SFUND RECORDS CTR
2033355

Continental Heat Treating 5194

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 31519 SDG No. Y05H9 SDG Nos. To Follow _____ Date Recvd 4 / 8 / 2003

EPA Lab ID: MITCEM

Lab Location: RI

Region: IX Audit No.: 3/03-8

Re-Submitted CSF? Yes ___ No ✓

Box No(s): _____

COMMENTS:

Over for additional comments.

ITEMS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	✓		
2. Intact upon receipt?	✓		
FORM DC-2			
3. Numbering scheme accurate?	✓		
4. Are enclosed documents listed?	✓		
5. Are listed documents enclosed?	✓		
FORM DC-1			
6. Present?	✓		
7. Complete?	✓		
8. Accurate?	✓		
CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	✓		
10. Dated?	✓		
TRAFFIC REPORT(s) PACKING LIST(s)			
11. Signed?	✓		
12. Dated?	✓		
AIRBILLS/AIRBILL STICKER			
13. Present?	✓		
14. Signed?	✓		
15. Dated?	✓		
SAMPLE TAGS			
16. Does DC-1 list tags as being included?		✓	
17. Present?			✓
ALL DOCUMENTS			
18. Activities identified?	✓		
19. Legible?	✓		
20. Original?		✓	
20a. If "NO," does the copy indicate where original documents are located?	✓		

Received by: Beth Brenton, DCC Date 4/8/2003

Audited by: _____ (Signature) SANTIAGO LEE / Data Reviewer (Printed Name/Title) Date 4/21/03

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: ___/___/___ Date Entered: ___/___/___ Date Reviewed: ___/___/___

Entered by: _____

Reviewed by: _____ (Signature) _____ (Printed Name/Title)

2033355

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
Phone: (401)-732-3400 Fax: (401)-732-3499
http:\\www.mitkem.com

FACSIMILE COVER SHEET

TO: Mr. Santiago Lee **FROM:** Agnes Ng

COMPANY: ICF Consulting **DATE:** May 27, 2003

FAX NUMBER: 510-412-2304 **NUMBER OF PAGES:** 4
(Including cover sheet)

REFERENCE: Case 31519 SDG YOSHG and Case 31520 SDG YOSK8

COMMENTS: Revised logbook page and spiking standards spreadsheet. Hard copy to follow in the mail. Please call with any question. Agnes Ng

This message is intended only for the use of the individual to whom it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone.

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

May 27, 2003

ICF Consulting/Laboratory Data Consultants
Environmental Services Assistance Team
Region IX
1337 S. 46th Street
Building201
Richmond, CA 94804
Attn: Mr. Santiago Lee

RE: Case 31519 SDG Y0SH9 and Case 31520 SDG Y0SK8

Dear Mr. Lee:

1. Sodium bisulfate was added to the samples prior to analysis. The date in the extraction logbook is incorrect. The date of extraction was March 25, 2003.

2. The preparation date, expiration date, lot number, concentration, source and spike volumes are presented in the attached table.

If you have any questions, please call me at 401-732-3400.

Sincerely,

Agnes R. Ng
CLP Project Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

MITKEM CORPORATION: Volatile Organics Low/Medium Level Soil Extraction Log

Date	Lab ID	Analysis	Wt. Soil Extracted (g)	Extraction Volume (mL)	Extraction Solution Methanol/$NaHSO_4$	Methanol Lot. # / $NaHSO_4$ ID	Comments	Analyst
3/25/03								
am ~~3/26/03~~	B0429-01	8260	5.0	5mL	NaHSO4	VW030306A		TRA
5/27/03	B0447-01		6.2					
	-01MS		6.4					
	-01MSD		6.5					
	-02		4.7					
	B0447-03		4.4					
	B0443-01		5.0 ✓					
	-02		5.0 ✓					
	-03		5.7 ✓					
	-03MS		5.9 ✓					
	-03MSD		5.0 ✓					
	-04		5.5 ✓					
	B0443-05		5.7					
	B0460-01		6.6					
	-02		5.1					
	-03		5.0					
	-04		5.8					
	-07		5.0					
am ~~3/26/03~~ 5/27/03 3/25/03	B0460-08	8260	5.1	5mL	NaHSO4	VW030306A		TRA

Logbook ID: 90.0189-1/02 Reviewed By: RW 3/31/03 Logbook page: 000072

Standard	Prepared	Conc.	Source	Lot #	Exp. Date	Spiking Vol.
Gas Mix	3/10/2003	100 ug/ml	Restek	A023102	12/2008	
Ketone Mix	3/10/2003	100 ug/ml	Restek	A023117	8/2005	
Cal 2000 Mix	3/10/2003	100 ug/ml	Restek	A022897	8/2003	
LCS/MS	2/4/2003	20 ug/ml	Restek	A017891	7/2004	12.5 ul
nternal Standar	12/5/2002	100 ug/ml	Restek	A018019	3/2005	2.5 ul
Surrogates	2/4/2003	100 ug/ml	Restek	A023202	10/2006	2.5 ul

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Mitkem Corporation
CITY/STATE Warwick, RI

CASE NO. 31519 SDG NO. Y0SH9 SDG NOS. TO FOLLOW
SAS NO.

CONTRACT NO. 68-W-99-076
SOW NO. OLM04.2

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. **Inventory Sheet** (Form DC-2) (Do not Number)				
2. **SDG Case Narrative**	1	2	✓	✓
3. **SDG Cover Sheet/Traffic Report**	3	4	✓	✓
4. **Volatiles Data**				
a. QC Summary				
System Monitoring Compound Summary (Form II	5	5	✓	✓
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	6	6	✓	✓
Method Blank Summary (Form IV VOA)	7	7	✓	✓
GC/MS Instrument Performance Check (Form V VOA)	8	9	✓	✓
Internal Standard Area and RT Summary (Form VIII VOA)	10	10	✓	✓
b. Sample Data	11	38		
TCL Results - (Form I VOA-1, VOA-2)			✓	✓
Tentatively Identified Compounds (Form I VOA-			✓	✓
Reconstructed total ion chromatograms (RIC) for each sample			✓	✓
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	✓
Quantitation reports			✓	✓
Mass Spectra of all reported TICs with three best library matches			✓	✓
c. Standards Data (All Instruments)	39	60		
Initial Calibration Data (Form VI VOA-1, VOA-2)			✓	✓
RICs and Quan Reports for all Standards			✓	✓
Continuing Calibration Data (Form VII VOA-1, VOA-2)			✓	✓
RICs and Quantitation Reports for all Standards			✓	✓
d. Raw QC Data			✓	✓
BFB	61	66	✓	✓
Blank Data	67	78	✓	✓
Martix Spike/Matrix Spike Duplicate Data	79	86	✓	✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 31519 SDG NO. YOSH9 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	N/A	N/A	NA	
MS/MSD Summary (Form III SV)				
Method Blank Summary (Form IV SV)				
GC/MS Instrument Performance Check (Form V SV)				
Internal Standard Area and RT Summary (Form VIII SV)				
b. Sample Data				
TCL Results - (Form I SV-1, SV-2)				
Tentatively Identified Compounds (Form I SV-				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds				
Quantitation reports				
Mass Spectra of TICs with three best library matches				
GPC chromatograms (if GPC is required)				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI SV-1, SV-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII SV-1, SV-				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
DFTPP				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
e. Raw GPC Data				
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	N/A	N/A		
MS/MSD Duplicate Summary (Form III PEST)				
Method Blank Summary (Form IV PEST)				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 31519 SDG NO. Y0SH9 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
b. Sample Data	N/A	N/A		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			NA	
Chromatograms (Primary Column)				
Chromatograms from second GC column				
GC Integration report or data system printout				
Manual work sheets				
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				
c. Standards Data				
Initial Calibration of Single Component (Form VI PEST-1 and PEST-2)				
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)				
Analyte Resolution Summary (Form VI PEST-4)				
Performance Evaluation Mixture (Form VI PEST-5)				
Individual Standard Mixture A (FORM VI PEST-6)				
Individual Standard Mixture B (FORM VI PEST-7)				
Calibration Verification Summary (Form VII PEST-1)				
Calibration Verification Summary (Form VII PEST-2)				
Analytical Sequence (Form VIII PEST)				
Florisil Cartridge Check (Form IX PEST-1)				
Pesticide GPC Calibration (Form IX PEST-2)				
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights				
d. Raw QC Data				
Blank Data				
Matrix Spke/Matrix Spike Duplicate Data				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 31519 SDG NO. YOSH9 SDG NOS. TO FOLLOW _____

SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
e. Raw GPC Data	N/A	N/A	NA	
f. Raw Florisil Data				
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages	87	90	✓	✓
Internal sample and sample extract transfer chain-of-custody records	91	91	✓	✓
Screening records	N/A	N/A	NA	
All instrument output, including strip charts from screening activities (describe or list)				
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments 1)	92	92	✓	✓
Chain-of-Custody Records	93	94	✓	✓
Sample Tags			NA	
Sample Log-in Sheet (Lab & DC1)	95	96	✓	✓
Miscellaneous Shipping/Receiving Records (describe or list)	N/A	N/A	NA	
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)	N/A	N/A		
10. **Other Records** (describe or list)				
Telephone Communication Log	N/A	N/A		
E-MAIL	97	116	✓	✓
	N/A	N/A	NA	

11. **Comments:** _____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 31519 SDG NO. YO SH9 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: (CLP Lab)	(Signature)	Jay Boudreau/Assistant Contract Officer (Printed Name/Title)	4/4/03 (Date)
Verified by: (CLP Lab)	(Signature)	Agnes Na/ CLP Project Manager (Printed Name/Title)	4/4/03 (Date)
Audited by: (EPA)	(Signature)	SANTIAGO LEE Data Reviewer (Printed Name/Title)	4/21/03 (Date)

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

April 4, 2003

Computer Sciences Corporation
2000 Edmund Halley Drive
Reston, VA 20191-3436

RE: EPA Case # 31519
SDG# Y0SH9
Mitkem Lab Project # B0447

To Document Control Officer:

Enclosed is the data report for the samples associated with the above referenced project. The analyses were performed under USEPA Contract # 68-W-99-076.

Please call if you have any questions regarding the submittal.

Sincerely,

Agnes R. Ng
CLP Project Manager

cc Region IX

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to USEPA Case # 31519 SDG# Y0SH9. Analyses were performed for three soil samples that were received on March 19, 2003. The analyses were performed under USEPA Contract # 68-W-99-076. Please note that the cooler received was measured at 2°C.

Sample Y0SH9 was designated on the COC/TR as the sample for laboratory QC. Only three Encore samplers were received for this sample. There is insufficient sample volume for matrix spike and matrix spike duplicate analysis. Per the Region, if the sample requires re-analysis, do not analysis for matrix spike and matrix spike duplicate. If the sample does not require re-analysis, analyze the matrix spike and matrix spike duplicate.

The following samples are submitted in this data package:

Client ID	Lab ID	Analysis
Y0SH9	B0447-01B	V
Y0SH9MS	B0447-01BMS	V
Y0SH9MSD	B0447-01BMSD	V
Y0SJ0	B0447-02B	V
Y0SJ1	B0447-03B	V

V = Volatiles

The analyses were performed using USEPA CLP Multi-Media, Multi-Concentration (OLM04.2) protocols. The analyses were performed with strict adherence to the SOW with the following exceptions and observations:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.

- M5 miscellaneous – under this category, the justification is explained.

2. Volatile Analysis:

Trap used for instrument V5: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

Soil samples for volatile were received as Encore samples. The low-level analysis for volatile was performed by modified SW846 Method 5035.

Surrogate recoveries were within the QC limits.

Matrix spike and matrix spike duplicate were performed on sample Y0SH9. Spike recoveries and replicate RPDs were within the advisory QC limits.

No unusual observation was made for the analysis.

All of the submittals to the region are originals other than logbook pages. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. Tunes, calibration verifications and initial calibrations that are shared among several cases are photocopies indicating the location of the originals.

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 and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
04/04/03

Contract Laboratory Program

Sample Delivery Group (SDG) Traffic Report (TR) Cover Sheet

SDG Number Y0SH9

Laboratory Name Mitkem Corporation

Laboratory Code MITKEM

Contract No. 68-W-99-076

Case No. 31519

Analysis Price $536.00

SDG Turnaround 21 days

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) Y0SH9	7)	13)	19)
2) Y0SH9MS	8)	14)	20)
3) Y0SH9MSD	9)	15)	21)
4) Y0SJ0	10)	16)	22)
5) Y0SJ1	11)	17)	23)
6)	12)	18)	24)

Y0SH9

First Sample in SDG

Y0SJ1

Last Sample in SDG

3/19/03

First Sample Receipt Date

3/19/03

Last Sample Receipt Date

Note: There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature [signature]

Date 3/21/03

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	31519
DAS No:	
SDG No:	Y0SH9

L

Date Shipped:	3/18/2003
Carrier Name:	FedEx
Airbill:	835859426435
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	3/18/03 1700	Federal Express	3/18/03 1700
2			
3			
4		[signature]	3-19-03 0900

For Lab Use Only

Lab Contract No:	68-W-99-076
Unit Price:	$ 536
Transfer To:	—
Lab Contract No:	—
Unit Price:	—

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
-1 Y0SH9	Soil (>12")/ Amanda Cohan	L/G	VOA (21)	(Ice Only) (3)	CHT-1-S5	S: 3/18/2003 1415	MY0SH9	OK
-2 Y0SJ0	Soil (>12")/ Amanda Cohan	L	VOA (21)	(Ice Only) (3)	CHT-1-S15	S: 3/18/2003 1430	MY0SJ0	OK
-3 Y0SJ1	Soil (>12")/ Amanda Cohan	L	VOA (21)	(Ice Only) (3)	CHT-2-S15	S: 3/18/2003 1435	MY0SJ1	OK

SDG - Final Sample

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: Y0SH9	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓
VOA = CLP TCL Volatiles				

TR Number: 9-233994445-031803-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK5W	104	94	107		0
02	Y0SH9	96	93	108		0
03	Y0SH9MS	104	99	113		0
04	Y0SH9MSD	103	98	113		0
05	Y0SJ0	106	98	117		0
06	Y0SJ1	104	100	116		0
07	VHBLK5W	104	99	119		0
08						
09						
10						
11						
12						
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29						
30						

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix Spike - EPA Sample No.: Y0SH9 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	43	0.0	33	77	59-172
Trichloroethene	43	0.0	50	116	62-137
Benzene	43	0.0	44	102	66-142
Toluene	43	0.0	45	105	59-139
Chlorobenzene	43	0.0	45	105	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	42	33	79	3	22	59-172
Trichloroethene	42	52	124	7	24	62-137
Benzene	42	43	102	0	21	66-142
Toluene	42	45	107	2	21	59-139
Chlorobenzene	42	45	107	2	21	60-133

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: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Lab File ID: V5E5112 Lab Sample ID: V5B0325C

Date Analyzed: 03/25/03 Time Analyzed: 1952

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: V5

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	Y0SH9	B0447-01A	V5E5118	2248
02	Y0SH9MS	B0447-01AMS	V5E5121	0015
03	Y0SH9MSD	B0447-01AMSD	V5E5122	0044
04	Y0SJ0	B0447-02A	V5E5126	0241
05	Y0SJ1	B0447-03A	V5E5127	0310
06	VHBLK5W	V5B0325D	V5E5128	0339
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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30				

COMMENTS: _____

FORM IV VOA

OLM04.2

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Lab File ID: V5E3390 BFB Injection Date: 01/28/03

Instrument ID: V5 BFB Injection Time: 1037

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.7
75	30.0 - 66.0% of mass 95	47.0
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	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	79.0
175	4.0 - 9.0% of mass 174	5.3 (6.8)1
176	93.0 - 101.0% of mass 174	77.0 (97.4)1
177	5.0 - 9.0% of mass 176	5.0 (6.5)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	VSTD0505X	V5S0128A	V5E3391	01/28/03	1054
02	VSTD0105X	V5S0128B	V5E3392	01/28/03	1129
03	VSTD2005X	V5S0128C	V5E3393	01/28/03	1204
04	VSTD1005X	V5S0128D	V5E3394	01/28/03	1233
05	VSTD0205X	V5S0128E	V5E3395	01/28/03	1302
06					
07					
08					
09					
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12					
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15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Lab File ID: V5E5110 BFB Injection Date: 03/25/03

Instrument ID: V5 BFB Injection Time: 1906

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	12.9
75	30.0 - 66.0% of mass 95	36.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	89.4
175	4.0 - 9.0% of mass 174	6.3 (7.0)1
176	93.0 - 101.0% of mass 174	87.0 (97.4)1
177	5.0 - 9.0% of mass 176	5.7 (6.5)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	VSTD0505W	V5S0325B	V5E5111	03/25/03	1918
02	VBLK5W	V5B0325C	V5E5112	03/25/03	1952
03	Y0SH9	B0447-01A	V5E5118	03/25/03	2248
04	Y0SH9MS	B0447-01AMS	V5E5121	03/26/03	0015
05	Y0SH9MSD	B0447-01AMSD	V5E5122	03/26/03	0044
06	Y0SJ0	B0447-02A	V5E5126	03/26/03	0241
07	Y0SJ1	B0447-03A	V5E5127	03/26/03	0310
08	VHBLK5W	V5B0325D	V5E5128	03/26/03	0339
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

EPA Sample No. (VSTD050##): VSTD0505W Date Analyzed: 03/25/03

Lab File ID (Standard): V5E5111 Time Analyzed: 1918

Instrument ID: V5 Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.25 (mm)

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	190184	5.36	1098055	6.35	971511	9.48
	UPPER LIMIT	380368	5.86	2196110	6.85	1943022	9.98
	LOWER LIMIT	95092	4.86	549028	5.85	485756	8.98
	EPA SAMPLE						
01	VBLK5W	214605	5.35	1300717	6.36	1113457	9.47
02	Y0SH9	189626	5.35	1062764	6.35	938369	9.48
03	Y0SH9MS	184514	5.35	1045205	6.36	905896	9.48
04	Y0SH9MSD	179535	5.35	1016134	6.36	888779	9.47
05	Y0SJ0	236099	5.35	1309228	6.36	1163721	9.47
06	Y0SJ1	240805	5.35	1313466	6.35	1180011	9.48
07	VHBLK5W	201256	5.34	1162070	6.35	1051503	9.47
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = 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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SH9

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-01A

Sample wt/vol: 6.2 (g/mL) G Lab File ID: V5E5118

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 9 Date Analyzed: 03/25/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	9	U
74-87-3	Chloromethane	9	U
75-01-4	Vinyl Chloride	9	U
74-83-9	Bromomethane	9	U
75-00-3	Chloroethane	9	U
75-69-4	Trichlorofluoromethane	9	U
75-35-4	1,1-Dichloroethene	9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9	U
67-64-1	Acetone	17	
75-15-0	Carbon Disulfide	9	U
79-20-9	Methyl Acetate	9	U
75-09-2	Methylene Chloride	8	J
156-60-5	trans-1,2-Dichloroethene	9	U
1634-04-4	Methyl tert-Butyl Ether	9	U
75-34-3	1,1-Dichloroethane	9	U
156-59-2	cis-1,2-Dichloroethene	9	U
78-93-3	2-Butanone	9	U
67-66-3	Chloroform	9	U
71-55-6	1,1,1-Trichloroethane	9	U
110-82-7	Cyclohexane	9	U
56-23-5	Carbon Tetrachloride	9	U
71-43-2	Benzene	9	U
107-06-2	1,2-Dichloroethane	9	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SH9

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-01A

Sample wt/vol: 6.2 (g/mL) G Lab File ID: V5E5118

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 9 Date Analyzed: 03/25/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
79-01-6	Trichloroethene	9	U
108-87-2	Methylcyclohexane	9	U
78-87-5	1,2-Dichloropropane	9	U
75-27-4	Bromodichloromethane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
108-10-1	4-Methyl-2-Pentanone	2	J
108-88-3	Toluene	9	U
10061-02-6	trans-1,3-Dichloropropene	9	U
79-00-5	1,1,2-Trichloroethane	9	U
127-18-4	Tetrachloroethene	8	J
591-78-6	2-Hexanone	9	U
124-48-1	Dibromochloromethane	9	U
106-93-4	1,2-Dibromoethane	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
1330-20-7	Xylene (Total)	9	U
100-42-5	Styrene	9	U
75-25-2	Bromoform	9	U
98-82-8	Isopropylbenzene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
95-50-1	1,2-Dichlorobenzene	9	U
96-12-8	1,2-Dibromo-3-chloropropane	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y0SH9

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-01A

Sample wt/vol: 6.2 (g/mL) G Lab File ID: V5E5118

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 9 Date Analyzed: 03/25/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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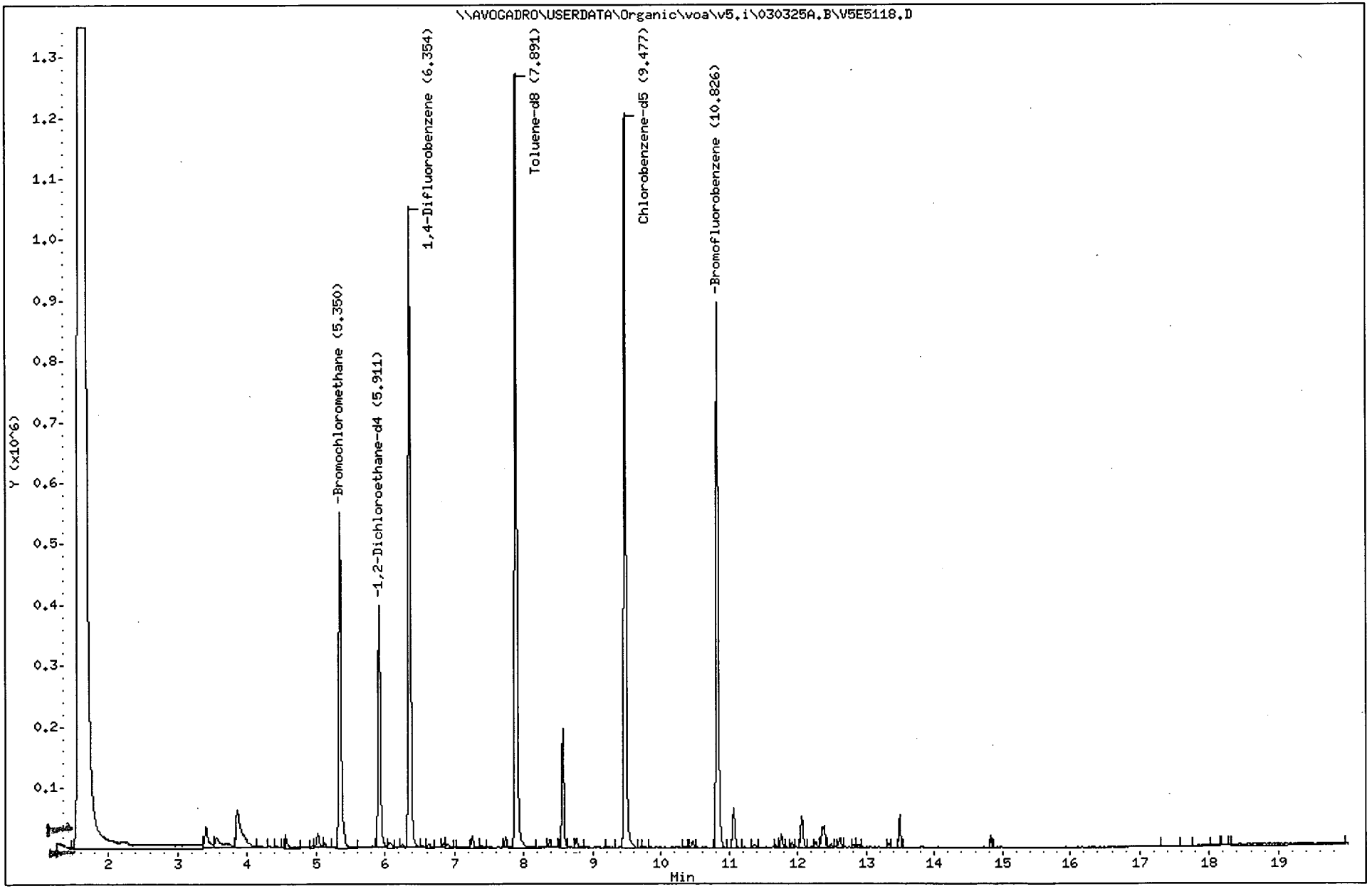
28.				
29.				
30.				

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5118.D
Date : 25-MAR-2003 22:48
Client ID: YOSH9
Sample Info: EPA,B0447-01A,YOSH9,V5B0325C,,YOSH9

Instrument: v5.i

Operator: TRA
Column phase: DB-624
Column diameter: 0.25



Data File: V5E5118.D
Report Date: 03-Apr-2003 10:46

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5118.D
Lab Smp Id: B0447-01A Client Smp ID: Y0SH9
Inj Date : 25-MAR-2003 22:48
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0447-01A,Y0SH9,V5B0325C,,Y0SH9
Misc Info : 19-MAR-03,,,,,,,6.2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	6.200	Weight of sample (g)
M	9.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
9 Acetone	43	3.410	3.419	(0.637)	59859	18.8691	17
12 Methylene Chloride	84	3.853	3.872	(0.720)	88750	8.62459	8(a)
* 18 Bromochloromethane	128	5.350	5.359	(1.000)	189626	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.911	5.921	(1.105)	305704	53.9936	48
* 26 1,4-Difluorobenzene	114	6.354	6.354	(1.000)	1062764	50.0000	
32 4-Methyl-2-Pentanone	43	7.743	7.743	(0.817)	17003	2.55132	2(aH)
$ 33 Toluene-d8	98	7.891	7.891	(0.833)	1129583	47.8695	42
37 Tetrachloroethene	164	8.561	8.561	(0.903)	55017	9.17294	8(a)
* 42 Chlorobenzene-d5	117	9.477	9.477	(1.000)	938369	50.0000	
$ 50 Bromofluorobenzene	95	10.826	10.826	(1.142)	435571	46.2995	41

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

SB 4/3/03

KU

Data File: V5E5118.D
Report Date: 03-Apr-2003 10:46

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5118.D
Lab Smp Id: B0447-01A Client Smp ID: Y0SH9
Inj Date : 25-MAR-2003 22:48
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0447-01A,Y0SH9,V5B0325C,,Y0SH9
Misc Info : 19-MAR-03,,,,,,,6.2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5118.D

Date : 25-MAR-2003 22:48

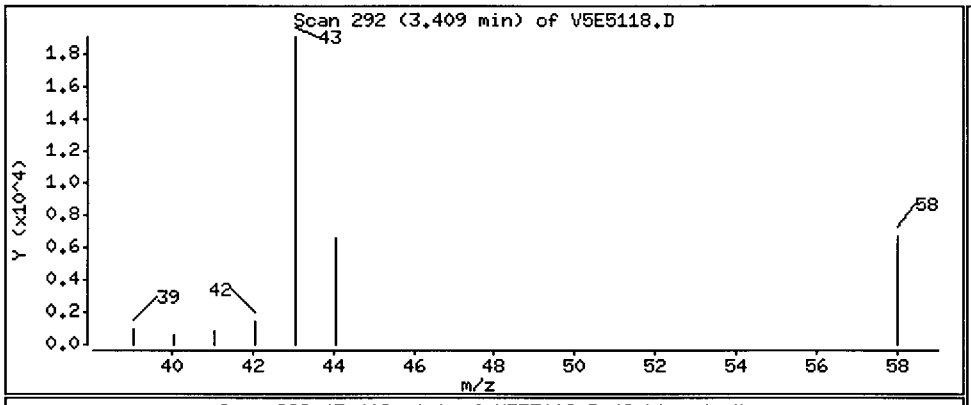
Client ID: YOSH9 | Instrument: v5.i

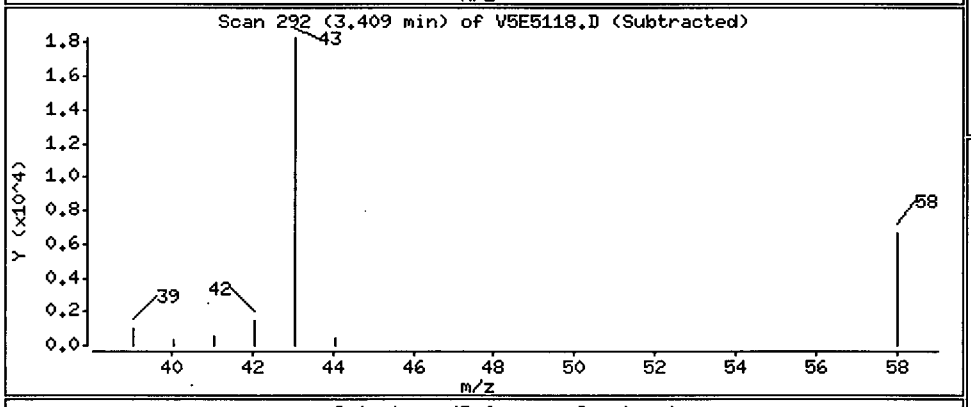
Sample Info: EPA,B0447-01A,YOSH9,V5B0325C,,YOSH9

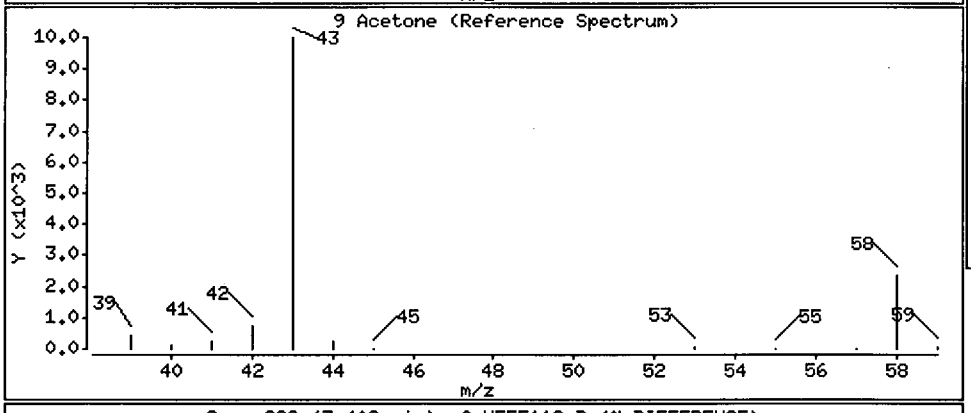
Operator: TRA

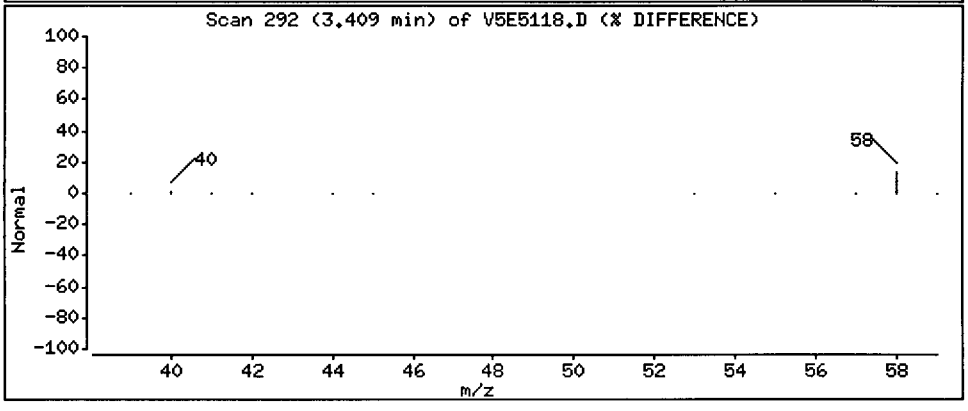
Column phase: DB-624 | Column diameter: 0.25

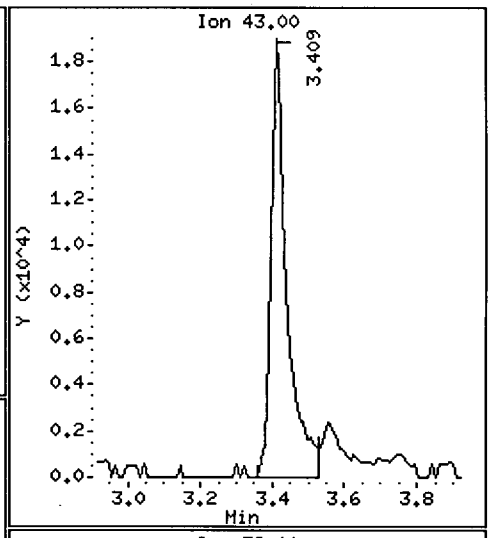
9 Acetone | Concentration: 17 ug/Kg

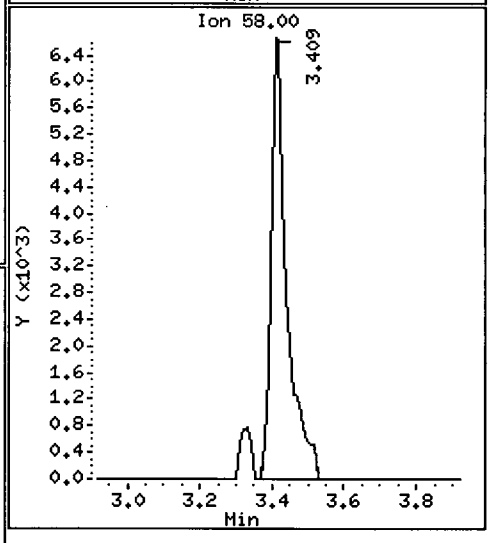












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5118.D

Date : 25-MAR-2003 22:48

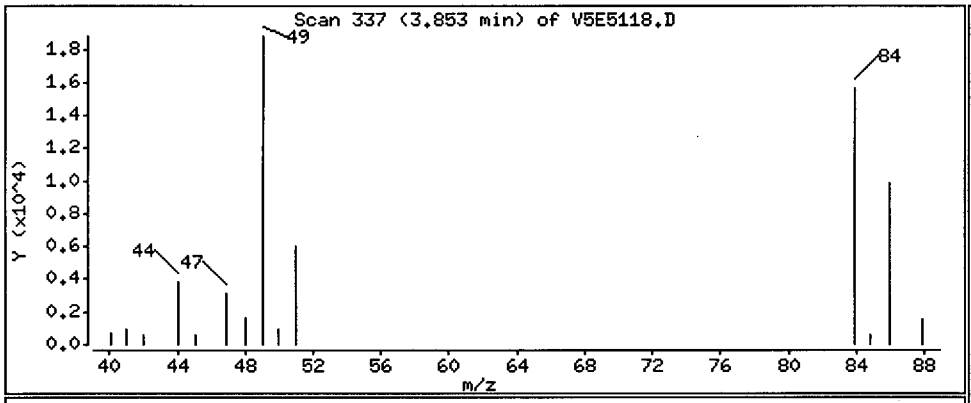
Client ID: YOSH9 Instrument: v5.i

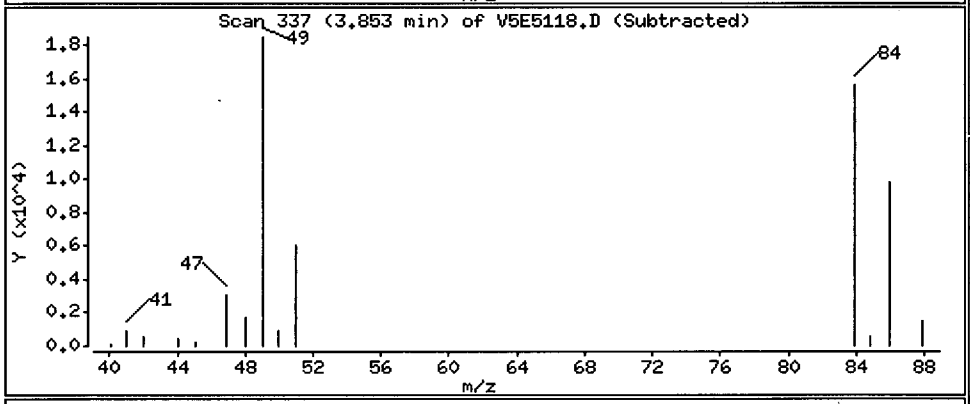
Sample Info: EPA,B0447-01A,YOSH9,V5B0325C,,YOSH9

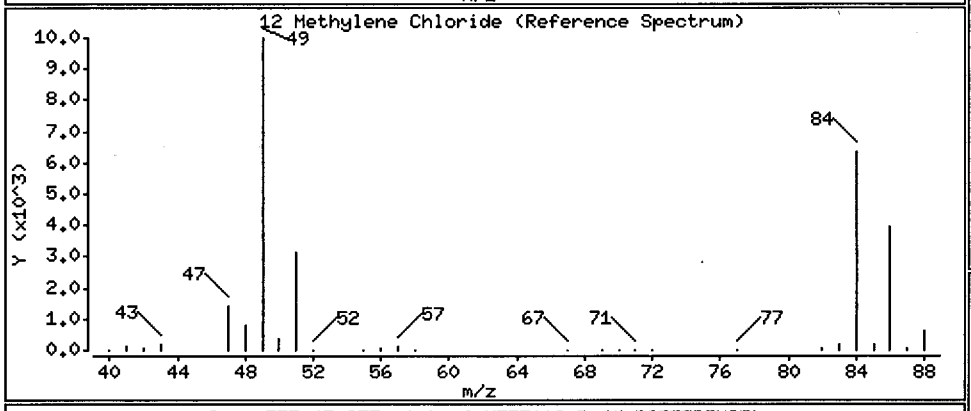
Operator: TRA

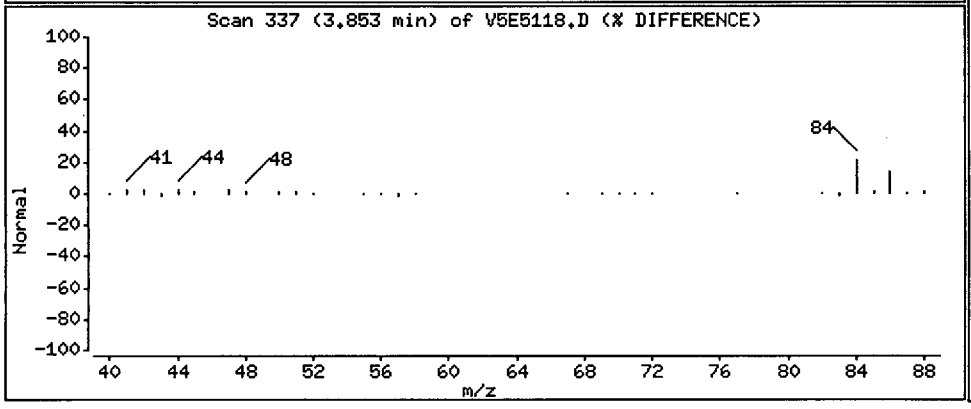
Column phase: DB-624 Column diameter: 0.25

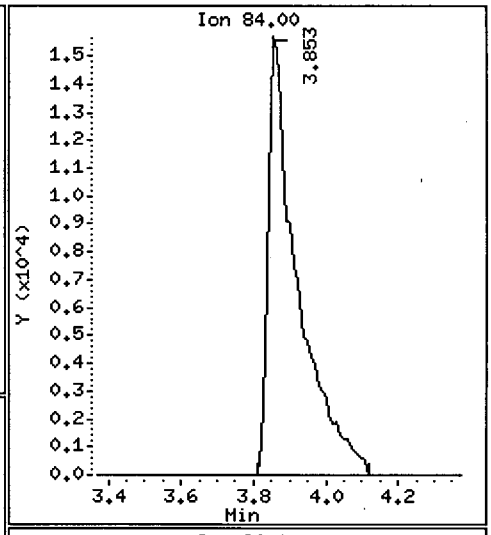
12 Methylene Chloride Concentration: 8 ug/Kg

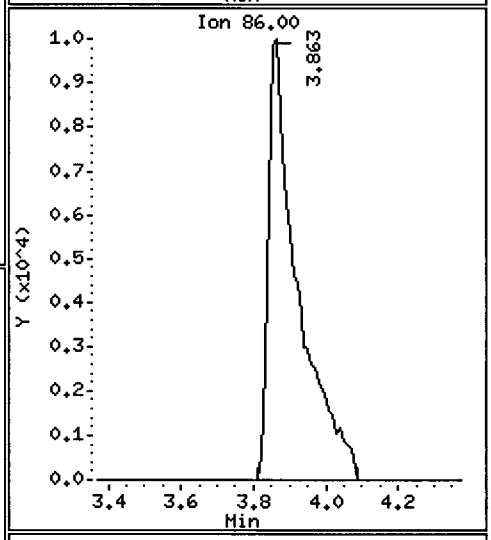


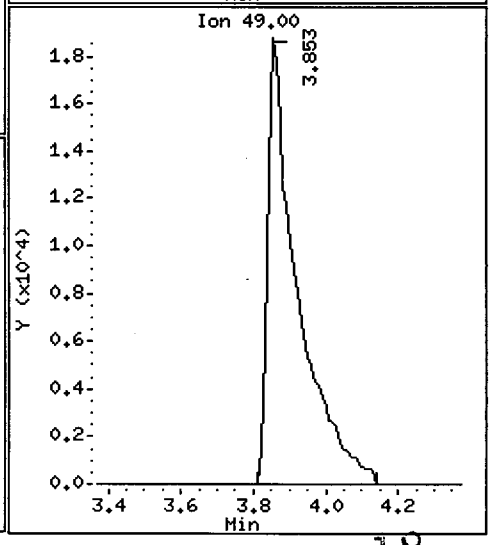












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5118.D

Date : 25-MAR-2003 22:48

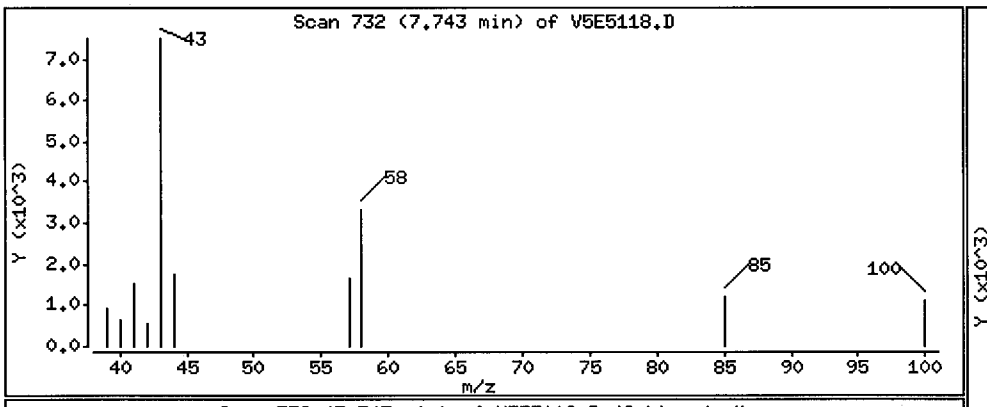
Client ID: YOSH9 Instrument: v5.i

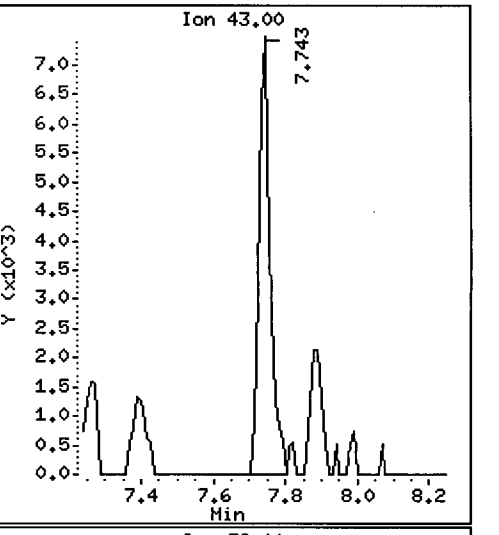
Sample Info: EPA,B0447-01A,YOSH9,V5B0325C,,YOSH9

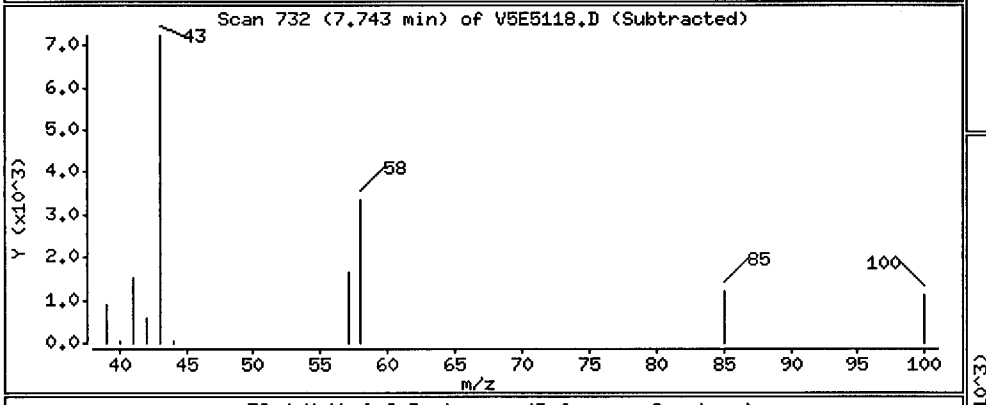
Operator: TRA

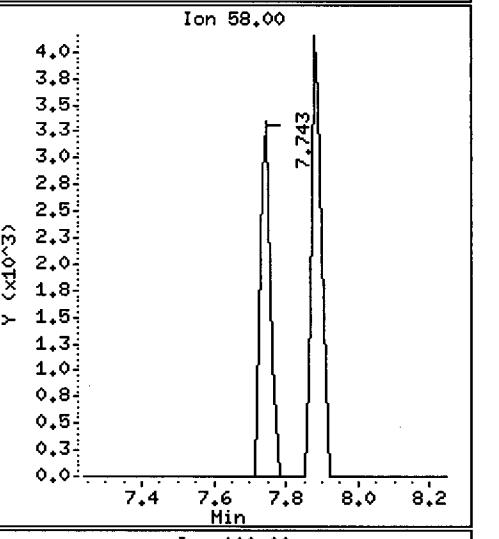
Column phase: DB-624 Column diameter: 0.25

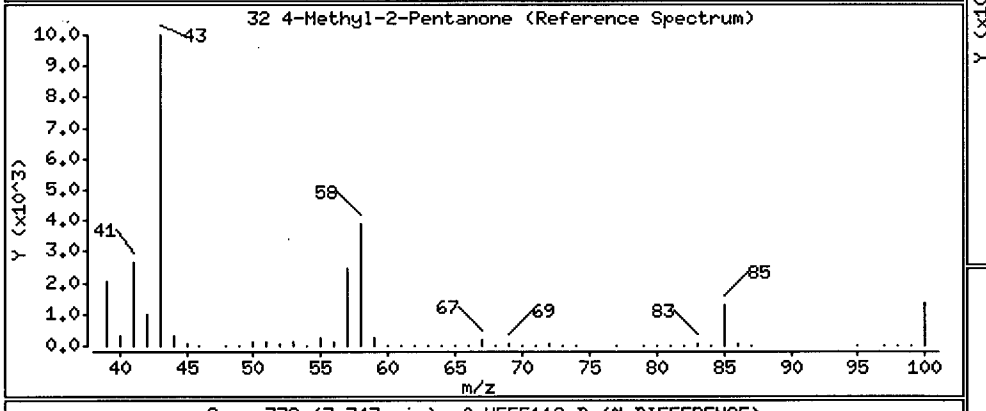
32 4-Methyl-2-Pentanone Concentration: 2 ug/Kg

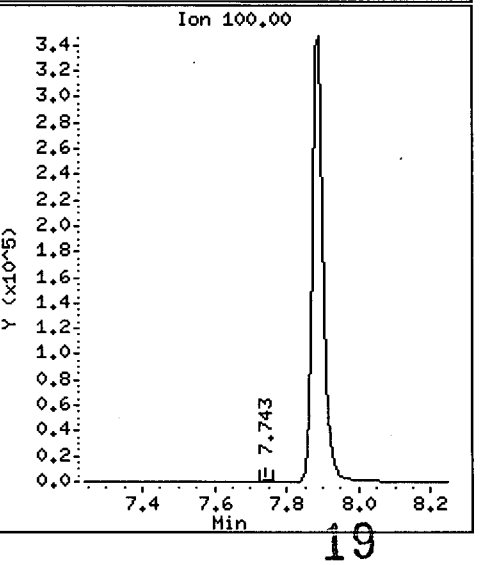


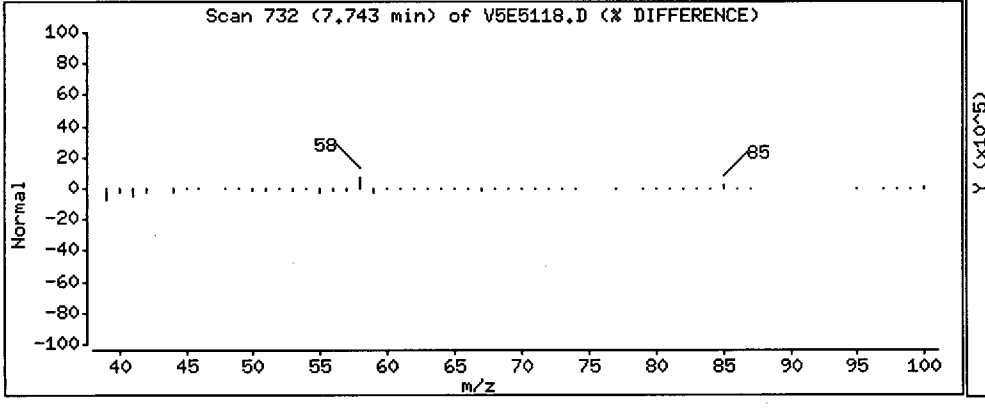












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5118.D

Date : 25-MAR-2003 22:48

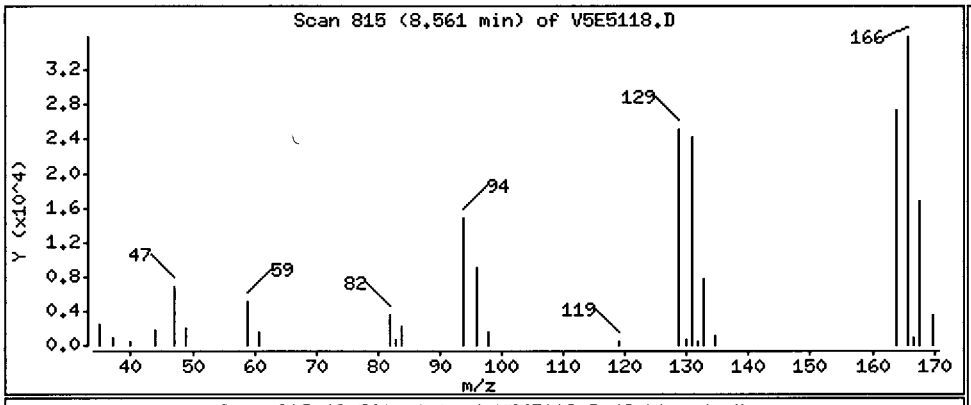
Client ID: YOSH9 Instrument: v5.i

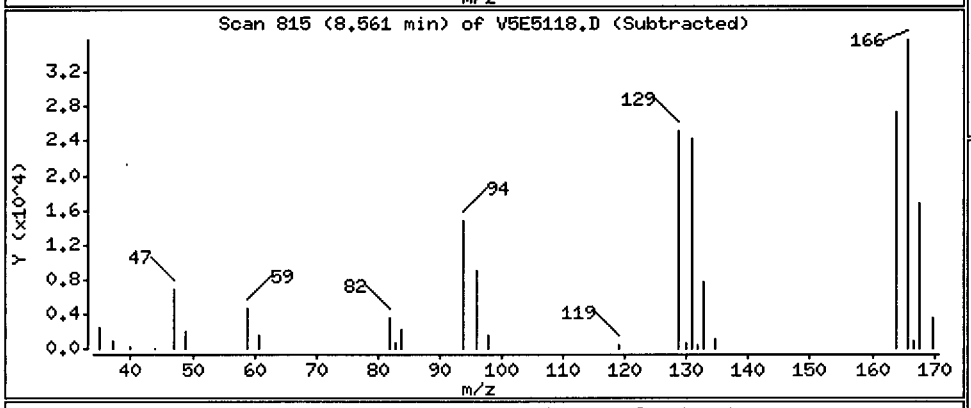
Sample Info: EPA,B0447-01A,YOSH9,V5B0325C,,YOSH9

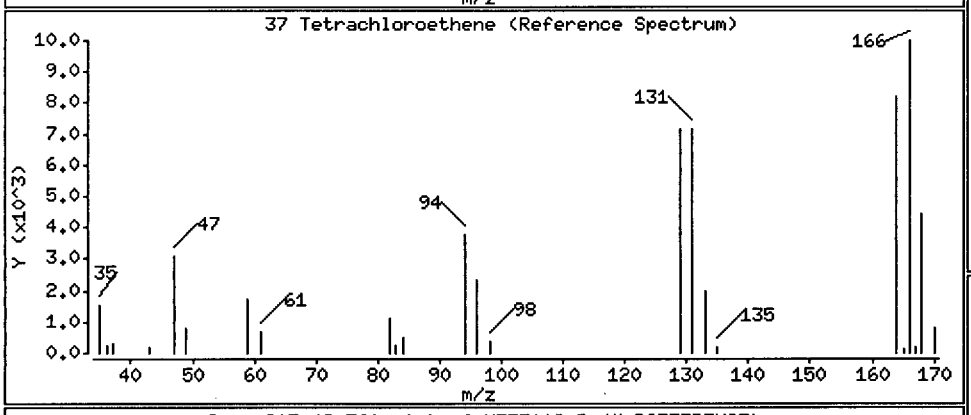
Operator: TRA

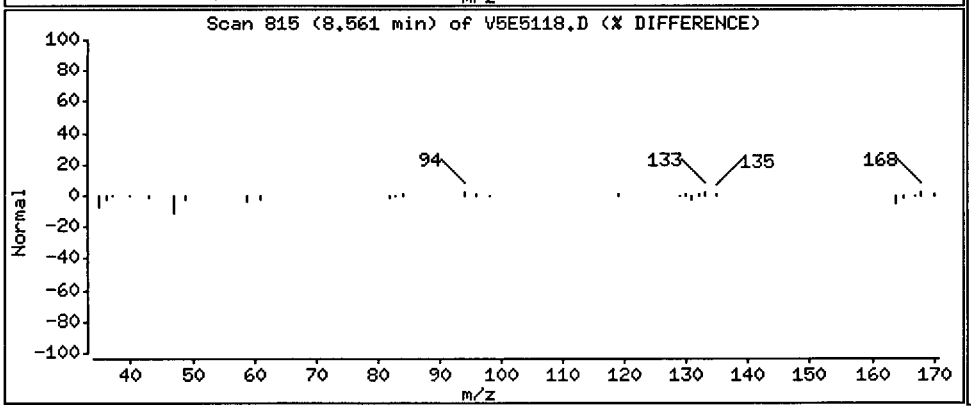
Column phase: DB-624 Column diameter: 0.25

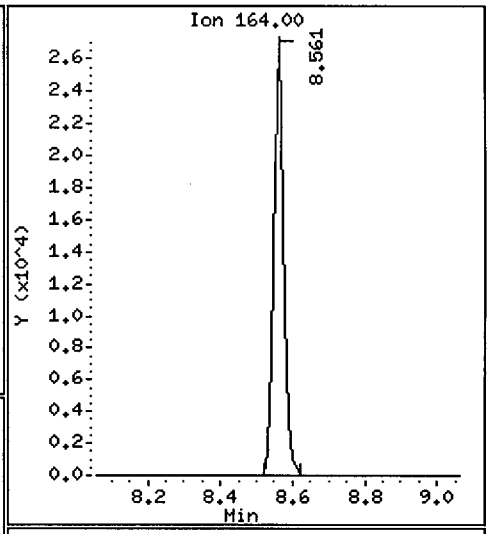
37 Tetrachloroethene Concentration: 8 ug/Kg

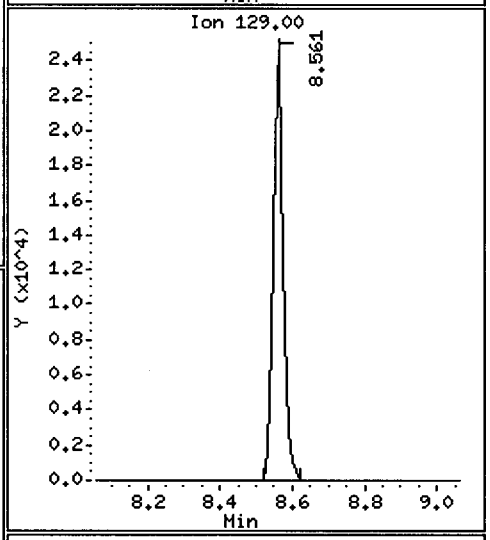


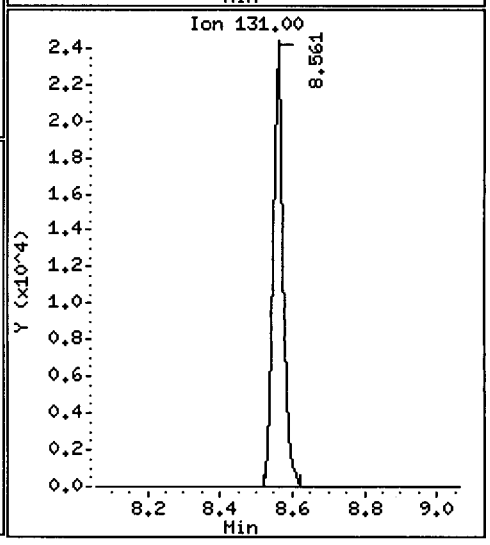












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SJ0

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-02A

Sample wt/vol: 4.7 (g/mL) G Lab File ID: V5E5126

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 4 Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SJ0

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-02A

Sample wt/vol: 4.7 (g/mL) G Lab File ID: V5E5126

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 4 Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	4	J
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y0SJ0

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-02A

Sample wt/vol: 4.7 (g/mL) G Lab File ID: V5E5126

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 4 Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

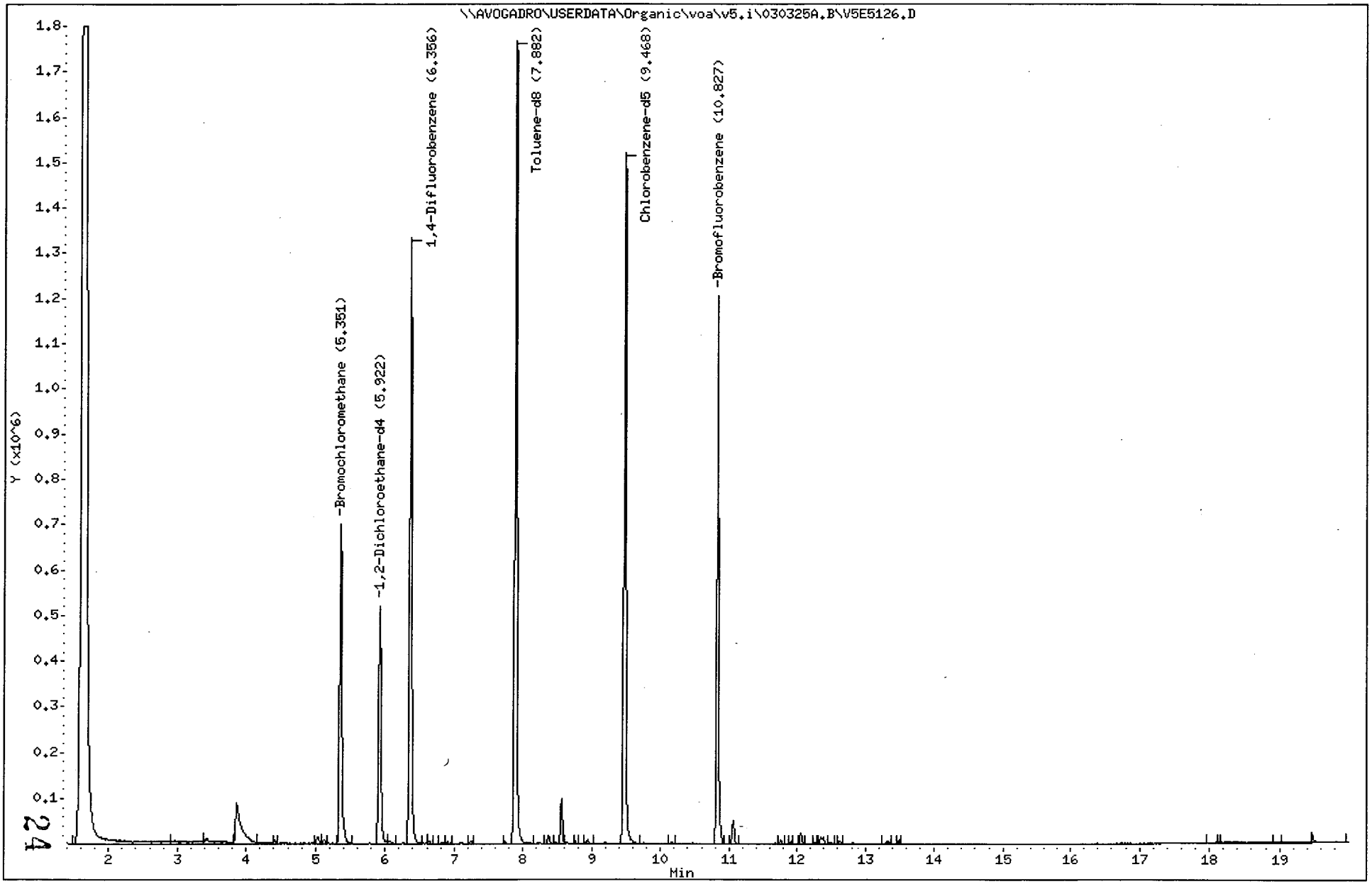
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5126.D
Date : 26-MAR-2003 02:41
Client ID: Y0SJ0
Sample Info: EPA,B0447-02A,Y0SJ0,V5B0325C,,Y0SH9

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



Data File: V5E5126.D
Report Date: 03-Apr-2003 14:03

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5126.D
Lab Smp Id: B0447-02A Client Smp ID: Y0SJ0
Inj Date : 26-MAR-2003 02:41
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0447-02A,Y0SJ0,V5B0325C,,Y0SH9
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 50
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	4.700	Weight of sample (g)
M	4.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
9 Acetone	43	3.421	3.419	(0.639)	21149	5.35446	6(a)
12 Methylene Chloride	84	3.864	3.872	(0.722)	132859	10.3697	11(a)
* 18 Bromochloromethane	128	5.351	5.359	(1.000)	236099	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.922	5.921	(1.107)	411501	58.3735	65
* 26 1,4-Difluorobenzene	114	6.356	6.354	(1.000)	1309228	50.0000	
$ 33 Toluene-d8	98	7.882	7.891	(0.833)	1544081	52.7637	58
37 Tetrachloroethene	164	8.562	8.561	(0.904)	29230	3.92975	4(a)
* 42 Chlorobenzene-d5	117	9.468	9.477	(1.000)	1163721	50.0000	
$ 50 Bromofluorobenzene	95	10.827	10.826	(1.144)	570723	48.9178	54

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

SB 4/3/03

KC

Data File: V5E5126.D
Report Date: 03-Apr-2003 14:03

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5126.D
Lab Smp Id: B0447-02A Client Smp ID: Y0SJ0
Inj Date : 26-MAR-2003 02:41
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0447-02A,Y0SJ0,V5B0325C,,Y0SH9
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 50
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5126.D

Date : 26-MAR-2003 02:41

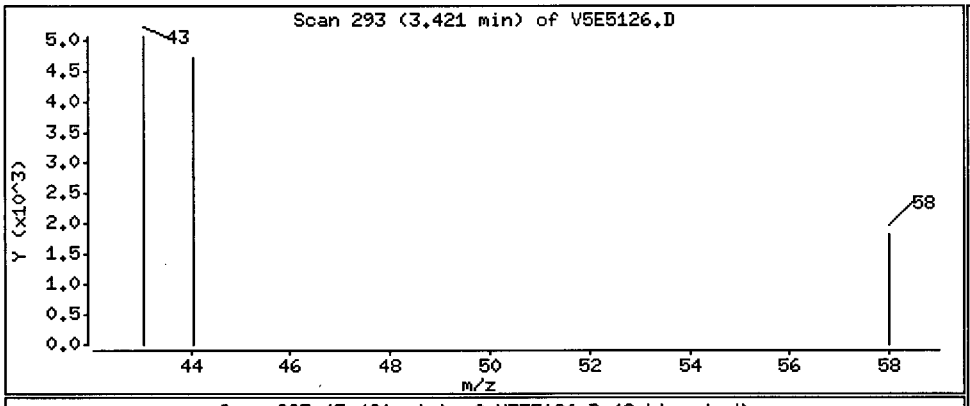
Client ID: Y0SJ0 Instrument: v5.i

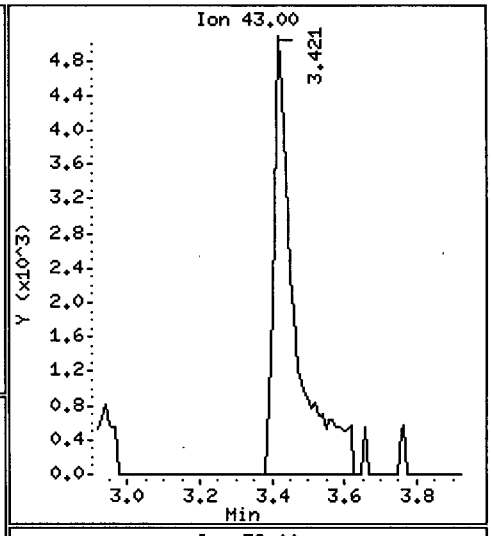
Sample Info: EPA,B0447-02A,Y0SJ0,V5B0325C,,Y0SH9

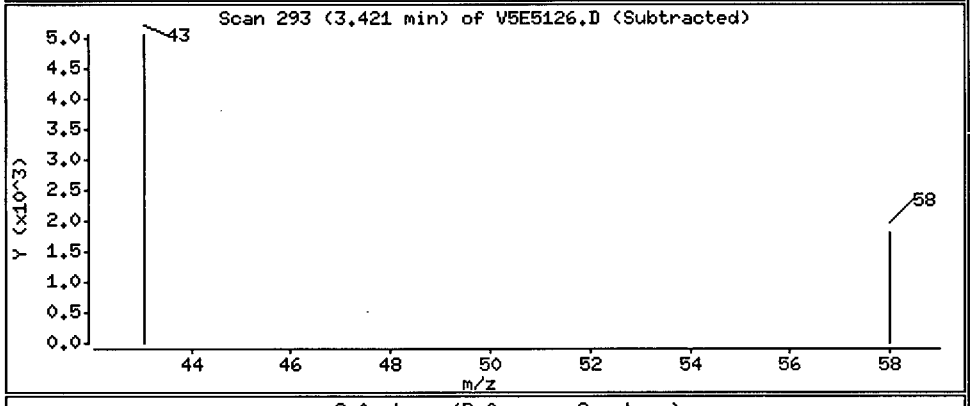
Operator: TRA

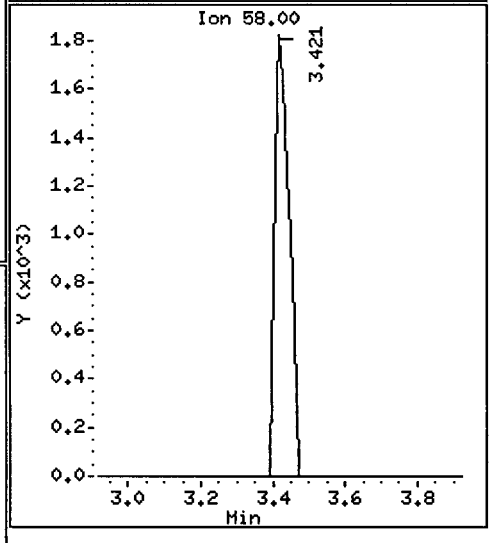
Column phase: DB-624 Column diameter: 0.25

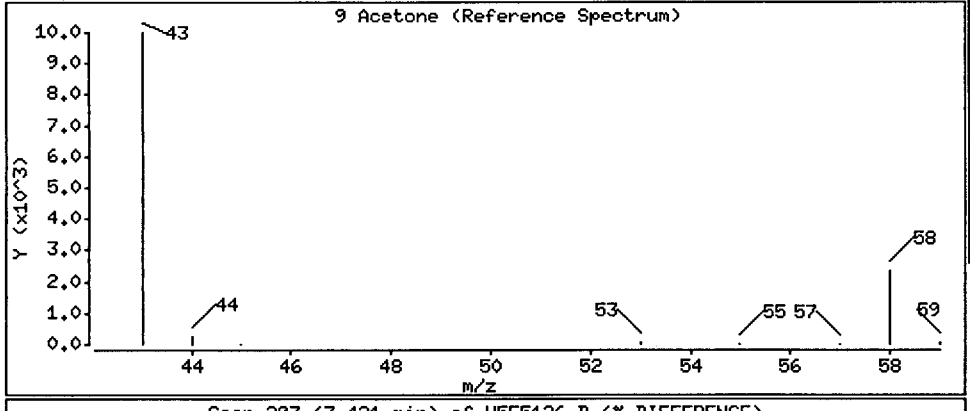
9 Acetone Concentration: 6 ug/Kg

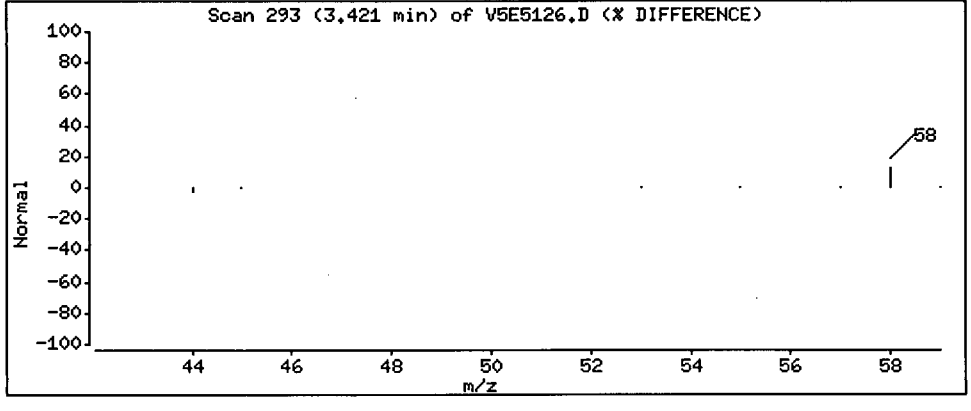












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Date : 26-MAR-2003 02:41

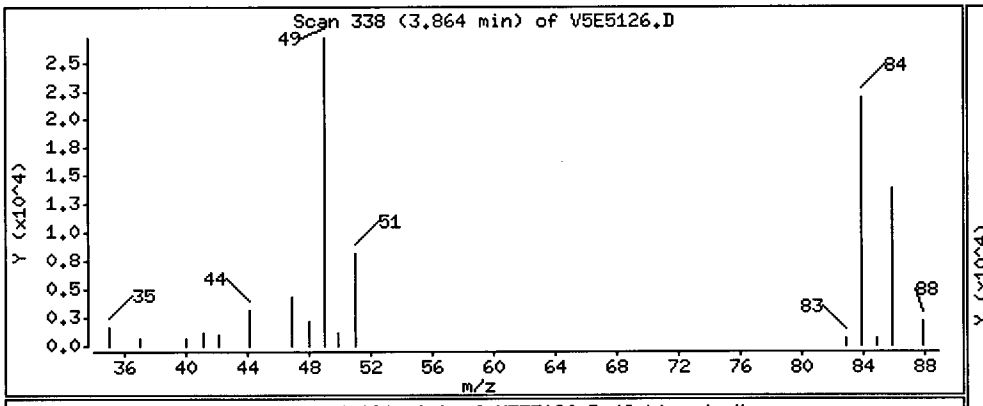
Client ID: Y0SJ0 | Instrument: v5.i

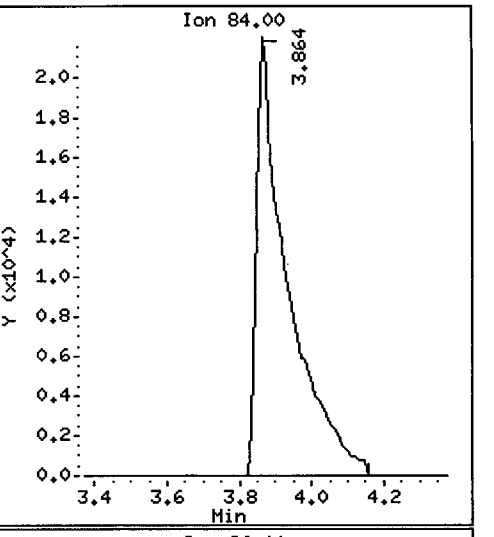
Sample Info: EPA,B0447-02A,Y0SJ0,V5B0325C,,Y0SH9

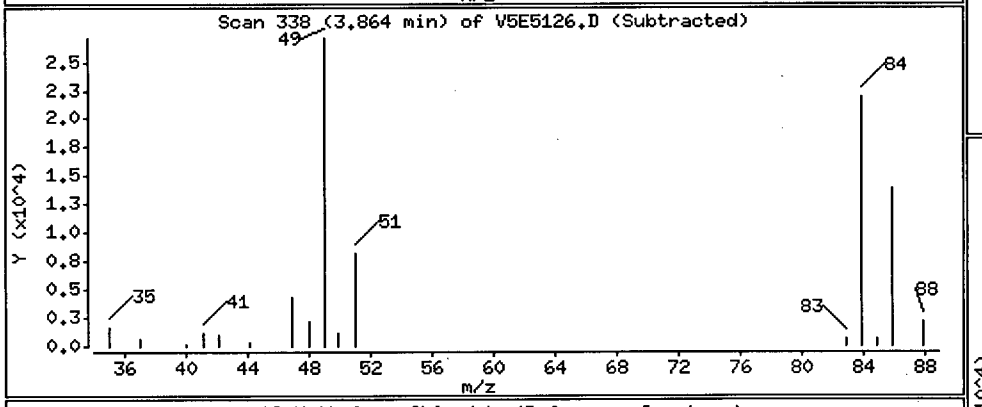
Operator: TRA

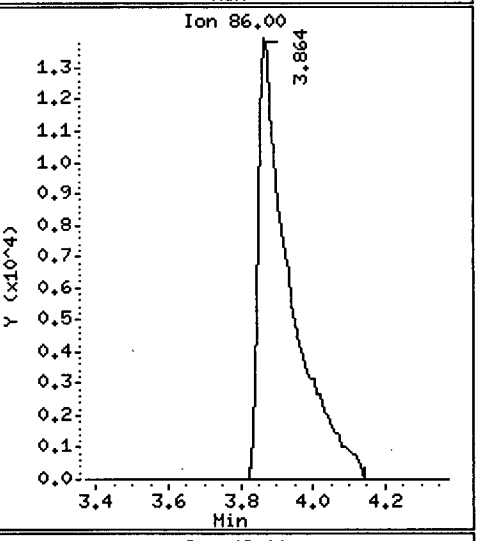
Column phase: DB-624 | Column diameter: 0.25

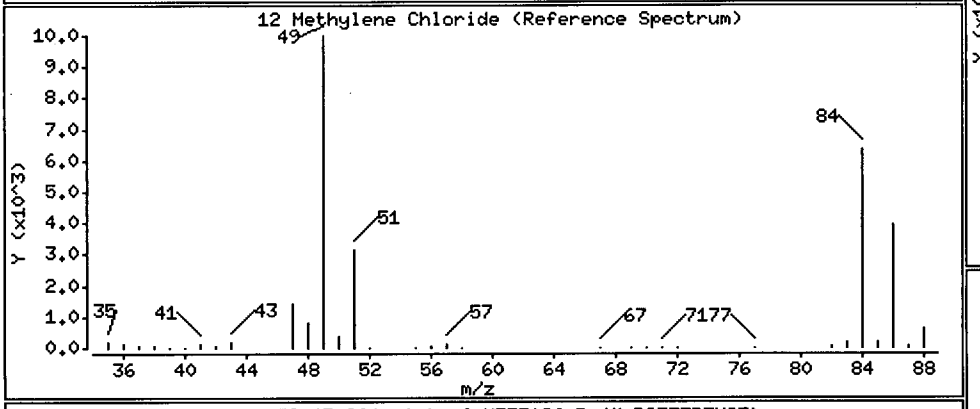
12 Methylene Chloride | Concentration: 11 ug/Kg

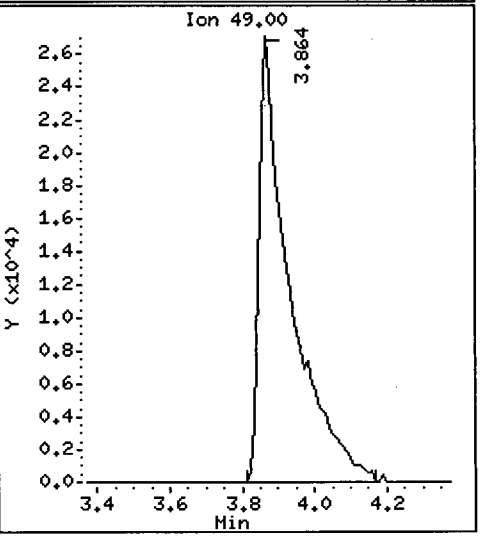


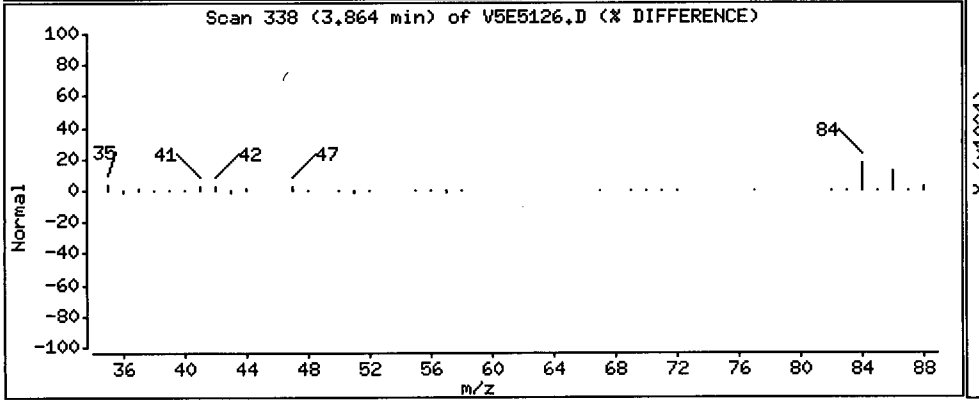












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5126.D

Date : 26-MAR-2003 02:41

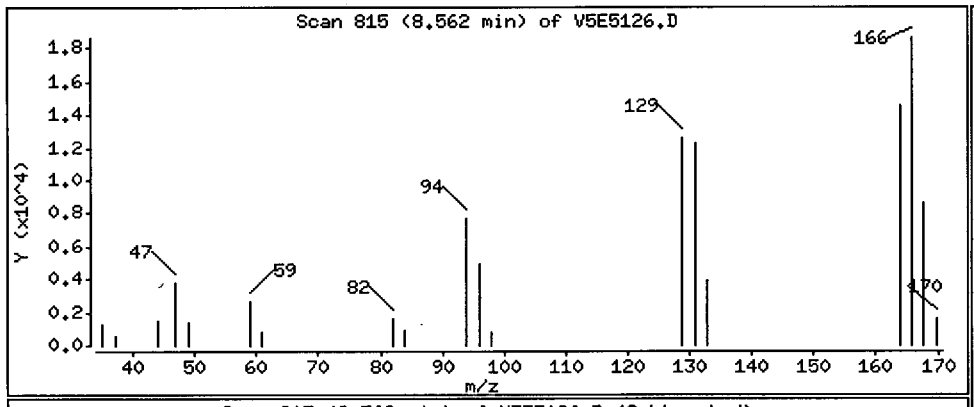
Client ID: Y0SJ0 Instrument: v5.i

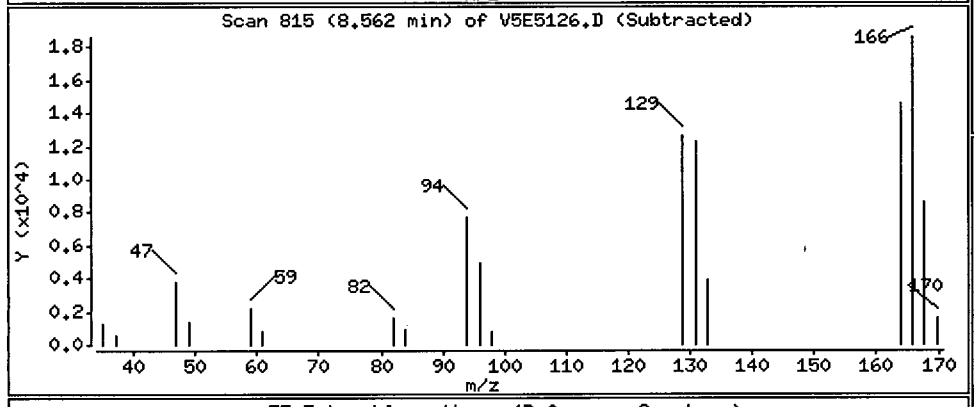
Sample Info: EPA,B0447-02A,Y0SJ0,V5B0325C,,Y0SH9

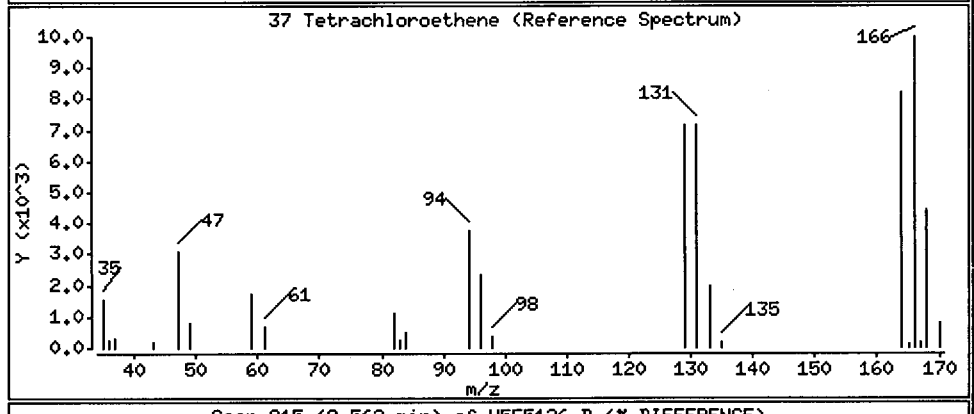
Operator: TRA

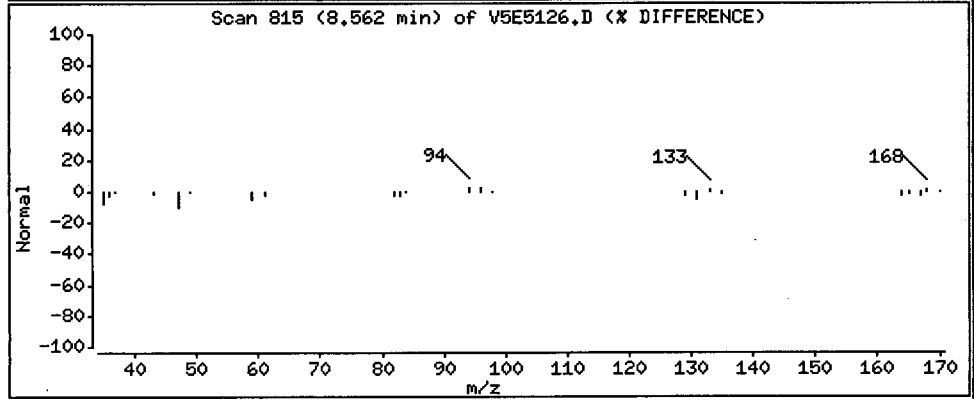
Column phase: DB-624 Column diameter: 0.25

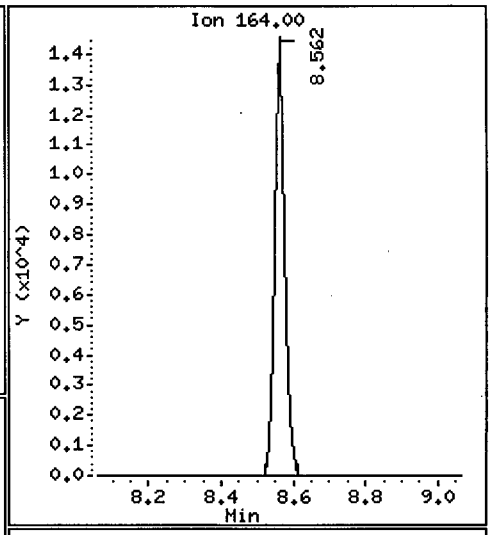
37 Tetrachloroethene Concentration: 4 ug/Kg

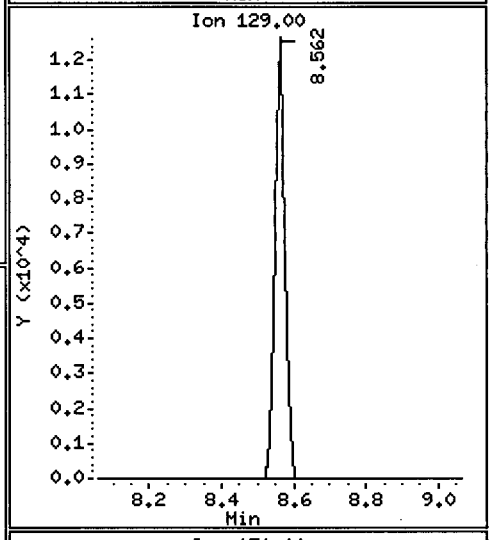


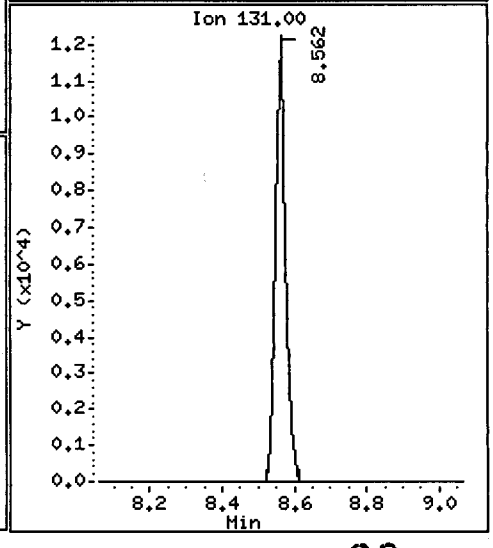












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SJ1

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-03A

Sample wt/vol: 4.4 (g/mL) G Lab File ID: V5E5127

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 4 Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	10	J
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	11	J
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	12	U
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SJ1

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-03A

Sample wt/vol: 4.4 (g/mL) G Lab File ID: V5E5127

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 4 Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	1	J
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y0SJ1

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-03A

Sample wt/vol: 4.4 (g/mL) G Lab File ID: V5E5127

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 4 Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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20.				
21.				
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24.				
25.				
26.				
27.				
28.				
29.				
30.				

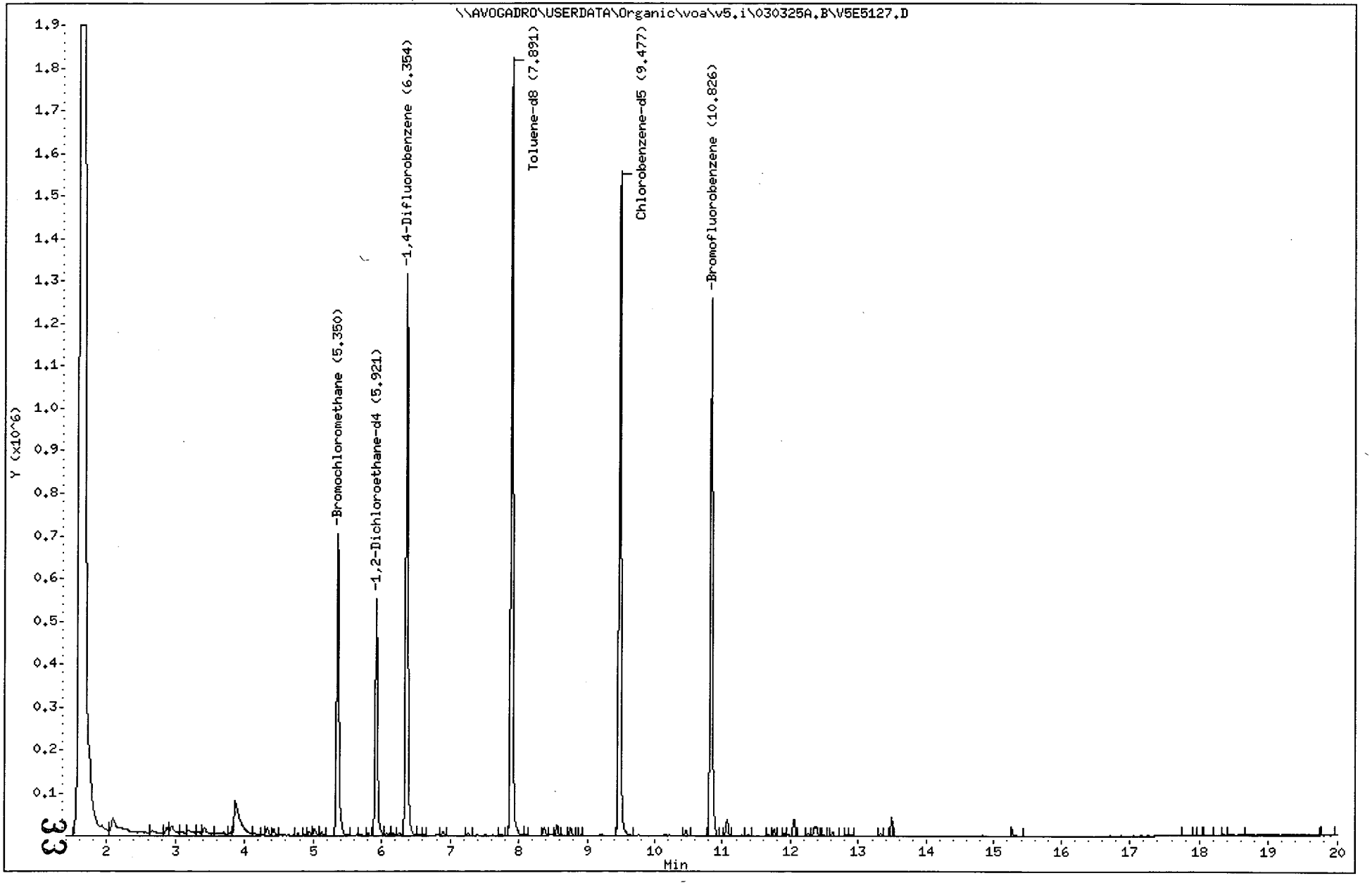
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5127.D
Date : 26-MAR-2003 03:10
Client ID: YOSJ1
Sample Info: EPA,B0447-03A,YOSJ1,V5B0325C,,YOSH9

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



Data File: V5E5127.D
Report Date: 03-Apr-2003 14:03

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5127.D
Lab Smp Id: B0447-03A Client Smp ID: Y0SJ1
Inj Date : 26-MAR-2003 03:10
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0447-03A,Y0SJ1,V5B0325C,,Y0SH9
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	4.400	Weight of sample (g)
M	4.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
9 Acetone	43	3.419	3.419	(0.639)	33781	8.38547	10(a)
12 Methylene Chloride	84	3.863	3.872	(0.722)	122823	9.39902	11(a)
* 18 Bromochloromethane	128	5.350	5.359	(1.000)	240805	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.921	5.921	(1.107)	417854	58.1163	69
* 26 1,4-Difluorobenzene	114	6.354	6.354	(1.000)	1313466	50.0000	
$ 33 Toluene-d8	98	7.891	7.891	(0.833)	1543794	52.0256	62
37 Tetrachloroethene	164	8.561	8.561	(0.903)	7841	1.03961	1(a)
* 42 Chlorobenzene-d5	117	9.477	9.477	(1.000)	1180011	50.0000	
$ 50 Bromofluorobenzene	95	10.826	10.826	(1.142)	591645	50.0110	59

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

SB 4/3/03

KL

Data File: V5E5127.D
Report Date: 03-Apr-2003 14:03

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5127.D
Lab Smp Id: B0447-03A Client Smp ID: Y0SJ1
Inj Date : 26-MAR-2003 03:10
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0447-03A,Y0SJ1,V5B0325C,,Y0SH9
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5127.D

Date : 26-MAR-2003 03:10

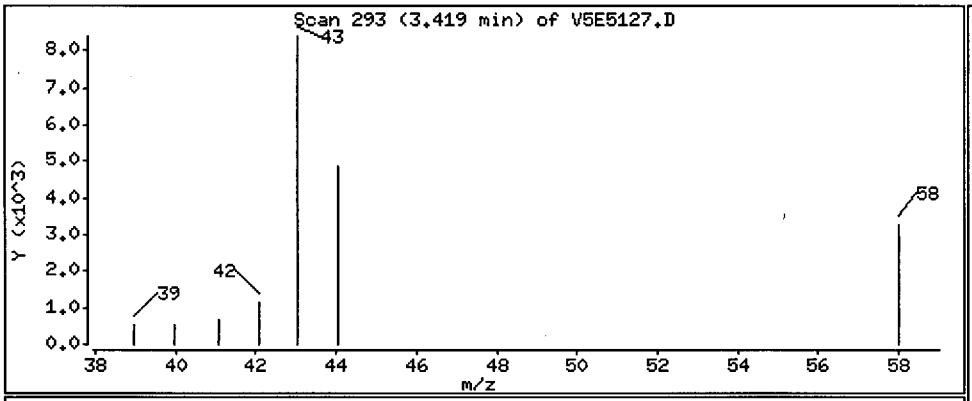
Client ID: Y0SJ1 | Instrument: v5.i

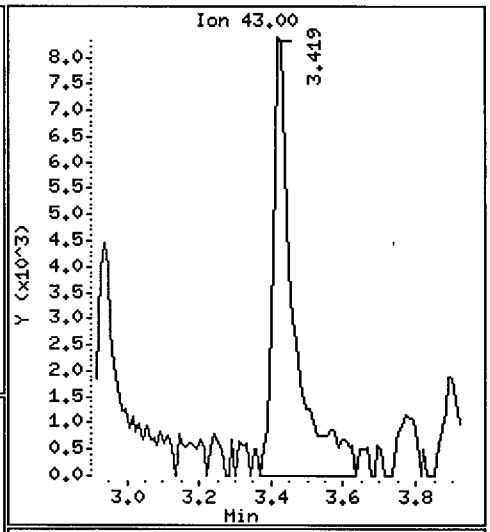
Sample Info: EPA,B0447-03A,Y0SJ1,V5B0325C,,Y0SH9

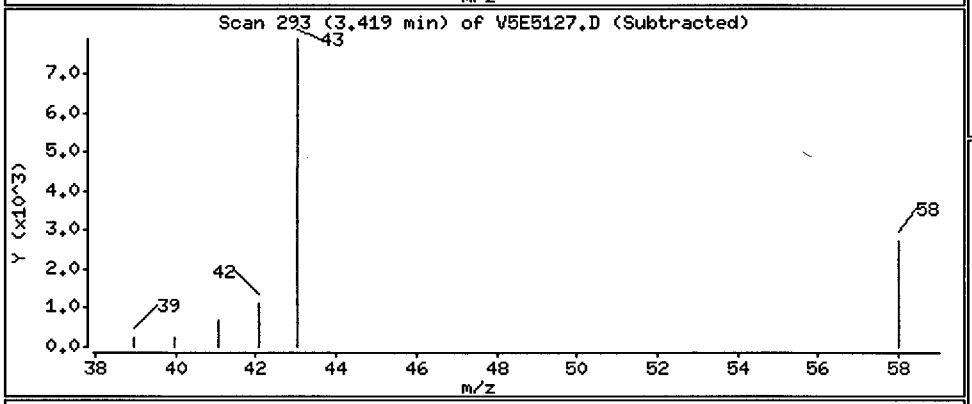
Operator: TRA

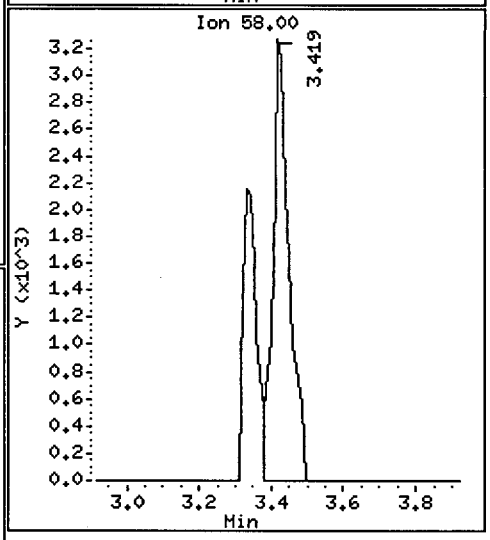
Column phase: DB-624 | Column diameter: 0.25

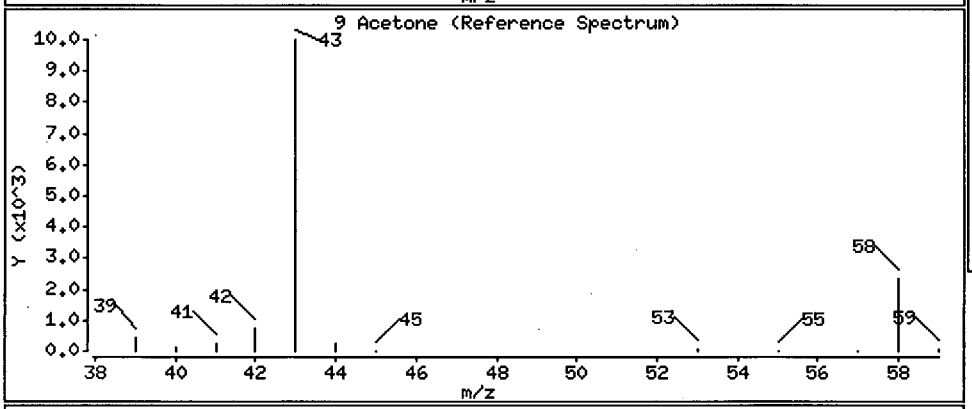
9 Acetone | Concentration: 10 ug/Kg

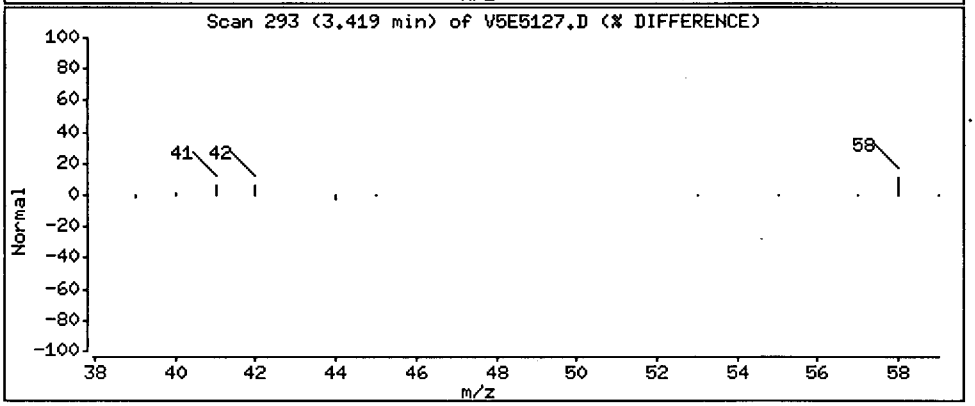












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5127.D

Date : 26-MAR-2003 03:10

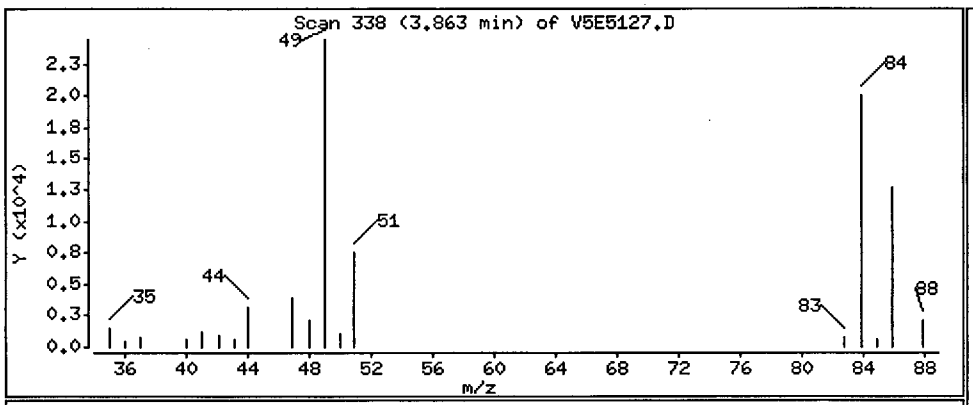
Client ID: Y0SJ1 | Instrument: v5.i

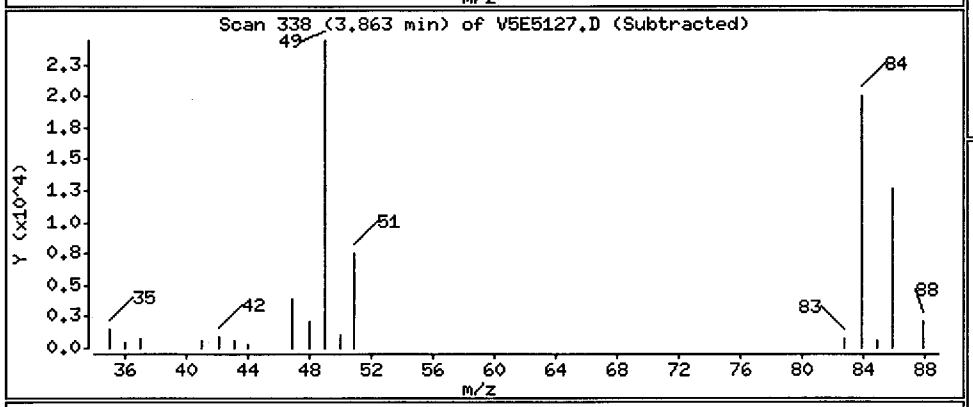
Sample Info: EPA,B0447-03A,Y0SJ1,V5B0325C,,Y0SH9

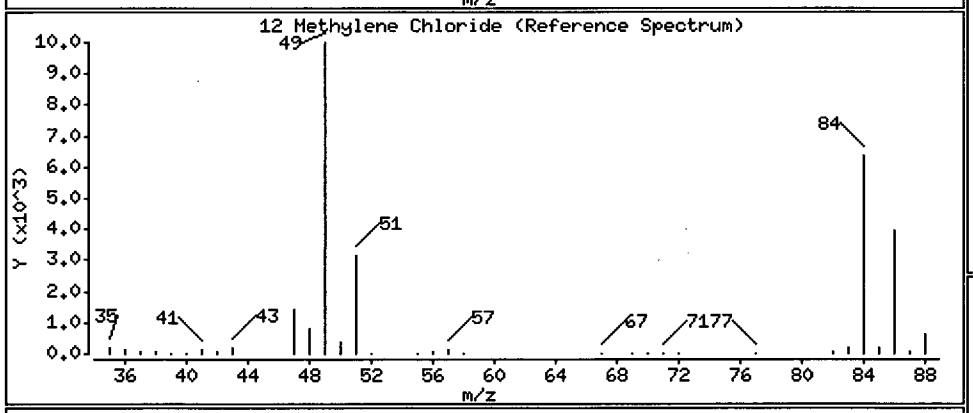
Operator: TRA

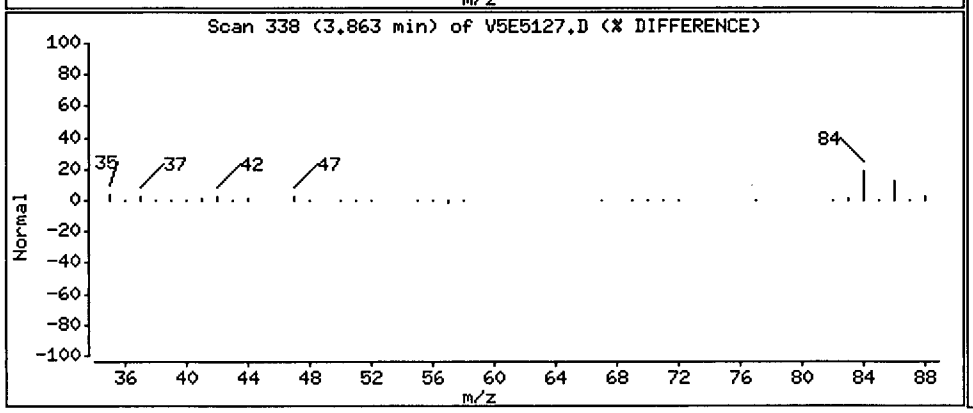
Column phase: DB-624 | Column diameter: 0.25

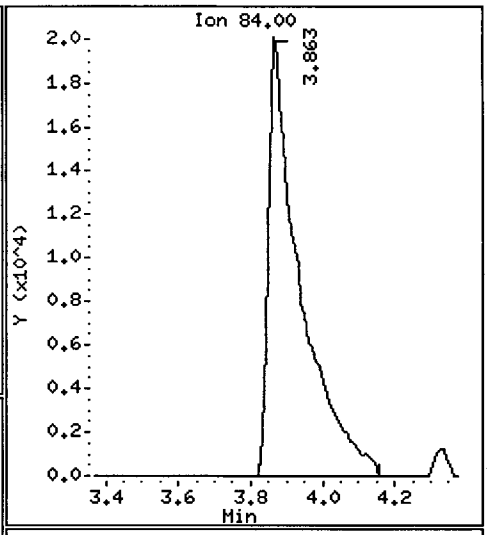
12 Methylene Chloride | Concentration: 11 ug/Kg

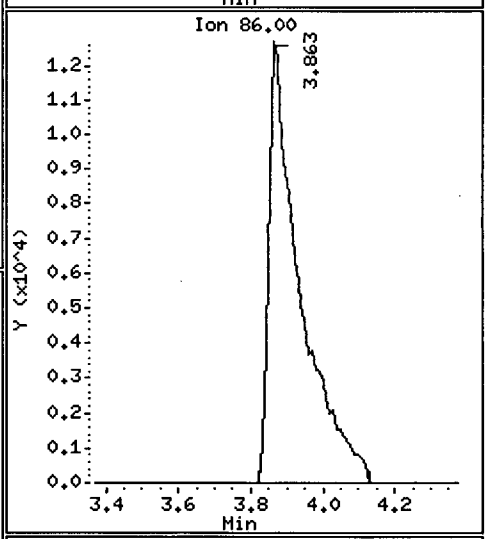


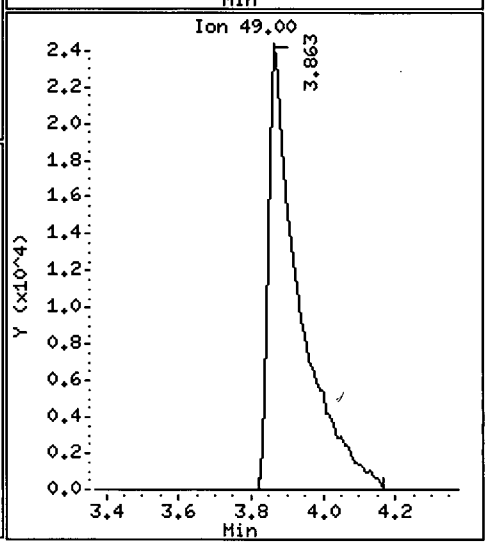












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5127.D

Date : 26-MAR-2003 03:10

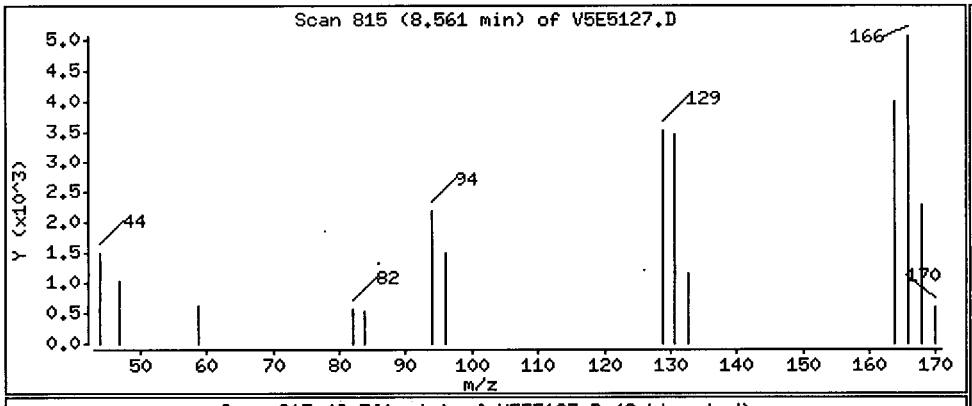
Client ID: Y0SJ1 | Instrument: v5.i

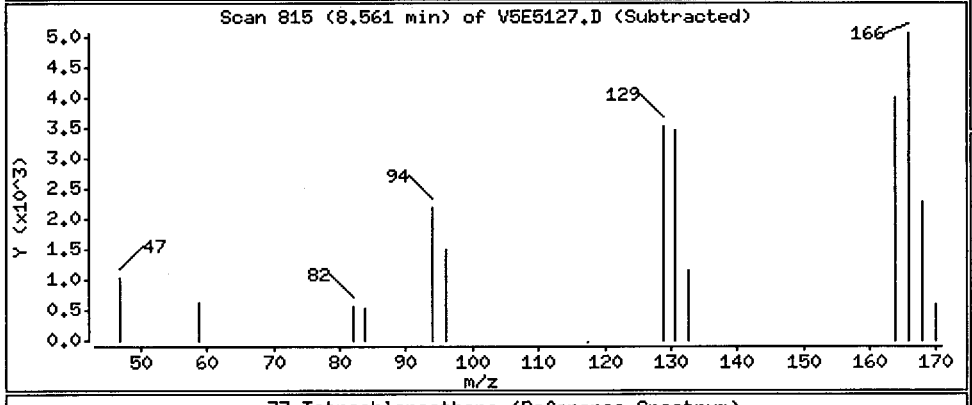
Sample Info: EPA,B0447-03A,Y0SJ1,V5B0325C,,Y0SH9

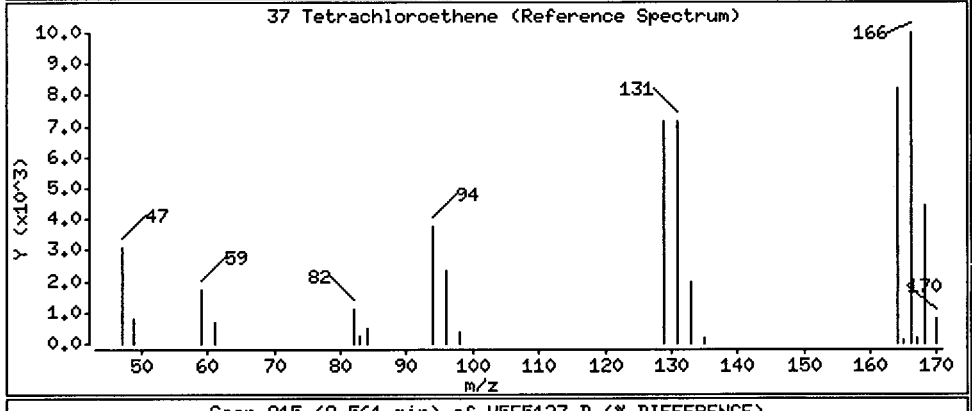
Operator: TRA

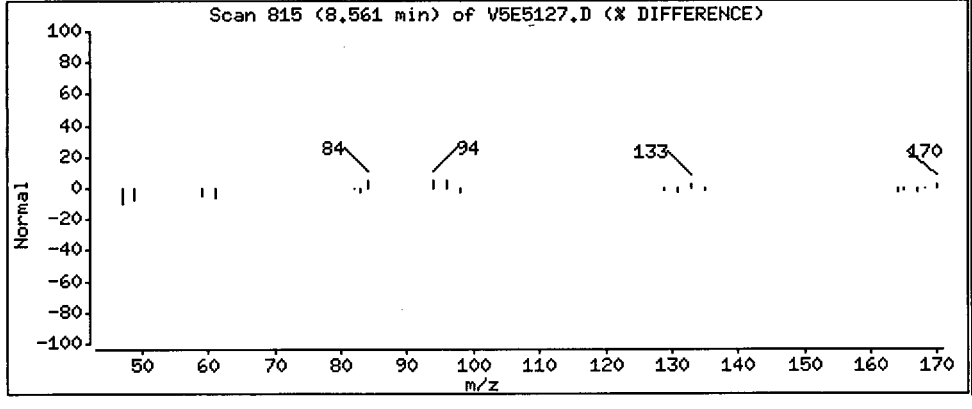
Column phase: DB-624 | Column diameter: 0.25

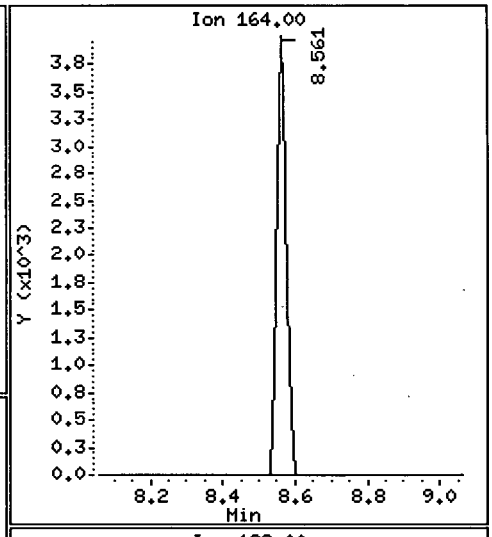
37 Tetrachloroethene | Concentration: 1 ug/Kg

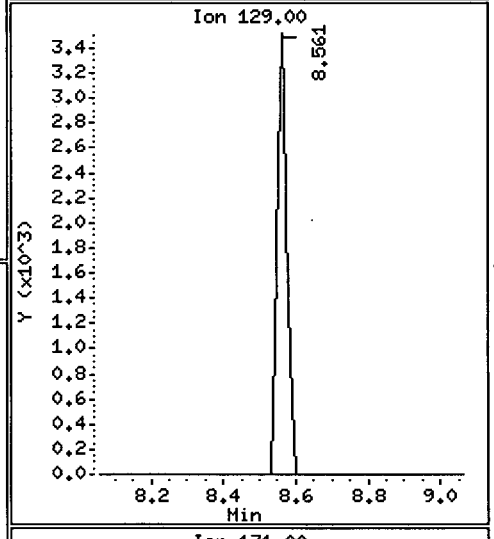


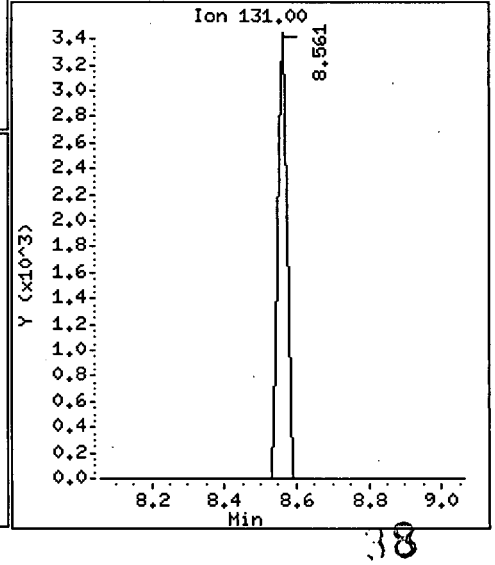












6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Instrument ID: V5 Calibration Date(s): 01/28/03 01/28/03

Heated Purge: (Y/N) Y Calibration Times: 1054 1302

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF10 = V5E3392 RRF20 = V5E3395
RRF50 = V5E3391 RRF100= V5E3394 RRF200= V5E3393

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane		1.842	2.096	2.067	2.253	2.466	2.145	10.8
Chloromethane		2.621	2.731	2.842	2.835	3.186	2.843	7.5
Vinyl Chloride	*	2.314	2.505	2.612	2.685	2.929	2.609	8.7*
Bromomethane	*	1.450	1.548	1.528	1.359	1.069	1.391	14.0*
Chloroethane		1.215	1.269	1.365	1.270	1.095	1.243	7.9
Trichlorofluoromethane		1.629	1.804	1.894	2.172	2.319	1.964	14.2
1,1-Dichloroethene	*	1.409	1.630	1.690	1.638	1.821	1.638	9.1*
1,1,2-Trichloro-1,2,2-trifluoroethane		1.231	1.616	1.567	1.477	1.562	1.491	10.3
Acetone		1.115	0.990	1.071	0.910	1.125	1.042	8.8
Carbon Disulfide		5.236	6.015	6.176	5.924	6.564	5.983	8.1
Methyl Acetate		1.456	1.619	1.570	1.581	1.858	1.617	9.1
Methylene Chloride		1.889	3.925	2.377	2.383	2.258	2.566	30.6
trans-1,2-Dichloroethene		1.525	1.742	1.782	1.664	1.830	1.709	7.0
Methyl tert-Butyl Ether		4.189	5.010	4.895	4.782	5.343	4.844	8.7
1,1-Dichloroethane	*	3.131	3.479	3.547	3.305	3.603	3.413	5.7*
cis-1,2-Dichloroethene		1.632	1.807	1.851	1.733	1.914	1.787	6.1
2-Butanone		1.231	1.237	1.238	1.229	1.512	1.289	9.7
Chloroform	*	2.789	3.101	3.081	2.862	3.133	2.993	5.2*
1,1,1-Trichloroethane	*	0.327	0.374	0.363	0.357	0.400	0.364	7.3*
Cyclohexane		0.456	0.563	0.557	0.572	0.665	0.563	13.1
Carbon Tetrachloride	*	0.301	0.364	0.355	0.354	0.411	0.357	11.0*
Benzene	*	1.178	1.340	1.312	1.266	1.421	1.303	6.9*
1,2-Dichloroethane	*	2.089	2.391	2.367	2.224	2.399	2.294	5.9*
Trichloroethene	*	0.276	0.309	0.310	0.290	0.333	0.304	7.1*
Methylcyclohexane		0.432	0.517	0.507	0.506	0.595	0.511	11.3

* 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: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Instrument ID: V5 Calibration Date(s): 01/28/03 01/28/03

Heated Purge: (Y/N) Y Calibration Times: 1054 1302

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF10 = V5E3392 RRF20 = V5E3395
RRF50 = V5E3391 RRF100= V5E3394 RRF200= V5E3393

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD	
1,2-Dichloropropane		0.348	0.380	0.369	0.352	0.389	0.368	4.8	
Bromodichloromethane	*	0.355	0.404	0.396	0.385	0.440	0.396	7.8*	
cis-1,3-Dichloropropene	*	0.470	0.532	0.539	0.522	0.595	0.532	8.4*	
4-Methyl-2-Pentanone		0.454	0.494	0.395	0.438	0.479	0.452	8.5	
Toluene	*	1.295	1.440	1.425	1.365	1.499	1.405	5.5*	
trans-1,3-Dichloropropene	*	0.411	0.482	0.481	0.468	0.534	0.475	9.2*	
1,1,2-Trichloroethane	*	0.241	0.275	0.263	0.254	0.289	0.264	7.0*	
Tetrachloroethene	*	0.229	0.269	0.267	0.256	0.289	0.262	8.4*	
2-Hexanone		0.420	0.440	0.304	0.364	0.385	0.383	13.8	
Dibromochloromethane	*	0.293	0.328	0.331	0.320	0.372	0.329	8.7*	
1,2-Dibromoethane		0.291	0.337	0.334	0.327	0.368	0.331	8.3	
Chlorobenzene	*	0.921	1.028	0.986	0.927	1.022	0.977	5.2*	
Ethylbenzene	*	0.429	0.490	0.487	0.464	0.510	0.476	6.5*	
Xylene (Total)	*	0.533	0.605	0.594	0.567	0.612	0.582	5.6*	
Styrene	*	0.758	0.892	0.892	0.857	0.932	0.866	7.6*	
Bromoform	*	0.178	0.212	0.218	0.216	0.259	0.217	13.2*	
Isopropylbenzene		1.348	1.533	1.549	1.462	1.651	1.509	7.4	
1,1,2,2-Tetrachloroethane	*	0.356	0.434	0.400	0.424	0.496	0.422	12.1*	
1,3-Dichlorobenzene	*	0.591	0.699	0.703	0.727	0.812	0.706	11.2*	
1,4-Dichlorobenzene	*	0.582	0.701	0.698	0.728	0.821	0.706	12.1*	
1,2-Dichlorobenzene	*	0.551	0.643	0.636	0.683	0.748	0.652	11.0*	
1,2-Dibromo-3-chloropropane		0.044	0.055	0.052	0.066	0.084	0.060	26.1	
1,2,4-Trichlorobenzene	*	0.235	0.295	0.269	0.357	0.413	0.314	22.7*	<-
Toluene-d8		1.091	1.199	1.215	1.171	1.226	1.180	4.6	
Bromofluorobenzene	*	0.467	0.535	0.524	0.520	0.543	0.518	5.8*	
1,2-Dichloroethane-d4		1.857	1.999	1.943	1.878	1.951	1.926	3.0	

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

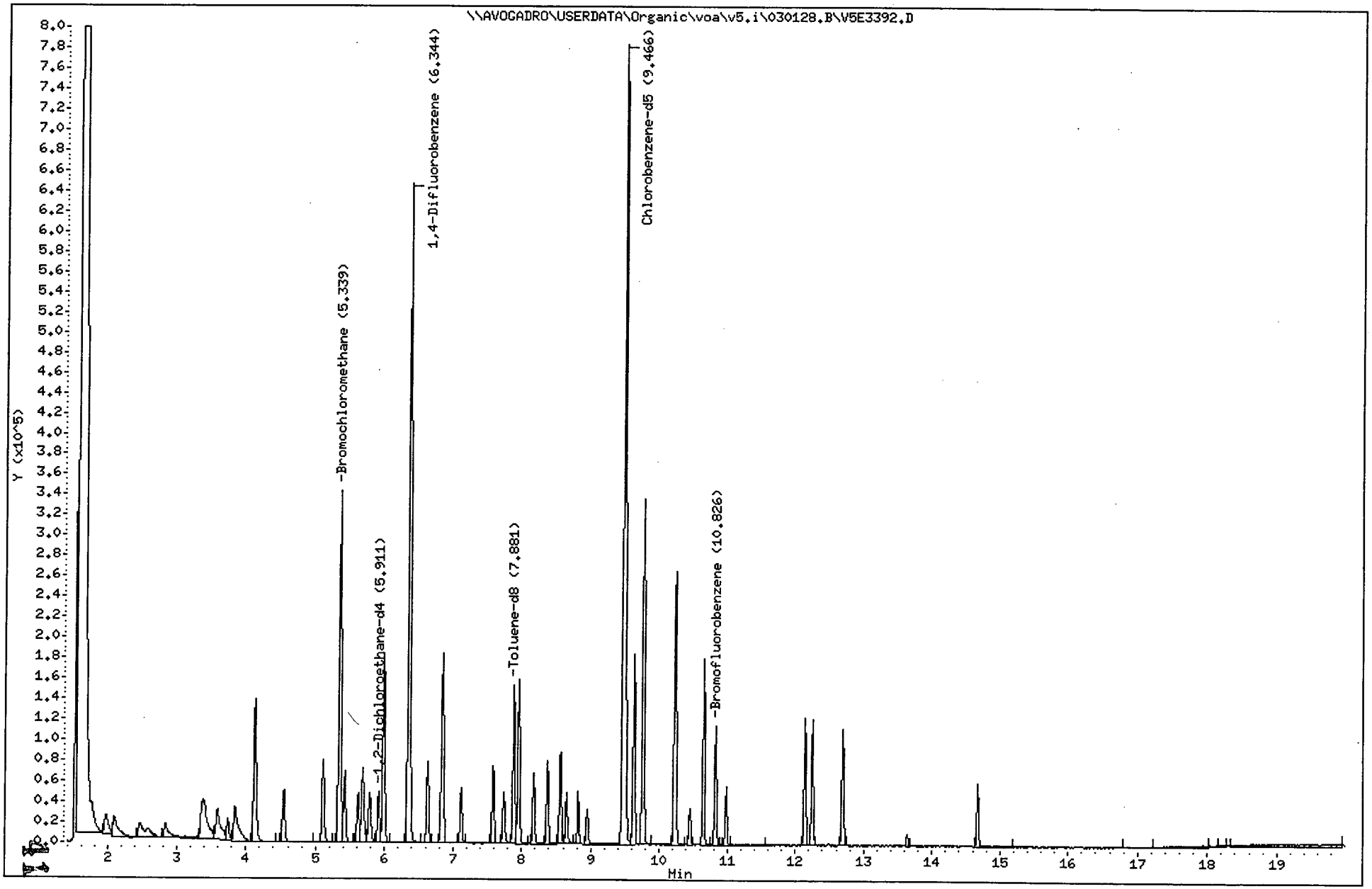
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3392.D
Date : 28-JAN-2003 11:29
Client ID: VSTD0105X
Sample Info: OLM,V5S0128B,VSTD0105X

Column phase: DB-624

Instrument: v5.i

Operator: AN
Column diameter: 0.25

COPY
Original Documents Are Included in CSF YORY8
Signed: SB **Date:** 2/10/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3392.D
Report Date: 10-Feb-2003 15:33

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3392.D
Lab Smp Id: V5S0128B
Client Smp ID: VSTD0105X
Inj Date : 28-JAN-2003 11:29
Operator : AN
Inst ID: v5.i
Smp Info : OLM,V5S0128B,VSTD0105X
Misc Info : ,1,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\v5clp4h.m
Meth Date : 28-Jan-2003 15:21 mtl
Quant Type: ISTD
Cal Date : 28-JAN-2003 10:54
Cal File: V5E3391.D
Als bottle: 2
Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.754	1.777	(0.329)	39179	10.0000	9(a)
2 Chloromethane	50	1.961	1.984	(0.367)	55727	10.0000	10
3 Vinyl Chloride	62	2.079	2.102	(0.389)	49196	10.0000	9(a)
4 Bromomethane	94	2.454	2.486	(0.460)	30836	10.0000	10
5 Chloroethane	64	2.572	2.595	(0.482)	25826	10.0000	9(a)
6 Trichlorofluoromethane	101	2.828	2.851	(0.530)	34636	10.0000	9(a)
7 1,1-Dichloroethene	96	3.370	3.383	(0.631)	29970	10.0000	9(a)
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.389	3.412	(0.635)	26169	10.0000	9(a)
9 Acetone	43	3.399	3.412	(0.637)	23719	10.0000	10
10 Carbon Disulfide	76	3.596	3.609	(0.673)	111336	10.0000	9(a)
11 Methyl Acetate	43	3.744	3.757	(0.701)	30971	10.0000	10
12 Methylene Chloride	84	3.842	3.855	(0.720)	40178	10.0000	9(a)
13 trans-1,2-Dichloroethene	96	4.128	4.141	(0.773)	32421	10.0000	9(a)
14 Methyl tert-Butyl Ether	73	4.128	4.141	(0.773)	89071	10.0000	9(a)
15 1,1-Dichloroethane	63	4.542	4.545	(0.851)	66587	10.0000	9(a)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3392.D
Report Date: 10-Feb-2003 15:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 2-Butanone	43	5.113	5.116	(0.958)	26179	10.0000	10
	17 cis-1,2-Dichloroethene	96	5.103	5.116	(0.956)	34708	10.0000	9(a)
*	18 Bromochloromethane	128	5.340	5.353	(1.000)	106322	50.0000	
	19 Chloroform	83	5.418	5.421	(1.015)	59306	10.0000	10
	20 1,1,1-Trichloroethane	97	5.615	5.618	(0.885)	38527	10.0000	9(a)
	21 Cyclohexane	56	5.674	5.687	(0.894)	53814	10.0000	9(a)
	22 Carbon Tetrachloride	117	5.783	5.786	(0.912)	35489	10.0000	9(a)
$	23 1,2-Dichloroethane-d4	65	5.911	5.914	(1.107)	39484	10.0000	10
	24 1,2-Dichloroethane	62	5.989	5.993	(1.122)	44431	10.0000	9(a)
	25 Benzene	78	5.980	5.983	(0.943)	138847	10.0000	9(a)
*	26 1,4-Difluorobenzene	114	6.344	6.347	(1.000)	589524	50.0000	
	27 Trichloroethene	130	6.620	6.633	(1.043)	32488	10.0000	9(a)
	28 Methylcyclohexane	83	6.837	6.840	(1.078)	50986	10.0000	9(a)
	29 1,2-Dichloropropane	63	6.846	6.850	(1.079)	40998	10.0000	10(T)
	30 Bromodichloromethane	83	7.122	7.125	(1.123)	41843	10.0000	9(a)
	31 cis-1,3-Dichloropropene	75	7.585	7.588	(1.196)	55471	10.0000	9(a)
	32 4-Methyl-2-Pentanone	43	7.743	7.736	(0.818)	48872	10.0000	11
$	33 Toluene-d8	98	7.881	7.884	(0.832)	117490	10.0000	9(a)
	34 Toluene	91	7.950	7.953	(0.840)	139408	10.0000	10
	35 trans-1,3-Dichloropropene	75	8.176	8.169	(1.289)	48492	10.0000	9(a)
	36 1,1,2-Trichloroethane	97	8.373	8.376	(1.320)	28438	10.0000	10
	37 Tetrachloroethene	164	8.560	8.563	(0.904)	24658	10.0000	9(a)
	38 2-Hexanone	43	8.639	8.642	(0.913)	45181	10.0000	12
	39 Dibromochloromethane	129	8.816	8.819	(1.390)	34510	10.0000	9(Ta)
	40 1,2-Dibromoethane	107	8.954	8.948	(0.946)	31376	10.0000	9(a)
M	41 Xylene (Total)	106				176644	10.0000	29
*	42 Chlorobenzene-d5	117	9.466	9.470	(1.000)	538445	50.0000	
	43 Chlorobenzene	112	9.506	9.499	(1.004)	99132	10.0000	10
	44 Ethylbenzene	106	9.624	9.627	(1.017)	46171	10.0000	9(a)
	45 m,p-Xylene	106	9.762	9.755	(1.031)	119258	20.0000	19
	46 o-Xylene	106	10.215	10.218	(1.079)	57385	10.0000	9(a)
	47 Styrene	104	10.225	10.228	(1.080)	81652	10.0000	9(a)
	48 Bromoform	173	10.442	10.445	(1.646)	20988	10.0000	9(a)
	49 Isopropylbenzene	105	10.648	10.642	(1.125)	145140	10.0000	9(a)
$	50 Bromofluorobenzene	95	10.826	10.829	(1.144)	50268	10.0000	9(a)
	51 1,1,2,2-Tetrachloroethane	83	10.983	10.986	(1.160)	38390	10.0000	9(a)
	52 1,3-Dichlorobenzene	146	12.136	12.139	(1.282)	63596	10.0000	9(a)
	53 1,4-Dichlorobenzene	146	12.244	12.247	(1.293)	62651	10.0000	9(a)
	54 1,2-Dichlorobenzene	146	12.697	12.700	(1.341)	59345	10.0000	9(a)
	55 1,2-Dibromo-3-chloropropane	75	13.643	13.636	(1.441)	4687	10.0000	9(a)
	56 1,2,4-Trichlorobenzene	180	14.677	14.680	(1.550)	25299	10.0000	9(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

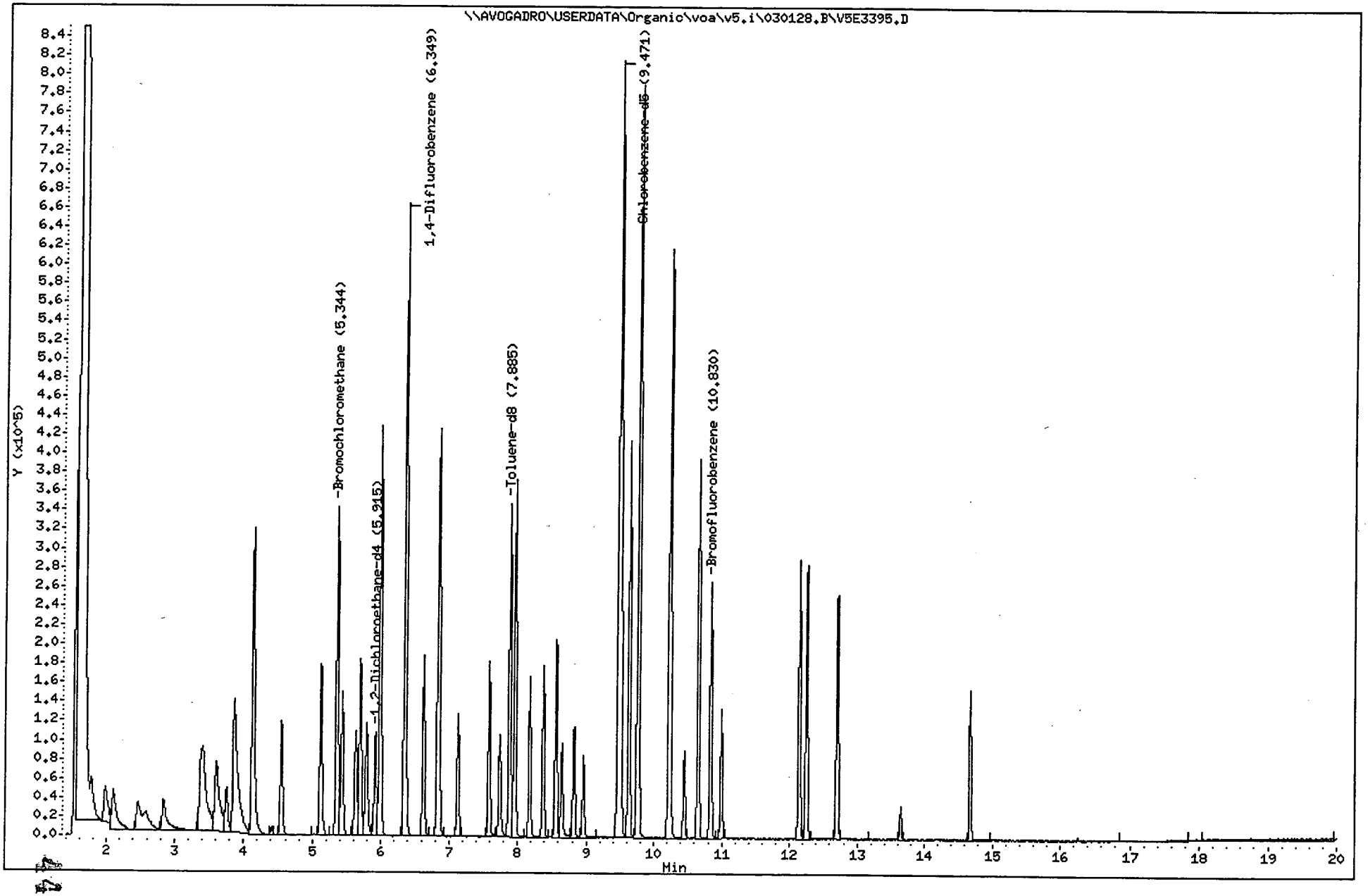
SB 2/10/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3395.D
Date : 28-JAN-2003 13:02
Client ID: VSTD0205X
Sample Info: OLM,V5S0128E,VSTD0205X

Instrument: v5.i

Operator: AN
Column diameter: 0.25

Column phase: DB-624



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3395.D
Report Date: 10-Feb-2003 15:33

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3395.D
Lab Smp Id: V5S0128E Client Smp ID: VSTD0205X
Inj Date : 28-JAN-2003 13:02
Operator : AN Inst ID: v5.i
Smp Info : OLM,V5S0128E,VSTD0205X
Misc Info : ,1,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\v5clp4h.m
Meth Date : 28-Jan-2003 15:21 mtl Quant Type: ISTD
Cal Date : 28-JAN-2003 10:54 Cal File: V5E3391.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.759	1.777	(0.329)	91669	20.0000	20
2 Chloromethane	50	1.966	1.984	(0.368)	119466	20.0000	19
3 Vinyl Chloride	62	2.094	2.102	(0.392)	109544	20.0000	19
4 Bromomethane	94	2.478	2.486	(0.464)	67703	20.0000	22
5 Chloroethane	64	2.586	2.595	(0.484)	55510	20.0000	20
6 Trichlorofluoromethane	101	2.842	2.851	(0.532)	78889	20.0000	18
7 1,1-Dichloroethene	96	3.374	3.383	(0.631)	71309	20.0000	20
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.394	3.412	(0.635)	70660	20.0000	22
9 Acetone	43	3.413	3.412	(0.639)	43310	20.0000	19
10 Carbon Disulfide	76	3.601	3.609	(0.674)	263080	20.0000	20
11 Methyl Acetate	43	3.748	3.757	(0.701)	70793	20.0000	20
12 Methylene Chloride	84	3.847	3.855	(0.720)	171688	20.0000	31
13 trans-1,2-Dichloroethene	96	4.132	4.141	(0.773)	76192	20.0000	20
14 Methyl tert-Butyl Ether	73	4.132	4.141	(0.773)	219120	20.0000	21
15 1,1-Dichloroethane	63	4.536	4.545	(0.849)	152171	20.0000	20

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3395.D
Report Date: 10-Feb-2003 15:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 2-Butanone	43	5.117	5.116	(0.958)	54088	20.0000	19
	17 cis-1,2-Dichloroethene	96	5.107	5.116	(0.956)	79011	20.0000	20
*	18 Bromochloromethane	128	5.344	5.353	(1.000)	109342	50.0000	
	19 Chloroform	83	5.423	5.421	(1.015)	135623	20.0000	21
	20 1,1,1-Trichloroethane	97	5.620	5.618	(0.885)	89477	20.0000	21
	21 Cyclohexane	56	5.679	5.687	(0.895)	134439	20.0000	20
	22 Carbon Tetrachloride	117	5.787	5.786	(0.912)	87035	20.0000	20
$	23 1,2-Dichloroethane-d4	65	5.915	5.914	(1.107)	87428	20.0000	21
	24 1,2-Dichloroethane	62	5.984	5.993	(1.120)	104581	20.0000	21
	25 Benzene	78	5.984	5.983	(0.943)	320174	20.0000	21
*	26 1,4-Difluorobenzene	114	6.349	6.347	(1.000)	597468	50.0000	
	27 Trichloroethene	130	6.624	6.633	(1.043)	73874	20.0000	20
	28 Methylcyclohexane	83	6.831	6.840	(1.076)	123669	20.0000	20
	29 1,2-Dichloropropane	63	6.851	6.850	(1.079)	90792	20.0000	21
	30 Bromodichloromethane	83	7.127	7.125	(1.123)	96604	20.0000	20
	31 cis-1,3-Dichloropropene	75	7.590	7.588	(1.195)	127082	20.0000	20
	32 4-Methyl-2-Pentanone	43	7.737	7.736	(0.817)	106244	20.0000	22
$	33 Toluene-d8	98	7.885	7.884	(0.833)	257959	20.0000	20
	34 Toluene	91	7.954	7.953	(0.840)	309863	20.0000	21
	35 trans-1,3-Dichloropropene	75	8.171	8.169	(1.287)	115301	20.0000	20
	36 1,1,2-Trichloroethane	97	8.378	8.376	(1.320)	65802	20.0000	21
	37 Tetrachloroethene	164	8.565	8.563	(0.904)	57816	20.0000	21
	38 2-Hexanone	43	8.643	8.642	(0.913)	94682	20.0000	23
	39 Dibromochloromethane	129	8.821	8.819	(1.389)	78269	20.0000	20
	40 1,2-Dibromoethane	107	8.949	8.948	(0.945)	72518	20.0000	20
M	41 Xylene (Total)	106				395582	20.0000	63
*	42 Chlorobenzene-d5	117	9.471	9.470	(1.000)	537919	50.0000	
	43 Chlorobenzene	112	9.500	9.499	(1.003)	221294	20.0000	21
	44 Ethylbenzene	106	9.629	9.627	(1.017)	105486	20.0000	21
	45 m,p-Xylene	106	9.757	9.755	(1.030)	265380	40.0000	41
	46 o-Xylene	106	10.219	10.218	(1.079)	130202	20.0000	21
	47 Styrene	104	10.229	10.228	(1.080)	191988	20.0000	21
	48 Bromoform	173	10.446	10.445	(1.645)	50675	20.0000	20
	49 Isopropylbenzene	105	10.653	10.642	(1.125)	329917	20.0000	20
$	50 Bromofluorobenzene	95	10.830	10.829	(1.144)	115149	20.0000	21
	51 1,1,2,2-Tetrachloroethane	83	10.988	10.986	(1.160)	93426	20.0000	21
	52 1,3-Dichlorobenzene	146	12.140	12.139	(1.282)	150436	20.0000	20
	53 1,4-Dichlorobenzene	146	12.248	12.247	(1.293)	150842	20.0000	20
	54 1,2-Dichlorobenzene	146	12.702	12.700	(1.341)	138347	20.0000	20
	55 1,2-Dibromo-3-chloropropane	75	13.637	13.636	(1.440)	11900	20.0000	18
	56 1,2,4-Trichlorobenzene	180	14.681	14.680	(1.550)	63492	20.0000	19

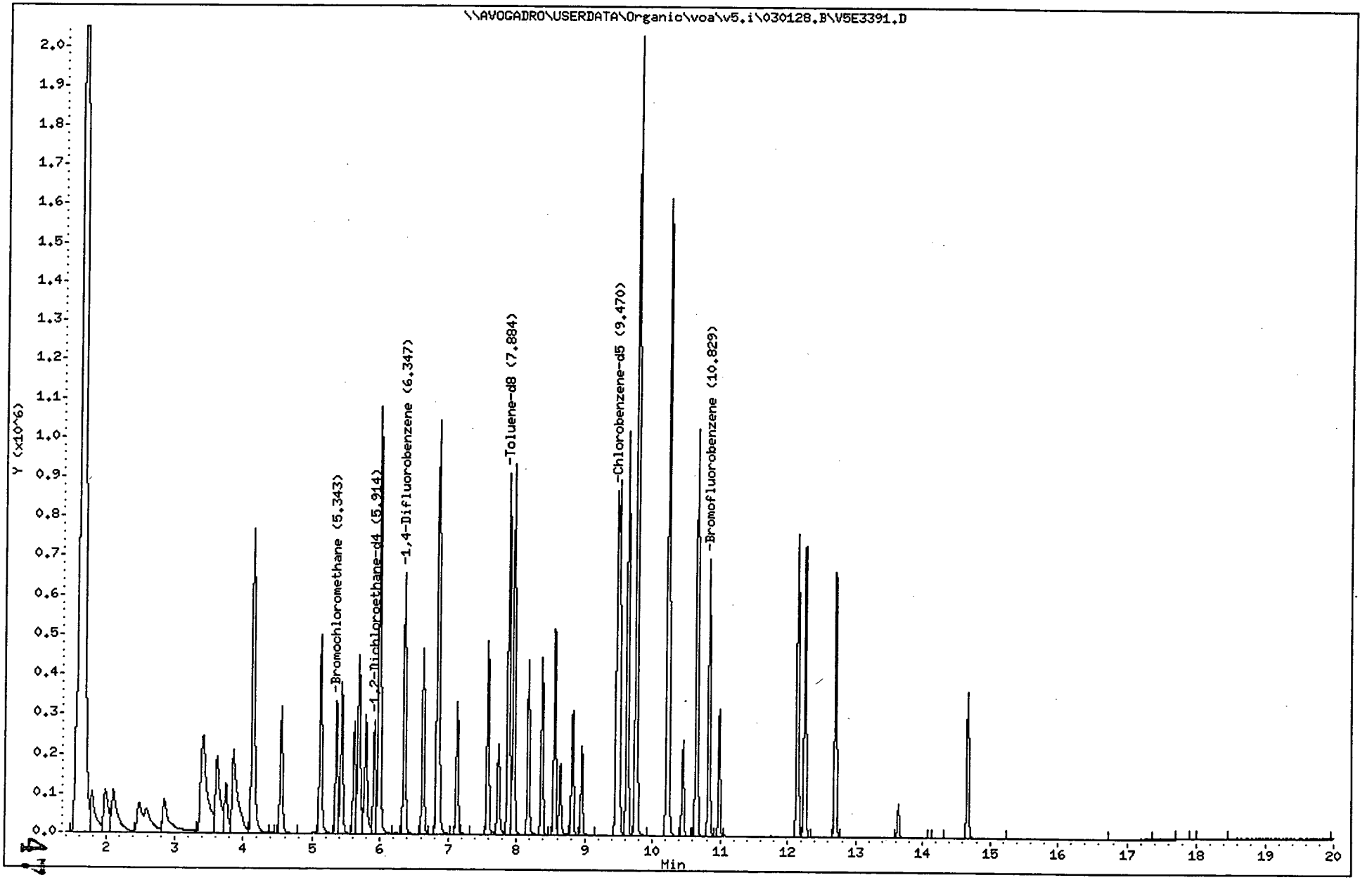
SB
2/10/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3391.D
Date : 28-JAN-2003 10:54
Client ID: VSTD0505X
Sample Info: OLM,V5S0128A,VSTD0505X

Instrument: v5.i

Operator: AN
Column diameter: 0.25

Column phase: DB-624



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3391.D
Report Date: 10-Feb-2003 15:33

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3391.D
Lab Smp Id: V5S0128A Client Smp ID: VSTD0505X
Inj Date : 28-JAN-2003 10:54
Operator : AN Inst ID: v5.i
Smp Info : OLM,V5S0128A,VSTD0505X
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\v5clp4h.m
Meth Date : 28-Jan-2003 15:21 mtl Quant Type: ISTD
Cal Date : 28-JAN-2003 10:54 Cal File: V5E3391.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.777	1.777	(0.332)	228413	50.0000	50
2 Chloromethane	50	1.984	1.984	(0.371)	314052	50.0000	50
3 Vinyl Chloride	62	2.102	2.102	(0.393)	288616	50.0000	50
4 Bromomethane	94	2.486	2.486	(0.465)	168906	50.0000	50
5 Chloroethane	64	2.595	2.595	(0.485)	150872	50.0000	50
6 Trichlorofluoromethane	101	2.851	2.851	(0.533)	209316	50.0000	50
7 1,1-Dichloroethene	96	3.383	3.383	(0.632)	186754	50.0000	50
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.412	3.412	(0.637)	173148	50.0000	50
9 Acetone	43	3.412	3.412	(0.637)	118312	50.0000	50
10 Carbon Disulfide	76	3.609	3.609	(0.674)	682540	50.0000	50
11 Methyl Acetate	43	3.757	3.757	(0.702)	173497	50.0000	50
12 Methylene Chloride	84	3.855	3.855	(0.720)	262650	50.0000	50
13 trans-1,2-Dichloroethene	96	4.141	4.141	(0.774)	196924	50.0000	50
14 Methyl tert-Butyl Ether	73	4.141	4.141	(0.774)	540946	50.0000	50
15 1,1-Dichloroethane	63	4.545	4.545	(0.849)	391963	50.0000	50

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3391.D
Report Date: 10-Feb-2003 15:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 2-Butanone	43	5.116	5.116	(0.956)	136809	50.0000	50
	17 cis-1,2-Dichloroethene	96	5.116	5.116	(0.956)	204594	50.0000	50
*	18 Bromochloromethane	128	5.353	5.353	(1.000)	110514	50.0000	
	19 Chloroform	83	5.421	5.421	(1.013)	340537	50.0000	50
	20 1,1,1-Trichloroethane	97	5.618	5.618	(0.885)	225443	50.0000	50
	21 Cyclohexane	56	5.687	5.687	(0.896)	346093	50.0000	50
	22 Carbon Tetrachloride	117	5.786	5.786	(0.912)	220806	50.0000	50
$	23 1,2-Dichloroethane-d4	65	5.914	5.914	(1.105)	214680	50.0000	50
	24 1,2-Dichloroethane	62	5.993	5.993	(1.120)	261564	50.0000	50
	25 Benzene	78	5.983	5.983	(0.943)	815907	50.0000	50
*	26 1,4-Difluorobenzene	114	6.347	6.347	(1.000)	621834	50.0000	
	27 Trichloroethene	130	6.633	6.633	(1.045)	192645	50.0000	50
	28 Methylcyclohexane	83	6.840	6.840	(1.078)	315258	50.0000	50
	29 1,2-Dichloropropane	63	6.850	6.850	(1.079)	229474	50.0000	50
	30 Bromodichloromethane	83	7.125	7.125	(1.123)	246157	50.0000	50
	31 cis-1,3-Dichloropropene	75	7.588	7.588	(1.196)	334885	50.0000	50
	32 4-Methyl-2-Pentanone	43	7.736	7.736	(0.817)	218272	50.0000	50
$	33 Toluene-d8	98	7.884	7.884	(0.833)	672001	50.0000	50
	34 Toluene	91	7.953	7.953	(0.840)	787798	50.0000	50
	35 trans-1,3-Dichloropropene	75	8.169	8.169	(1.287)	299340	50.0000	50
	36 1,1,2-Trichloroethane	97	8.376	8.376	(1.320)	163795	50.0000	50
	37 Tetrachloroethene	164	8.563	8.563	(0.904)	147611	50.0000	50
	38 2-Hexanone	43	8.642	8.642	(0.913)	168234	50.0000	50
	39 Dibromochloromethane	129	8.819	8.819	(1.389)	205753	50.0000	50
	40 1,2-Dibromoethane	107	8.948	8.948	(0.945)	184583	50.0000	50
M	41 Xylene (Total)	106				1006969	50.0000	150
*	42 Chlorobenzene-d5	117	9.470	9.470	(1.000)	552901	50.0000	
	43 Chlorobenzene	112	9.499	9.499	(1.003)	545419	50.0000	50
	44 Ethylbenzene	106	9.627	9.627	(1.017)	269517	50.0000	50
	45 m,p-Xylene	106	9.755	9.755	(1.030)	678525	100.000	100
	46 o-Xylene	106	10.218	10.218	(1.079)	328443	50.0000	50
	47 Styrene	104	10.228	10.228	(1.080)	493014	50.0000	50
	48 Bromoform	173	10.445	10.445	(1.646)	135367	50.0000	50
	49 Isopropylbenzene	105	10.642	10.642	(1.124)	856214	50.0000	50
$	50 Bromofluorobenzene	95	10.829	10.829	(1.144)	289444	50.0000	50
	51 1,1,2,2-Tetrachloroethane	83	10.986	10.986	(1.160)	221182	50.0000	50
	52 1,3-Dichlorobenzene	146	12.139	12.139	(1.282)	388840	50.0000	50
	53 1,4-Dichlorobenzene	146	12.247	12.247	(1.293)	386062	50.0000	50
	54 1,2-Dichlorobenzene	146	12.700	12.700	(1.341)	351506	50.0000	50
	55 1,2-Dibromo-3-chloropropane	75	13.636	13.636	(1.440)	28727	50.0000	50
	56 1,2,4-Trichlorobenzene	180	14.680	14.680	(1.550)	148567	50.0000	50

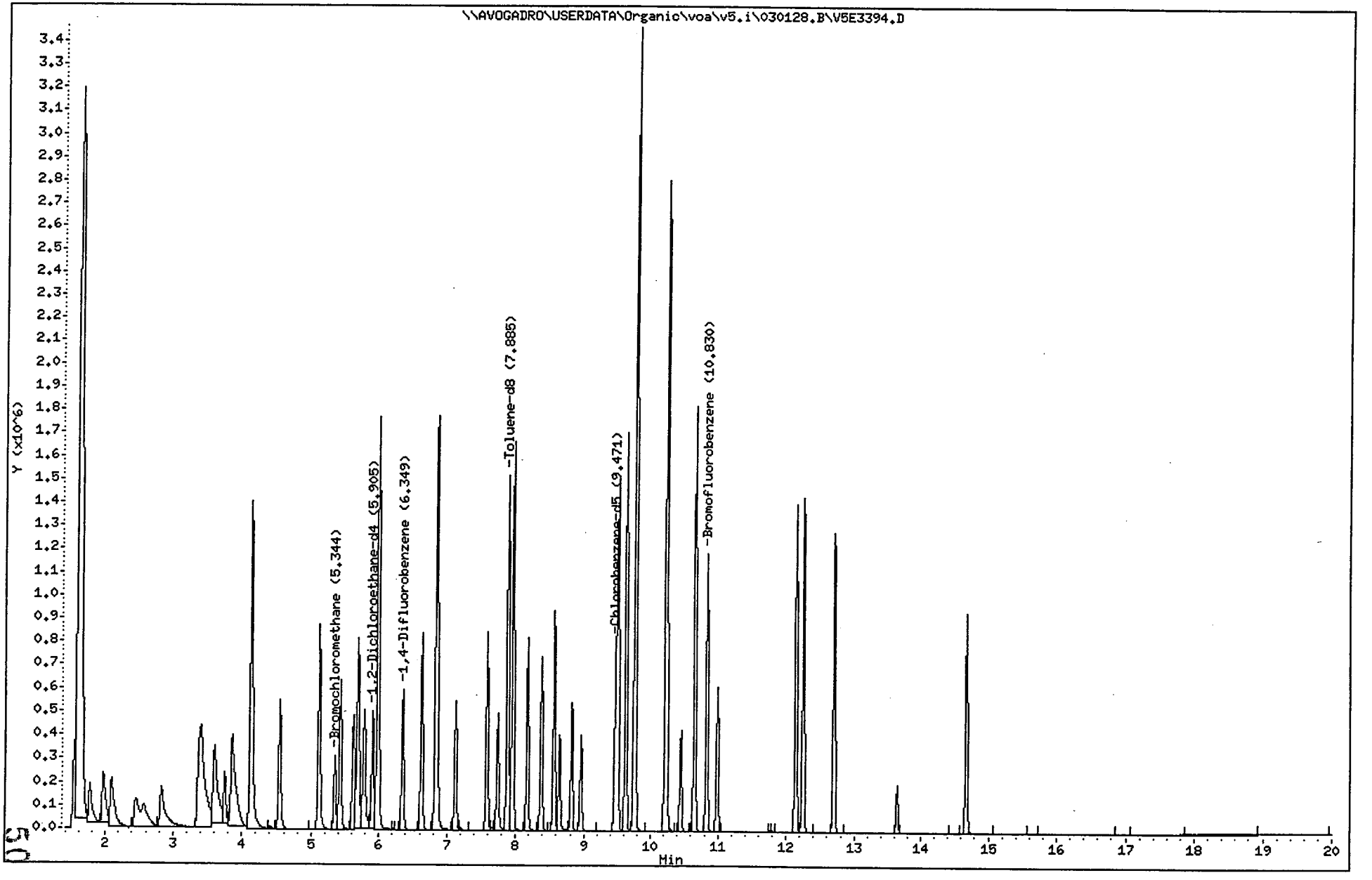
SB
2/10/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3394.D
Date : 28-JAN-2003 12:33
Client ID: VSTD1005X
Sample Info: OLM,V5S0128D,VSTD1005X

Column phase: DB-624

Instrument: v5.i

Operator: AN
Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3394.D
Report Date: 10-Feb-2003 15:33

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3394.D
Lab Smp Id: V5S0128D
Client Smp ID: VSTD1005X
Inj Date : 28-JAN-2003 12:33
Operator : AN
Inst ID: v5.i
Smp Info : OLM,V5S0128D,VSTD1005X
Misc Info : ,1,4
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\v5clp4h.m
Meth Date : 28-Jan-2003 15:21 mtl
Quant Type: ISTD
Cal Date : 28-JAN-2003 10:54
Cal File: V5E3391.D
Als bottle: 4
Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.749	1.777	(0.327)	456986	100.000	100
2 Chloromethane	50	1.956	1.984	(0.366)	574989	100.000	99
3 Vinyl Chloride	62	2.084	2.102	(0.390)	544692	100.000	100
4 Bromomethane	94	2.448	2.486	(0.458)	275696	100.000	100
5 Chloroethane	64	2.576	2.595	(0.482)	257522	100.000	100
6 Trichlorofluoromethane	101	2.832	2.851	(0.530)	440633	100.000	110
7 1,1-Dichloroethene	96	3.364	3.383	(0.630)	332265	100.000	100
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.394	3.412	(0.635)	299656	100.000	100
9 Acetone	43	3.404	3.412	(0.637)	184523	100.000	86
10 Carbon Disulfide	76	3.591	3.609	(0.672)	1201691	100.000	99
11 Methyl Acetate	43	3.739	3.757	(0.700)	320661	100.000	98
12 Methylene Chloride	84	3.847	3.855	(0.720)	483313	100.000	110
13 trans-1,2-Dichloroethene	96	4.123	4.141	(0.771)	337578	100.000	98
14 Methyl tert-Butyl Ether	73	4.132	4.141	(0.773)	970024	100.000	100
15 1,1-Dichloroethane	63	4.536	4.545	(0.849)	670388	100.000	97

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3394.D
Report Date: 10-Feb-2003 15:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 2-Butanone	43	5.107	5.116	(0.956)	249294	100.000	94
	17 cis-1,2-Dichloroethene	96	5.107	5.116	(0.956)	351513	100.000	97
*	18 Bromochloromethane	128	5.344	5.353	(1.000)	101422	50.0000	
	19 Chloroform	83	5.413	5.421	(1.013)	580508	100.000	96
	20 1,1,1-Trichloroethane	97	5.610	5.618	(0.884)	394509	100.000	99
	21 Cyclohexane	56	5.679	5.687	(0.895)	632256	100.000	100
	22 Carbon Tetrachloride	117	5.787	5.786	(0.912)	391493	100.000	100
$	23 1,2-Dichloroethane-d4	65	5.905	5.914	(1.105)	380960	100.000	98
	24 1,2-Dichloroethane	62	5.984	5.993	(1.120)	451191	100.000	98
	25 Benzene	78	5.974	5.983	(0.941)	1399423	100.000	98
*	26 1,4-Difluorobenzene	114	6.349	6.347	(1.000)	552774	50.0000	
	27 Trichloroethene	130	6.624	6.633	(1.043)	321025	100.000	96
	28 Methylcyclohexane	83	6.831	6.840	(1.076)	559655	100.000	99
	29 1,2-Dichloropropane	63	6.841	6.850	(1.078)	388615	100.000	96
	30 Bromodichloromethane	83	7.117	7.125	(1.121)	425751	100.000	98
	31 cis-1,3-Dichloropropene	75	7.590	7.588	(1.195)	577028	100.000	98
	32 4-Methyl-2-Pentanone	43	7.737	7.736	(0.817)	434626	100.000	99
$	33 Toluene-d8	98	7.885	7.884	(0.833)	1161487	100.000	100
	34 Toluene	91	7.954	7.953	(0.840)	1354016	100.000	98
	35 trans-1,3-Dichloropropene	75	8.171	8.169	(1.287)	517377	100.000	99
	36 1,1,2-Trichloroethane	97	8.378	8.376	(1.320)	280699	100.000	97
	37 Tetrachloroethene	164	8.555	8.563	(0.903)	254147	100.000	98
	38 2-Hexanone	43	8.634	8.642	(0.912)	361449	100.000	99
	39 Dibromochloromethane	129	8.811	8.819	(1.388)	353868	100.000	97
	40 1,2-Dibromoethane	107	8.949	8.948	(0.945)	323918	100.000	99
M	41 Xylene (Total)	106				1710553	100.000	300
*	42 Chlorobenzene-d5	117	9.471	9.470	(1.000)	495878	50.0000	
	43 Chlorobenzene	112	9.500	9.499	(1.003)	918912	100.000	96
	44 Ethylbenzene	106	9.629	9.627	(1.017)	459868	100.000	98
	45 m,p-Xylene	106	9.757	9.755	(1.030)	1148711	200.000	200
	46 o-Xylene	106	10.219	10.218	(1.079)	561841	100.000	98
	47 Styrene	104	10.229	10.228	(1.080)	850097	100.000	100
	48 Bromoform	173	10.446	10.445	(1.645)	239297	100.000	99
	49 Isopropylbenzene	105	10.643	10.642	(1.124)	1449653	100.000	97
$	50 Bromofluorobenzene	95	10.830	10.829	(1.144)	515719	100.000	100
	51 1,1,2,2-Tetrachloroethane	83	10.988	10.986	(1.160)	420851	100.000	100
	52 1,3-Dichlorobenzene	146	12.140	12.139	(1.282)	721159	100.000	100
	53 1,4-Dichlorobenzene	146	12.239	12.247	(1.292)	722332	100.000	100
	54 1,2-Dichlorobenzene	146	12.692	12.700	(1.340)	677730	100.000	100
	55 1,2-Dibromo-3-chloropropane	75	13.637	13.636	(1.440)	65131	100.000	110
	56 1,2,4-Trichlorobenzene	180	14.671	14.680	(1.549)	354515	100.000	110

SB 2/10/03

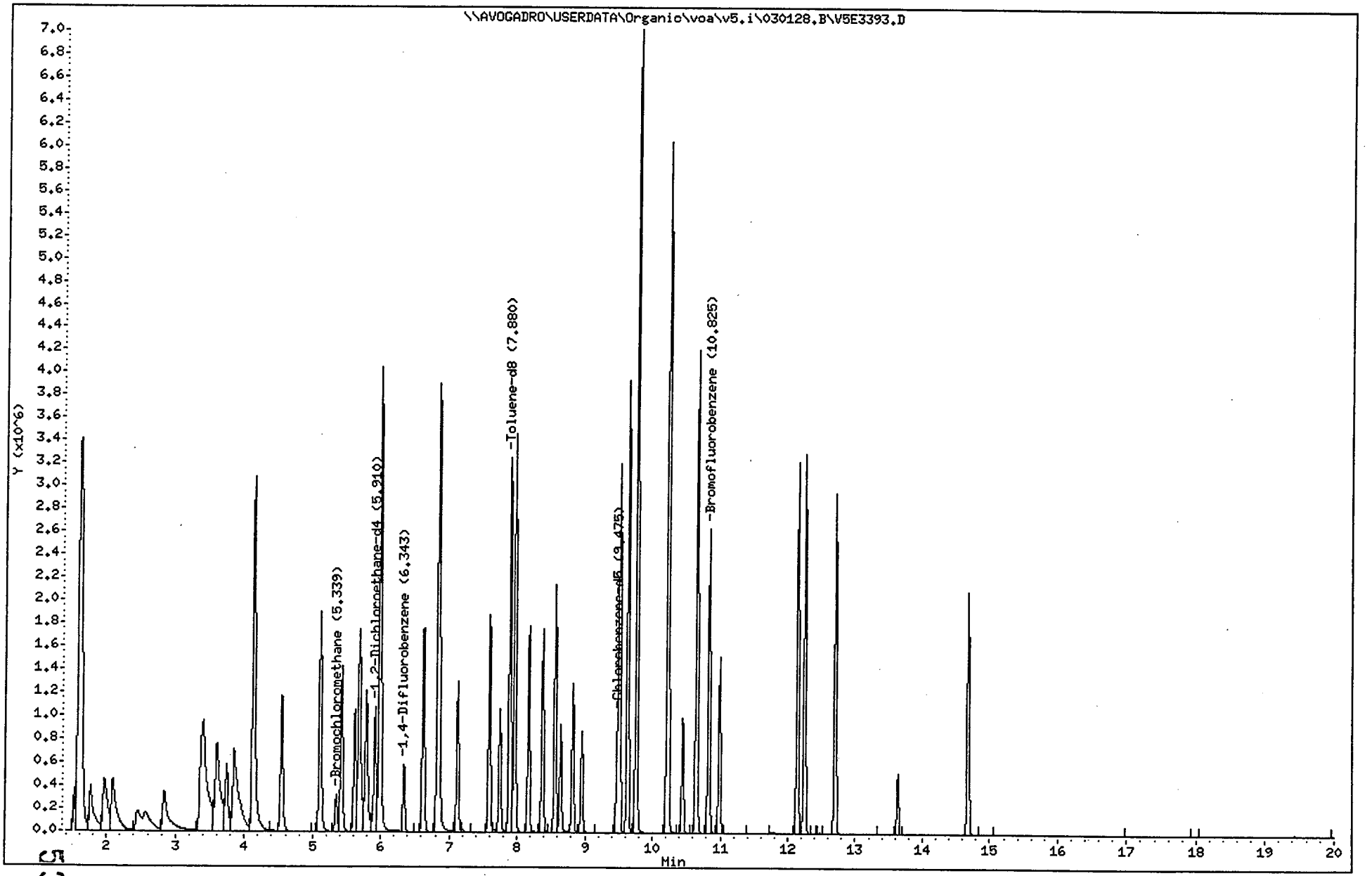
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3393.D
Date : 28-JAN-2003 12:04
Client ID: VSTD2005X
Sample Info: OLM,V5S0128C,VSTD2005X

Instrument: v5.i

Operator: AN

Column phase: DB-624

Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3393.D
Report Date: 10-Feb-2003 15:33

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3393.D
Lab Smp Id: V5S0128C
Client Smp ID: VSTD2005X
Inj Date : 28-JAN-2003 12:04
Operator : AN
Inst ID: v5.i
Smp Info : OLM,V5S0128C,VSTD2005X
Misc Info : ,1,5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\v5clp4h.m
Meth Date : 28-Jan-2003 15:21 mtl
Quant Type: ISTD
Cal Date : 28-JAN-2003 10:54
Cal File: V5E3391.D
Als bottle: 3
Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.753	1.777	(0.328)	1019145	200.000	230(A)
2 Chloromethane	50	1.960	1.984	(0.367)	1316552	200.000	220(A)
3 Vinyl Chloride	62	2.088	2.102	(0.391)	1210293	200.000	220(A)
4 Bromomethane	94	2.453	2.486	(0.459)	441754	200.000	160
5 Chloroethane	64	2.571	2.595	(0.482)	452648	200.000	180
6 Trichlorofluoromethane	101	2.827	2.851	(0.530)	958200	200.000	240(A)
7 1,1-Dichloroethene	96	3.369	3.383	(0.631)	752351	200.000	220(A)
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.388	3.412	(0.635)	645507	200.000	210(A)
9 Acetone	43	3.398	3.412	(0.637)	464971	200.000	200(A)
10 Carbon Disulfide	76	3.595	3.609	(0.673)	2712216	200.000	220(A)
11 Methyl Acetate	43	3.743	3.757	(0.701)	767703	200.000	230(A)
12 Methylene Chloride	84	3.841	3.855	(0.720)	932897	200.000	210(A)
13 trans-1,2-Dichloroethene	96	4.127	4.141	(0.773)	756234	200.000	210(A)
14 Methyl tert-Butyl Ether	73	4.127	4.141	(0.773)	2207817	200.000	220(A)
15 1,1-Dichloroethane	63	4.531	4.545	(0.849)	1488629	200.000	210(A)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3393.D
Report Date: 10-Feb-2003 15:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 2-Butanone	43	5.112	5.116	(0.958)	624892	200.000	230(A)
	17 cis-1,2-Dichloroethene	96	5.112	5.116	(0.958)	791028	200.000	210(A)
*	18 Bromochloromethane	128	5.338	5.353	(1.000)	103303	50.0000	
	19 Chloroform	83	5.417	5.421	(1.015)	1294580	200.000	210(A)
	20 1,1,1-Trichloroethane	97	5.614	5.618	(0.885)	876784	200.000	220(A)
	21 Cyclohexane	56	5.683	5.687	(0.896)	1456143	200.000	240(A)
	22 Carbon Tetrachloride	117	5.782	5.786	(0.911)	901004	200.000	230(A)
$	23 1,2-Dichloroethane-d4	65	5.910	5.914	(1.107)	806165	200.000	200(A)
	24 1,2-Dichloroethane	62	5.989	5.993	(1.122)	991109	200.000	210(A)
	25 Benzene	78	5.979	5.983	(0.943)	3114037	200.000	220(A)
*	26 1,4-Difluorobenzene	114	6.343	6.347	(1.000)	547748	50.0000	
	27 Trichloroethene	130	6.629	6.633	(1.045)	728859	200.000	220(A)
	28 Methylcyclohexane	83	6.836	6.840	(1.078)	1302939	200.000	230(A)
	29 1,2-Dichloropropane	63	6.846	6.850	(1.079)	852454	200.000	210(A)
	30 Bromodichloromethane	83	7.121	7.125	(1.123)	964228	200.000	220(A)
	31 cis-1,3-Dichloropropene	75	7.584	7.588	(1.196)	1304616	200.000	220(A)
	32 4-Methyl-2-Pentanone	43	7.742	7.736	(0.817)	956734	200.000	220(A)
$	33 Toluene-d8	98	7.880	7.884	(0.832)	2448439	200.000	210(A)
	34 Toluene	91	7.958	7.953	(0.840)	2993391	200.000	210(A)
	35 trans-1,3-Dichloropropene	75	8.175	8.169	(1.289)	1169515	200.000	220(A)
	36 1,1,2-Trichloroethane	97	8.372	8.376	(1.320)	632370	200.000	220(A)
	37 Tetrachloroethene	164	8.559	8.563	(0.903)	577195	200.000	220(A)
	38 2-Hexanone	43	8.638	8.642	(0.912)	768053	200.000	210(A)
	39 Dibromochloromethane	129	8.815	8.819	(1.390)	815176	200.000	220(A)
	40 1,2-Dibromoethane	107	8.953	8.948	(0.945)	735381	200.000	220(A)
M	41 Xylene (Total)	106				3730641	200.000	640(A)
*	42 Chlorobenzene-d5	117	9.475	9.470	(1.000)	499312	50.0000	
	43 Chlorobenzene	112	9.505	9.499	(1.003)	2040261	200.000	210(A)
	44 Ethylbenzene	106	9.623	9.627	(1.016)	1018271	200.000	210(A)
	45 m,p-Xylene	106	9.761	9.755	(1.030)	2509199	400.000	420(A)
	46 o-Xylene	106	10.214	10.218	(1.078)	1221442	200.000	210(A)
	47 Styrene	104	10.234	10.228	(1.080)	1860462	200.000	220(A)
	48 Bromoform	173	10.441	10.445	(1.646)	566990	200.000	240(A)
	49 Isopropylbenzene	105	10.647	10.642	(1.124)	3296904	200.000	220(A)
$	50 Bromofluorobenzene	95	10.825	10.829	(1.142)	1084724	200.000	210(A)
	51 1,1,2,2-Tetrachloroethane	83	10.982	10.986	(1.159)	990143	200.000	240(A)
	52 1,3-Dichlorobenzene	146	12.135	12.139	(1.281)	1622056	200.000	230(A)
	53 1,4-Dichlorobenzene	146	12.243	12.247	(1.292)	1638815	200.000	230(A)
	54 1,2-Dichlorobenzene	146	12.696	12.700	(1.340)	1493832	200.000	230(A)
	55 1,2-Dibromo-3-chloropropane	75	13.642	13.636	(1.440)	168670	200.000	280(A)
	56 1,2,4-Trichlorobenzene	180	14.676	14.680	(1.549)	824122	200.000	270(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

SB 2/10/03

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Instrument ID: V5 Calibration Date: 03/25/03 Time: 1918

Lab File ID: V5E5111 Init. Calib. Date(s): 01/28/03 01/28/03

EPA Sample No.(VSTD050##): VSTD0505W Init. Calib. Times: 1054 1302

Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	2.145	1.665		-22.4	
Chloromethane	2.843	2.066		-27.3	
Vinyl Chloride	2.609	2.050	0.100	-21.4	25.0
Bromomethane	1.391	1.423	0.100	2.3	25.0
Chloroethane	1.243	1.039		-16.4	
Trichlorofluoromethane	1.964	2.118		7.8	
1,1-Dichloroethene	1.638	1.927	0.100	17.6	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.491	1.638		9.9	
Acetone	1.042	0.836		-19.8	
Carbon Disulfide	5.983	6.708		12.1	
Methyl Acetate	1.617	1.436		-11.2	
Methylene Chloride	2.566	2.713		5.7	
trans-1,2-Dichloroethene	1.709	2.147		25.6	
Methyl tert-Butyl Ether	4.844	4.268		-11.9	
1,1-Dichloroethane	3.413	3.438	0.200	0.7	25.0
cis-1,2-Dichloroethene	1.787	2.204		23.3	
2-Butanone	1.289	1.212		-6.0	
Chloroform	2.993	3.207	0.200	7.2	25.0
1,1,1-Trichloroethane	0.364	0.392	0.100	7.7	25.0
Cyclohexane	0.563	0.573		1.8	
Carbon Tetrachloride	0.357	0.335	0.100	-6.2	25.0
Benzene	1.303	1.343	0.500	3.1	25.0
1,2-Dichloroethane	2.294	2.060	0.100	-10.2	25.0
Trichloroethene	0.304	0.307	0.300	1.0	25.0
Methylcyclohexane	0.511	0.576		12.7	

All other compounds must meet a minimum RRF of 0.010.

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Instrument ID: V5 Calibration Date: 03/25/03 Time: 1918

Lab File ID: V5E5111 Init. Calib. Date(s): 01/28/03 01/28/03

EPA Sample No.(VSTD050##): VSTD0505W Init. Calib. Times: 1054 1302

Heated Purge: (Y/N) Y

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
1,2-Dichloropropane	0.368	0.349		-5.2		
Bromodichloromethane	0.396	0.396	0.200	0.0	25.0	
cis-1,3-Dichloropropene	0.532	0.507	0.200	-4.7	25.0	
4-Methyl-2-Pentanone	0.452	0.355		-21.5		
Toluene	1.405	1.587	0.400	13.0	25.0	
trans-1,3-Dichloropropene	0.475	0.442	0.100	-6.9	25.0	
1,1,2-Trichloroethane	0.264	0.294	0.100	11.4	25.0	
Tetrachloroethene	0.262	0.320	0.200	22.1	25.0	
2-Hexanone	0.383	0.282		-26.4		
Dibromochloromethane	0.329	0.326	0.100	-0.9	25.0	
1,2-Dibromoethane	0.331	0.367		10.9		
Chlorobenzene	0.977	1.052	0.500	7.7	25.0	
Ethylbenzene	0.476	0.538	0.100	13.0	25.0	
Xylene (Total)	0.582	0.643	0.300	10.5	25.0	
Styrene	0.866	0.952	0.300	9.9	25.0	
Bromoform	0.217	0.232	0.100	6.9	25.0	
Isopropylbenzene	1.509	1.648		9.2		
1,1,2,2-Tetrachloroethane	0.422	0.485	0.300	14.9	25.0	
1,3-Dichlorobenzene	0.706	0.809	0.600	14.6	25.0	
1,4-Dichlorobenzene	0.706	0.820	0.500	16.1	25.0	
1,2-Dichlorobenzene	0.652	0.740	0.400	13.5	25.0	
1,2-Dibromo-3-chloropropane	0.060	0.059		-1.7		
1,2,4-Trichlorobenzene	0.314	0.401	0.200	27.7	25.0	<-
Toluene-d8	1.180	1.257		6.5		
Bromofluorobenzene	0.518	0.501	0.200	-3.3	25.0	
1,2-Dichloroethane-d4	1.926	1.493		-22.5		

All other compounds must meet a minimum RRF of 0.010.

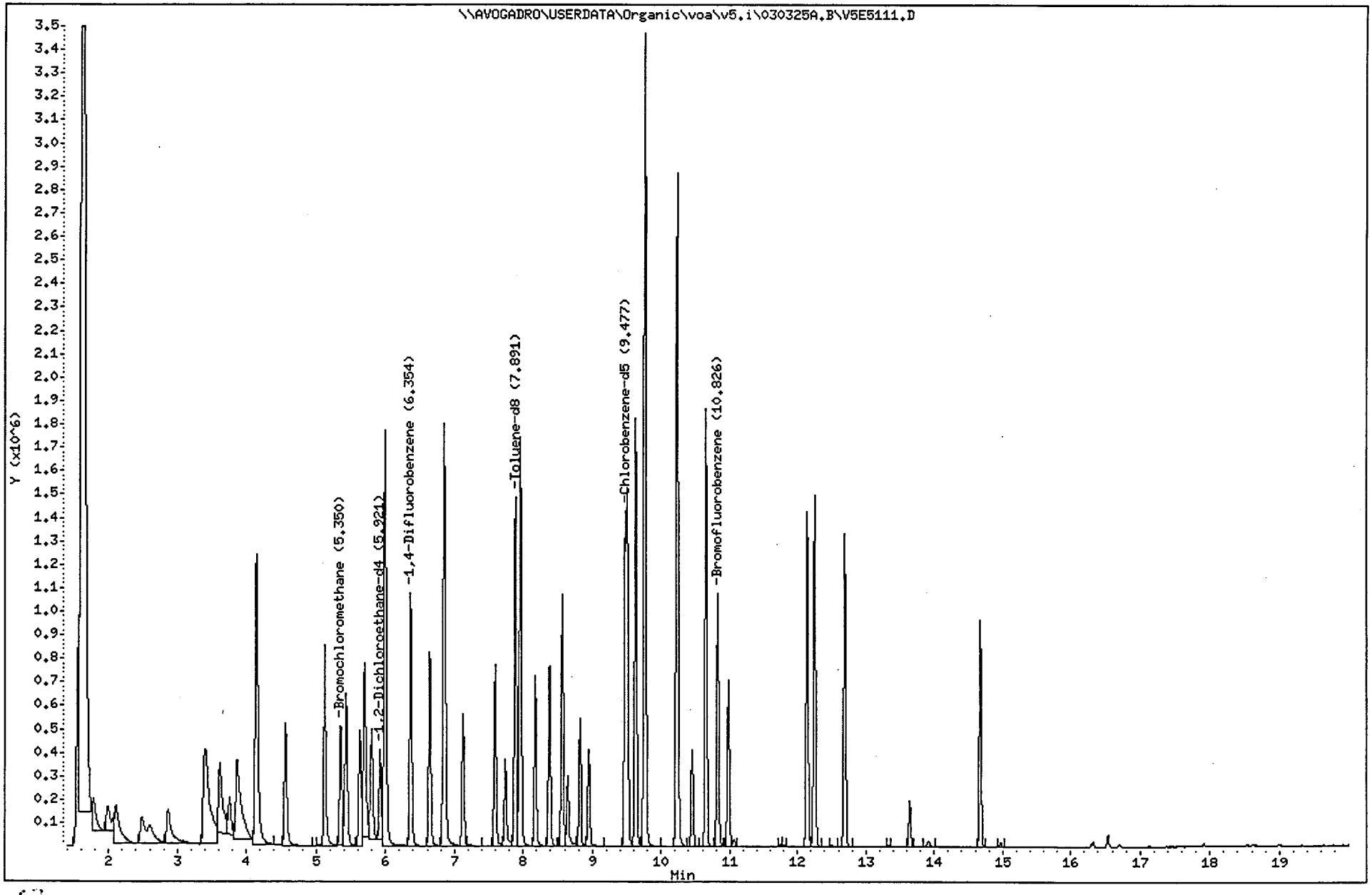
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5111.D
Date : 25-MAR-2003 19:18
Client ID: VSTD0505W
Sample Info: OLM,V5S0325B,VSTD0505W

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



Data File: V5E5111.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5111.D
Lab Smp Id: V5S0325B Client Smp ID: VSTD0505W
Inj Date : 25-MAR-2003 19:18
Operator : TRA Inst ID: v5.i
Smp Info : OLM,V5S0325B,VSTD0505W
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 35 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.784	1.784	(0.333)	316662	50.0000	39
2 Chloromethane	50	1.981	1.981	(0.370)	392864	50.0000	36
3 Vinyl Chloride	62	2.109	2.109	(0.394)	389836	50.0000	39
4 Bromomethane	94	2.483	2.483	(0.463)	270665	50.0000	51
5 Chloroethane	64	2.602	2.602	(0.485)	197665	50.0000	42
6 Trichlorofluoromethane	101	2.858	2.858	(0.533)	402766	50.0000	54
7 1,1-Dichloroethene	96	3.390	3.390	(0.632)	366413	50.0000	59
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.419	3.419	(0.638)	311490	50.0000	55
9 Acetone	43	3.419	3.419	(0.638)	159083	50.0000	40
10 Carbon Disulfide	76	3.616	3.616	(0.675)	1275831	50.0000	56
11 Methyl Acetate	43	3.764	3.764	(0.702)	273181	50.0000	44
12 Methylene Chloride	84	3.872	3.872	(0.722)	516031	50.0000	53
13 trans-1,2-Dichloroethene	96	4.148	4.148	(0.774)	408231	50.0000	63
14 Methyl tert-Butyl Ether	73	4.148	4.148	(0.774)	811740	50.0000	44
15 1,1-Dichloroethane	63	4.552	4.552	(0.849)	653845	50.0000	50

Data File: V5E5111.D
Report Date: 03-Apr-2003 10:02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 2-Butanone	43	5.123	5.123	(0.956)	230595	50.0000	47
	17 cis-1,2-Dichloroethene	96	5.123	5.123	(0.956)	419092	50.0000	62
*	18 Bromochloromethane	128	5.359	5.359	(1.000)	190184	50.0000	
	19 Chloroform	83	5.428	5.428	(1.013)	609902	50.0000	54
	20 1,1,1-Trichloroethane	97	5.625	5.625	(0.885)	430576	50.0000	54
	21 Cyclohexane	56	5.694	5.694	(0.896)	629501	50.0000	51
	22 Carbon Tetrachloride	117	5.793	5.793	(0.912)	367614	50.0000	47
$	23 1,2-Dichloroethane-d4	65	5.921	5.921	(1.105)	283926	50.0000	39
	24 1,2-Dichloroethane	62	6.000	6.000	(1.119)	391700	50.0000	45
	25 Benzene	78	5.990	5.990	(0.943)	1474161	50.0000	52
*	26 1,4-Difluorobenzene	114	6.354	6.354	(1.000)	1098055	50.0000	
	27 Trichloroethene	130	6.630	6.630	(1.043)	337650	50.0000	51
	28 Methylcyclohexane	83	6.847	6.847	(1.078)	632444	50.0000	56
	29 1,2-Dichloropropane	63	6.857	6.857	(1.079)	383083	50.0000	47
	30 Bromodichloromethane	83	7.132	7.132	(1.122)	434514	50.0000	50
	31 cis-1,3-Dichloropropene	75	7.595	7.595	(1.195)	556534	50.0000	48
	32 4-Methyl-2-Pentanone	43	7.743	7.743	(0.817)	344988	50.0000	39
$	33 Toluene-d8	98	7.891	7.891	(0.833)	1221529	50.0000	53
	34 Toluene	91	7.960	7.960	(0.840)	1541772	50.0000	56
	35 trans-1,3-Dichloropropene	75	8.177	8.177	(1.287)	485818	50.0000	47
	36 1,1,2-Trichloroethane	97	8.383	8.383	(1.319)	322816	50.0000	56
	37 Tetrachloroethene	164	8.561	8.561	(0.903)	310479	50.0000	61
	38 2-Hexanone	43	8.639	8.639	(0.912)	274198	50.0000	37
	39 Dibromochloromethane	129	8.817	8.817	(1.388)	357945	50.0000	50
	40 1,2-Dibromoethane	107	8.955	8.955	(0.945)	356797	50.0000	55
M	41 Xylene (Total)	106				1926212	50.0000	170
*	42 Chlorobenzene-d5	117	9.477	9.477	(1.000)	971511	50.0000	
	43 Chlorobenzene	112	9.506	9.506	(1.003)	1022486	50.0000	54
	44 Ethylbenzene	106	9.624	9.624	(1.016)	522257	50.0000	56
	45 m,p-Xylene	106	9.762	9.762	(1.030)	1301294	100.000	110
	46 o-Xylene	106	10.215	10.215	(1.078)	624918	50.0000	55
	47 Styrene	104	10.235	10.235	(1.080)	924944	50.0000	55
	48 Bromoform	173	10.442	10.442	(1.643)	254941	50.0000	54
	49 Isopropylbenzene	105	10.649	10.649	(1.124)	1601490	50.0000	55
$	50 Bromofluorobenzene	95	10.826	10.826	(1.142)	486998	50.0000	48
	51 1,1,2,2-Tetrachloroethane	83	10.984	10.984	(1.159)	471139	50.0000	57
	52 1,3-Dichlorobenzene	146	12.136	12.136	(1.281)	785860	50.0000	57
	53 1,4-Dichlorobenzene	146	12.244	12.244	(1.292)	796425	50.0000	58
	54 1,2-Dichlorobenzene	146	12.697	12.697	(1.340)	719029	50.0000	57
	55 1,2-Dibromo-3-chloropropane	75	13.643	13.643	(1.440)	57235	50.0000	49
	56 1,2,4-Trichlorobenzene	180	14.677	14.677	(1.549)	389166	50.0000	64

SB
4/3/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3390.D

Date : 28-JAN-2003 10:37

Client ID: BFB5X

Instrument: v5.i

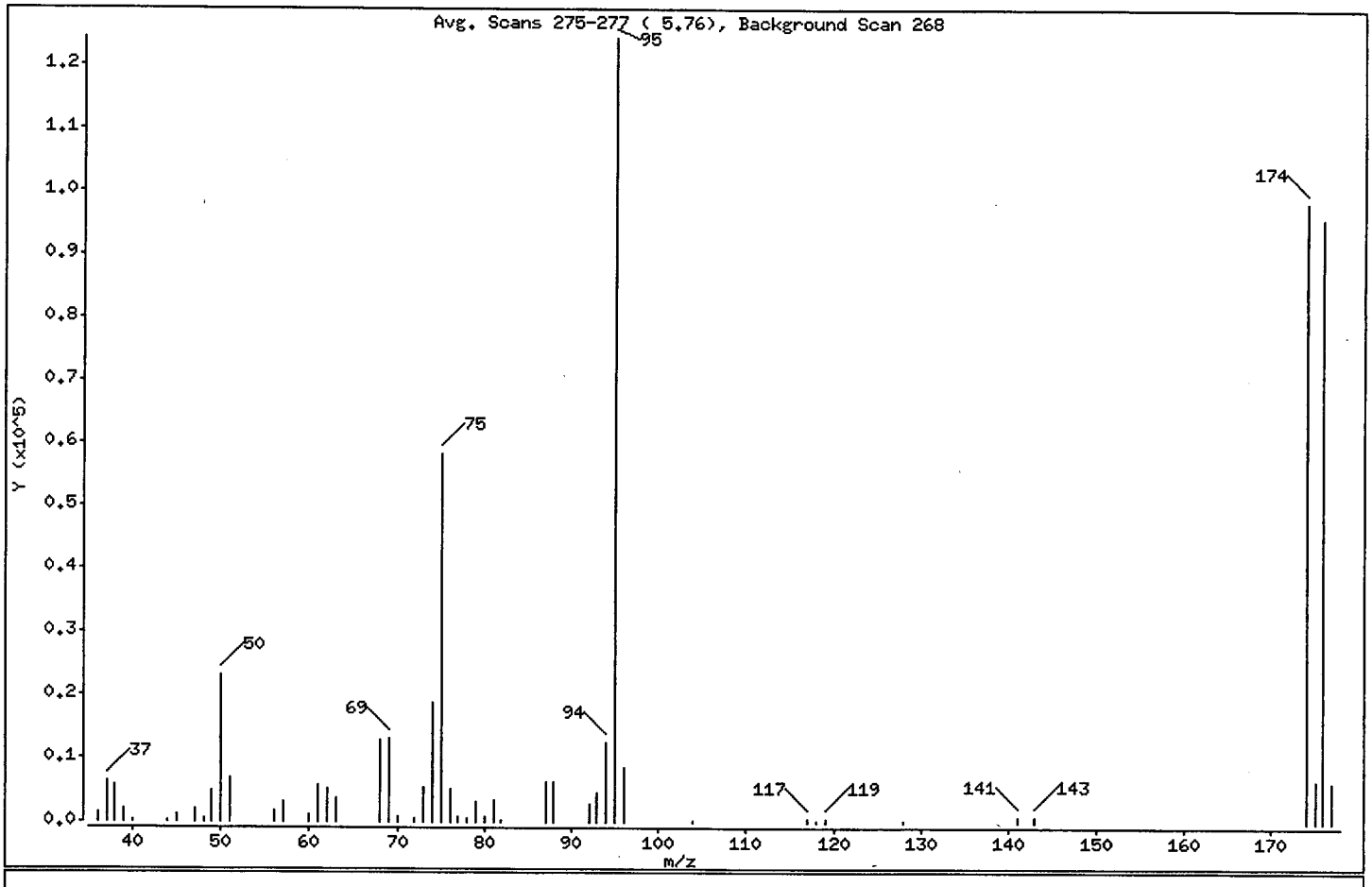
Sample Info: OLM,V5T0128A,BFB5X

Operator: AN

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	18.72
75	30.00 - 66.00% of mass 95	46.97
96	5.00 - 9.00% of mass 95	6.93
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	79.01
175	4.00 - 9.00% of mass 174	5.35 (6.77)
176	93.00 - 101.00% of mass 174	76.97 (97.41)
177	5.00 - 9.00% of mass 176	5.01 (6.50)

COPY

Original Documents Are Included in CSF YORY8

Signed: SB Date: 2/10/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3390.D

Date : 28-JAN-2003 10:37

Client ID: BFB5X

Instrument: v5.i

Sample Info: OLM,V5T0128A,BFB5X

Operator: AN

Column phase: DB-624

Column diameter: 0.25

Data File: V5E3390.D

Spectrum: Avg. Scans 275-277 (5.76), Background Scan 268

Location of Maximum: 95.00

Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1292	57.00	3249	77.00	861	104.00	179
37.00	6318	60.00	1264	78.00	429	117.00	501
38.00	5605	61.00	5739	79.00	3137	118.00	174
39.00	2068	62.00	5249	80.00	852	119.00	611
40.00	174	63.00	3812	81.00	3318	128.00	184
44.00	390	68.00	12940	82.00	381	141.00	893
45.00	1178	69.00	13225	87.00	6387	143.00	880
47.00	1930	70.00	937	88.00	6233	174.00	98248
48.00	708	72.00	681	92.00	2893	175.00	6652
49.00	4903	73.00	5399	93.00	4551	176.00	95704
50.00	23272	74.00	18864	94.00	12579	177.00	6224
51.00	6956	75.00	58408	95.00	124352		
56.00	1786	76.00	5125	96.00	8615		

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3390.D

Date : 28-JAN-2003 10:37

Client ID: BFB5X

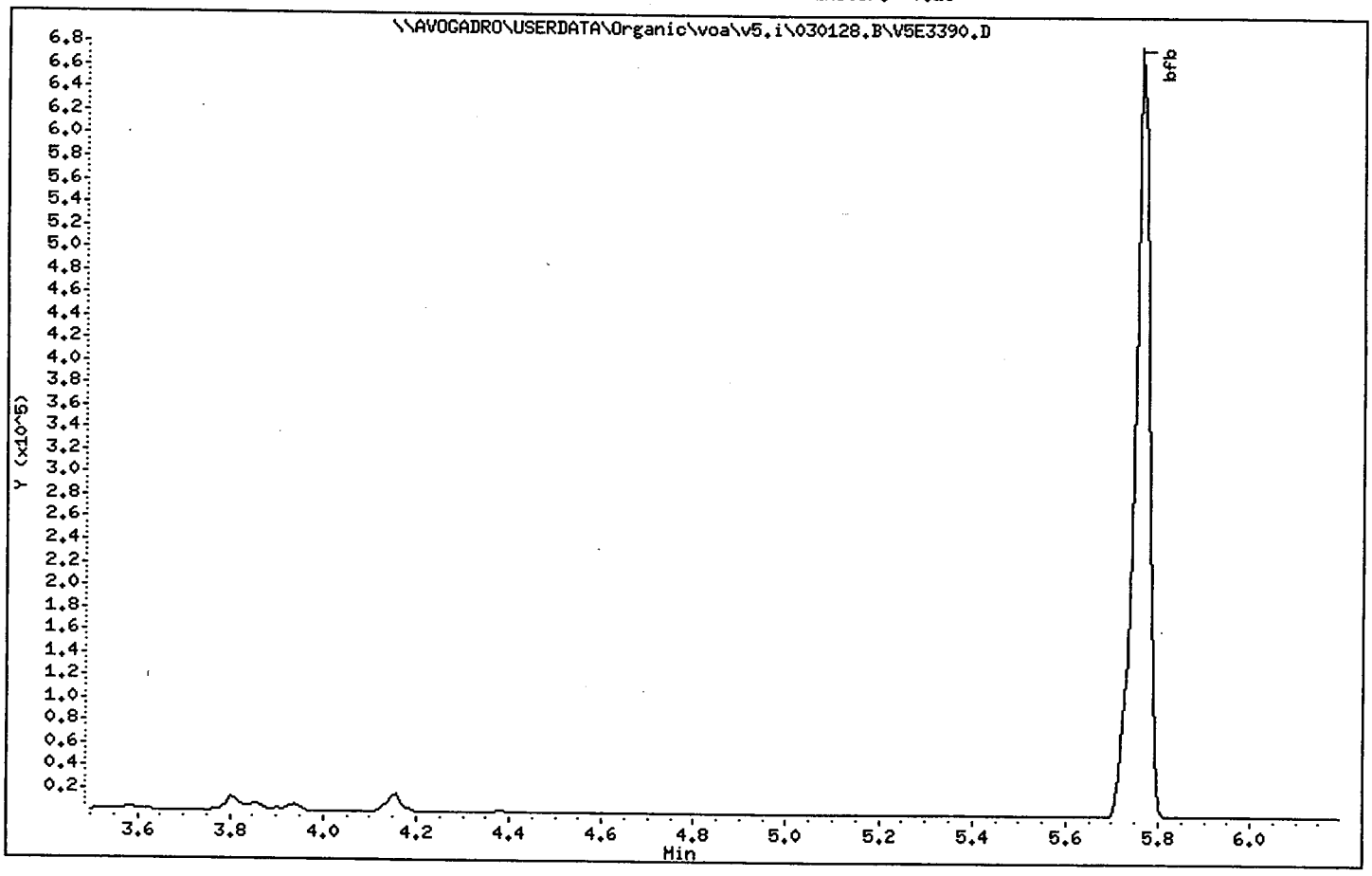
Instrument: v5.i

Sample Info: OLM,V5T0128A,BFB5X

Operator: AN

Column phase: DB-624

Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5110.D

Date : 25-MAR-2003 19:06

Client ID: BFB5W

Instrument: v5.i

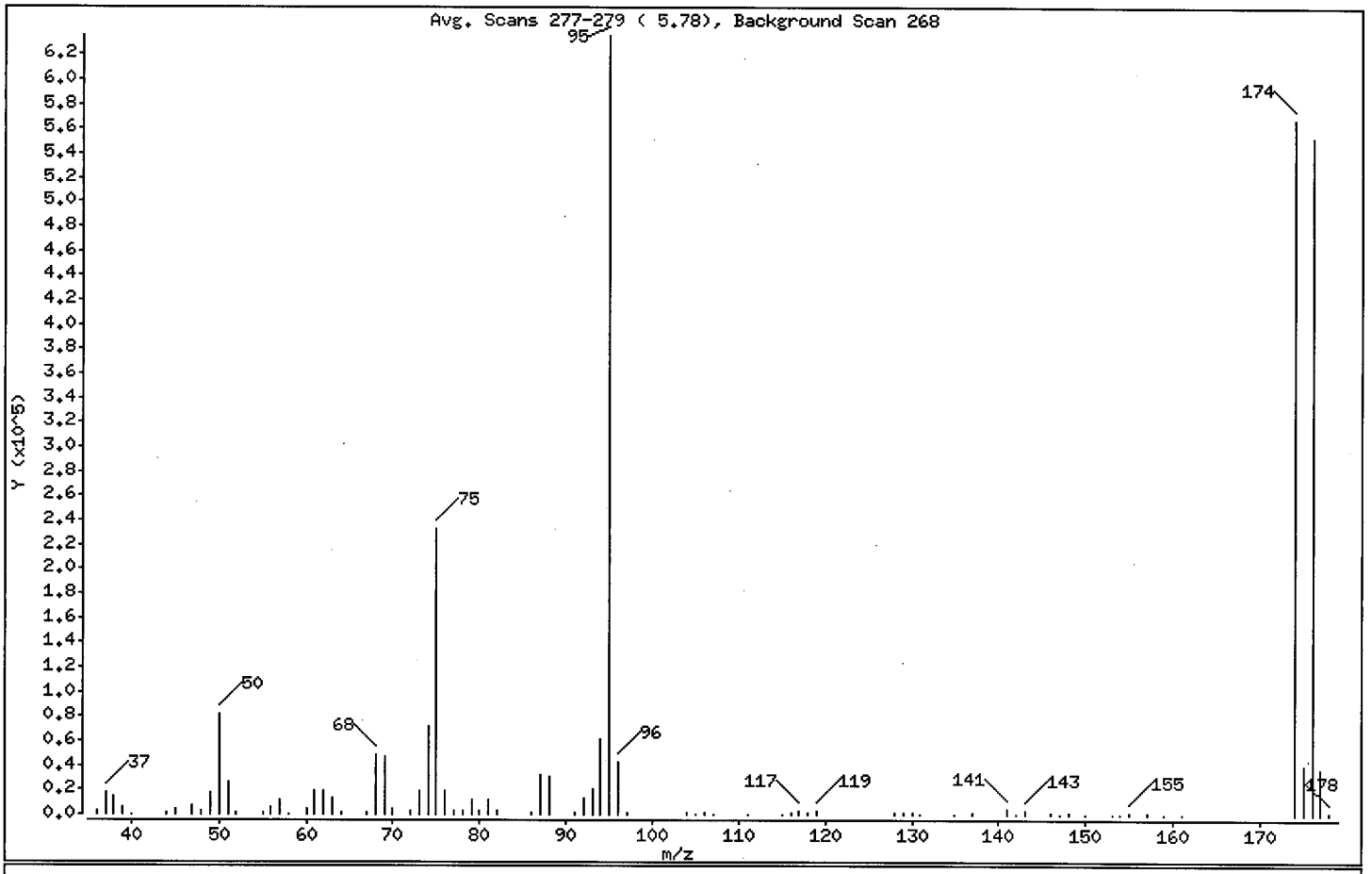
Sample Info: OLM,V5T0325B,BFB5W

Operator: TRA

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	12.87
75	30.00 - 66.00% of mass 95	36.66
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	89.38
175	4.00 - 9.00% of mass 174	6.29 (7.04)
176	93.00 - 101.00% of mass 174	87.02 (97.36)
177	5.00 - 9.00% of mass 176	5.68 (6.53)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5110.D

Date : 25-MAR-2003 19:06

Client ID: BFB5W

Instrument: v5.i

Sample Info: OLM,V5T0325B,BFB5W

Operator: TRA

Column phase: DB-624

Column diameter: 0.25

Data File: V5E5110.D
Spectrum: Avg. Scans 277-279 (5.78), Background Scan 268
Location of Maximum: 95.00
Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3373	64.00	1317	93.00	20136	141.00	3777
37.00	17000	67.00	1082	94.00	60872	142.00	186
38.00	14773	68.00	48712	95.00	635200	143.00	3630
39.00	5854	69.00	47552	96.00	41912	146.00	870
40.00	229	70.00	3736	97.00	1217	147.00	174
44.00	1640	72.00	2421	104.00	1968	148.00	1282
45.00	3834	73.00	19016	105.00	570	150.00	208
47.00	7253	74.00	71080	106.00	1928	153.00	180
48.00	2593	75.00	232832	107.00	273	154.00	178
49.00	16856	76.00	19472	111.00	184	155.00	1334
50.00	81768	77.00	3582	115.00	447	157.00	893
51.00	25656	78.00	2517	116.00	1493	159.00	380
52.00	900	79.00	11431	117.00	3022	161.00	189
55.00	1157	80.00	3124	118.00	1552	174.00	567744
56.00	6166	81.00	11744	119.00	2393	175.00	39944
57.00	11897	82.00	2258	128.00	1737	176.00	552704
58.00	447	86.00	804	129.00	828	177.00	36080
60.00	3981	87.00	31552	130.00	1850	178.00	964
61.00	19280	88.00	30416	131.00	502		
62.00	18712	91.00	1638	135.00	585		
63.00	13591	92.00	12925	137.00	835		

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5110.D

Date : 25-MAR-2003 19:06

Client ID: BFB5W

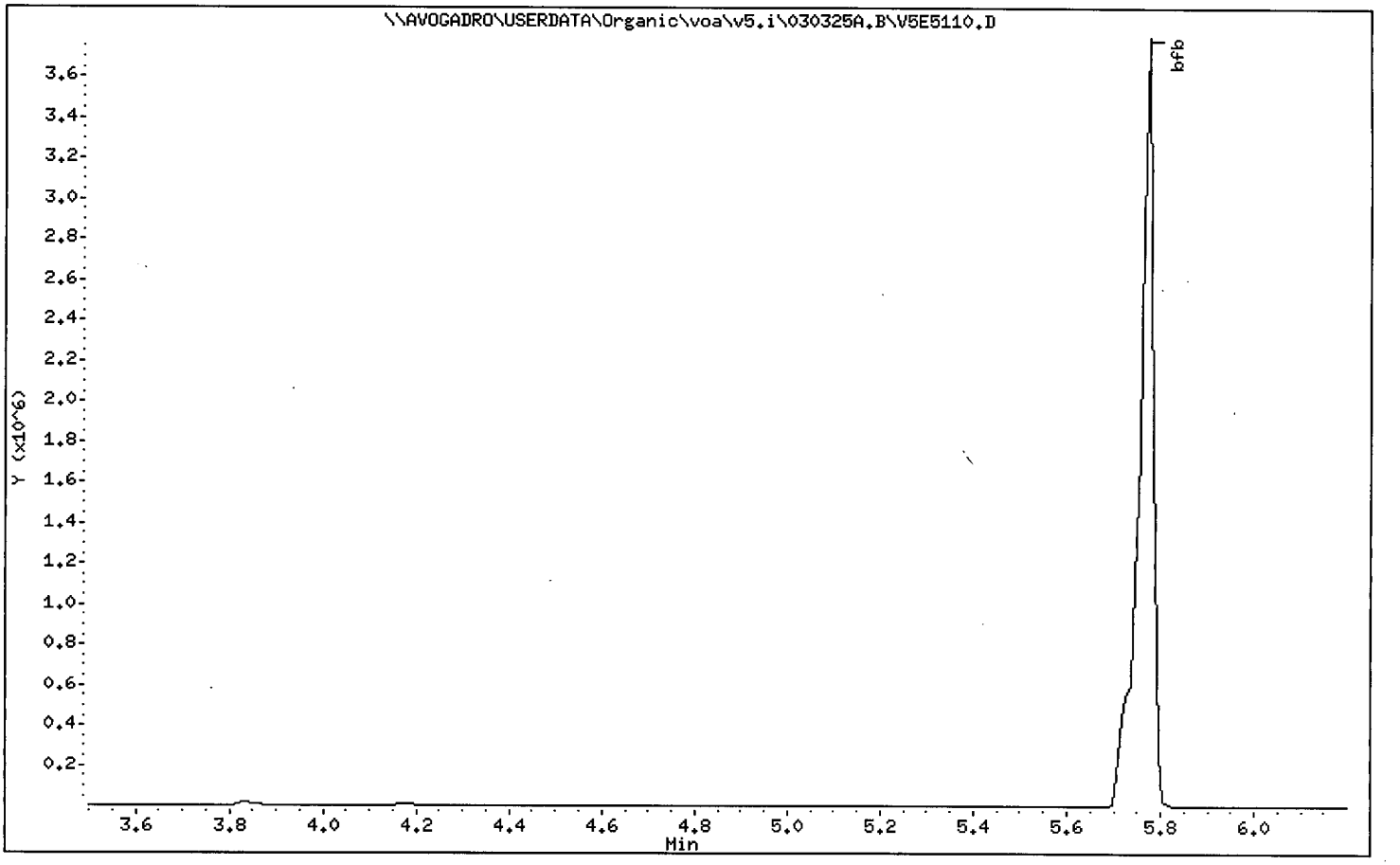
Instrument: v5.i

Sample Info: OLM,V5T0325B,BFB5W

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325C

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5112

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/25/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325C

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5112

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/25/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325C

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5112

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/25/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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13.				
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19.				
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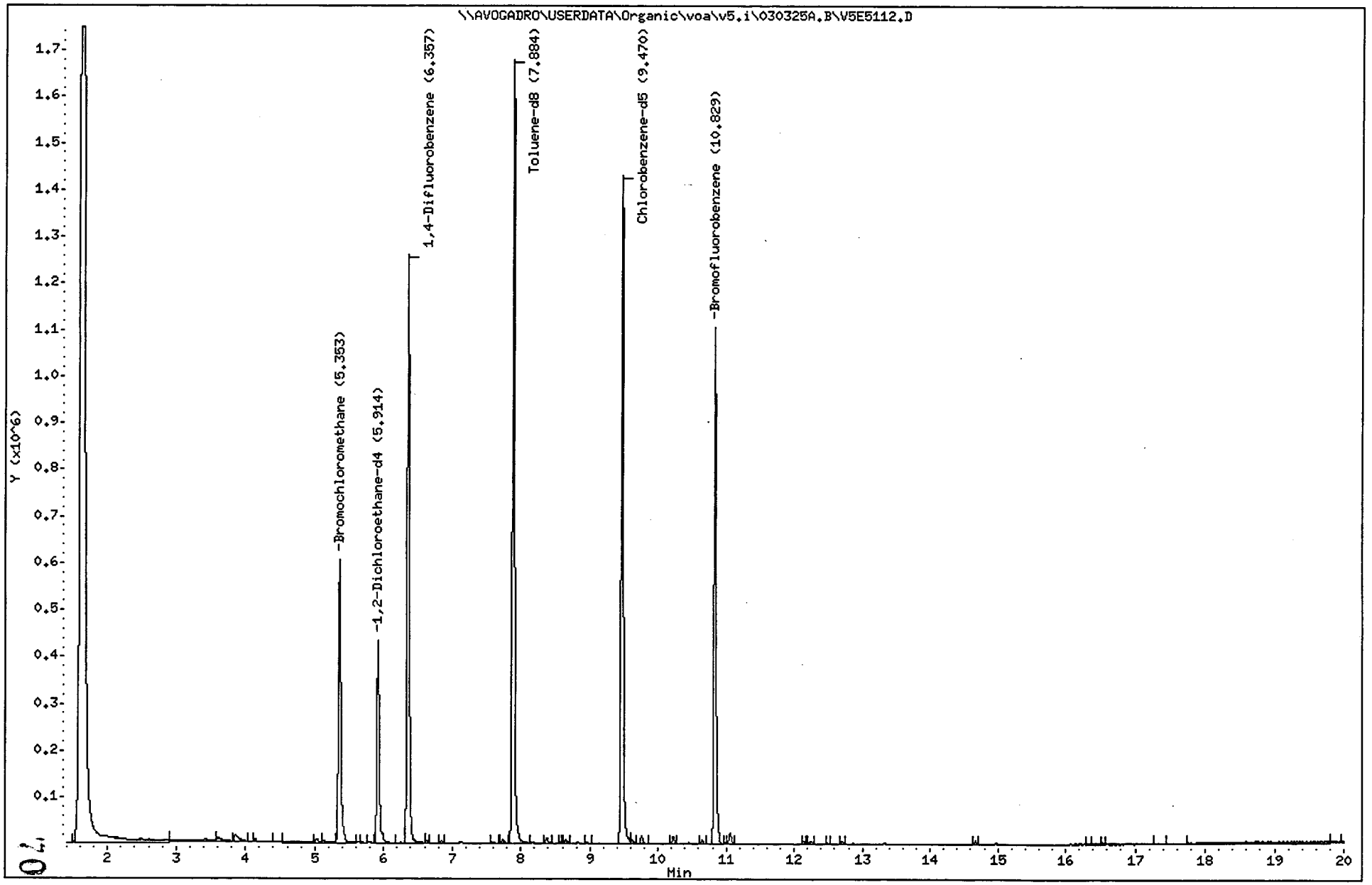
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5112.D
Date : 25-MAR-2003 19:52
Client ID: VBLK5W
Sample Info: OLM,V5B0325C,VBLK5W,V5B0325C

Instrument: v5.i

Operator: TRA
Column diameter: 0.25

Column phase: DB-624



Data File: V5E5112.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5112.D
Lab Smp Id: V5B0325C Client Smp ID: VBLK5W
Inj Date : 25-MAR-2003 19:52
Operator : TRA Inst ID: v5.i
Smp Info : OLM,V5B0325C,VBLK5W,V5B0325C
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D ✓
Als bottle: 36 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
* 18 Bromochloromethane	128	5.353	5.359	(1.000)	214605	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.914	5.921	(1.105)	342267	53.4151	53
* 26 1,4-Difluorobenzene	114	6.357	6.354	(1.000)	1300717	50.0000	
$ 33 Toluene-d8	98	7.884	7.891	(0.833)	1458552	52.0910	52
* 42 Chlorobenzene-d5	117	9.470	9.477	(1.000)	1113457	50.0000	
$ 50 Bromofluorobenzene	95	10.829	10.826	(1.144)	526884	47.1989	47

58 4/3/03

Data File: V5E5112.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5112.D
Lab Smp Id: V5B0325C Client Smp ID: VBLK5W
Inj Date : 25-MAR-2003 19:52
Operator : TRA Inst ID: v5.i
Smp Info : OLM,V5B0325C,VBLK5W,V5B0325C
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 36 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325D

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5128

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. _____ Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325D

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5128

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. _____ Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325D

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5128

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. _____ Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
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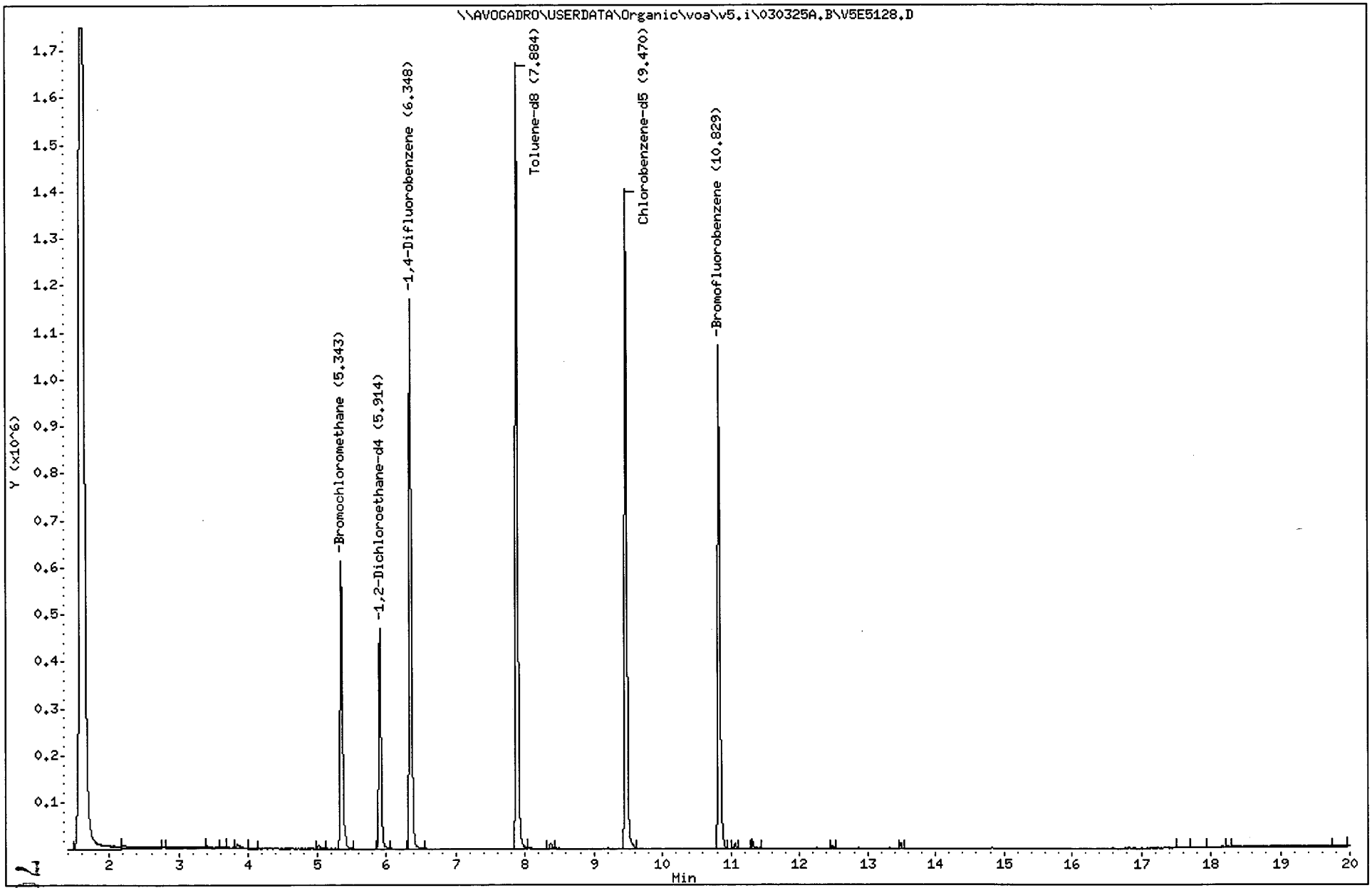
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5128.D
Date : 26-MAR-2003 03:39
Client ID: VHBLK5W
Sample Info: OLM,V5B0325D,VHBLK5W,V5B0325C

Instrument: v5.i

Operator: TRA
Column diameter: 0.25

Column phase: DB-624



CJ

Data File: V5E5128.D
Report Date: 03-Apr-2003 10:46

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5128.D
Lab Smp Id: V5B0325D Client Smp ID: VHBLK5W
Inj Date : 26-MAR-2003 03:39
Operator : TRA Inst ID: v5.i
Smp Info : OLM,V5B0325D,VHBLK5W,V5B0325C
Misc Info : ,3,,STORAGEBLANK
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 1 QC Sample: STORAGEBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
* 18 Bromochloromethane	128	5.343	5.359	(1.000)	201256	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.914	5.921	(1.107)	357741	59.5331	60
* 26 1,4-Difluorobenzene	114	6.348	6.354	(1.000)	1162070	50.0000	
$ 33 Toluene-d8	98	7.884	7.891	(0.833)	1377271	52.0862	52
* 42 Chlorobenzene-d5	117	9.470	9.477	(1.000)	1051503	50.0000	
$ 50 Bromofluorobenzene	95	10.829	10.826	(1.144)	519237	49.2545	49

SB
4/3/03

Data File: V5E5128.D
Report Date: 03-Apr-2003 10:46

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5128.D
Lab Smp Id: V5B0325D Client Smp ID: VHBLK5W
Inj Date : 26-MAR-2003 03:39
Operator : TRA Inst ID: v5.i
Smp Info : OLM,V5B0325D,VHBLK5W,V5B0325C
Misc Info : ,3,,STORAGEBLANK
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 1 QC Sample: STORAGEBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SH9MS

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-01AMS

Sample wt/vol: 6.4 (g/mL) G Lab File ID: V5E5121

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 9 Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	9	U
74-87-3	Chloromethane	9	U
75-01-4	Vinyl Chloride	9	U
74-83-9	Bromomethane	9	U
75-00-3	Chloroethane	9	U
75-69-4	Trichlorofluoromethane	9	U
75-35-4	1,1-Dichloroethene	33	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9	U
67-64-1	Acetone	19	
75-15-0	Carbon Disulfide	9	U
79-20-9	Methyl Acetate	9	U
75-09-2	Methylene Chloride	6	J
156-60-5	trans-1,2-Dichloroethene	9	U
1634-04-4	Methyl tert-Butyl Ether	9	U
75-34-3	1,1-Dichloroethane	9	U
156-59-2	cis-1,2-Dichloroethene	9	U
78-93-3	2-Butanone	9	U
67-66-3	Chloroform	9	U
71-55-6	1,1,1-Trichloroethane	9	U
110-82-7	Cyclohexane	9	U
56-23-5	Carbon Tetrachloride	9	U
71-43-2	Benzene	44	
107-06-2	1,2-Dichloroethane	9	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SH9MS

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-01AMS

Sample wt/vol: 6.4 (g/mL) G Lab File ID: V5E5121

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 9 Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
79-01-6	Trichloroethene	50	
108-87-2	Methylcyclohexane	9	U
78-87-5	1,2-Dichloropropane	9	U
75-27-4	Bromodichloromethane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
108-10-1	4-Methyl-2-Pentanone	3	J
108-88-3	Toluene	45	
10061-02-6	trans-1,3-Dichloropropene	9	U
79-00-5	1,1,2-Trichloroethane	9	U
127-18-4	Tetrachloroethene	130	
591-78-6	2-Hexanone	9	U
124-48-1	Dibromochloromethane	9	U
106-93-4	1,2-Dibromoethane	9	U
108-90-7	Chlorobenzene	45	
100-41-4	Ethylbenzene	9	U
1330-20-7	Xylene (Total)	9	U
100-42-5	Styrene	9	U
75-25-2	Bromoform	9	U
98-82-8	Isopropylbenzene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
95-50-1	1,2-Dichlorobenzene	9	U
96-12-8	1,2-Dibromo-3-chloropropane	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U

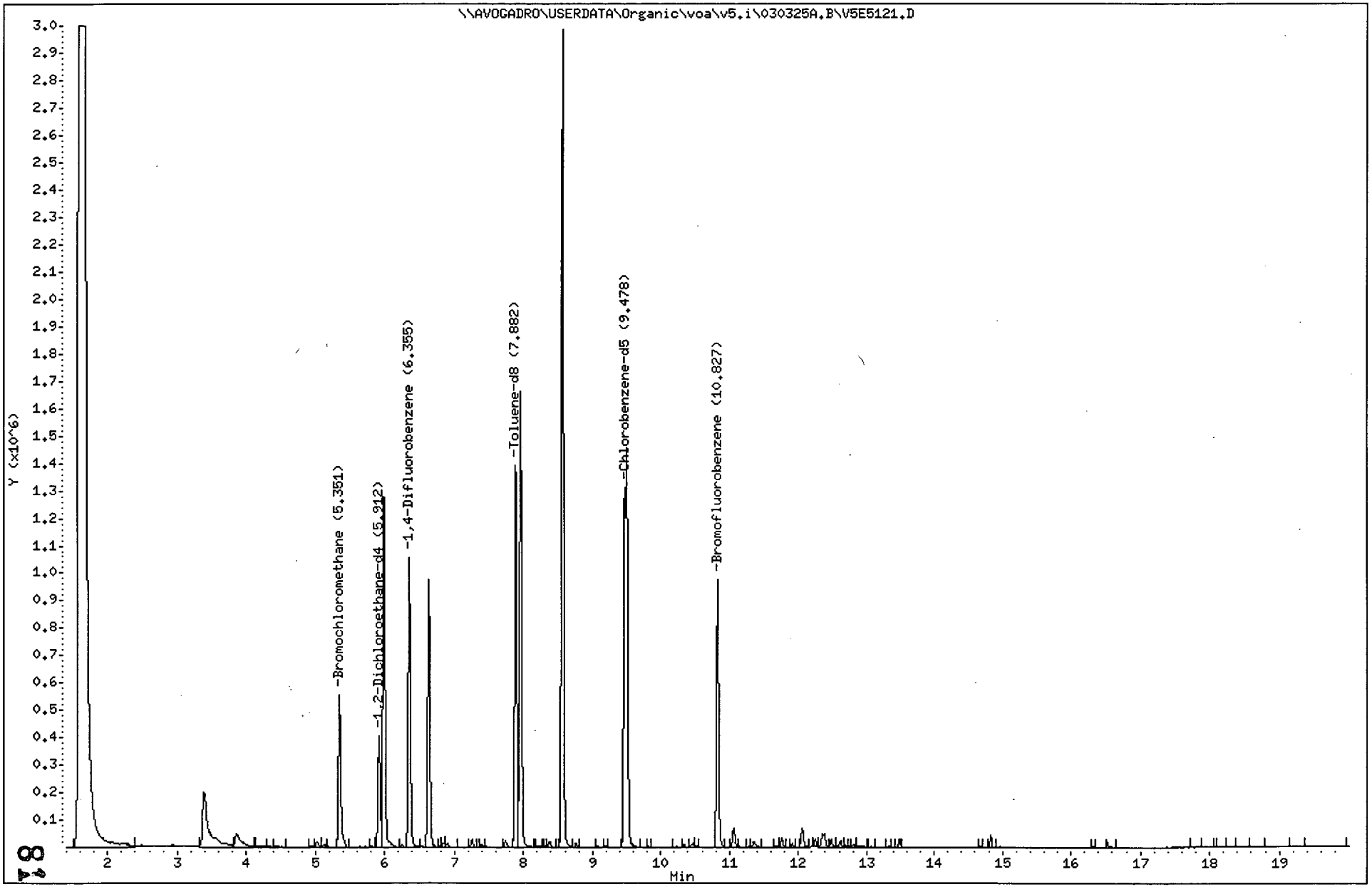
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5121.D
Date : 26-MAR-2003 00:15
Client ID: YOSH9MS
Sample Info: EPA,B0447-01AMS,YOSH9MS,V5B0325C,,YOSH9

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



Data File: V5E5121.D
Report Date: 03-Apr-2003 10:43

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5121.D
Lab Smp Id: B0447-01AMS Client Smp ID: Y0SH9MS
Inj Date : 26-MAR-2003 00:15
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0447-01AMS,Y0SH9MS,V5B0325C,,Y0SH9
Misc Info : 19-MAR-03,3,,MS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D ✓
Als bottle: 45 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	6.400	Weight of sample (g) ✓
M	9.000	% Moisture (not decanted) ✓

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
7 1,1-Dichloroethene	96	3.381	3.390	(0.632)	271258	38.1528	33
9 Acetone	43	3.410	3.419	(0.637)	67384	21.8297	19
12 Methylene Chloride	84	3.863	3.872	(0.722)	70126	7.00355	6(a)
* 18 Bromochloromethane	128	5.351	5.359	(1.000)	184514	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.912	5.921	(1.105)	311285	56.5025	49
25 Benzene	78	5.991	5.990	(0.943)	1431598	51.0116	44
* 26 1,4-Difluorobenzene	114	6.355	6.354	(1.000)	1045205	50.0000	
27 Trichloroethene	130	6.631	6.630	(1.043)	377817	58.7770	50
32 4-Methyl-2-Pentanone	43	7.744	7.743	(0.817)	23223	3.60956	3(a)
$ 33 Toluene-d8	98	7.882	7.891	(0.832)	1186524	52.0849	45
34 Toluene	91	7.961	7.960	(0.840)	1520235	52.8725	45
37 Tetrachloroethene	164	8.562	8.561	(0.903)	843624	145.699	130
* 42 Chlorobenzene-d5	117	9.478	9.477	(1.000)	905896	50.0000	
43 Chlorobenzene	112	9.507	9.506	(1.003)	1001157	52.5030	45
$ 50 Bromofluorobenzene	95	10.827	10.826	(1.142)	448360	49.3673	42

58
4/3/03

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SH9MSD

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-01AMSD

Sample wt/vol: 6.5 (g/mL) G Lab File ID: V5E5122

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 9 Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	8	U
74-87-3	Chloromethane	8	U
75-01-4	Vinyl Chloride	8	U
74-83-9	Bromomethane	8	U
75-00-3	Chloroethane	8	U
75-69-4	Trichlorofluoromethane	8	U
75-35-4	1,1-Dichloroethene	33	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8	U
67-64-1	Acetone	11	
75-15-0	Carbon Disulfide	8	U
79-20-9	Methyl Acetate	8	U
75-09-2	Methylene Chloride	6	J
156-60-5	trans-1,2-Dichloroethene	8	U
1634-04-4	Methyl tert-Butyl Ether	8	U
75-34-3	1,1-Dichloroethane	8	U
156-59-2	cis-1,2-Dichloroethene	8	U
78-93-3	2-Butanone	8	U
67-66-3	Chloroform	8	U
71-55-6	1,1,1-Trichloroethane	8	U
110-82-7	Cyclohexane	8	U
56-23-5	Carbon Tetrachloride	8	U
71-43-2	Benzene	43	
107-06-2	1,2-Dichloroethane	8	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SH9MSD

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31519 SAS No.: _____ SDG No.: Y0SH9

Matrix: (soil/water) SOIL Lab Sample ID: B0447-01AMSD

Sample wt/vol: 6.5 (g/mL) G Lab File ID: V5E5122

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 9 Date Analyzed: 03/26/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	UG/KG	Q
79-01-6	Trichloroethene	52	
108-87-2	Methylcyclohexane	8	U
78-87-5	1,2-Dichloropropane	8	U
75-27-4	Bromodichloromethane	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
108-10-1	4-Methyl-2-Pentanone	1	J
108-88-3	Toluene	45	
10061-02-6	trans-1,3-Dichloropropene	8	U
79-00-5	1,1,2-Trichloroethane	8	U
127-18-4	Tetrachloroethene	120	
591-78-6	2-Hexanone	8	U
124-48-1	Dibromochloromethane	8	U
106-93-4	1,2-Dibromoethane	8	U
108-90-7	Chlorobenzene	45	
100-41-4	Ethylbenzene	8	U
1330-20-7	Xylene (Total)	8	U
100-42-5	Styrene	8	U
75-25-2	Bromoform	8	U
98-82-8	Isopropylbenzene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U
541-73-1	1,3-Dichlorobenzene	8	U
106-46-7	1,4-Dichlorobenzene	8	U
95-50-1	1,2-Dichlorobenzene	8	U
96-12-8	1,2-Dibromo-3-chloropropane	8	U
120-82-1	1,2,4-Trichlorobenzene	8	U

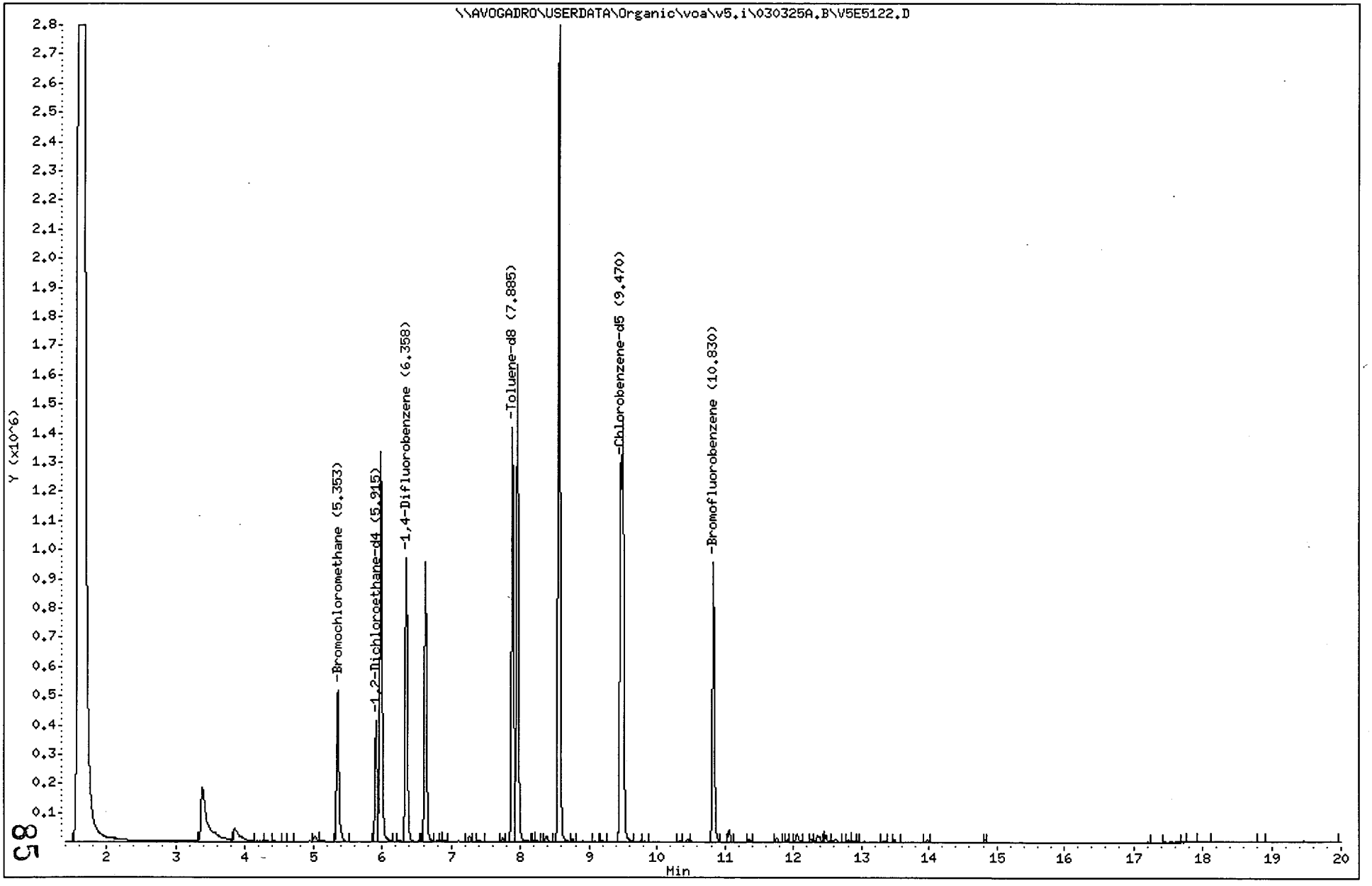
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5122.D
Date : 26-MAR-2003 00:44
Client ID: YOSH9MSD
Sample Info: EPA,B0447-01AMSD,YOSH9MSD,V5B0325C,,YOSH9

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



85

Data File: V5E5122.D
Report Date: 03-Apr-2003 10:45

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5122.D
Lab Smp Id: B0447-01AMSD Client Smp ID: Y0SH9MSD
Inj Date : 26-MAR-2003 00:44
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0447-01AMSD,Y0SH9MSD,V5B0325C,,Y0SH9
Misc Info : 19-MAR-03,3,,MSD
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 46 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	6.500	Weight of sample (g)
M	9.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
7 1,1-Dichloroethene	96	3.383	3.390	(0.632)	266275	38.4906	33
9 Acetone	43	3.413	3.419	(0.638)	38193	12.7161	11
12 Methylene Chloride	84	3.856	3.872	(0.720)	66259	6.80086	6(a)
* 18 Bromochloromethane	128	5.353	5.359	(1.000)	179535	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.915	5.921	(1.105)	303221	56.5652	48
25 Benzene	78	5.984	5.990	(0.941)	1398099	51.2432	43
* 26 1,4-Difluorobenzene	114	6.358	6.354	(1.000)	1016134	50.0000	
27 Trichloroethene	130	6.634	6.630	(1.043)	381502	61.0482	52
32 4-Methyl-2-Pentanone	43	7.737	7.743	(0.817)	11099	1.75844	1(aM)
$ 33 Toluene-d8	98	7.885	7.891	(0.833)	1148745	51.3977	43
34 Toluene	91	7.954	7.960	(0.840)	1507378	53.4350	45
37 Tetrachloroethene	164	8.564	8.561	(0.904)	838582	147.617	120
* 42 Chlorobenzene-d5	117	9.470	9.477	(1.000)	888779	50.0000	
43 Chlorobenzene	112	9.510	9.506	(1.004)	992118	53.0310	45
$ 50 Bromofluorobenzene	95	10.830	10.826	(1.144)	434891	48.8064	41

MS: low area count
SB 4/3/03

SB
4/3/03

MITKEM CORPORATION: Volatile Organics Low/Medium Level Soil Extraction Log

Date	Lab ID	Analysis	Wt. Soil Extracted (g)	Extraction Volume (mL)	Extraction Solution Methanol/$NaHSO_4$	Methanol Lot. # / $NaHSO_4$ ID	Comments	Analyst
3/26/03	B0429-01	8260	5.0	5mL	NaHSO4	VW030306A		TRA
	B0447-01		6.2 ✓					
	-01MS		6.4 ✓					
	-01MSD		6.5 ✓					
	-02		4.7 ✓					
	B0447-03		4.4 ✓					
	B0443-01		5.0					
	-02		5.0					
	-03		5.7					
	-03MS		5.9					
	-03MSD		5.0					
	-04		5.5					
	B0443-05		5.7					
	B0460-01		6.6					
	-02		5.1					
	-03		5.0					
	-04		5.8					
	-07		5.0					
3/26/03	B0460-08	8260	5.1	5mL	NaHSO4	VW030306A		TRA

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Logbook ID: 90.0189-1/02

Reviewed By: RW 3/31/03

Logbook page: 000072

Mitkem Corporation % Moisture and % Solids Logbook

Date In:	03/19/2003	Temperature In (°F):	105	Logbook ID:	9SR-10	QAT00245
Date Out:	03/20/2003	Temperature Out (°F):	105	Analyst:	NR	

Mitkem Sample ID	Tare Mass (g)	Wet Wt	Wet Wt (g) Tared	Dry Wt (g)	Dry Wt (g) Tared	% Moisture	% Solids
B0428-11A	1.0	6.3	5.3	5.0	4.0	25	75
B0428-12A	1.0	6.4	5.4	5.9	4.9	9	91 am
B0428-13A	1.0	6.4	5.4	5.1	4.1	24	76
B0434-03A	1.0	6.2	5.2	5.4	4.4	15	85
B0434-03ADUP	1.0	6.4	5.4	5.8	4.8	11	89
B0434-04A	1.0	6.6	5.6	5.8	4.8	14	86
B0434-05A	1.0	6.2	5.2	5.3	4.3	17	83
B0434-06A	1.0	7.0	6.0	5.6	4.6	23	77
B0434-07A	1.0	6.3	5.3	5.1	4.1	23	77
B0434-09A	1.0	6.1	5.1	4.9	3.9	24	76
B0434-10A	1.0	6.7	5.7	6.0	5.0	12	88
B0434-11A	1.0	6.7	5.7	5.3	4.3	25	75
B0434-12A	1.0	6.8	5.8	5.4	4.4	24	76
B0434-13A	1.0	7.2	6.2	5.4	4.4	29	71
B0434-14A	1.0	6.3	5.3	3.8	2.8	47	53
B0434-15A	1.0	7.0	6.0	6.1	5.1	15	85
B0434-16A	1.0	7.1	6.1	6.4	5.4	11	89
B0434-17A	1.0	6.3	5.3	4.1	3.1	42	58
B0434-18A	1.0	6.3	5.3	3.7	2.7	49	51
B0434-19A	1.0	6.5	5.5	5.5	4.5	18	82
B0434-20A	1.0	7.9	6.9	7.0	6.0	13	87
B0444-01A	1.0	6.3	5.3	6.3	5.3	0	100
B0444-02A	1.0	7.9	6.9	7.6	6.6	4	96
B0444-03A	1.0	7.7	6.7	7.5	6.5	3	97
B0444-04A	1.0	8.3	7.3	7.2	6.2	15	85
B0443-01A	1.0	6.2	5.2	5.8	4.8	8	92 am
B0443-02A	1.0	6.0	5.0	5.4	4.4	12	88
B0443-03A	1.0	6.0	5.0	5.6	4.6	8	92
B0443-04A	1.0	6.2	5.2	5.3	4.3	17	83
B0443-05A	1.0	6.0	5.0	4.8	3.8	24	76
B0447-01A	1.0	6.3	5.3	5.8	4.8	9	91

% Solid = 100(Dry Mass Tared/Wet Mass Tared)

Reviewed By: am 3/21/03

% Moisture = 100 - % Solid

Logbook Page Number: 340

030319A

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Mitkem Corporation % Moisture and % Solids Logbook

Date In:	03/19/2003		Temperature In (°F):	105		Logbook ID:	9SR-10	QAT00245
Date Out:	03/20/2003		Temperature Out (°F):	105		Analyst:	NR	
Mitkem Sample ID	Tare Mass (g)	Wet Wt	Wet Wt (g) Tared	Dry Wt (g)	Dry Wt (g) Tared	% Moisture	% Solids	
B0447-02A	1.0	6.1	5.1	5.9	4.9	4	96	
B0447-03A	1.0	5.8	4.8	5.6	4.6	4	96	
B0455-01A	1.0	6.5	5.5	6.1	5.1	7	93	
B0455-02A	1.0	6.5	5.5	4.7	3.7	33	67	am
B0455-03A	1.0	6.3	5.3	4.3	3.3	38	62	
B0455-04A	1.0	6.1	5.1	3.7	2.7	47	53	
B0455-05A	1.0	6.8	5.8	6.1	5.1	12	88	

% Solid = 100(Dry Mass Tared/Wet Mass Tared)

% Moisture = 100 - % Solid

Reviewed By: am 3/21/03

Logbook Page Number: 341

030319A

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Percent Moisture and Percent Solids Report

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
B0447-01A	Y0SH9	03/19/2003	9	91	Yes
B0447-02A	Y0SJ0	03/19/2003	4	96	Yes
B0447-03A	Y0SJ1	03/19/2003	4	96	Yes

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DATE: 1/28/03

INSTRUMENT V5
INJECTION LOG

MITKEM CORPORATION
VOLATILES LABORATORY

METHOD: V5CLP4H

CAL ID: VW030114A-GAS

ANALYST: AT/YD

INITIAL CAL: 1/28/03

IS/SS ID: VW030109B-STD
VW030102B-SS
VW021205A-IS

ARCHIVE:

COMMENTS:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
DI	V5E330	90	V5T0128	A	BFB5X	2uL	-	OK 10:37			
1	V5E33	91	V550128	A	VSTD050X	5mL	-				
2	↓	92	↓	B	VSTD010X	↓	-				
3	↓	93	↓	C	~~VSTD200X~~ VSTD2005X	↓	-	OLMSL			
4	↓	94	↓	D	~~VSTD100X~~ VSTD1005X	↓	-				
5	V5E33	95	V550128	E	VSTD0205X	5mL	-	13:02			

NA

AW 1/29/03

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Logbook ID 90.0199-1/02

Reviewed By: YD 1/30/03

Logbook page: 000099

DATE: 3/25/03

INSTRUMENT V5
INJECTION LOG 6316

MITKEM CORPORATION
VOLATILES LABORATORY

METHOD: V5clp4th
CAL ID: VW030310F-GAS
ANALYST: YD/TRA
INITIAL CAL: 1/28/03
IS/SS ID: VW030310E-STD
ARCHIVE:
VW030204G-SS
VW021205A-IS
COMMENTS: 2nd batch

AS ##	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
	V5E51	10	V5T0325	B	BFB5W	2µL	-	OK 19:06			
		11	V5S0325	B	VSTD050SW	5mL	-	OK	✓		
		12	V5B0325	C	VBLK5W	5mL	-	OK	✓	✓	
		13	B0429-	01B	13SB30A	5.0g	-	OK	✓	✓	
		14	V5B0325	D	VHBLK5W	5mL	-	OK	✓	✓	
		15	B0443-	01B	Y0SK8	5.0	-	OK	✓	✓	
		16	B0443-	02B	Y0SK9	5.0	-	OK	✓	✓	
		17	B0443-	03B	Y0SL0	5.7	-	OK	✓	✓	
		18	B0447-	01A	Y0SH9	6.2	-	OK	✓	✓	
		19	B0443-	03BMS	Y0SL0MS	5.9	-	OK	✓	✓	
		20	B0443-	03BMSD	Y0SL0MSD	5.0	-	OK	✓	1↑	
		21	B0447-	01AMS	Y0SH9MS	6.4	-	OK	✓	✓	
		22	B0447-	01AMSD	Y0SH9MSD	6.5	-	OK	✓	✓	
		23	B0443-	04B	Y0SL1	5.5	-	DCE 847, RRM Level	✓	✓	
		24	B0443-	05B	Y0SL2	5.7	-	DCE 742, RRM Level	✓	✓	
		25	V5B0325	D	VHBLK5W	5mL	-	OK	✓	✓	
		26	B0447-	02A	Y0SL0	4.7	-	OK	✓	✓	
		27	B0447-	03A	Y0SJ1	4.4	-	OK	✓	✓	
		28	V5B0325	D	VHBLK5W	5mL	-	OK	✓	✓	
		29	B0460-	01B	C0206	6.6	-	OK	✓	✓	
		30		02B	C0207	5.1	-	OK	✓	✓	
		31		03B	C0208	5.0	-	OK	✓	✓	
		32		04B	C0209	5.8	-	OK	✓	✓	
		33		07B	C0302	5.0	-	OK	✓	✓	
		34	B0460-	08B	C0303	5.1	-	RR 58	✓	2↑	
	V5E51	35	GRO STD TEST		GRO STD TEST	5mL	-	7:04			

YD 3/26/03

Logbook ID 90.0199-1/03

Reviewed By: YD 3/26/03

Logbook page: 0076

MITKEM CORPORATION: VOLATILE ORGANICS TRACKING LOGBOOK

Project	Client	#'s / Analyst/ Date In	Comments	#'s / Analyst/ Date out	#'s / Analyst/ Date In	#'s / Analyst/ Date out	#'s / Analyst/ Date In	#'s / Analyst/ Date out
B0432	TT	01-04	R13 3/17/03 TRA					
B0433	LB	01-20	R4 3/17/03 TRA					
B0434	LB	01,02	R9 3/17/03 TRA					
B0439	TT	01-03	R13 3-18-03 N					
B0434	BERGER	03-20	R13 3-19-03 NB					
B0456	TETRATECH	01,02,04,06,08,10,12						
B0455	BERGER	01-12						
B0444	EARTHTECH	01-12	R9					
B0442	SMC	01-03,05-15						
B0440	SMC	01-07						
B0441	SMC	01-07						
B0447	EPA	01-03	R13	3/25/03 15:00 YD	3/25/03 15:30 YD			
B0443	EPA	01-05	R13 3-19-03 NB	3/25/03 15:00 YD	3/25/03 15:30 YD			
B0459	SHAW	01-06	R4 03-20-03 AW					
B0461	WESTON	01-41	R4					
B0462	ENVIRASEN	01-07	R4					
B0458	Tetra	01-12	R13					
B0460	EPA	01-16	R13	3/24/03 12:00 / 3/24/03 12:30 YN	3/25/03 14:00 / 3/25/03 14:30 YN	3/28/03 11:00 / 3/28/03 11:30 YN	3/30/03 13:00 / 3/30/03 13:30 YD	3/23/03 11:00 / 3/23/03 11:30 YN
B0457	EPA	01-09	R13 03-20-03 AW	3/23/03 13:40 YD	3/23/03 14:20 YD	3/24/03 YD 17:30	3/24/03 YD 18:00	
B0463	GZPA	01,02	R4 3/21/03 TRA					
B0464	WESTON	01-20	R4 3/21/03 TRA					

Logbook ID 90.0190-1/02

Reviewed By: YD 3/26/03

Logbook Page 000028

aan 3/19/03

Case ~~3k~~ 31519 SDG YØSH9

This portion can be removed for recipient's records.

Date 3/18/03 FedEx Tracking Number 835859426435

Sender's Name Amanda Colan Phone 818 382-1800

Company WESTON SOLUTIONS INC

Address 14724 VENTURA BLVD STE 1000 Dept./Floor/Suite/Room

SHERMAN OAKS State CA ZIP 91403

Your Internal Billing Reference 20074.025.066.0004

3/19/03

Contract Laboratory Program

Sample Delivery Group (SDG) Traffic Report (TR) Cover Sheet

SDG Number Y0SH9

Laboratory Name Mitkem Corporation Laboratory Code MITKEM

Contract No. 68-W-99-076 Case No. 31519

Analysis Price $536.00 SDG Turnaround 21 days

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) Y0SH9	7)	13)	19)
2) Y0SH9MS	8)	14)	20)
3) Y0SH9MSD	9)	15)	21)
4) Y0SJ0	10)	16)	22)
5) Y0SJ1	11)	17)	23)
6)	12)	18)	24)

Y0SH9
First Sample in SDG

Y0SJ1
Last Sample in SDG

3/19/03
First Sample Receipt Date

3/19/03
Last Sample Receipt Date

Note: *There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).*

Signature [signature] Date 3/21/03

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	31519
DAS No:	
SDG No:	Y0SH9

L

Date Shipped:	3/18/2003
Carrier Name:	FedEx
Airbill:	835859426435
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	3/18/03 1700	Federal Express	3/18/03 1700
2			
3			
4		[signature]	3-19-03 0900

For Lab Use Only

Lab Contract No:	68-W-99-076
Unit Price:	$ 536
Transfer To:	—
Lab Contract No:	—
Unit Price:	—

	ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
-1	Y0SH9	Soil (>12")/ Amanda Cohan	L/G	VOA (21)	(Ice Only) (3)	CHT-1-S5	S: 3/18/2003 1415	MY0SH9	OK
-2	Y0SJ0	Soil (>12")/ Amanda Cohan	L	VOA (21)	(Ice Only) (3)	CHT-1-S15	S: 3/18/2003 1430	MY0SJ0	OK
-3	Y0SJ1	Soil (>12")/ Amanda Cohan	L	VOA (21)	(Ice Only) (3)	CHT-2-S15	S: 3/18/2003 1435	MY0SJ1	OK

SDG - Final Sample

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: Y0SH9	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? ✓ Shipment Iced? ✓

TR Number: 9-233994445-031803-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

Mitkem Corporation — *21/Mar/03 10:57* — WorkOrder: B0447

Client ID: EPAINV
Project: OLM 21 TAT (076)
Location:
Comments: Contract 68-W-99-076

Case: 31519
SDG: Y0SH9
PO: 68-W-99-076

Report Level: CLP_REPORT
EDD: CLP
HC Due: 04/09/03
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
B0447-01A	Y0SH9	03/18/03 14:15	03/19/03	Soil	PMoist		☐	☐	☐	B3
B0447-01B	Y0SH9	03/18/03 14:15	03/19/03	Soil	OLM4.2_VOA_LOW_S		☐	☑	☐	VOA
					OLM4.2_VOA_MED_S		☑	☑	☐	VOA
B0447-02A	Y0SJ0	03/18/03 14:30	03/19/03	Soil	PMoist		☐	☐	☐	B3
B0447-02B	Y0SJ0	03/18/03 14:30	03/19/03	Soil	OLM4.2_VOA_LOW_S		☐	☐	☐	VOA
					OLM4.2_VOA_MED_S		☑	☐	☐	VOA
B0447-03A	Y0SJ1	03/18/03 14:35	03/19/03	Soil	PMoist		☐	☐	☐	B3
B0447-03B	Y0SJ1	03/18/03 14:35	03/19/03	Soil	OLM4.2_VOA_LOW_S		☐	☐	☐	VOA
					OLM4.2_VOA_MED_S		☑	☐	☐	VOA

Client Rep: Agnes R Ng

SAMPLE LOG-IN SHEET

Lab Name: Mitkem Corporation	Page 1 of 1
Received By (Print Name): Nathan Reynolds	Log-in Date: 3-19-03
Received By (Signature): Nate Reynolds	
Case Number: 31519	Sample Delivery Group No.: YOSH9
	SAS Number

Remarks: (1) Please see associated Sample/extract transfer logbook pages submitted with this data package

1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Chain of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/Sticker Present/Absent*
6. Airbill No.	FED-EX 835859426435
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition	Intact/Broken*/Leaking
9. Cooler Temperature	2°
10. Does information on custody records, traffic reports, and sample tags agree?	Yes/No*
11. Date Received at Lab	3-19-03
12. Time Received	0900

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
YOSH9	N/A	B0447-01	OK
YOSJ0	N/A	02	
YOSJ1	N/A	B0447-03	
YOSH9MS	N/A	B044701 MS	
YOSH9MSD	N/A	B044701 MSD	

Sample Transfer

Fraction % Solid BNA & Pest/PCB(1)	Fraction VOA(1)
Area # ~~RT~~ R2 am 3/19/03	Area # VOA Lab
By NR	By NR
On 3/19/03	On 3/19/03

* Contact SMO and attach record of resolution

Reviewed By am	Logbook No. 96
Date 3/19/03	Logbook Page No.

Agnes Ng

From: "Agnes Ng" <ang@mitkem.com>
To: "Holly Sturdavant"
Sent: Wednesday, March 19, 2003 11:13 AM
Subject: Case 31519 and 31520

Hi Holly,

Sample Y0SH9 is designated as sample for laboratory QC for case 31519 and sample Y0SL0 for case 31520. Only three Encores were sent for each sample. We can preserve each Encore for sample and MS/MSD analysis, but there will be no remaining sample for re-analysis or dilution if needed. How should we proceed?

Thanks,
Agnes

Agnes Ng
CLP Project Manager
ph: 401-732-3400
fax: 401-732-3499

Agnes Ng

From: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)"
Sent: Wednesday, March 19, 2003 2:31 PM
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

Agnes,

Following is the response from Region 9. The Region would like to verify that 6 ENCOREs are required for MS/MSD analysis.

Please let me know.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

-----Original Message-----
From: Freitas.Richard@epamail.epa.gov
[mailto:Freitas.Richard@epamail.epa.gov]
Sent: Wednesday, March 19, 2003 12:48 PM
To: Sturdavant, Holly
Cc: Steve Remaley (E-mail)
Subject: Re: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

I'm assuming that the MS/MSD samples require six encores and all other samples require three (tres) encores?

RSVP

From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>

To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA

cc:
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
03/19/2003 08:46 AM

Rich,

Following is an email from MITKEM. Sample Y0SH9 is designated for lab QC on the TR/COC for Case 31519. The lab only received 3 ENCOREs for this sample. The lab states that they can preserve each ENCORE for sample and MS/MSD analysis, but there will be no remaining volume for reanalysis or dilution if required. Please advise on how the lab should proceed.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

-----Original Message-----
From: Agnes Ng [mailto:ang@mitkem.com]
Sent: Wednesday, March 19, 2003 11:14 AM
To: Sturdavant, Holly
Subject: Case 31519 and 31520

Hi Holly,

Sample Y0SH9 is designated as sample for laboratory QC for case 31519 . Only three Encores were sent for each sample. We can preserve each Encore for sample and MS/MSD analysis, but there will be no remaining sample for re-analysis or dilution if needed. How should we proceed?

Thanks,
Agnes

Agnes Ng
CLP Project Manager
ph: 401-732-3400
fax: 401-732-3499

Agnes Ng

From: "Agnes Ng" <ang@mitkem.com>
To: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
Sent: Wednesday, March 19, 2003 2:52 PM
Subject: Re: Region 09 | Case 31519 | Lab MITKEM | Issue

Holly,

The minimum of 6 Encores are needed for samples designated as MS/MSD.

Agnes
----- Original Message -----
From: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)" <kchiu@mitkem.com>
Sent: Wednesday, March 19, 2003 2:31 PM
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

> Agnes,
>
> Following is the response from Region 9. The Region would like to verify
> that 6 ENCOREs are required for MS/MSD analysis.
>
> Please let me know.
>
> Thanks,
> Holly
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
>
> -----Original Message-----
> From: Freitas.Richard@epamail.epa.gov
> [mailto:Freitas.Richard@epamail.epa.gov]
> Sent: Wednesday, March 19, 2003 12:48 PM
> To: Sturdavant, Holly
> Cc: Steve Remaley (E-mail)
> Subject: Re: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
>
> I'm assuming that the MS/MSD samples require six encores and all other
> samples require three (tres) encores?
>
> RSVP
>
> From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>
>
> To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA

>
> cc:
> Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
> 03/19/2003 08:46 AM
>
> Rich,
>
> Following is an email from MITKEM. Sample Y0SH9 is designated for lab QC on
> the TR/COC for Case 31519. The lab only received 3 ENCOREs for this sample.
> The lab states that they can preserve each ENCORE for sample and MS/MSD
> analysis, but there will be no remaining volume for reanalysis or dilution
> if required. Please advise on how the lab should proceed.
>
> Thanks,
> Holly
>
> Holly Rogers Sturdavant
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> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
>
> -----Original Message-----
> From: Agnes Ng [mailto:ang@mitkem.com]
> Sent: Wednesday, March 19, 2003 11:14 AM
> To: Sturdavant, Holly
> Subject: Case 31519 and 31520
>
> Hi Holly,
>
> Sample Y0SH9 is designated as sample for laboratory QC for case 31519 . Only
> three Encores were sent for each sample. We can preserve each Encore for
> sample and MS/MSD analysis, but there will be no remaining sample for
> re-analysis or dilution if needed. How should we proceed?
>
> Thanks,
> Agnes
>
> Agnes Ng
> CLP Project Manager
> ph: 401-732-3400
> fax: 401-732-3499
>

Agnes Ng

From: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)"
Sent: Thursday, March 20, 2003 9:52 AM
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

This Case number should be 31519.

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

-----Original Message-----
From: Sturdavant, Holly
Sent: Thursday, March 20, 2003 9:45 AM
To: Agnes Ng (E-mail); Kin Chiu (E-mail)
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

Agnes,

Below is the response from Region 9 regarding the volume and MS/MSD issues for Case 31520. Per the Region, if the samples require reanalysis, the lab should not run the MS/MSD analysis. If the samples do not require reanalysis, the lab should run the MS/MSD analysis. Please let me know if the samples require reanalysis.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

-----Original Message-----
From: Freitas.Richard@epamail.epa.gov
[mailto:Freitas.Richard@epamail.epa.gov]
Sent: Wednesday, March 19, 2003 4:34 PM
To: Sturdavant, Holly
Cc: Steve Remaley (E-mail)
Subject: Re: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

If the samples require reanalysis, the lab should not run the MS/MSD analysis.

If the samples do not require reanalysis, the lab should run the MS/MSD analysis.

Rich

From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>

To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA

cc:
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
03/19/2003 08:46 AM

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Thanks,
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CLP Coordinator for Regions 3 & 9
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holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

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From: Agnes Ng [mailto:ang@mitkem.com]
Sent: Wednesday, March 19, 2003 11:14 AM
To: Sturdavant, Holly
Subject: Case 31519 and 31520

Hi Holly,

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Thanks,
Agnes

Agnes Ng
CLP Project Manager
ph: 401-732-3400
fax: 401-732-3499

Agnes Ng

From: "Sturdavant, Holly" <Holly.Sturdavant@DynCorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)"
Sent: Tuesday, March 25, 2003 10:42 AM
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

Agnes,

Did the samples for this Case require reanalysis? Please let me know.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

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Sent: Thursday, March 20, 2003 9:53 AM
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Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

This Case number should be 31519.

Holly Rogers Sturdavant
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CLP Coordinator for Regions 3 & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

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Sent: Thursday, March 20, 2003 9:45 AM
To: Agnes Ng (E-mail); Kin Chiu (E-mail)
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

Agnes,

Below is the response from Region 9 regarding the volume and MS/MSD issues for Case 31520. Per the Region, if the samples require reanalysis, the lab should not run the MS/MSD analysis. If the samples do not require reanalysis, the lab should run the MS/MSD analysis. Please let me know if the samples require reanalysis.

Thanks,
Holly

Holly Rogers Sturdavant
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CLP Coordinator for Regions 3 & 9
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holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

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Sent: Wednesday, March 19, 2003 4:34 PM
To: Sturdavant, Holly
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Subject: Re: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

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If the samples do not require reanalysis, the lab should run the MS/MSD analysis.

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From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>

To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA

cc:
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
03/19/2003 08:46 AM

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Holly

Holly Rogers Sturdavant

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holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

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Sent: Wednesday, March 19, 2003 11:14 AM
To: Sturdavant, Holly
Subject: Case 31519 and 31520

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Thanks,
Agnes

Agnes Ng
CLP Project Manager
ph: 401-732-3400
fax: 401-732-3499

Agnes Ng

From: "Agnes Ng" <ang@mitkem.com>
To: "Sturdavant, Holly" <Holly.Sturdavant@DynCorp.com>
Sent: Tuesday, March 25, 2003 2:31 PM
Subject: Re: Region 09 | Case 31519 | Lab MITKEM | Issue

Holly,

The lab has not analyzed the samples yet. I'll let you know if there are any problems.

Agnes
----- Original Message -----
From: "Sturdavant, Holly" <Holly.Sturdavant@DynCorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)" <kchiu@mitkem.com>
Sent: Tuesday, March 25, 2003 10:42 AM
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

> Agnes,
>
> Did the samples for this Case require reanalysis? Please let me know.
>
> Thanks,
> Holly
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
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> From: Sturdavant, Holly
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> To: Agnes Ng (E-mail); Kin Chiu (E-mail)
> Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
>
>

> This Case number should be 31519.
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
>
> -----Original Message-----
> From: Sturdavant, Holly
> Sent: Thursday, March 20, 2003 9:45 AM
> To: Agnes Ng (E-mail); Kin Chiu (E-mail)
> Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
>
> Agnes,
>
> Below is the response from Region 9 regarding the volume and MS/MSD issues
> for Case 31520. Per the Region, if the samples require reanalysis, the
lab
> should not run the MS/MSD analysis. If the samples do not require
> reanalysis, the lab should run the MS/MSD analysis. Please let me know if
> the samples require reanalysis.
>
> Thanks,
> Holly
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
>
> -----Original Message-----
> From: Freitas.Richard@epamail.epa.gov
> [mailto:Freitas.Richard@epamail.epa.gov]
> Sent: Wednesday, March 19, 2003 4:34 PM
> To: Sturdavant, Holly
> Cc: Steve Remaley (E-mail)
> Subject: Re: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
>
> If the samples require reanalysis, the lab should not run the MS/MSD
> analysis.
>
> If the samples do not require reanalysis, the lab should run the MS/MSD
> analysis.
>
> Rich
>
> From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>
>
> To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA

>
> cc:
> Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
> 03/19/2003 08:46 AM
>
> Rich,
>
> Following is an email from MITKEM. Sample Y0SH9 is designated for lab QC on
> the TR/COC for Case 31519. The lab only received 3 ENCOREs for this sample.
> The lab states that they can preserve each ENCORE for sample and MS/MSD
> analysis, but there will be no remaining volume for reanalysis or dilution
> if required. Please advise on how the lab should proceed.
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> Thanks,
> Holly
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> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
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> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
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> -----Original Message-----
> From: Agnes Ng [mailto:ang@mitkem.com]
> Sent: Wednesday, March 19, 2003 11:14 AM
> To: Sturdavant, Holly
> Subject: Case 31519 and 31520
>
> Hi Holly,
>
> Sample Y0SH9 is designated as sample for laboratory QC for case 31519 . Only
> three Encores were sent for each sample. We can preserve each Encore for
> sample and MS/MSD analysis, but there will be no remaining sample for
> re-analysis or dilution if needed. How should we proceed?
>
> Thanks,
> Agnes
>
> Agnes Ng
> CLP Project Manager
> ph: 401-732-3400
> fax: 401-732-3499
>

Agnes Ng

From: "Agnes Ng" <ang@mitkem.com>
To: "Sturdavant, Holly" <Holly.Sturdavant@DynCorp.com>
Sent: Friday, March 28, 2003 2:57 PM
Subject: Re: Region 09 | Case 31519 | Lab MITKEM | Issue

Hi Holly,

Sample Y0SH9 did not require re-analysis, so we were able to perform MS/MSD on this sample.

Thanks,
Agnes
----- Original Message -----
From: "Sturdavant, Holly" <Holly.Sturdavant@DynCorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)" <kchiu@mitkem.com>
Sent: Tuesday, March 25, 2003 10:42 AM
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

> Agnes,
>
> Did the samples for this Case require reanalysis? Please let me know.
>
> Thanks,
> Holly
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
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> Sent: Thursday, March 20, 2003 9:53 AM
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> Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
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> This Case number should be 31519.
>
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> CLP Coordinator for Regions 3 & 9
> 703-264-9526
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> From: Sturdavant, Holly
> Sent: Thursday, March 20, 2003 9:45 AM
> To: Agnes Ng (E-mail); Kin Chiu (E-mail)
> Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
>
> Agnes,
>
> Below is the response from Region 9 regarding the volume and MS/MSD issues
> for Case 31520. Per the Region, if the samples require reanalysis, the
lab
> should not run the MS/MSD analysis. If the samples do not require
> reanalysis, the lab should run the MS/MSD analysis. Please let me know if
> the samples require reanalysis.
>
> Thanks,
> Holly
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> Holly Rogers Sturdavant
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> Sent: Wednesday, March 19, 2003 4:34 PM
> To: Sturdavant, Holly
> Cc: Steve Remaley (E-mail)
> Subject: Re: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
>
> If the samples require reanalysis, the lab should not run the MS/MSD
> analysis.
>
> If the samples do not require reanalysis, the lab should run the MS/MSD
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>
> Rich
>
> From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>
>

> To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA
>
> cc:
> Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
> 03/19/2003 08:46 AM
>
> Rich,
>
> Following is an email from MITKEM. Sample Y0SH9 is designated for lab QC
on
> the TR/COC for Case 31519. The lab only received 3 ENCOREs for this
sample.
> The lab states that they can preserve each ENCORE for sample and MS/MSD
> analysis, but there will be no remaining volume for reanalysis or dilution
> if required. Please advise on how the lab should proceed.
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> Thanks,
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> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
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> Sent: Wednesday, March 19, 2003 11:14 AM
> To: Sturdavant, Holly
> Subject: Case 31519 and 31520
>
> Hi Holly,
>
> Sample Y0SH9 is designated as sample for laboratory QC for case 31519 .
Only
> three Encores were sent for each sample. We can preserve each Encore for
> sample and MS/MSD analysis, but there will be no remaining sample for
> re-analysis or dilution if needed. How should we proceed?
>
> Thanks,
> Agnes
>
> Agnes Ng
> CLP Project Manager
> ph: 401-732-3400
> fax: 401-732-3499
>

Agnes Ng

From: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)" <kchiu@mitkem.com>
Cc: "Rich Freitas (E-mail)" <freitas.richard@epa.gov>; "Steve Remaley (E-mail)" <Remaley.Steve@epamail.epa.gov>
Sent: Friday, March 28, 2003 4:38 PM
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple | FINAL

RECORD OF COMMUNICATION

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3, 7, & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

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-----Original Message-----
From: Agnes Ng [mailto:ang@mitkem.com]
Sent: Friday, March 28, 2003 2:58 PM
To: Sturdavant, Holly
Subject: Re: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

Hi Holly,

Sample Y0SH9 did not require re-analysis, so we were able to perform MS/MSD on this sample.

Thanks,
Agnes
----- Original Message -----
From: "Sturdavant, Holly" <Holly.Sturdavant@DynCorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)" <kchiu@mitkem.com>
Sent: Tuesday, March 25, 2003 10:42 AM
Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple

> Agnes,
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> Cc: Steve Remaley (E-mail)
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> To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA
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> cc:
> Subject: Region 09 | Case 31519 | Lab MITKEM | Issue Multiple
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> To: Sturdavant, Holly
> Subject: Case 31519 and 31520
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> ph: 401-732-3400
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