.00	78	323454	50.00	ug/l	100
37) Dibromochloromethane	13.49	129	207781	50.00	ug/l	99

(#) = qualifier out of range (m) = manual integration

ANSON015 V70

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36835.D Vial: 3
Acq On : 19 Nov 2003 11:21 Operator: JV
Sample : VSTD050 Inst : H5971
Misc : ,,,CCV,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 20 21:33 2003 Quant Results File: CLPW1021.RES

Quant Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: O:\MS\HP5971\DATA\NOV03\111903A\A36835.
DataAcq Meth : OLMW1021

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	trans-1,3-Dichloropropene	12.22	75	165278	50.00	ug/l	98
39)	1,1,2-Trichloroethane	12.50	97	121690	50.00	ug/l	99
40)	Bromoform	16.41	173	118544	50.00	ug/l	98
42)	4-Methyl-2-pentanone	11.25	43	133500	50.00	ug/l	98
43)	2-Hexanone	12.38	43	87169	50.00	ug/l	100
44)	1,2-Dibromoethane	13.90	107	177730	50.00	ug/l	99
45)	Tetrachloroethene	13.12	164	67343	50.00	ug/l	96
46)	1,1,2,2-Tetrachloroethane	16.52	83	182298	50.00	ug/l	97
48)	Toluene	12.07	91	297420	50.00	ug/l	98
49)	Chlorobenzene	14.80	112	258415	50.00	ug/l	99
50)	Ethylbenzene	14.86	106	101345	50.00	ug/l	100
52)	Styrene	15.91	104	201090	50.00	ug/l	99
53)	m,p-Xylene	15.04	106	265953	100.00	UG/L	97
54)	o-Xylene	15.87	106	127948	50.00	UG/L	97
55)	Xylene (total)	15.87	106	127948	50.00	ug/l	97

ANSON015 V71

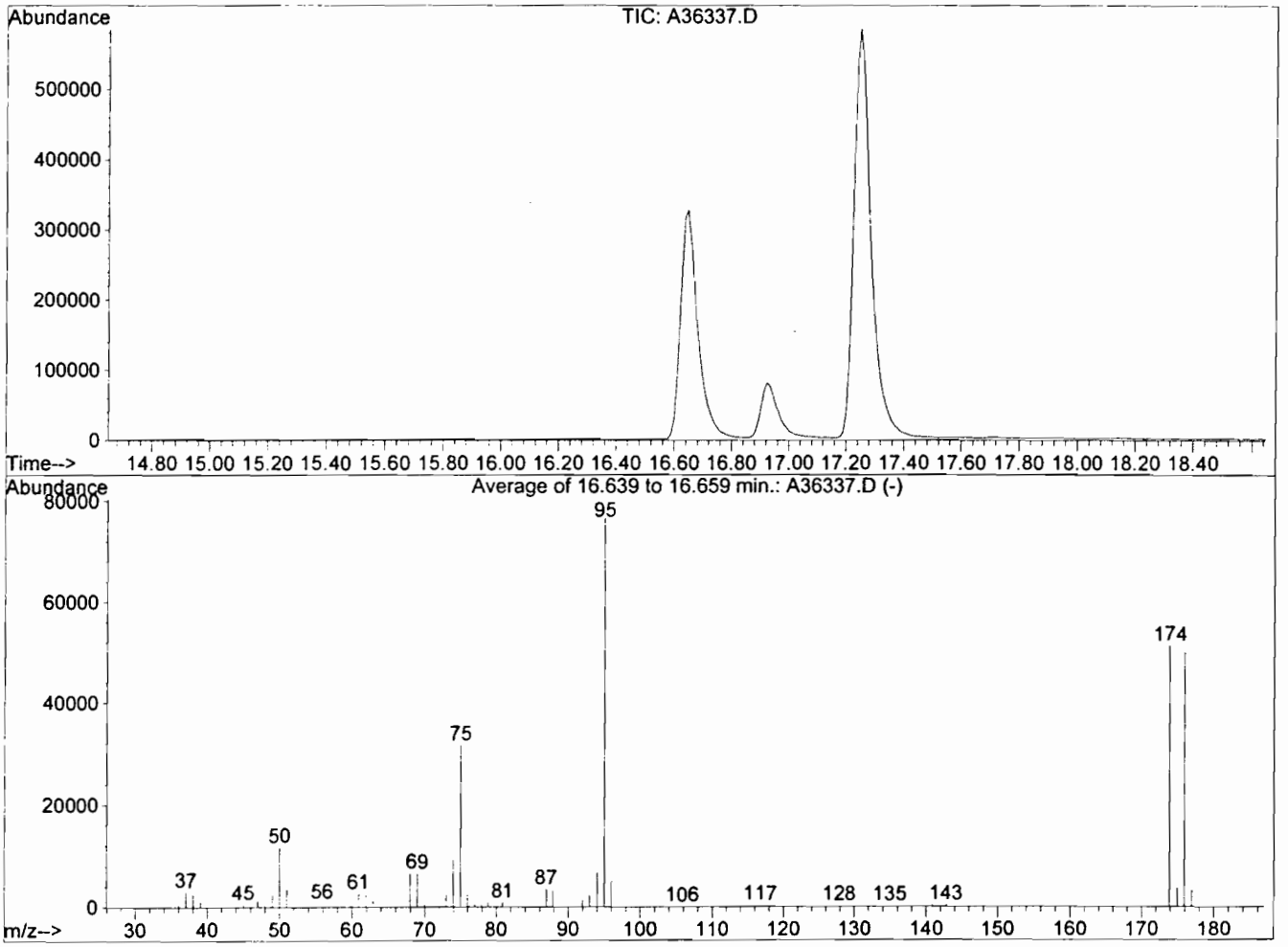
(#) = qualifier out of range (m) = manual integration

IV. RAW QC DATA PACKAGE FOR VOLATILE ORGANICS

A. TUNING
B. BLANK
C. MATRIX SPIKE BLANK
D. SPIKE AND SPIKE DUPLICATE
E. COPY OF CALCULATIONS

CLPBFB

Data File : O:\MS\HP5971\DATA\OCT03\102103A\A36337.D Vial: 1
Acq On : 21 Oct 2003 10:12 Operator: JV
Sample : 50NG BFB Inst : H5971
Misc : ,,,tune,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration



AutoFind: Scans 1329, 1330, 1331; Background Corrected with Scan 1320

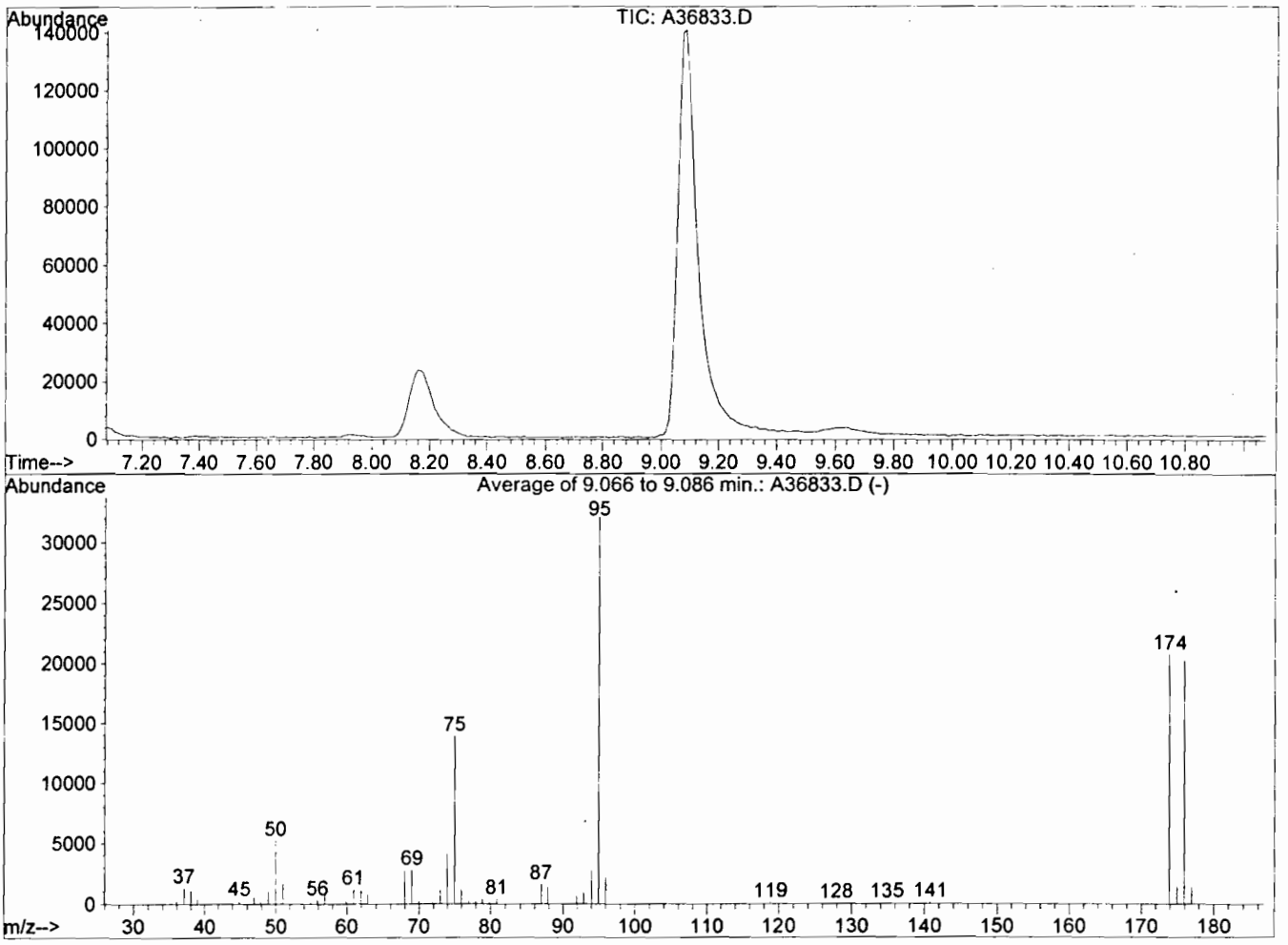
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	11675	PASS
75	95	30	60	41.4	31693	PASS
95	95	100	100	100.0	76621	PASS
96	95	5	9	6.7	5097	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.0	51363	PASS
175	174	5	9	7.2	3722	PASS
176	174	95	101	97.4	50011	PASS
177	176	5	9	6.6	3300	PASS

A36337.D CLPW1021.M Thu Nov 20 21:27:10 2003 SYS1

ANSON015 V73

CLPBFB

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36833.D Vial: 1
Acq On : 19 Nov 2003 10:19 Operator: JV
Sample : 50NG BFB Inst : H5971
Misc : ,,,TUNE,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration



AutoFind: Scans 409, 410, 411; Background Corrected with Scan 401

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.3	5246	PASS
75	95	30	60	43.4	13943	PASS
95	95	100	100	100.0	32157	PASS
96	95	5	9	6.9	2208	PASS
173	174	0.00	2	0.1	20	PASS
174	95	50	100	64.7	20811	PASS
175	174	5	9	7.1	1485	PASS
176	174	95	101	97.3	20253	PASS
177	176	5	9	7.1	1438	PASS

A36833.D CLPW1021.M Thu Nov 20 20:04:26 2003 SYS1

ANSON015 V74

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK111903

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: VBLK111903

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36836.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	1	J
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK111903

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: VBLK111903

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36836.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

1F

EPA SAMPLE NO.

VBLK111903

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name H2M LABS, INC. Contract _____

Lab Code 10478 Case No. ANSON SAS No. _____ SDG No. ANSON015

Matrix: (soil/water) WATER Lab Sample ID: VBLK111903

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36836.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: (µl) Soil Aliquot Volume: 0 (µL)

CONCENTRATION UNITS:

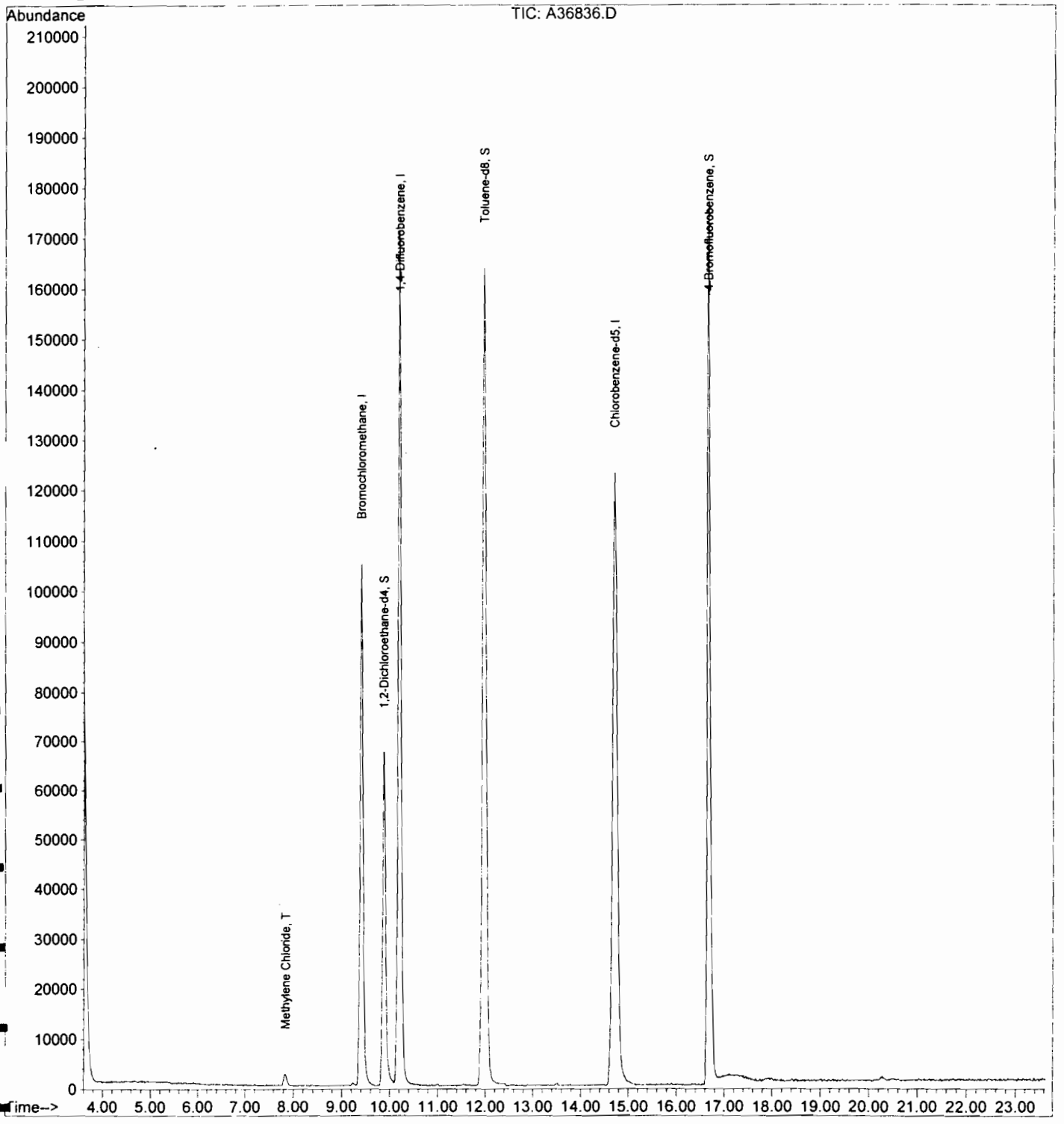
Number TICs found: 0 (µg/L or µg/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

Quantitation Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36836.D Vial: 4
Acq On : 19 Nov 2003 11:53 Operator: JV
Sample : VBLK111903 Inst : H5971
Misc : ,,,MBLK,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 19 15:09 2003 Quant Results File: CLPW1021.RES

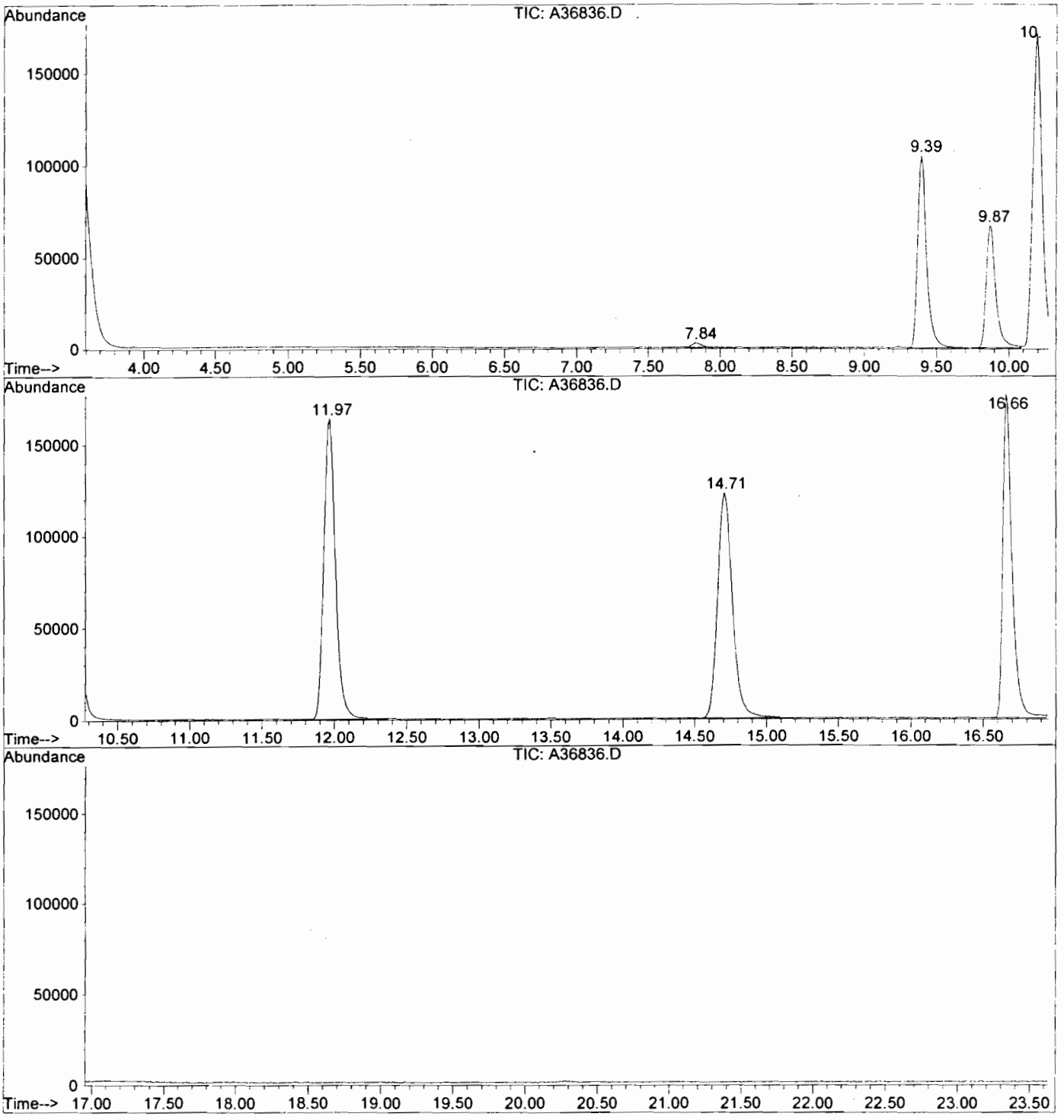
Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D



ANSON015 V78

LSC Report - Integrated Chromatogram

File : O:\MS\HP5971\DATA\NOV03\111903A\A36836.D
Operator : JV
Acquired : 19 Nov 2003 11:53 using AcqMethod OLMW1021
Instrument : H5971
Sample Name: VBLK111903
Misc Info : ,,,MBLK,,
Vial Number: 4
Quant File :CLPW1021.RES (RTE Integrator)



ANSON015 V79

A36836.D CLPW1021.M Thu Nov 20 19:56:04 2003 SYS1

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36836.D Vial: 4
Acq On : 19 Nov 2003 11:53 Operator: JV
Sample : VBLK111903 Inst : H5971
Misc : ,,,MBLK,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 19 15:09 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 27 16:57:53 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D
DataAcq Meth : OLMW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.39	128	71610	50.00	ug/l	0.00
26) 1,4-Difluorobenzene	10.19	114	368086	50.00	ug/l	0.00
41) Chlorobenzene-d5	14.71	117	322331	50.00	ug/l	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.87	65	97215	46.19	ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 92.38%			
47) Toluene-d8	11.97	98	346552	50.60	ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 101.20%			
51) 4-Bromofluorobenzene	16.66	95	189768	47.66	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 95.32%			
Target Compounds						Qvalue
11) Methylene Chloride	7.83	84	2666	1.39	ug/l	90

(#) = qualifier out of range (m) = manual integration

ANSON015 V80

Tentatively Identified Compound (LSC) summary

erator ID: JV Date Acquired: 19 Nov 2003 11:53
ta File: O:\MS\HP5971\DATA\NOV03\111903A\A36836.D
me: VBLK111903
,,,MBLK,,
od: C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
le: VOA Standards for 5 point calibration
brary Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
A36836.D CLPW1021.M	Thu Nov 20 19:56:04 2003				SYS1			

ANSON015 V81

LSC Area Percent Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36836.D Vial: 4
Acq On : 19 Nov 2003 11:53 Operator: JV
Sample : VBLK111903 Inst : H5971
Misc : ,,,MBLK,, Multiplr: 1.00
Integration Params: LSCINT.P

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0.08 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

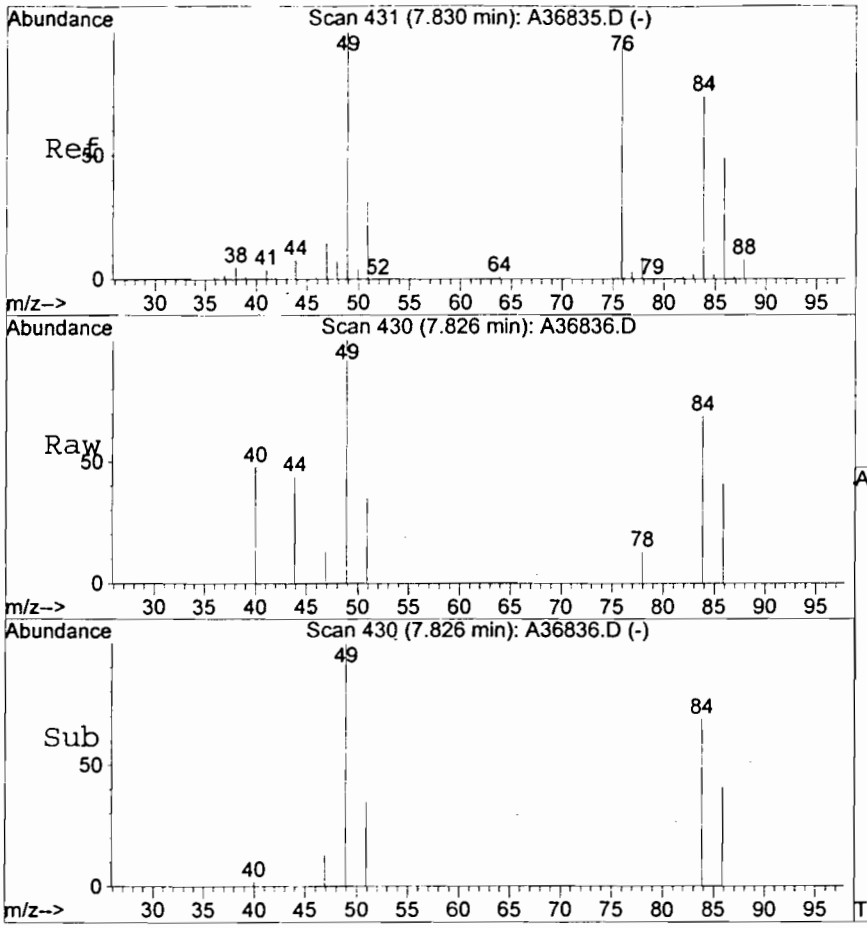
Signal : TIC

Pk #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	7.836	423	431	443	rVB3	2342	10630	1.16%	0.258%
	9.393	579	589	622	rVB	104703	455466	49.76%	11.064%
3	9.867	625	637	659	rBV	66984	306886	33.53%	7.455%
4	10.192	659	670	695	rVB	170401	778427	85.05%	18.909%
	11.966	835	850	891	rBV	163486	915272	100.00%	22.234%
5	14.707	1111	1128	1174	rBV	122750	874843	95.58%	21.252%
	16.659	1316	1326	1354	rBV	176404	775091	84.68%	18.828%

Sum of corrected areas: 4116615

A36836.D CLPW1021.M Thu Nov 20 19:56:01 2003 SYS1

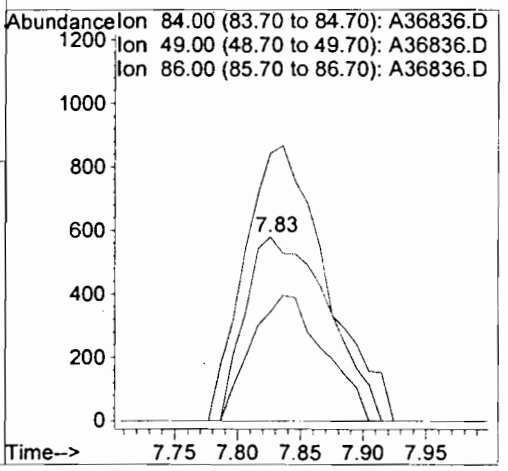
ANSON015 V82



#11
Methylene Chloride
Concen: 1.39 ug/l
RT: 7.83 min Scan# 430
Delta R.T. -0.00 min
Lab File: A36836.D
Acq: 19 Nov 2003 11:53

Tgt Ion: 84 Resp: 2666

Ion	Ratio	Lower	Upper
84	100		
49	145.7	113.3	153.3
86	59.1	45.1	85.1



ANSON015 V83

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSB111903

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: MSB111903

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36841.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	1	BJ
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	40	
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	50	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	44	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	55	
108-90-7	Chlorobenzene	56	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSB111903

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: MSB111903

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36841.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

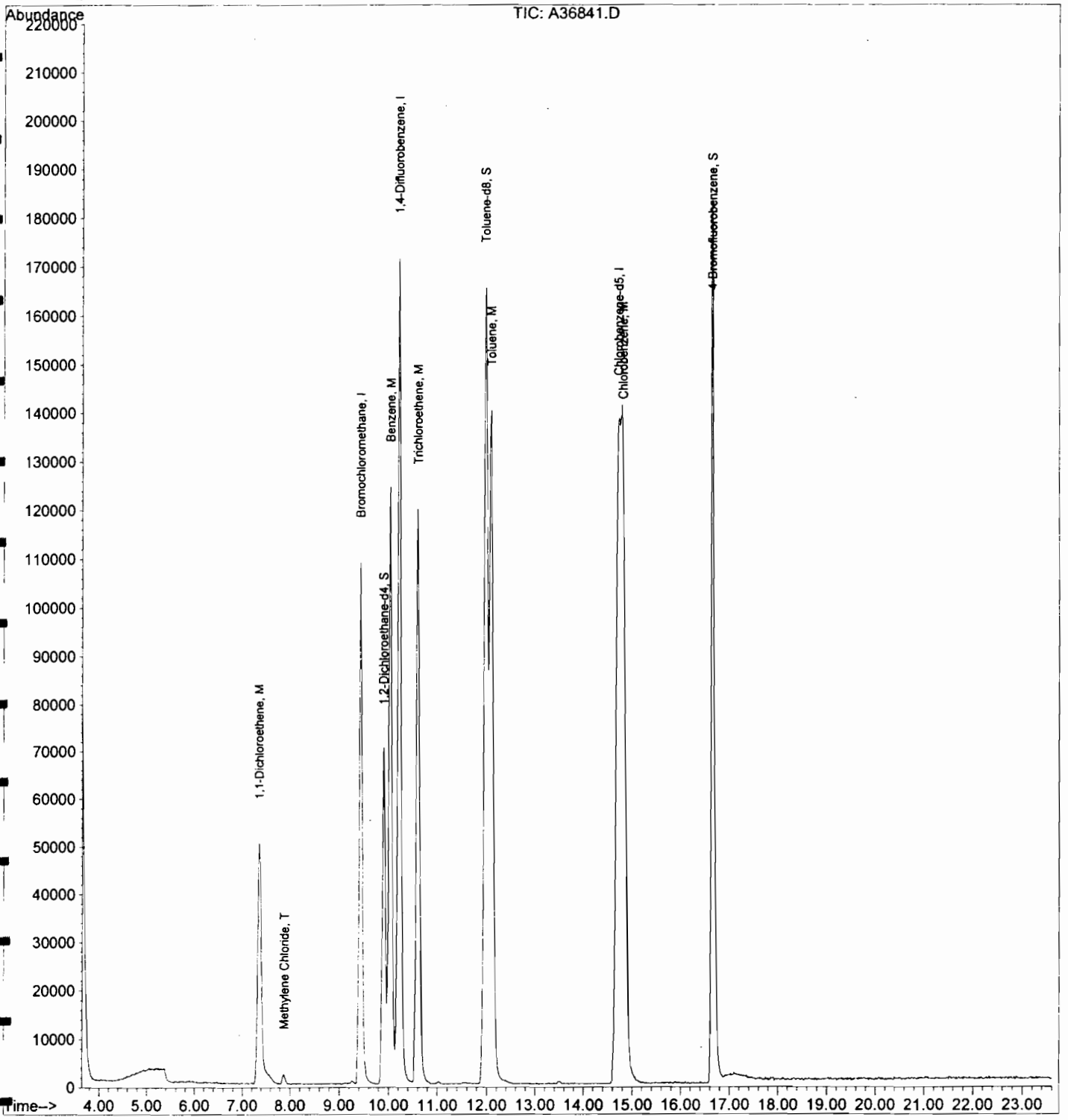
Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

Quantitation Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36841.D Vial: 10
Acq On : 19 Nov 2003 14:51 Operator: JV
Sample : MSB111903 Inst : H5971
Misc : ,,,LCS,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 19 15:15 2003 Quant Results File: CLPW1021.RES

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D



ANSON015 V86

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36841.D Vial: 10
Acq On : 19 Nov 2003 14:51 Operator: JV
Sample : MSB111903 Inst : H5971
Misc : ,,,LCS,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 19 15:15 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 27 16:57:53 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D
DataAcq Meth : CLPW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.42	128	72493	50.00	ug/l	0.03
26) 1,4-Difluorobenzene	10.21	114	365090	50.00	ug/l	0.02
41) Chlorobenzene-d5	14.71	117	326290	50.00	ug/l	0.01
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.89	65	99985	46.92	ug/l	0.03
Spiked Amount 50.000	Range 76 - 114		Recovery = 93.84%			
47) Toluene-d8	11.97	98	346442	49.97	ug/l	0.01
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.94%			
51) 4-Bromofluorobenzene	16.65	95	194720	48.31	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 96.62%			
Target Compounds						Qvalue
11) Methylene Chloride	7.88	84	2425	1.25	ug/l	95
14) 1,1-Dichloroethene	7.35	96	62592	39.80	ug/l	99
34) Trichloroethene	10.59	130	118010	49.74	ug/l	98
36) Benzene	10.03	78	270600	43.79	ug/l	99
48) Toluene	12.09	91	306928	54.65	ug/l	99
49) Chlorobenzene	14.82	112	273566	56.06	ug/l	96

ANSON015 V87

(#) = qualifier out of range (m) = manual integration

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

LFB111903

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: LFB111903

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36837.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (µg/L or µg/Kg)	UG/L	Q
74-87-3	Chloromethane	48	
74-83-9	Bromomethane	48	
75-01-4	Vinyl chloride	46	
75-00-3	Chloroethane	47	
75-09-2	Methylene chloride	49	B
67-64-1	Acetone	53	
75-35-4	1,1-Dichloroethene	47	
75-15-0	Carbon disulfide	46	
75-34-3	1,1-Dichloroethane	47	
540-59-0	1,2-Dichloroethene (total)	94	
67-66-3	Chloroform	48	
107-06-2	1,2-Dichloroethane	50	
78-93-3	2-Butanone	53	
71-55-6	1,1,1-Trichloroethane	46	
56-23-5	Carbon tetrachloride	46	
75-27-4	Bromodichloromethane	48	
78-87-5	1,2-Dichloropropane	48	
10061-01-5	cis-1,3-Dichloropropene	48	
79-01-6	Trichloroethene	46	
124-48-1	Dibromochloromethane	49	
79-00-5	1,1,2-Trichloroethane	50	
71-43-2	Benzene	47	
10061-02-6	trans-1,3-Dichloropropene	49	
75-25-2	Bromoform	49	
108-10-1	4-Methyl-2-pentanone	51	
591-78-6	2-Hexanone	53	
127-18-4	Tetrachloroethene	46	
79-34-5	1,1,2,2-Tetrachloroethane	51	
108-88-3	Toluene	47	
108-90-7	Chlorobenzene	47	
100-41-4	Ethylbenzene	48	
100-42-5	Styrene	47	

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LFB111903

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: LFB111903

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36837.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

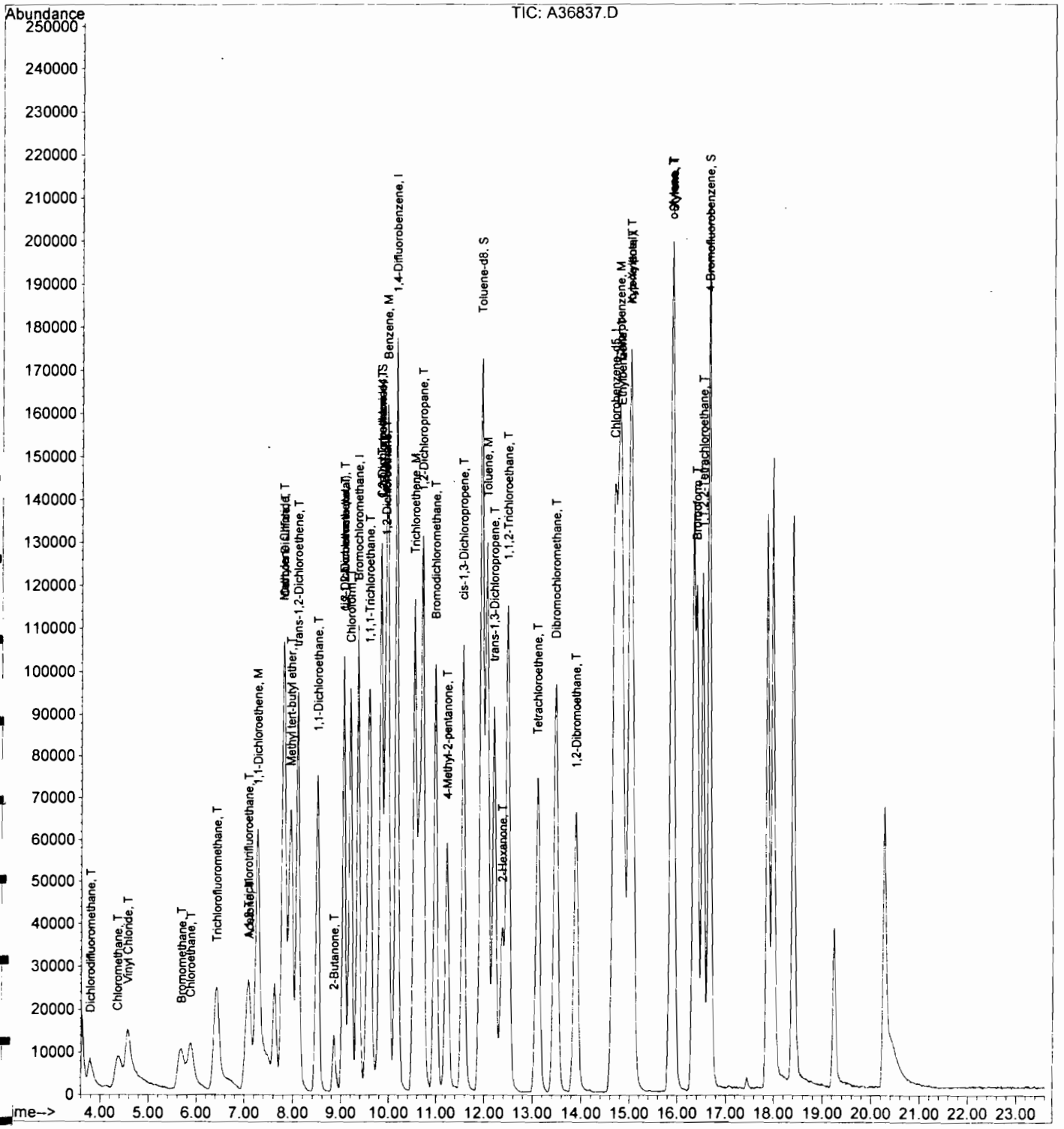
Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	150	

Quantitation Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36837.D Vial: 5
Acq On : 19 Nov 2003 12:21 Operator: JV
Sample : LFB111903 Inst : H5971
Misc : ,,,LFB,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 20 20:14 2003 Quant Results File: CLPW1021.RES

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Thu Nov 20 19:43:43 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D



ANSON015 V90

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36837.D Vial: 5
Acq On : 19 Nov 2003 12:21 Operator: JV
Sample : LFB111903 Inst : H5971
Misc : ,,,LFB,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 20 20:14 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 27 16:57:53 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D
DataAcq Meth : OLMW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.34	128	73096	50.00	ug/l	-0.05
26) 1,4-Difluorobenzene	10.15	114	377650	50.00	ug/l	-0.04
41) Chlorobenzene-d5	14.68	117	340747	50.00	ug/l	-0.02
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.82	65	108455	50.48	ug/l	-0.04
Spiked Amount 50.000	Range 76 - 114		Recovery = 100.96%			
47) Toluene-d8	11.93	98	361222	49.89	ug/l	-0.03
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.78%			
51) 4-Bromofluorobenzene	16.64	95	211764	50.31	ug/l	-0.02
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.79	85	36353	46.12	ug/l	87
3) Chloromethane	4.36	50	49443	47.87	ug/l	96
4) Bromomethane	5.68	94	46765	47.58	ug/l	94
5) Vinyl Chloride	4.57	62	67701	46.02	ug/l	94
6) Chloroethane	5.88	64	55703	47.08	ug/l	96
10) 1,1,2-Trichlorotrifluoroet	7.06	101	67573	43.70	ug/l	91
11) Methylene Chloride	7.77	84	95911	48.89	ug/l	99
12) Acetone	7.10	43	19766	53.10	ug/l	99
13) Carbon Disulfide	7.80	76	206990	45.97	ug/l	99
14) 1,1-Dichloroethene	7.26	96	74270	46.84	ug/l	100
15) 1,1-Dichloroethane	8.49	63	196453	47.32	ug/l	100
16) Trichlorofluoromethane	6.42	101	115967	46.31	UG/L	96
18) Methyl tert-butyl ether	7.94	73	195897	50.34	UG/L	98
19) trans-1,2-Dichloroethene	8.08	96	90131	46.36	UG/L	98
20) cis-1,2-Dichloroethene	9.04	96	104517	48.20	UG/L	99
21) 1,2-Dichloroethene (total)	9.04	96	194729m	94.43	ug/l	
22) 2-Butanone	8.85	43	45357	52.93	UG/L	98
23) Chloroform	9.18	83	180441	47.94	ug/l	98
25) 1,2-Dichloroethane	9.91	62	117604	50.19	ug/l	96
27) 1,1,1-Trichloroethane	9.57	97	108440	45.99	ug/l	98
29) Carbon Tetrachloride	9.81	117	101744	45.64	ug/l	96
31) Bromodichloromethane	10.98	83	180529	48.23	ug/l	98
32) 1,2-Dichloropropane	10.70	63	140134	47.65	ug/l	98
33) cis-1,3-Dichloropropene	11.55	75	191293	47.94	ug/l	99
34) Trichloroethene	10.53	130	113491	46.25	ug/l	99
36) Benzene	9.96	78	300116	46.96	ug/l	99
37) Dibromochloromethane	13.47	129	202300	49.27	ug/l	97

RPC 12/1/03

(#) = qualifier out of range (m) = manual integration

ANSON015 V91

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36837.D Vial: 5
Acq On : 19 Nov 2003 12:21 Operator: JV
Sample : LFB111903 Inst : H5971
Misc : ,,,LFB,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 20 20:14 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 27 16:57:53 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D
DataAcq Meth : OLMW1021

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) trans-1,3-Dichloropropene	12.19	75	159128	48.72	ug/l	97
39) 1,1,2-Trichloroethane	12.47	97	119223	49.58	ug/l	97
40) Bromoform	16.40	173	115685	49.39	ug/l	98
42) 4-Methyl-2-pentanone	11.22	43	135080	51.31	ug/l	98
43) 2-Hexanone	12.36	43	91249	53.08	ug/l	97
44) 1,2-Dibromoethane	13.88	107	173807	49.59	ug/l	99
45) Tetrachloroethene	13.09	164	61652	46.42	ug/l	97
46) 1,1,2,2-Tetrachloroethane	16.52	83	182492	50.76	ug/l	99
48) Toluene	12.04	91	274487	46.80	ug/l	100
49) Chlorobenzene	14.78	112	241329	47.36	ug/l	100
50) Ethylbenzene	14.83	106	95120	47.60	ug/l	99
52) Styrene	15.90	104	187257	47.22	ug/l	99
53) m,p-Xylene	15.02	106	244678m	93.31	UG/L	
54) o-Xylene	15.86	106	120056	47.58	UG/L	99
55) Xylene (total)	15.02	106	369406m	146.41	ug/l	

(#) = qualifier out of range (m) = manual integration

ANSON015 V92

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2DMS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-001AMS

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36845.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	6	J
75-35-4	1,1-Dichloroethene	44	
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	4	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	1	J
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	60	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	46	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	40	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	57	
108-90-7	Chlorobenzene	58	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2DMS

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-001AMS

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36845.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

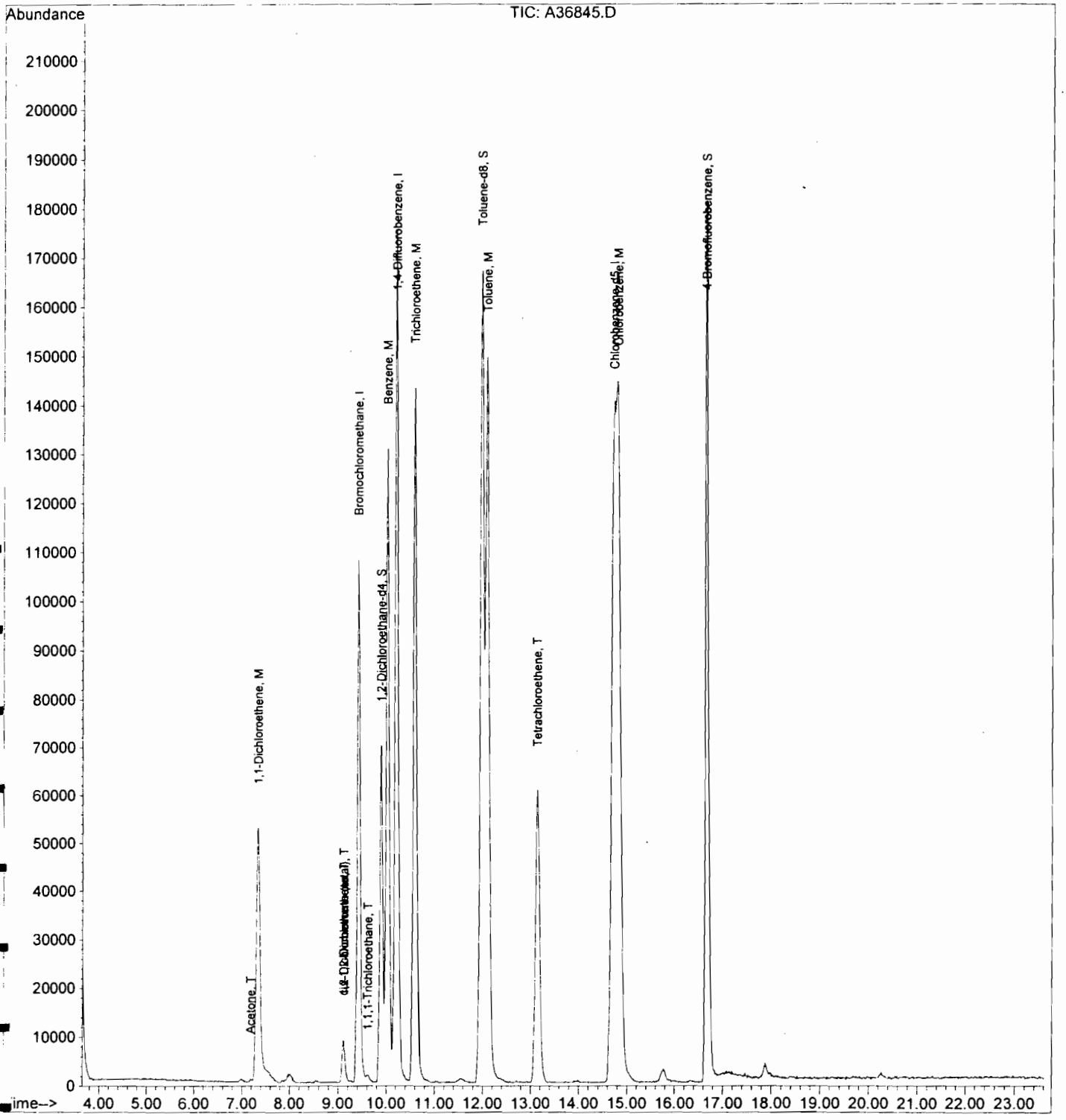
Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

Quantitation Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36845.D Vial: 13
Acq On : 19 Nov 2003 16:49 Operator: JV
Sample : 0311385-001AMS Inst : H5971
Misc : ANSON015,NC2D,H2O,MS,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 19 17:13 2003 Quant Results File: CLPW1021.RES

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 27 16:57:53 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D



ANSON015 V95

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36845.D Vial: 13
Acq On : 19 Nov 2003 16:49 Operator: JV
Sample : 0311385-001AMS Inst : H5971
Misc : ANSON015,NC2D,H2O,MS,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 19 17:13 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 27 16:57:53 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D
DataAcq Meth : CLPW1021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	9.40	128	73235	50.00	ug/l	0.01
26) 1,4-Difluorobenzene	10.20	114	369976	50.00	ug/l	0.01
41) Chlorobenzene-d5	14.72	117	328280	50.00	ug/l	0.01
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	9.89	65	99542	46.24	ug/l	0.02
Spiked Amount 50.000	Range 76 - 114		Recovery = 92.48%			
47) Toluene-d8	11.97	98	351762	50.43	ug/l	0.01
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.86%			
51) 4-Bromofluorobenzene	16.66	95	200555	49.46	ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 98.92%			
Target Compounds						Qvalue
12) Acetone	7.18	43	2198	5.89	ug/l	88
14) 1,1-Dichloroethene	7.32	96	69533	43.77	ug/l	96
20) cis-1,2-Dichloroethene	9.12	96	9221	4.24	UG/L	97
21) 1,2-Dichloroethene (total)	9.12	96	9221	4.46	ug/l	97
27) 1,1,1-Trichloroethane	9.61	97	2345	1.02	ug/l	90
34) Trichloroethene	10.59	130	143714	59.78	ug/l	98
36) Benzene	10.01	78	286113	45.69	ug/l	99
45) Tetrachloroethene	13.15	164	51299	40.10	ug/l	99
48) Toluene	12.08	91	323378	57.23	ug/l	97
49) Chlorobenzene	14.81	112	284494	57.95	ug/l	96

ANSON015 V96

(#) = qualifier out of range (m) = manual integration

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2DMSD

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-001AMSD

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36846.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	10	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	41	
75-15-0	Carbon disulfide	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	4	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	1	J
56-23-5	Carbon tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	57	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	44	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	37	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	55	
108-90-7	Chlorobenzene	55	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NC2DMSD

Lab Name: H2M LABS, INC. Contract: ____

Lab Code: 10478 Case No.: ANSON SAS No.: ____ SDG No.: ANSON015

Matrix: (soil/water) WATER Lab Sample ID: 0311385-001AMSD

Sample wt/vol: 5 (g/mL) ML Lab File ID: A\A36846.D

Level: (low/med) LOW Date Received: 11/13/03

% Moisture: not dec. Date Analyzed: 11/19/03

GC Column: R-502.2 ID: .53 (mm) Dilution Factor: 1.00

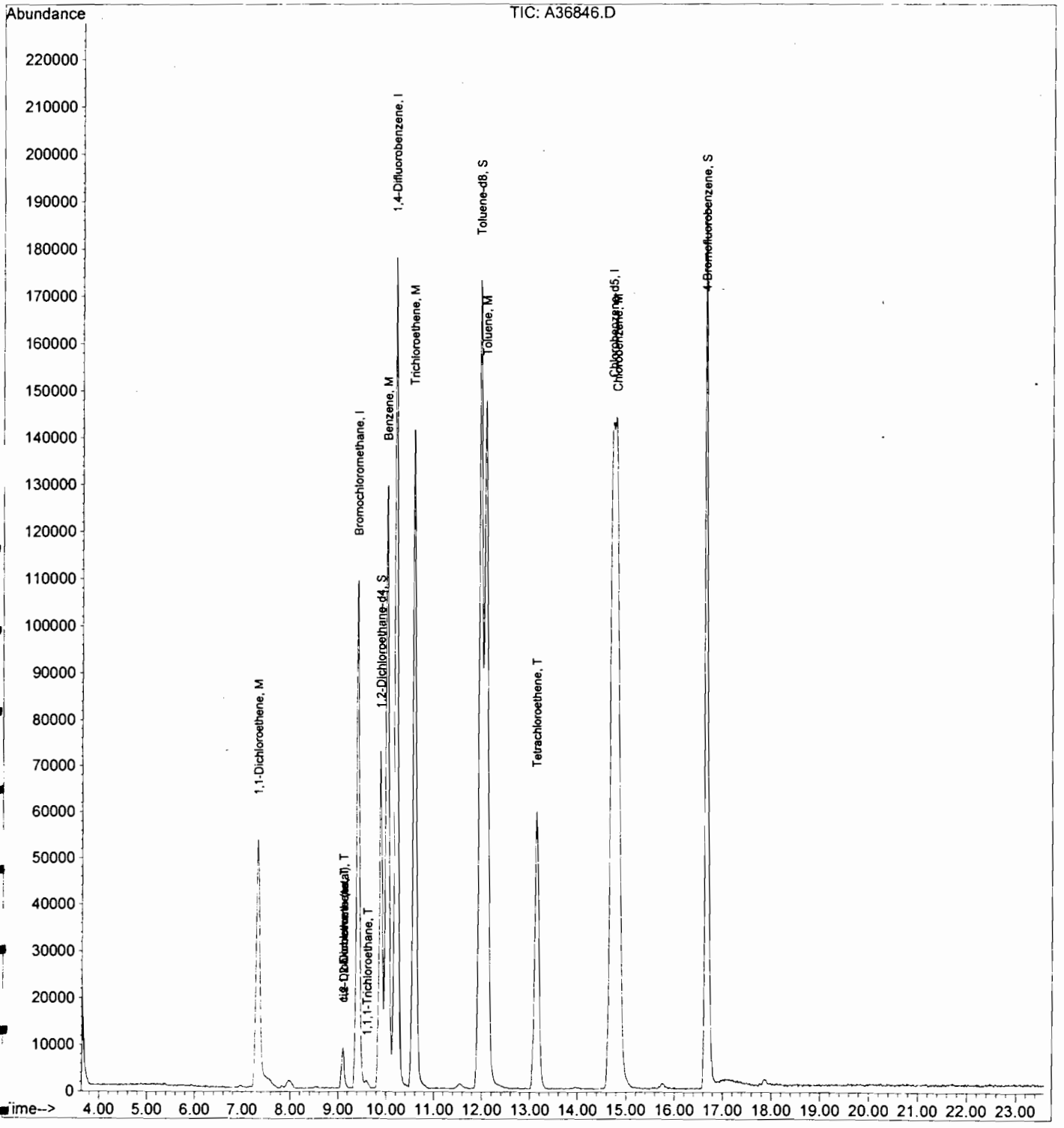
Soil Extract Volume: _____ (µL) Soil Aliquot Volume _____ (µL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (µg/L or µg/Kg) UG/L	Q
1330-20-7	Xylene (total)	10	U

Quantitation Report

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36846.D Vial: 14
Acq On : 19 Nov 2003 17:28 Operator: JV
Sample : 0311385-001AMSD Inst : H5971
Misc : ANSON015,NC2D,H2O,MS,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 20 19:37 2003 Quant Results File: CLPW1021.RES

Method : O:\MS\HP5971\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 27 16:57:53 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D



ANSON015 V99

Quantitation Report (QT Reviewed)

Data File : O:\MS\HP5971\DATA\NOV03\111903A\A36846.D Vial: 14
Acq On : 19 Nov 2003 17:28 Operator: JV
Sample : 0311385-001AMSD Inst : H5971
Misc : ANSON015,NC2D,H2O,MS,, Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 20 19:37 2003 Quant Results File: CLPW1021.RES

Quant Method : C:\HPCHEM\1\METHODS\CLPW1021.M (RTE Integrator)
Title : VOA Standards for 5 point calibration
Last Update : Mon Oct 27 16:57:53 2003
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\NOV03\111903A\A36835.D
DataAcq Meth : CLPW1021

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	9.40	128	75500	50.00	ug/l		0.01
26) 1,4-Difluorobenzene	10.20	114	381684	50.00	ug/l		0.01
41) Chlorobenzene-d5	14.71	117	339775	50.00	ug/l		0.01
System Monitoring Compounds							
24) 1,2-Dichloroethane-d4	9.87	65	104297	47.00	ug/l		0.01
Spiked Amount 50.000	Range 76 - 114		Recovery = 94.00%				
47) Toluene-d8	11.96	98	360716	49.97	ug/l		0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.94%				
51) 4-Bromofluorobenzene	16.65	95	200905	47.87	ug/l		0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 95.74%				
Target Compounds							Qvalue
14) 1,1-Dichloroethene	7.32	96	67027	40.93	ug/l		99
20) cis-1,2-Dichloroethene	9.10	96	9068	4.05	UG/L		98
21) 1,2-Dichloroethene (total)	9.10	96	9068	4.26	ug/l		98
27) 1,1,1-Trichloroethane	9.61	97	2441	1.02	ug/l	#	75
34) Trichloroethene	10.57	130	140836	56.78	ug/l		97
36) Benzene	10.01	78	283476	43.88	ug/l		99
45) Tetrachloroethene	13.14	164	49605	37.46	ug/l		96
48) Toluene	12.08	91	320849	54.86	ug/l		100
49) Chlorobenzene	14.81	112	281668	55.43	ug/l		97

ANSON015 V100

(#) = qualifier out of range (m) = manual integration

H2M LABS, INC.

COMPUTATIONS FOR VOLATILE ORGANICS
PERFORMED BY RTE DATA SYSTEM OF HP

$$CONC = \frac{Ax}{Ais \times RRF} \cdot \frac{Is}{W}$$

WHERE:

CONC = Concentration in sample (ug/L or ug/KG)

Ax = Area of characteristic ion of compound

Ais = Area of characteristic ion of internal standard

RRF = Relative response factor as area per (ng) of compound, divided by area per ng of respective internal standard

Is = Amount of internal standard injected (ng)

W = Volume of sample in (ml) or dry weight (g)

Generally the amount of each internal standard injected is 250 ng.

ANSON015 V101

V. DOCUMENTATION FOR VOLATILE ORGANICS

A. LOG BOOK PAGES
B. REPORTING ANALYST SIGNATURE PAGE

[redacted] ANALYSIS

SCAN: VOA INSTRUMENT: HS971 COLUMN: RTX502.2

	LOT #	SOLN ID
SURR.		
I.S.		
MS		
QC CHECK		
CALIBRATION		

ANALYST'S SIGNATURE	DATE	RUN #	LAB SAMPLE ID	CLIENT SAMPLE ID	INJ TIME	VOL WT	HEAT. PURG. Y/N	METHOD	TRAY POS.	QDEL	IMPORT	TEST CODE	SDG	COMMENTS
	10/21/03	A36337	50 ng BFB		1012	5ml	N							
		38	VSTD050		1105									
		39	VSTD010	* #841 8260W.TCL	1218									
		40	VSTD020	*+	1246									
		41	VSTD100	*+ #850 1311_V	1315			*CLPW1021						
		42	VSTD200	*+	1343			†LMW1021						
		43	VSTD005	+	1412									
		44	BLK		1509									
		45	BLK		1527									
		46	VBLK102103		1556									Note: Condensate
		47	0310434-004A	FB1.C	1631	8ml		CLPW1021				TOY_CONDENS	TOY086	samples were
		48	-001A	1.C	1700									processed in
		49	-002A	2.C	1728									directory 102103ab
		50	-003A	3.C	1756									in D:\ drive
		51	LFB102103		1824									
		52	0310530-005A	20188-CG- SP-5 1416	1853							8260_WTCL (Sel)	MS4021	
		53	-004A	SP-4	1921									
		54	-003A	SP-3	1950									Dilute 1:50
		55	-002A	SP-1A	2018									
		56	-001A	SP-1	2047									
		57	BLK		2115									
		58			2144									
		59			2212									

ANALYSIS

VOA INSTRUMENT: HS971 COLUMN: RTX502.2

	LOT #	SOLN ID
SURR.		
I.S.		
MS		
QC CHECK		
CALIBRATION		

ANALYST'S SIGNATURE	DATE	RUN #	LAB SAMPLE ID	CLIENT SAMPLE ID	INJ TIME	VOL WT	HEAT. PURG. Y/N	METHOD	TRAY POS.	QDEL	IMPORT	TEST CODE	SDG	COMMENTS
	11/18/03	A36820	0311299-002A	FW-2B-11-7-03	1550	5mL	N					r	BBS001	1:5000 Dil'd 1:250
		821	-003A DL	FW-2A-11-07-03 DL	1618									1:2000
		822	-004A DL	FW-3A ↓ DL	1647									1:4000
		823	-002A DL	FW-2B-11-07-03	1715									1:25000
		824	-001A	FW-1A-	1743									1:10000 Dil'd 1:2
		825	-006A	IW-4 DL	1812									1:5000
		826	-007A	IW-11 DL	1840									1:2000
		827	-008A	IW-15 DL	1908									1:2000
		828	↓ -010A	IW-29 ↓ DL	1937									1:10000
		829	0311338-002A	P-10-11-11-03 DL	2005								BBS002	1:10000 Dil'd 1:25
		830	0311393-002A	P-25-11-12-03 DL	2034									1:250
		831	↓ -001A	NRW-3-12-03 DL	2102									1:10000
		832	0311391-003A	T-B	2130									DNR.
	11/19/03	A36833	50 ug BFB		1019				✓			"		
		834	VSTD050		1046			QL						
		835	VSTD050		1121			CLPW1021/02MW1021						
		836	VBLK111903		1153				✓					
		837	LFB 111903		1221				✓					
		838	MSB		1249									RA
		839	Blank		1318									DNR
		840	0311383-001A	S-111203-SD-008	1346				✓			131LV	CRAH21	
		841	MSB 111903		1457									
		842	VTCLPBHK111		1579									

COLUMN: RTX502.2

		SOLN ID
SURR		
I.S.		
MS		
QC CHECK		
CALIBRATION		

ANALYST'S SIGNATURE	DATE	RUN #	LAB SAMPLE ID	CLIENT SAMPLE ID	INJ TIME	VOL WT	HEAT. PURG. Y/N	METHOD	TRAY POS.	QDEL	IMPORT	TEST CODE	SDG	COMMENTS
	11/19/03	A368H3	0311383-002A	S-11/20/03-SD-033	1547	5mL	N					13 II V	CRA421	
		44	↓ -002AMS	SD-033MS	1646									
		45	0311385-001AMS	NC2D MS	1649					✓	✓	ASPBS_8260_W	ANSON015	
		46	-001AMSD	NC2D MSD	1728					✓	✓			
		47	-0083A	TRIPBLANK	1756					✓	✓			
		48	-001A	NC2D	1824					✓	✓			
		49	↓ -002A	NCP2	1853					✓	✓			
		50	0311299-001A	EN-1A-11-07-03	1921								BBS001	1:20000
		51	0311338-002A	P-10-11-11-03	1950								BBS002	1:25000
		52	0311299-011A	TB-31-11-03	2018								BBS 001	
		53	0311338-003A	TB-32-11-03	2046								BBS 002	
		54	0311391-001A	ER-09-11-12-03	2115								↑ 001	
		55	0311393-006A	TB-33-11-03	2143								↓ 002	
		56	0311H38-011A	TB 35-11-03	2212							"	002	
		57	~~RINSA~~ -010	RINSATE 11-14-03	2240									out of Type KA

H2M LABS, INC.

SDG # ANSON015
SCAN: VOA

This data package was reported by the undersigned. This reporting includes data calculations, manual edits, if necessary, and compilation of raw data. The information presented is true and correct to the best of my knowledge.

Signature: BBlayden

Date: 11/20/2003