

Data Package

NYSDEC ASP Category B Data Package

*Analytical Data Report Package
for
Toxikon*

*Charlton Cleaners
Air Samples
Collected on 06/03/05
Sample No. 4538862-4538864*

SDG# TCC01

*PA Cert. # 36-037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521*

Prepared by _____

Quality Assurance Review _____

Date _____

[Signature]

Audrey McClune

7-6-05

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**Sample Reference List for SDG Number TCC01
with a Data Package Type of NYSDEC B**

11365 - Toxikon
Charlton Cleaners

Lab Sample Number	Lab Sample Code	Client Sample Description
4538862	CC035	Outdoor Ambient Air Summa Canister #0035
4538863	CC144	Michaels - Indoor Air Summa Canister #0144
4538864	CC170	Coconuts - Indoor Air Summa Canister #0170

0001

Analysis Request / Environmental Services Chain of Custody



Where quality is a science

For Lancaster Laboratories use only

COC # 0088726

Acct. # 11365 Group # 946476 Sample # 4538862-64

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: <u>LBG, Inc. CO. TOXIKON</u> Acct. #: _____ Project Name: <u>CHARLTON CLEANERS</u> PWSID #: _____ Project Manager: <u>SEAN GROJZKOWSKI</u> P.O. #: _____ Sampler: <u>SEAN GROJZKOWSKI</u> Quote #: _____ Name of state where samples were collected: <u>NEW YORK</u>		2 Sample Information Date Collected: <u>6/3/05</u> Time Collected: <u>4:20</u> Date Collected: <u>6/3/05</u> Time Collected: <u>5:00</u> Date Collected: <u>6/3/05</u> Time Collected: <u>5:05</u>		3 Matrix ☒ Air ☐ Soil ☐ Water ☐ Sediment ☐ Other: _____ ☐ Fumes ☐ Other: _____ ☐ Other: _____		4 Analysis Requested TO-14 CATEGORY 8 DELIVERABLES		5 For Lab Use Only FSC: _____ SCR #: _____		6	
7 Turnaround Time Requested (TAT) (please circle): <u>Normal</u> Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: _____ Rush results requested by (please circle): Phone Fax E-mail Phone # <u>(914) 694-5711</u> Fax # <u>(914) 694-5744</u> E-mail address: <u>GROJZKOWSKI@LBG.NY.COM</u>		8 Data Package Options (please circle if required) QC Summary Type VI (Raw Data) SDG Complete? Yes No Type I (Tier I) GLP Site-specific QC required? Yes No Type II (Tier II) Other (If yes, indicate QC sample and submit triplicate volume.) Type III (NJ Red. Del.) Internal Chain of Custody required? Yes No Type IV (CLP)		9		Relinquished by: _____ Date: <u>6/6/05</u> Time: <u>12:00</u> Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____					

**Environmental Sample Administration
Receipt Documentation Log**

TOXIKON

Client/Project: LBG (14)
Date of Receipt: 6/7/05
Time of Receipt: 0900
Source Code: 50-1

Shipping Container Sealed: Y / N
Custody Seal Present: Y / N
Custody Seal Intact: Y / N / NA
Package: Chilled / Not Chilled

Unpacker Emp. No.: 165

Temperature of Shipping Containers	
#1	#2
Thermometer ID: _____	Thermometer ID: _____
Temp.: _____	Temp.: _____
Temp. Bottle / Surface Temp. _____	Temp. Bottle / Surface Temp. _____
Wet Ice / Dry Ice / Ice Packs _____	Wet Ice / Dry Ice / Ice Packs _____
Ice Present? Y / N _____ Loose / Bagged _____	Ice Present? Y / N _____ Loose / Bagged _____
#3	#4
Thermometer ID: _____	Thermometer ID: _____
Temp.: _____	Temp.: _____
Temp. Bottle / Surface Temp. _____	Temp. Bottle / Surface Temp. _____
Wet Ice / Dry Ice / Ice Packs _____	Wet Ice / Dry Ice / Ice Packs _____
Ice Present? Y / N _____ Loose / Bagged _____	Ice Present? Y / N _____ Loose / Bagged _____

Paperwork Discrepancy/Unpacking Problems: _____

3 flow Controls.

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
<u>Pass 305</u>	<u>6/7/05</u>	<u>1330</u>	Unpacking <u>to Storage</u>
<u>Paul Bedard</u>	<u>6/7/05</u>	<u>2204</u>	Place in Storage or <u>Entry</u>
			Remove from Storage
			Place in Storage or Entry
			Entry

METHODOLOGY SUMMARY/REFERENCE

7199 TO14 VOA *Extended List*

Samples in passivated SUMMA canisters are concentrated on a cryogenic trap and a cryofocusing trap after passing through a micro purge and trap water removal system. The cryofocuser is heated and the volatile organics are desorbed onto a GC/MS system for chromatographic and mass spectral analysis.

Reference: Methods for the Determination of Toxic Organic Compounds in Air, EPA Method TO14A, 1999



ANALYTICAL RESULTS

Prepared for:

Toxikon
15 Wiggins Avenue
Bedford MA 01730

781-275-3330

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 946426. Samples arrived at the laboratory on Tuesday, June 07, 2005.

Client Description

Outdoor Ambient Air Summa Canister #0035
Michaels - Indoor Air Summa Canister #0144
Coconuts - Indoor Air Summa Canister #0170

Lancaster Labs Number

4538862
4538863
4538864

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO Toxikon
1 COPY TO Data Package Group

Attn: Frank D' Agostino

0005



Lancaster Laboratories, Inc.
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PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Questions? Contact your Client Services Representative
Richard C Entz at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Rachel R. Cochis".

Rachel R. Cochis
Group Leader

0026



Lancaster Laboratories, Inc.
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Lancaster, PA 17605-2425
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Lancaster Laboratories Sample No. AQ 4538862

Outdoor Ambient Air Summa Canister #0035
Charlton Cleaners

Collected: 06/03/2005 16:20 by SG

Account Number: 11365

Submitted: 06/07/2005 09:00
Reported: 07/06/2005 at 08:21
Discard: 07/14/2005

Toxikon
15 Wiggins Avenue
Bedford MA 01730

CC035 SDG#: TCC01-01

CAT No.	Analysis Name	CAS Number	As Received Result		As Received		Dilution Factor
					Method Detection Limit	Units	
07199	TO-14A VOA Extended List						
07202	Dichlorodifluoromethane	75-71-8	4.0	J	1.0	ug/m3	1
07204	Freon 114	76-14-2	N.D.		1.0	ug/m3	1
07205	Chloromethane	74-87-3	N.D.		0.40	ug/m3	1
07206	Vinyl Chloride	75-01-4	N.D.		0.50	ug/m3	1
07208	Bromomethane	74-83-9	N.D.		0.80	ug/m3	1
07209	Chloroethane	75-00-3	N.D.		0.50	ug/m3	1
07212	Trichlorofluoromethane	75-69-4	2.0	J	1.0	ug/m3	1
07215	1,1-Dichloroethene	75-35-4	N.D.		0.80	ug/m3	1
07216	Freon 113	76-13-1	N.D.		4.0	ug/m3	1
07221	3-Chloropropene	107-05-1	N.D.		2.0	ug/m3	1
07222	Methylene Chloride	75-09-2	N.D.		2.0	ug/m3	1
07227	1,1-Dichloroethane	75-34-3	N.D.		0.80	ug/m3	1
07230	cis-1,2-Dichloroethene	156-59-2	N.D.		0.80	ug/m3	1
07234	Chloroform	67-66-3	N.D.		1.0	ug/m3	1
07235	1,1,1-Trichloroethane	71-55-6	N.D.		1.0	ug/m3	1
07236	Carbon Tetrachloride	56-23-5	N.D.		1.0	ug/m3	1
07237	1,2-Dichloroethane	107-06-2	N.D.		0.80	ug/m3	1
07238	Benzene	71-43-2	2.0	J	0.60	ug/m3	1
07241	Trichloroethene	79-01-6	N.D.		1.0	ug/m3	1
07243	1,2-Dichloropropane	78-87-5	N.D.		0.90	ug/m3	1
07248	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.90	ug/m3	1
07250	Toluene	108-88-3	6.0		0.80	ug/m3	1
07252	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.90	ug/m3	1
07254	1,1,2-Trichloroethane	79-00-5	N.D.		1.0	ug/m3	1
07255	Tetrachloroethene	127-18-4	2.0	J	1.0	ug/m3	1
07258	1,2-Dibromoethane	106-93-4	N.D.		2.0	ug/m3	1
07259	Chlorobenzene	108-90-7	N.D.		0.90	ug/m3	1
07261	Ethylbenzene	100-41-4	2.0	J	0.90	ug/m3	1
07262	m/p-Xylene	1330-20-7	5.0		0.90	ug/m3	1
07263	o-Xylene	95-47-6	2.0	J	0.90	ug/m3	1
07264	Styrene	100-42-5	N.D.		0.90	ug/m3	1
07267	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1.0	ug/m3	1
07270	4-Ethyltoluene	622-96-8	1.0	J	1.0	ug/m3	1
07271	1,3,5-Trimethylbenzene	108-67-8	N.D.		1.0	ug/m3	1
07273	1,2,4-Trimethylbenzene	95-63-6	2.0	J	1.0	ug/m3	1



Lancaster Laboratories, Inc.
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717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. AQ 4538862

Outdoor Ambient Air Summa Canister #0035
Charlton Cleaners

Collected: 06/03/2005 16:20 by SG

Account Number: 11365

Submitted: 06/07/2005 09:00
Reported: 07/06/2005 at 08:21
Discard: 07/14/2005

Toxikon
15 Wiggins Avenue
Bedford MA 01730

CC035 SDG#: TCC01-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
07274	1,3-Dichlorobenzene	541-73-1	N.D.		3.0	ug/m3	1
07275	1,4-Dichlorobenzene	106-46-7	N.D.		3.0	ug/m3	1
07277	1,2-Dichlorobenzene	95-50-1	N.D.		3.0	ug/m3	1
07279	1,2,4-Trichlorobenzene	120-82-1	N.D.		7.0	ug/m3	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
07199	TO-14A VOA Extended List	EPA Method TO14A	1	06/09/2005 02:24	Douglas Graham	1

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Lancaster Laboratories Sample No. AQ 4538863

Michaels - Indoor Air Summa Canister #0144
Charlton Cleaners

Collected: 06/03/2005 17:00 by SG

Account Number: 11365

Submitted: 06/07/2005 09:00
Reported: 07/06/2005 at 08:21
Discard: 07/14/2005

Toxikon
15 Wiggins Avenue
Bedford MA 01730

CC144 SDG#: TCC01-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07199	TO-14A VOA Extended List					
07202	Dichlorodifluoromethane	75-71-8	4.0 J	1.0	ug/m3	1
07204	Freon 114	76-14-2	N.D.	1.0	ug/m3	1
07205	Chloromethane	74-87-3	N.D.	0.40	ug/m3	1
07206	Vinyl Chloride	75-01-4	21.	0.50	ug/m3	1
07208	Bromomethane	74-83-9	N.D.	0.80	ug/m3	1
07209	Chloroethane	75-00-3	N.D.	0.50	ug/m3	1
07212	Trichlorofluoromethane	75-69-4	2.0 J	1.0	ug/m3	1
07215	1,1-Dichloroethene	75-35-4	0.90 J	0.80	ug/m3	1
07216	Freon 113	76-13-1	N.D.	4.0	ug/m3	1
07221	3-Chloropropene	107-05-1	N.D.	2.0	ug/m3	1
07222	Methylene Chloride	75-09-2	4.0	2.0	ug/m3	1
07227	1,1-Dichloroethane	75-34-3	N.D.	0.80	ug/m3	1
07230	cis-1,2-Dichloroethene	156-59-2	230.	0.80	ug/m3	1
07234	Chloroform	67-66-3	N.D.	1.0	ug/m3	1
07235	1,1,1-Trichloroethane	71-55-6	N.D.	1.0	ug/m3	1
07236	Carbon Tetrachloride	56-23-5	N.D.	1.0	ug/m3	1
07237	1,2-Dichloroethane	107-06-2	4.0	0.80	ug/m3	1
07238	Benzene	71-43-2	2.0 J	0.60	ug/m3	1
07241	Trichloroethene	79-01-6	42.	1.0	ug/m3	1
07243	1,2-Dichloropropane	78-87-5	N.D.	0.90	ug/m3	1
07248	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.90	ug/m3	1
07250	Toluene	108-88-3	67.	0.80	ug/m3	1
07252	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.90	ug/m3	1
07254	1,1,2-Trichloroethane	79-00-5	N.D.	1.0	ug/m3	1
07255	Tetrachloroethene	127-18-4	4,000.	13.	ug/m3	10
07258	1,2-Dibromoethane	106-93-4	N.D.	2.0	ug/m3	1
07259	Chlorobenzene	108-90-7	N.D.	0.90	ug/m3	1
07261	Ethylbenzene	100-41-4	19.	0.90	ug/m3	1
07262	m/p-Xylene	1330-20-7	33.	0.90	ug/m3	1
07263	o-Xylene	95-47-6	14.	0.90	ug/m3	1
07264	Styrene	100-42-5	6.0	0.90	ug/m3	1
07267	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.0	ug/m3	1
07270	4-Ethyltoluene	622-96-8	5.0	1.0	ug/m3	1
07271	1,3,5-Trimethylbenzene	108-67-8	3.0 J	1.0	ug/m3	1
07273	1,2,4-Trimethylbenzene	95-63-6	12.	1.0	ug/m3	1



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Lancaster Laboratories Sample No. AQ 4538863

Michaels - Indoor Air Summa Canister #0144
Charlton Cleaners

Collected: 06/03/2005 17:00 by SG

Account Number: 11365

Submitted: 06/07/2005 09:00
Reported: 07/06/2005 at 08:21
Discard: 07/14/2005

Toxikon
15 Wiggins Avenue
Bedford MA 01730

CC144 SDG#: TCC01-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
07274	1,3-Dichlorobenzene	541-73-1	N.D.	3.0	ug/m3	1
07275	1,4-Dichlorobenzene	106-46-7	N.D.	3.0	ug/m3	1
07277	1,2-Dichlorobenzene	95-50-1	N.D.	3.0	ug/m3	1
07279	1,2,4-Trichlorobenzene	120-82-1	N.D.	7.0	ug/m3	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
07199	TO-14A VOA Extended List	EPA Method TO14A	1	06/09/2005 03:07	Douglas Graham	10
07199	TO-14A VOA Extended List	EPA Method TO14A	1	06/09/2005 03:49	Douglas Graham	1

8818



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Lancaster Laboratories Sample No. AQ 4538864

Coconuts - Indoor Air Summa Canister #0170
Charlton Cleaners

Collected: 06/03/2005 17:05 by SG

Account Number: 11365

Submitted: 06/07/2005 09:00
Reported: 07/06/2005 at 08:22
Discard: 07/14/2005

Toxikon
15 Wiggins Avenue
Bedford MA 01730

CC170 SDG#: TCC01-03*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
07199	TO-14A VOA Extended List					
07202	Dichlorodifluoromethane	75-71-8	3.0 J	1.0	ug/m3	1
07204	Freon 114	76-14-2	N.D.	1.0	ug/m3	1
07205	Chloromethane	74-87-3	N.D.	0.40	ug/m3	1
07206	Vinyl Chloride	75-01-4	N.D.	0.50	ug/m3	1
07208	Bromomethane	74-83-9	N.D.	0.80	ug/m3	1
07209	Chloroethane	75-00-3	N.D.	0.50	ug/m3	1
07212	Trichlorofluoromethane	75-69-4	8.0	1.0	ug/m3	1
07215	1,1-Dichloroethene	75-35-4	N.D.	0.80	ug/m3	1
07216	Freon 113	76-13-1	N.D.	4.0	ug/m3	1
07221	3-Chloropropene	107-05-1	N.D.	2.0	ug/m3	1
07222	Methylene Chloride	75-09-2	N.D.	2.0	ug/m3	1
07227	1,1-Dichloroethane	75-34-3	N.D.	0.80	ug/m3	1
07230	cis-1,2-Dichloroethene	156-59-2	N.D.	0.80	ug/m3	1
07234	Chloroform	67-66-3	N.D.	1.0	ug/m3	1
07235	1,1,1-Trichloroethane	71-55-6	N.D.	1.0	ug/m3	1
07236	Carbon Tetrachloride	56-23-5	N.D.	1.0	ug/m3	1
07237	1,2-Dichloroethane	107-06-2	N.D.	0.80	ug/m3	1
07238	Benzene	71-43-2	1.0 J	0.60	ug/m3	1
07241	Trichloroethene	79-01-6	N.D.	1.0	ug/m3	1
07243	1,2-Dichloropropane	78-87-5	N.D.	0.90	ug/m3	1
07248	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.90	ug/m3	1
07250	Toluene	108-88-3	7.0	0.80	ug/m3	1
07252	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.90	ug/m3	1
07254	1,1,2-Trichloroethane	79-00-5	N.D.	1.0	ug/m3	1
07255	Tetrachloroethene	127-18-4	1.0 J	1.0	ug/m3	1
07258	1,2-Dibromoethane	106-93-4	N.D.	2.0	ug/m3	1
07259	Chlorobenzene	108-90-7	N.D.	0.90	ug/m3	1
07261	Ethylbenzene	100-41-4	33.	0.90	ug/m3	1
07262	m/p-Xylene	1330-20-7	110.	0.90	ug/m3	1
07263	o-Xylene	95-47-6	42.	0.90	ug/m3	1
07264	Styrene	100-42-5	2.0 J	0.90	ug/m3	1
07267	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1.0	ug/m3	1
07270	4-Ethyltoluene	622-96-8	2.0 J	1.0	ug/m3	1
07271	1,3,5-Trimethylbenzene	108-67-8	N.D.	1.0	ug/m3	0011
07273	1,2,4-Trimethylbenzene	95-63-6	2.0 J	1.0	ug/m3	1



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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. AQ 4538864

Coconuts - Indoor Air Summa Canister #0170
Charlton Cleaners

Collected: 06/03/2005 17:05 by SG

Account Number: 11365

Submitted: 06/07/2005 09:00
Reported: 07/06/2005 at 08:22
Discard: 07/14/2005

Toxikon
15 Wiggins Avenue
Bedford MA 01730

CC170 SDG#: TCC01-03*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
07274	1,3-Dichlorobenzene	541-73-1	N.D.	3.0	ug/m3	1
07275	1,4-Dichlorobenzene	106-46-7	N.D.	3.0	ug/m3	1
07277	1,2-Dichlorobenzene	95-50-1	N.D.	3.0	ug/m3	1
07279	1,2,4-Trichlorobenzene	120-82-1	N.D.	7.0	ug/m3	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
07199	TO-14A VOA Extended List	EPA Method TO14A	1	06/09/2005 05:12	Douglas Graham	1

0012



Lancaster Laboratories, Inc.
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PO Box 12425
Lancaster, PA 17605-2425
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GC/MS Volatile Organics in Air

Case Narrative Conformance/Nonconformance Summary

CASE NARRATIVE

Client: Toxikon
SDG #: TCC01

LANCASTER LABORATORIES
GC/MS VOLATILE ORGANICS IN AIR

SAMPLE NUMBER(S) :

<u>LL #'s</u>	<u>Sample Code</u>	<u>Comments</u>
4538862	CC035	
4538863	CC144	
4538863	CC144	10X Dilution
4538864	CC170	

LABORATORY SUBMITTED QC:

VBLKA48	VBLKA48	Method Blank
LCSA48	LCSA48	Lab Control Sample

All canisters were cleaned by repeated evacuation and pressurization with clean nitrogen, as per SOP-MS-009. Each canister was filled with clean nitrogen and analyzed before the final evacuation prior to shipping to the client. All target compounds were below the limit of quantitation in the cleaning certification analyses.

SAMPLE PREPARATION:

Samples were diluted to twice their original absolute pressure upon receipt in the air analysis laboratory using clean nitrogen. This dilution is done to ensure positive pressure in the sample canisters throughout the analysis, minimizing the risk of sample contamination, and bringing the samples to the approximate pressure at which blanks and calibration standards are delivered to the analytical instrumentation. This twofold dilution is offset by analyzing 500cc of each sample, twice the nominal volume of 250cc upon which the GC/MS calibration is based. This strategy yields an overall dilution factor of 1.0 and allows sample pressurization without raising the limits of quantitation.

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Case Narrative (continued)
SDG: TCC01

The nitrogen used to pressurize sample canisters is monitored as the daily method blank to ensure that no contamination of samples occurs during dilution.

Dilutions of 10X or less were performed by analyzing a reduced sample volume.

No problems were encountered during the preparation of these samples.

ANALYSIS:

The method used for analysis was EPA Method TO-14A.

No problems were encountered during the analysis of these samples.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

A Laboratory Control Sample (LCS) was analyzed with these samples. The LCS consists of six target compounds at approximately 50ppbv in a SUMMA canister, acquired independently from calibration standards. The LCS serves as a check of analysis and calibration standards validity. All LCS compounds were within the control limits specified on the Laboratory Control Sample Data Sheet.

All other QC was within specifications.

DATA INTERPRETATION:

Only non-conformances for client requested compounds are addressed in this case narrative.

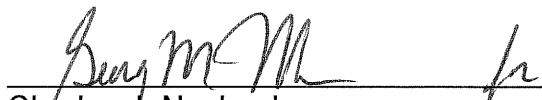
All raw data is quantified in units of ppbv, parts per billion by volume.

No further interpretation is necessary for the data submitted.

8816

Case Narrative (continued)
SDG: TCC01

Case Narrative Reviewed and Approved by:


_____Charles J. Neslund
Manager, GC/MS Volatiles in AirDate: 6/7/06

8817

GC/MS Volatiles in Air example calculations:

1. Relative response factor (RRF)

$$RRF = A_X / A_{is} * C_{is} / C_X$$

Where:

A_X = Area of the characteristic ion for the compound to be measured

A_{is} = Area of the characteristic ion for the specific internal standard to be measured

C_{is} = Concentration of the internal standard

C_X = Concentration of the compound to be measured.

2. % Relative Standard Deviation (%RSD)

$$\% RSD = \text{standard deviation} / \text{mean} * 100$$

3. % Difference (%D)

$$\%D = (RRF_c - RRF_i) / RRF_i * 100$$

Where:

RRF_c = Relative Response factor from the continuing calibration standard

RRF_i = Mean relative response factor from the initial calibration

4. Concentration

$$\text{Concentration (ppbv)} = (A_X * C_{is} * D_f) / (A_{is} * RRF)$$

Where:

A_X , A_{is} , C_{is} , and RRF are given above

D_f = Dilution factor

5. % Recovery

$$\% \text{ Recovery} = (SSR - SR) / SA * 100$$

Where:

SSR = Spiked sample result

SR = Sample result

SA = Spike add

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ANALYSIS RUNLOG

Instrument ID: HP4224

Data File Path: C:\HPCHEM\1\DATA\JUN06\

File ID	LL #	Sample ID	Anal Date/Time	SUMMA ID	psia Rc'd Fn'l	Dilution Factor	Sample Vol cc
AF00076.D	BFB	BFB	06/06/05 16:21				25
AF00078.D	VSTD050	VSTD050	06/06/05 19:30				250
AF00079.D	VSTD100	VSTD100	06/06/05 20:19				250
AF00080.D	VSTD010	VSTD010	06/06/05 21:01				250

Page 1 of 1

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

ANALYSIS RUNLOG

Instrument ID: HP4224

Data File Path: C:\HPCHEM\1\DATA\JUN08\

File ID	LL #	Sample ID	Anal Date/Time	SUMMA ID	psia Rc'd Fn'l		Dilution Factor	Sample Vol cc
AF00120.D	BFB	BFB	06/08/05 18:43					25
AF00121.D	VSTD050	VSTD050	06/08/05 19:09					250
AF00123.D	VBLKA48	VBLKA48	06/08/05 20:46					250
AF00124.D	LCSA48	LCSA48	06/08/05 21:28					250
AF00131.D	4538862	CC035	06/09/05 02:24	0035	15.1	30.2	1.0	250
AF00132.D	4538863	CC144	06/09/05 03:07	0144	13.5	26.9	10.0	25
AF00133.D	4538863	CC144	06/09/05 03:49	0144	13.5	26.9	1.0	250
AF00135.D	4538864	CC170	06/09/05 05:12	0170	12.4	24.8	1.0	250

QC Summary

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION

Sample No.: BFB Date Analyzed: 06/06/05 Time Analyzed: 16:21
Lab Sample ID: BFB Lab File ID: C:\HPCHEM\1\DATA\JUN06\AF00076.D
Instrument ID: HP4224 Mass BFB Injected: 25 ng

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance to:	
		m/e 95	specified mass
50	15.0 - 40.0% of m/e 95	27.2	27.2
75	30.0 - 60.0% of m/e 95	56.6	56.6
95	Base peak, 100% relative abundance	100.0	100.0
96	5.0 - 9.0% of m/e 95	6.6	6.6
173	Less than 2.0% of m/e 174	0.0	0.0
174	50.0 - 100.0% of m/e 95	87.7	87.7
175	5.0 - 9.0% of m/e 174	7.0	8.0
176	95.0 - 101.0% of m/e 174	85.6	97.6
177	5.0 - 9.0% of m/e 176	5.4	6.3

THIS TUNE APPLIES TO THE FOLLOWING:

Sample No.	Lab Sample ID	Lab File ID	Analysis	
			Date	Time
VSTD050	VSTD050	C:\HPCHEM\1\DATA\JUN06\AF00078.D	06/06/05	19:30
VSTD100	VSTD100	C:\HPCHEM\1\DATA\JUN06\AF00079.D	06/06/05	20:19
VSTD010	VSTD010	C:\HPCHEM\1\DATA\JUN06\AF00080.D	06/06/05	21:01

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

GC/MS INSTRUMENT PERFORMANCE CHECK AND MASS CALIBRATION

Sample No.: BFB Date Analyzed: 06/08/05 Time Analyzed: 18:43
Lab Sample ID: BFB Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00120.D
Instrument ID: HP4224 Mass BFB Injected: 25 ng

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance to:	
		m/e 95	specified mass
50	15.0 - 40.0% of m/e 95	25.6	25.6
75	30.0 - 60.0% of m/e 95	53.0	53.0
95	Base peak, 100% relative abundance	100.0	100.0
96	5.0 - 9.0% of m/e 95	6.3	6.3
173	Less than 2.0% of m/e 174	0.0	0.0
174	50.0 - 100.0% of m/e 95	87.7	87.7
175	5.0 - 9.0% of m/e 174	6.8	7.7
176	95.0 - 101.0% of m/e 174	85.0	97.0
177	5.0 - 9.0% of m/e 176	5.5	6.5

THIS TUNE APPLIES TO THE FOLLOWING:

Sample No.	Lab Sample ID	Lab File ID	Analysis	
			Date	Time
VSTD050	VSTD050	C:\HPCHEM\1\DATA\JUN08\AF00121.D	06/08/05	19:09
VBLKA48	VBLKA48	C:\HPCHEM\1\DATA\JUN08\AF00123.D	06/08/05	20:46
LCSA48	LCSA48	C:\HPCHEM\1\DATA\JUN08\AF00124.D	06/08/05	21:28
CC035	4538862	C:\HPCHEM\1\DATA\JUN08\AF00131.D	06/09/05	02:24
CC144	4538863	C:\HPCHEM\1\DATA\JUN08\AF00132.D	06/09/05	03:07
CC144	4538863	C:\HPCHEM\1\DATA\JUN08\AF00133.D	06/09/05	03:49
CC170	4538864	C:\HPCHEM\1\DATA\JUN08\AF00135.D	06/09/05	05:12

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

BLANK SUMMARY

Instrument ID: HP4224 Sample No.: VBLKA48 Lab Sample ID: VBLKA48
Injection Volume: 250cc Date Analyzed: 06/08/05 Time Analyzed: 20:46
Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00123.D

THIS BLANK APPLIES TO THE FOLLOWING SAMPLES:

#	SAMPLE NO.	LAB SAMP.ID	LAB FILE ID	CANISTER ID	DATE	TIME
01	LCSA48	LCSA48	JUN08\AF00124.D		06/08/05	21:28
02	CC035	4538862	JUN08\AF00131.D	0035	06/09/05	02:24
03	CC144	4538863	JUN08\AF00132.D	0144	06/09/05	03:07
04	CC144	4538863	JUN08\AF00133.D	0144	06/09/05	03:49
05	CC170	4538864	JUN08\AF00135.D	0170	06/09/05	05:12

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

BLANK SUMMARY

Instrument ID: HP4224 Sample No.: VBLKA48 Lab Sample ID: VBLKA48
Injection Volume: 250cc Date Analyzed: 06/08/05 Time Analyzed: 20:46
Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00123.D

THIS BLANK APPLIES TO THE FOLLOWING SAMPLES:

#	SAMPLE NO.	LAB SAMP.ID	LAB FILE ID	CANISTER ID	DATE	TIME
01	LCSA48	LCSA48	JUN08\AF00124.D		06/08/05	21:28
02	CC035	4538862	JUN08\AF00131.D	0035	06/09/05	02:24
03	CC144	4538863	JUN08\AF00132.D	0144	06/09/05	03:07
04	CC144	4538863	JUN08\AF00133.D	0144	06/09/05	03:49
05	CC170	4538864	JUN08\AF00135.D	0170	06/09/05	05:12

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

LABORATORY CONTROL SAMPLE DATA SHEET

Sample No.: LCSA46 *06mm753* Date Analyzed: 06/08/05 Time Analyzed: 21:28
 Lab Sample ID: LCSA46 *7/14/06* Instrument ID: HP4224
 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00124.D

COMPOUND NAME	CONCENTRATION (ppbv)		% RECOVERY	LOWER - UPPER CONTROL LIMITS	Q
	SPIKED	REPORTED			
Vinyl Chloride	51.25	46.33	90	68 - 135	
1,1,1-Trichloroethane	54.50	53.57	98	81 - 157	
Benzene	53.25	50.39	95	70 - 150	
Trichloroethene	54.50	51.68	95	65 - 144	
Ethylbenzene	54.50	50.77	93	65 - 149	
1,4-Dichlorobenzene	53.00	59.46	112	37 - 149	

LCS Recovery: 0 outside limits out of 6 total.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Sample No.: VSTD050 Date Analyzed: 06/06/05 Time Analyzed: 19:30
Lab Sample ID: VSTD050 Lab File ID: C:\HPCHEM\1\DATA\JUN06\AF00078.D
Instrument ID: HP4224

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene d5	
	Area #	R.T. #	Area #	R.T. #	Area #	R.T. #
24 HOUR STANDARD	341157	15.54	1023381	17.53	921136	23.13
UPPER LIMIT	682314	16.04	2046762	18.03	1842272	23.63
LOWER LIMIT	170578	15.04	511690	17.03	460568	22.63
EPA SAMPLE NO.						
VSTD100	357042	15.55	1046502	17.55	952228	23.15
VSTD010	354000	15.53	1117795	17.53	967281	23.14

AREA: Upper Limit +100% of internal standard area.

Lower Limit -50% of internal standard area.

R.T.: Upper Limit +0.5 minutes of internal standard R.T.

Lower Limit -0.5 minutes of internal standard R.T.

All values outside of the QC limits are flagged with an * in the # column.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Sample No.: VSTD050 Date Analyzed: 06/08/05 Time Analyzed: 19:09
Lab Sample ID: VSTD050 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00121.D
Instrument ID: HP4224

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene d5	
	Area #	R.T. #	Area #	R.T. #	Area #	R.T. #
24 HOUR STANDARD	364298	15.55	1125831	17.53	996486	23.13
UPPER LIMIT	728596	16.05	2251662	18.03	1992972	23.63
LOWER LIMIT	182149	15.05	562916	17.03	498243	22.63
EPA SAMPLE NO.						
VBLKA48	327879	15.53	1042086	17.53	896547	23.13
LCSA48	305068	15.53	955066	17.52	866018	23.13
CC035	195859	15.52	590564	17.52	526730	23.12
CC144	190133	15.52	587895	17.52	526123	23.12
CC144	196941	15.52	580957	17.52	513988	23.12
CC170	194549	15.53	604379	17.52	525141	23.12

AREA: Upper Limit +100% of internal standard area.
Lower Limit -50% of internal standard area.
R.T.: Upper Limit +0.5 minutes of internal standard R.T.
Lower Limit -0.5 minutes of internal standard R.T.

All values outside of the QC limits are flagged with an * in the # column.

Sample Data

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: CC035 Date Collected: 06/03/05 Date Received: 06/07/05
Lab Sample ID: 4538862 Date Analyzed: 06/09/05 Time Analyzed: 02:24
Canister ID: SUMMA0035 Pressure Rec'd: 15.1 psia Final Pressure: 30.2 psia
Injection Volume: 250 cc Nominal Volume: 125 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00131.D

CAS RN	COMPOUND NAME	CONCENTRATION	UNITS: MDL ug/m3	Q
75-71-8	Dichlorodifluoromethane	4		J
76-14-2	Freon 114	1		U
74-87-3	Chloromethane	0.4		U
75-01-4	Vinyl Chloride	0.5		U
74-83-9	Bromomethane	0.8		U
75-00-3	Chloroethane	0.5		U
75-69-4	Trichlorofluoromethane	2		J
75-35-4	1,1-Dichloroethene	0.8		U
76-13-1	Freon 113	4		U
107-05-1	3-Chloropropene	2		U
75-09-2	Methylene Chloride	2		U
75-34-3	1,1-Dichloroethane	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.8		U
67-66-3	Chloroform	1		U
71-55-6	1,1,1-Trichloroethane	1		U
56-23-5	Carbon Tetrachloride	1		U
107-06-2	1,2-Dichloroethane	0.8		U
71-43-2	Benzene	2		J
79-01-6	Trichloroethene	1		U
78-87-5	1,2-Dichloropropane	0.9		U
10061-01-5	cis-1,3-Dichloropropene	0.9		U
108-88-3	Toluene	6		
10061-02-6	trans-1,3-Dichloropropene	0.9		U
79-00-5	1,1,2-Trichloroethane	1		U
127-18-4	Tetrachloroethene	2		J
106-93-4	1,2-Dibromoethane	2		U
108-90-7	Chlorobenzene	0.9		U
100-41-4	Ethylbenzene	2		J
1330-20-7	m/p-Xylene	5		
95-47-6	o-Xylene	2		J
100-42-5	Styrene	0.9		U
79-34-5	1,1,2,2-Tetrachloroethane	1		U
622-96-8	4-Ethyltoluene	1		J
108-67-8	1,3,5-Trimethylbenzene	1		U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: CC035 Date Collected: 06/03/05 Date Received: 06/07/05
Lab Sample ID: 4538862 Date Analyzed: 06/09/05 Time Analyzed: 02:24
Canister ID: SUMMA0035 Pressure Rec'd: 15.1 psia Final Pressure: 30.2 psia
Injection Volume: 250 cc Nominal Volume: 125 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00131.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ug/m3	Q
95-63-6	1,2,4-Trimethylbenzene	2	J
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
95-50-1	1,2-Dichlorobenzene	3	U
120-82-1	1,2,4-Trichlorobenzene	7	U

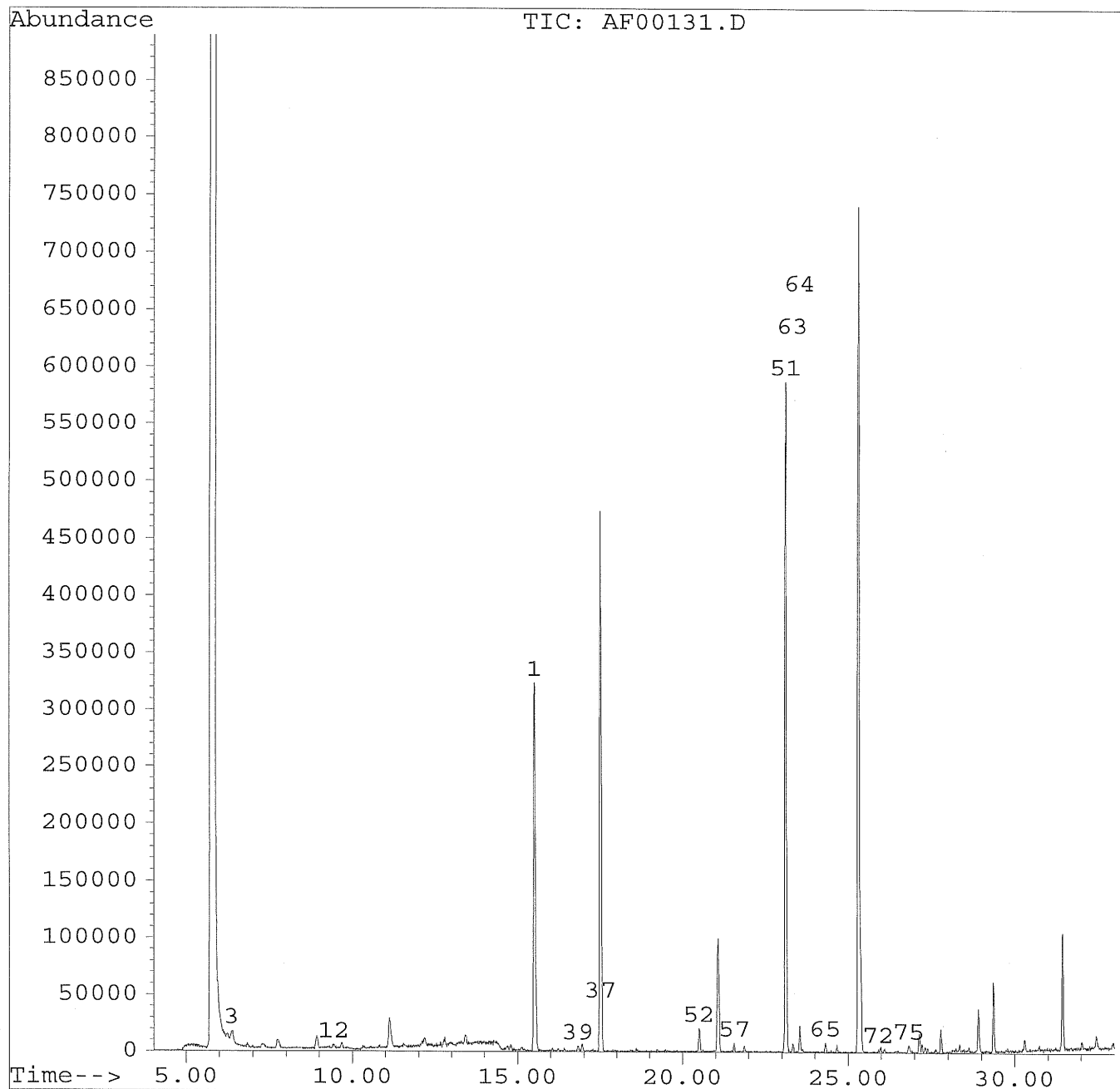
U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00131.D
Acq On : 9 Jun 05 2:24 am
Sample : 4538862 250CC
Misc :
Quant Time: Jul 12 23:00 2005

Vial: 32
Operator: rdg
Inst : HP4224
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
Title : TO14 SCAN METHOD
Last Update : Tue Jul 12 07:36:35 2005
Response via : Single Level Calibration



8832

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00131.D
 Acq On : 9 Jun 05 2:24 am
 Sample : 4538862 250CC
 Misc :
 Quant Time: Jul 12 23:00 2005

Vial: 32
 Operator: rdg
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Tue Jul 12 07:36:35 2005
 Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	15.52	130	195859	10.00	PPB	-0.03
37) 1,4-Difluorobenzene	17.52	114	590564	10.00	PPB	-0.01
51) Chlorobenzene d5	23.12	117	526730	10.00	PPB	-0.01

System Monitoring Compounds %Recovery

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	6.38	85	16151	0.75	PPB	91
12) Trichlorofluoromethane	9.45	101	6460	0.35	PPB	m 29
39) Benzene	16.83	78	7459	0.53	PPB	78
52) Toluene	20.50	91	26233	1.49	PPB	96
57) Tetrachloroethene	21.57	166	3369	0.31	PPB	89
63) Ethylbenzene	23.34	91	10106	0.40	PPB	92
64) m/p-Xylene	23.55	91	24059	1.24	PPB	97
65) o-Xylene	24.33	91	8136	0.43	PPB	90
72) 4-Ethyltoluene	25.91	105	5225	0.22	PPB	# 57
75) 1,2,4-Trimethylbenzene	26.83	105	6197	0.34	PPB	78

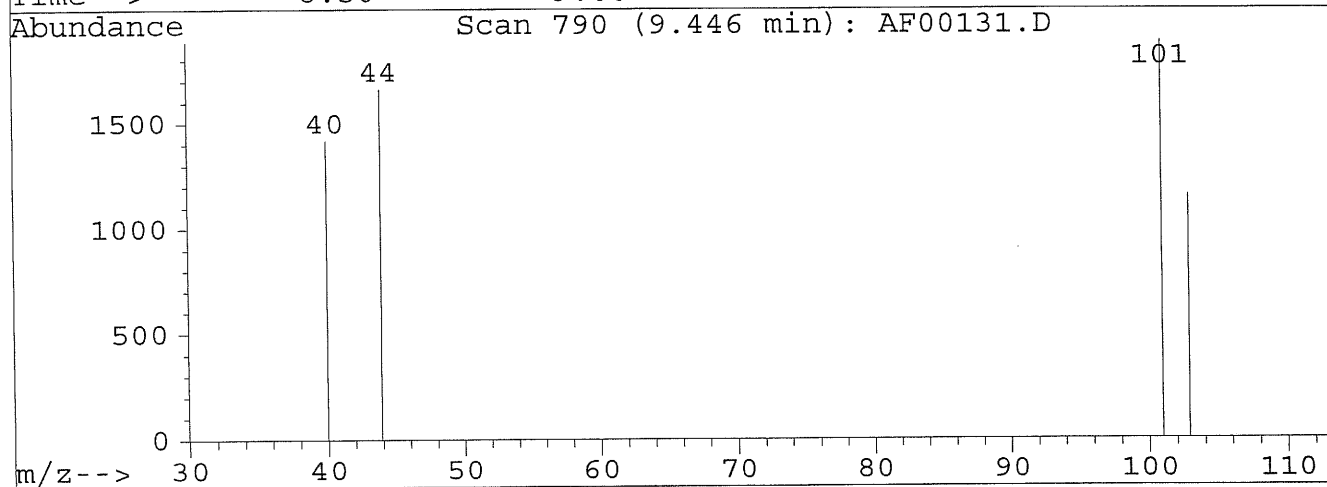
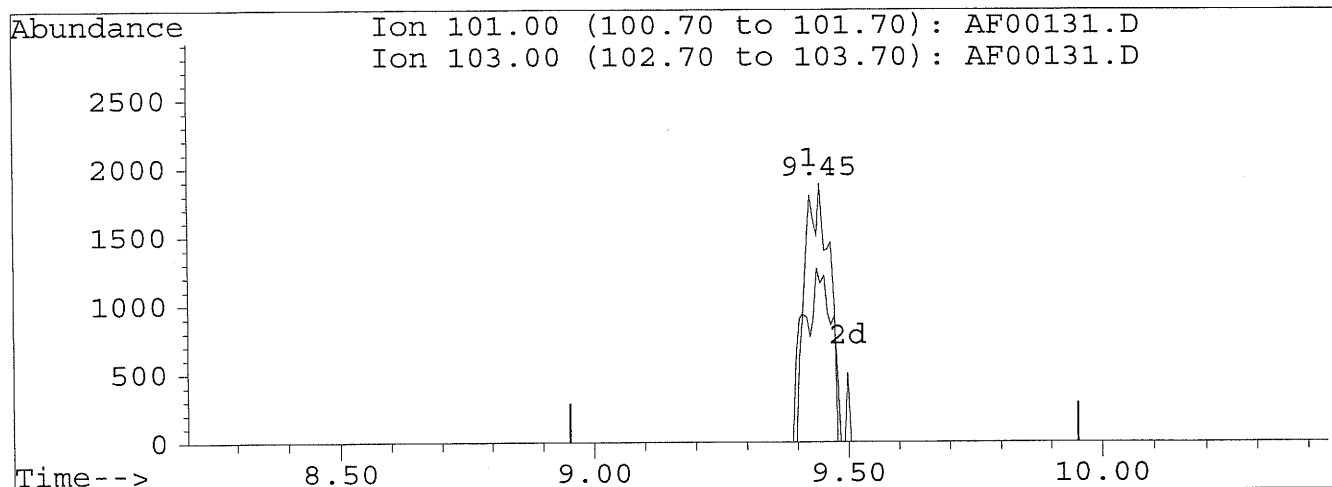
8833

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00131.D
 Acq On : 9 Jun 05 2:24 am
 Sample : 4538862 250CC
 Misc :
 Quant Time: Jun 9 17:45 2005

Vial: 32
 Operator: rdg
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Wed Jun 08 19:48:53 2005
 Response via : Single Level Calibration



TIC: AF00131.D

(12) Trichlorofluoromethane

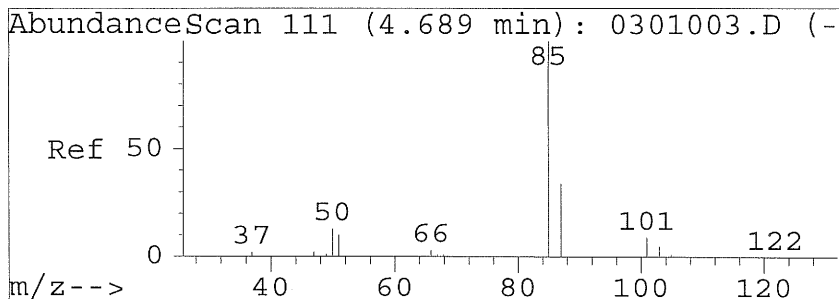
9.45min 0.35PPB m

response 6460

Ion	Exp%	Act%
101.00	100	100
103.00	65.30	61.33
0.00	0.00	0.00
0.00	0.00	0.00

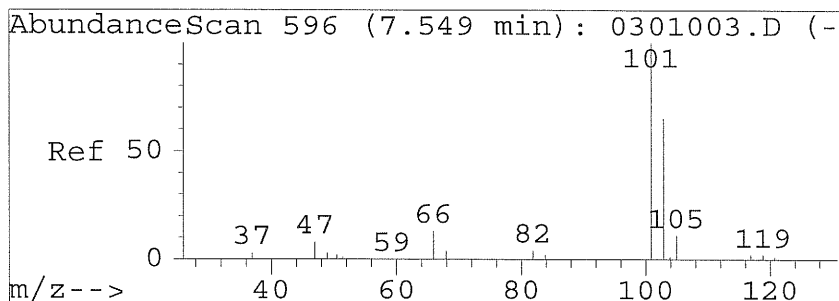
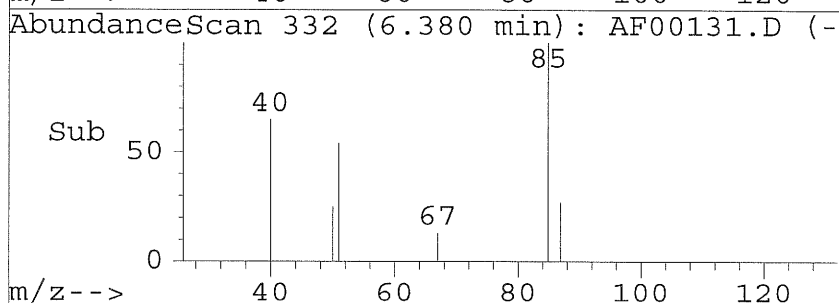
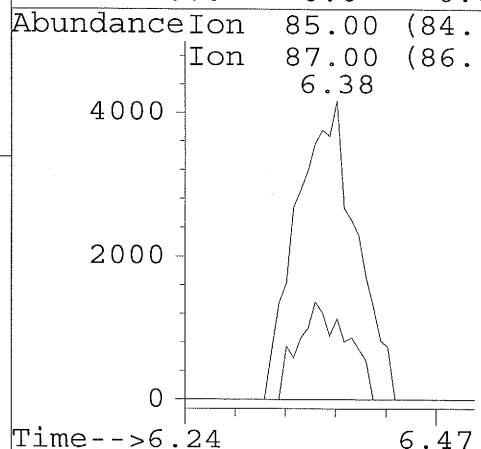
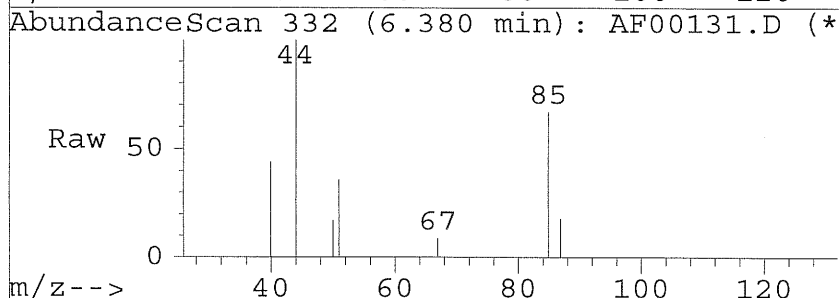
*split peak
 10/1/04
 6/9/05*

from 703 6/10/06



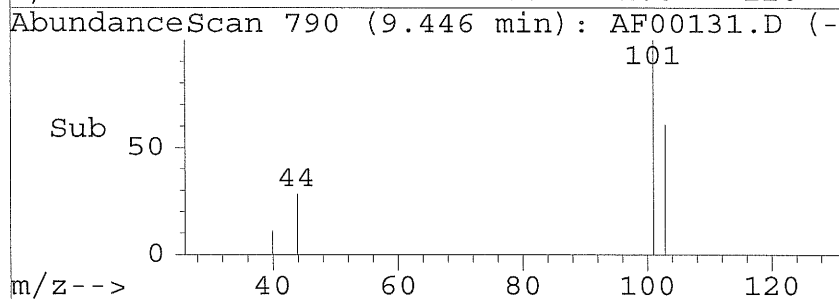
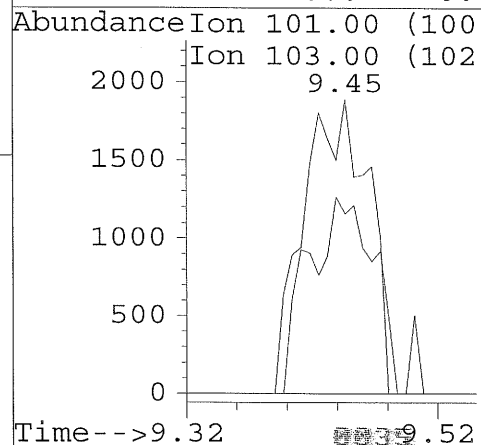
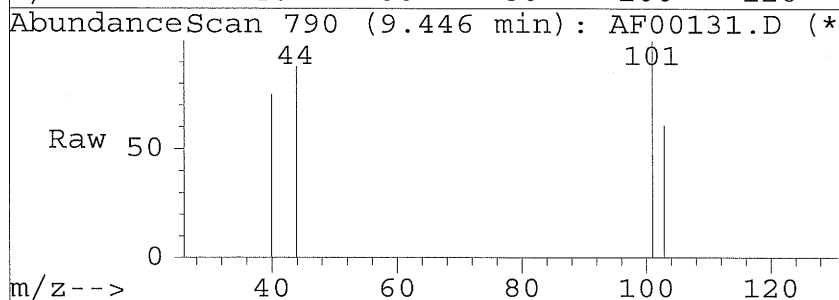
#3
 Dichlorodifluoromethane
 Concen: 0.75 PPB
 RT: 6.38 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: AF00131.D
 Acq: 9 Jun 05 2:24 am

Tgt Ion:85	Resp:	16151
Ion Ratio	Lower	Upper
85	100	
87	26.9	12.0 52.0
0	0.0	0.0 0.0
0	0.0	0.0 0.0

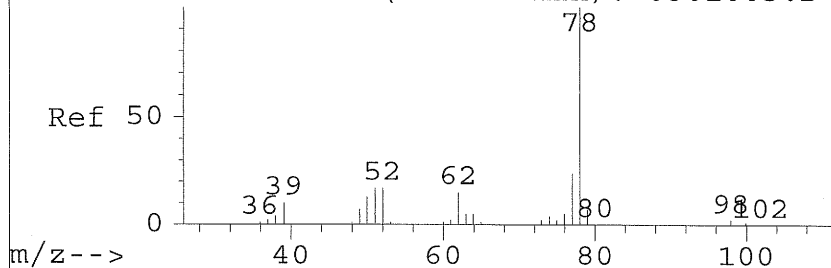


#12
 Trichlorofluoromethane
 Concen: 0.35 PPB m
 RT: 9.45 min Scan# 790
 Delta R.T. -0.01 min
 Lab File: AF00131.D
 Acq: 9 Jun 05 2:24 am

Tgt Ion:101	Resp:	6460
Ion Ratio	Lower	Upper
101	100	
103	61.3	45.3 85.3
0	0.0	0.0 0.0
0	0.0	0.0 0.0



AbundanceScan 1895 (15.214 min): 0301003.D



#39

Benzene

Concen: 0.53 PPB

RT: 16.83 min Scan# 1893

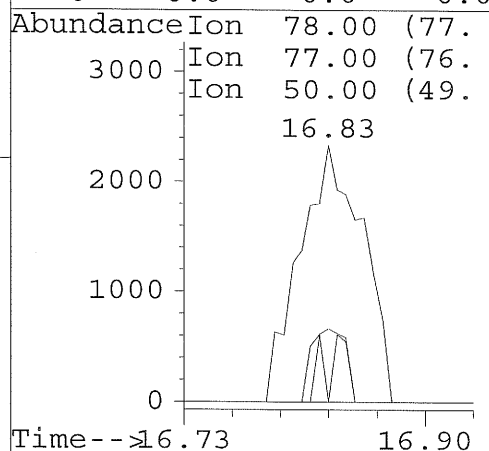
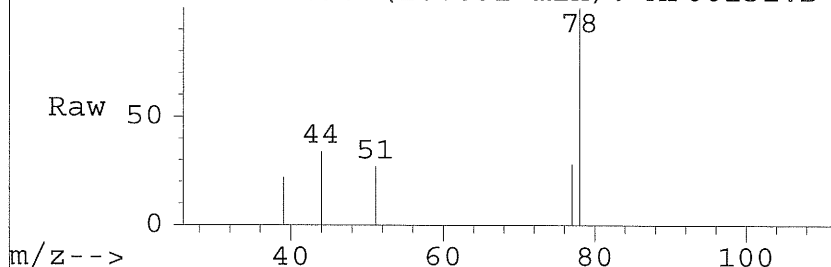
Delta R.T. -0.02 min

Lab File: AF00131.D

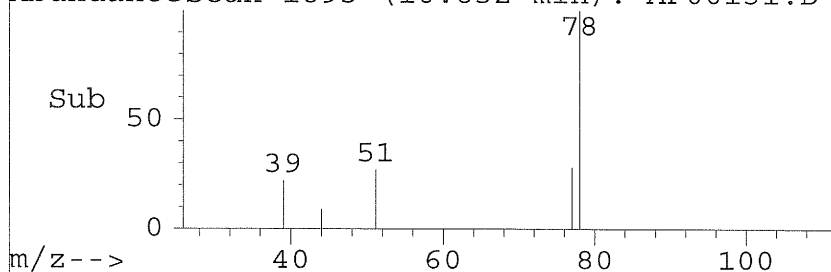
Acq: 9 Jun 05 2:24 am

Tgt Ion:	78	Resp:	7459
Ion	Ratio	Lower	Upper
78	100		
77	15.7	4.6	44.6
50	9.3	2.4	42.4
0	0.0	0.0	0.0

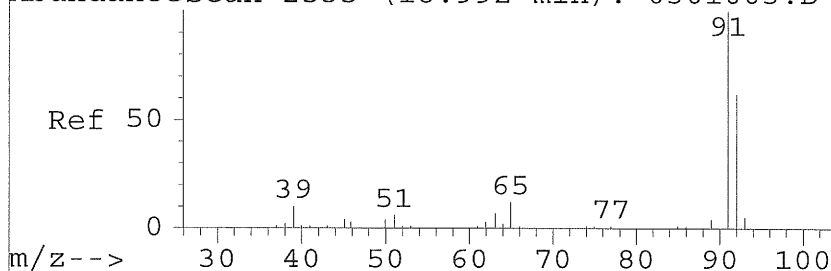
AbundanceScan 1893 (16.832 min): AF00131.D



AbundanceScan 1893 (16.832 min): AF00131.D



AbundanceScan 2535 (18.992 min): 0301003.D



#52

Toluene

Concen: 1.49 PPB

RT: 20.50 min Scan# 2439

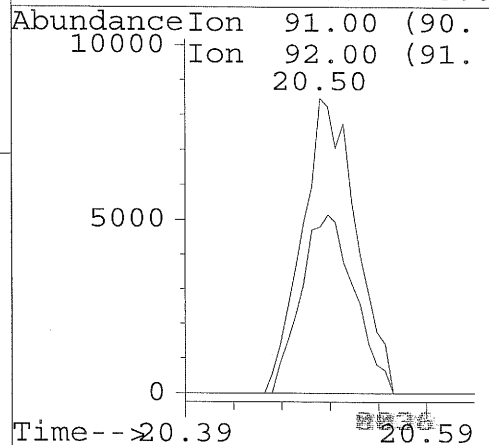
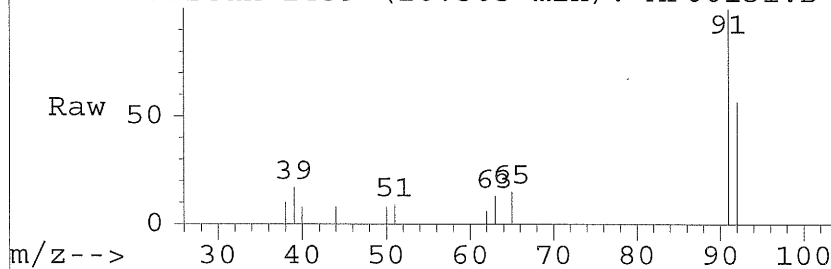
Delta R.T. -0.02 min

Lab File: AF00131.D

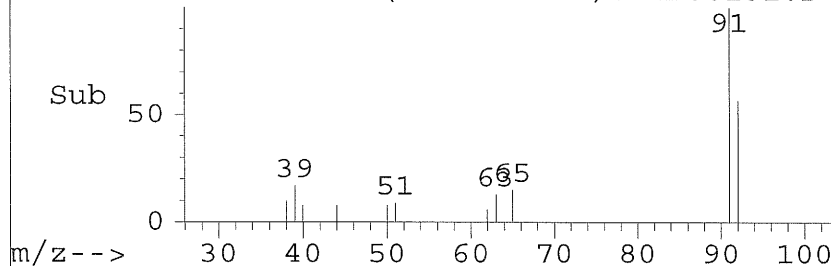
Acq: 9 Jun 05 2:24 am

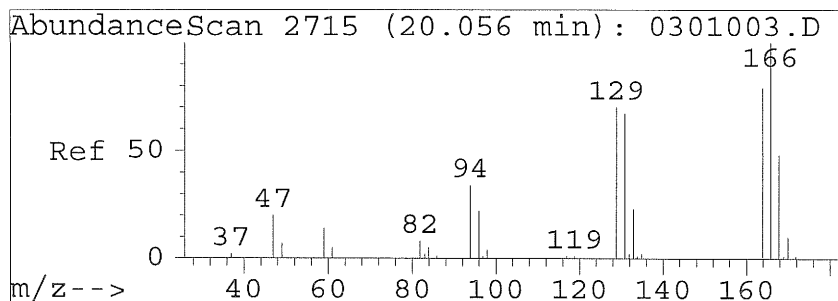
Tgt Ion:	91	Resp:	26233
Ion	Ratio	Lower	Upper
91	100		
92	60.4	37.5	77.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

AbundanceScan 2439 (20.505 min): AF00131.D

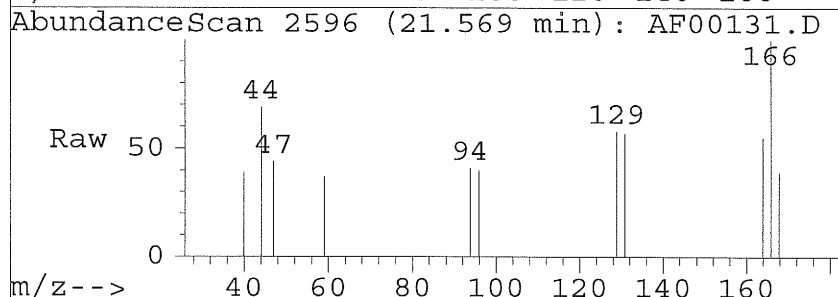


AbundanceScan 2439 (20.505 min): AF00131.D

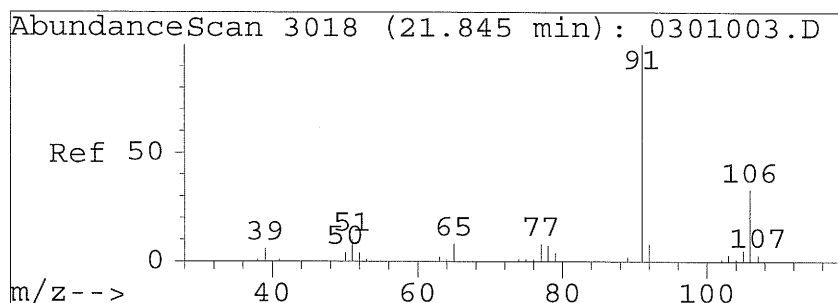
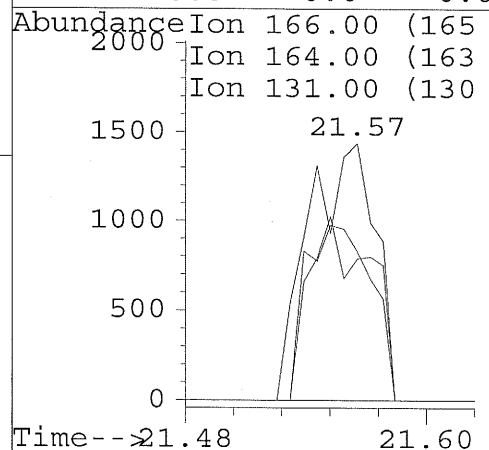
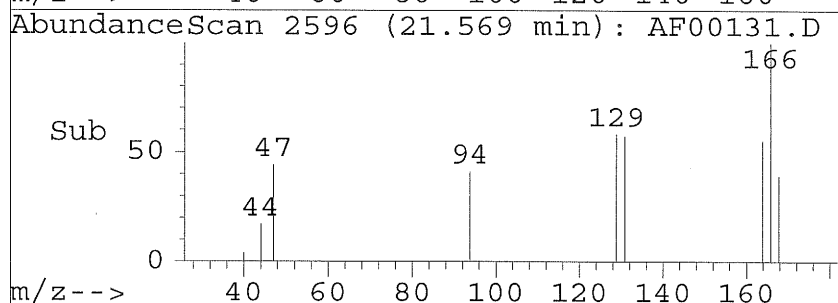




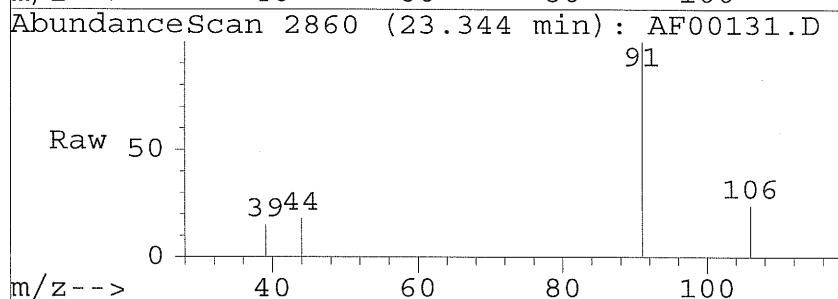
#57
Tetrachloroethene
Concen: 0.31 PPB
RT: 21.57 min Scan# 2596
Delta R.T. -0.00 min
Lab File: AF00131.D
Acq: 9 Jun 05 2:24 am



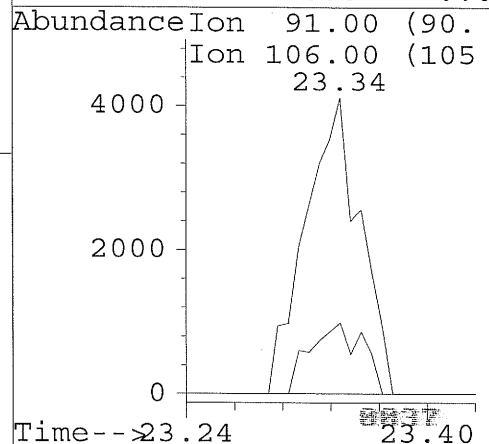
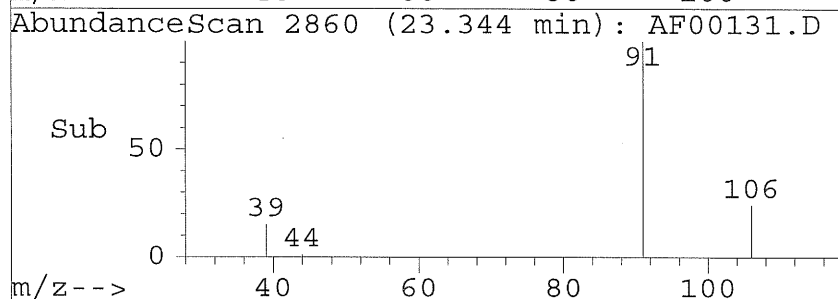
Tgt Ion:166 Resp: 3369
Ion Ratio Lower Upper
166 100
164 65.4 58.3 98.3
131 66.8 52.3 92.3
0 0.0 0.0 0.0



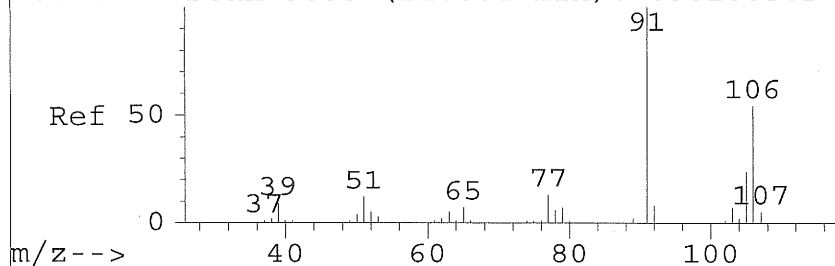
#63
Ethylbenzene
Concen: 0.40 PPB
RT: 23.34 min Scan# 2860
Delta R.T. -0.00 min
Lab File: AF00131.D
Acq: 9 Jun 05 2:24 am



Tgt Ion:91 Resp: 10106
Ion Ratio Lower Upper
91 100
106 23.1 7.5 47.5
0 0.0 0.0 0.0
0 0.0 0.0 0.0



AbundanceScan 3055 (22.064 min): 0301003.D



#64

m/p-Xylene

Concen: 1.24 PPB

RT: 23.55 min Scan# 2890

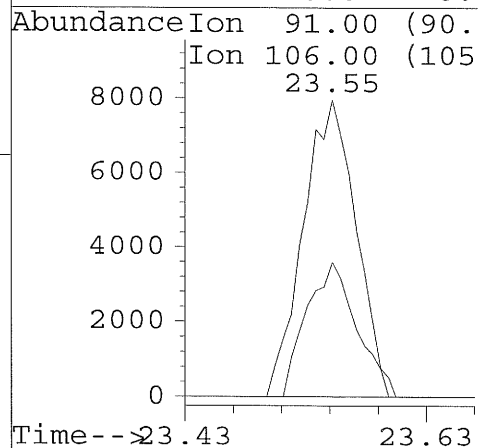
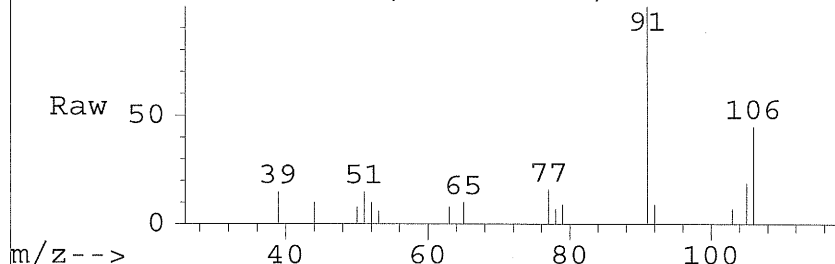
Delta R.T. -0.01 min

Lab File: AF00131.D

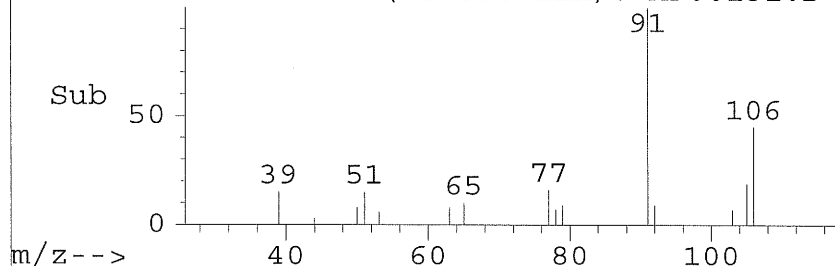
Acq: 9 Jun 05 2:24 am

Tgt Ion:	91	Resp:	24059
Ion Ratio	Lower	Upper	
91	100		
106	42.0	23.7	63.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0

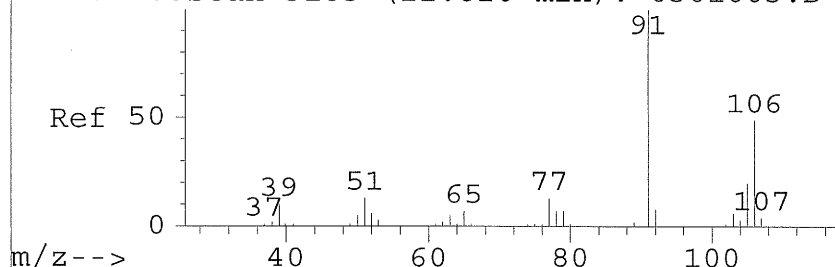
AbundanceScan 2890 (23.548 min): AF00131.D



AbundanceScan 2890 (23.548 min): AF00131.D



AbundanceScan 3183 (22.820 min): 0301003.D



#65

o-Xylene

Concen: 0.43 PPB

RT: 24.33 min Scan# 3006

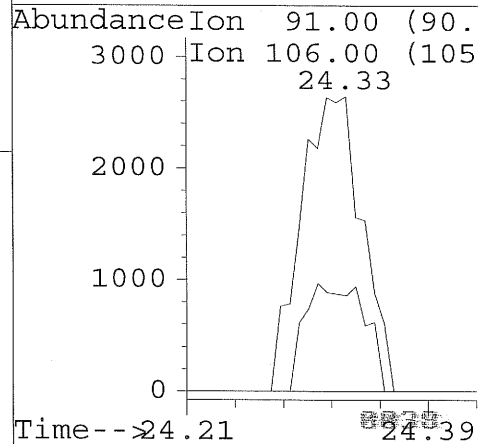
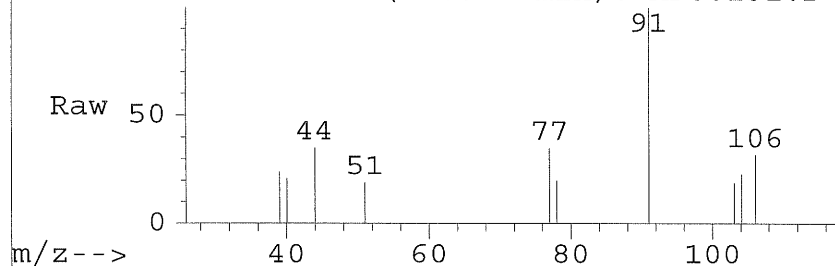
Delta R.T. 0.00 min

Lab File: AF00131.D

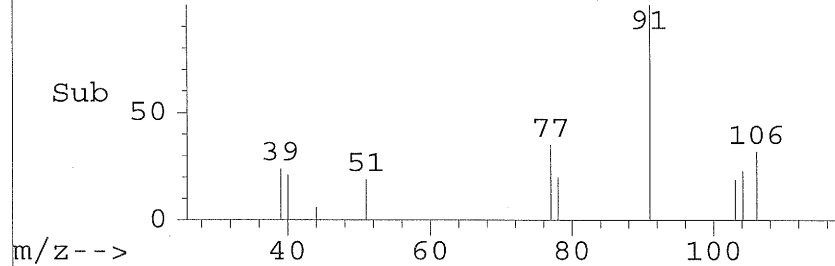
Acq: 9 Jun 05 2:24 am

Tgt Ion:	91	Resp:	8136
Ion Ratio	Lower	Upper	
91	100		
106	35.6	22.1	62.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

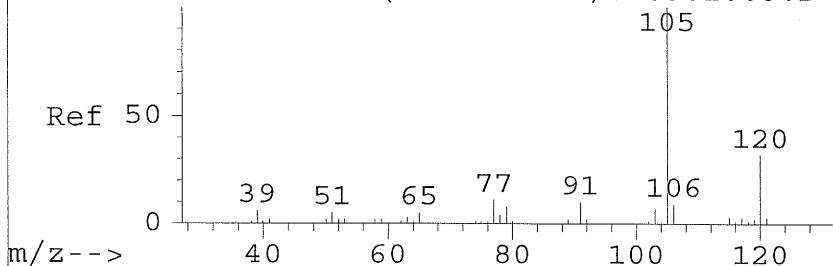
AbundanceScan 3006 (24.327 min): AF00131.D



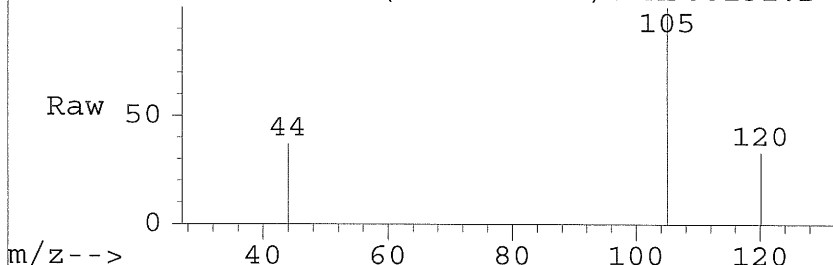
AbundanceScan 3006 (24.327 min): AF00131.D



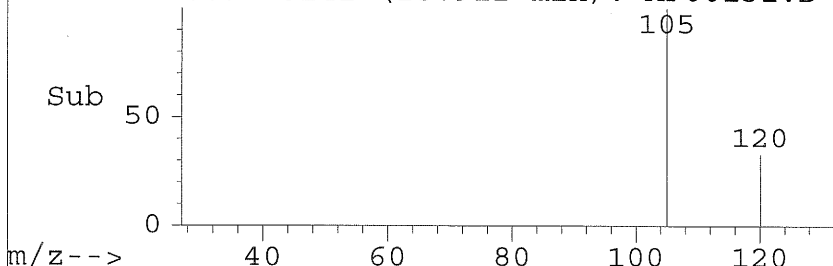
AbundanceScan 3465 (24.487 min): 0301003.D



AbundanceScan 3242 (25.912 min): AF00131.D



AbundanceScan 3242 (25.912 min): AF00131.D



#72

4-Ethyltoluene

Concen: 0.22 PPB

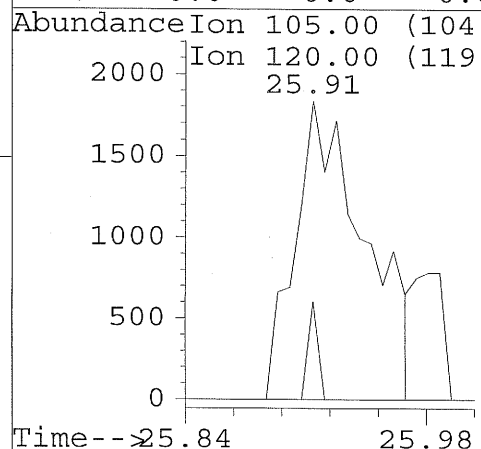
RT: 25.91 min Scan# 3242

Delta R.T. -0.07 min

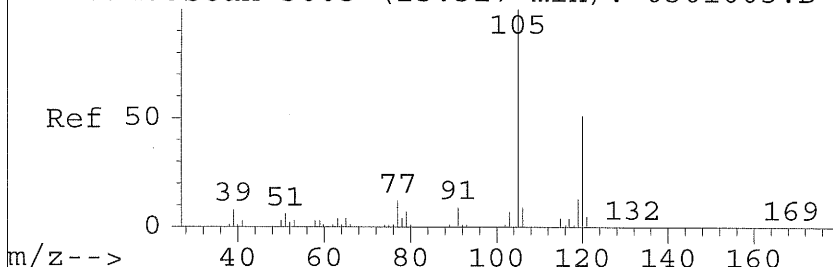
Lab File: AF00131.D

Acq: 9 Jun 05 2:24 am

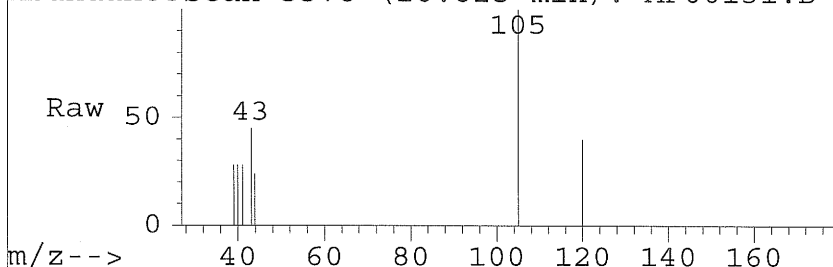
Tgt Ion:	105	Resp:	5225
Ion Ratio	Lower	Upper	
105	100		
120	4.7	6.6	46.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0



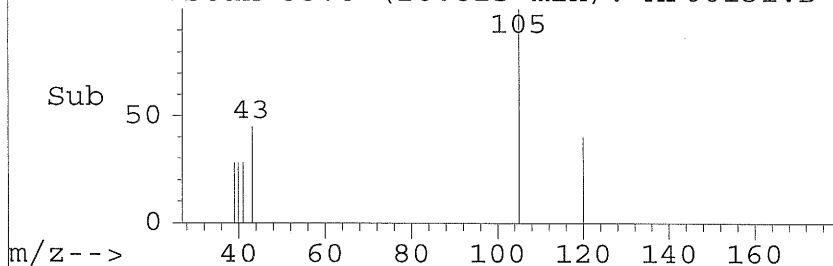
AbundanceScan 3605 (25.317 min): 0301003.D



AbundanceScan 3378 (26.825 min): AF00131.D



AbundanceScan 3378 (26.825 min): AF00131.D



#75

1,2,4-Trimethylbenzene

Concen: 0.34 PPB

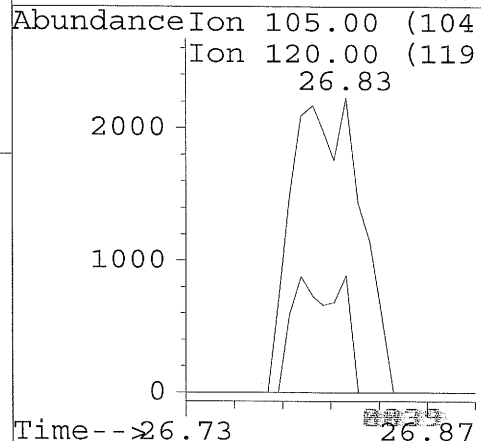
RT: 26.83 min Scan# 3378

Delta R.T. 0.00 min

Lab File: AF00131.D

Acq: 9 Jun 05 2:24 am

Tgt Ion:	105	Resp:	6197
Ion Ratio	Lower	Upper	
105	100		
120	28.0	22.1	62.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: CC144 Date Collected: 06/03/05 Date Received: 06/07/05
Lab Sample ID: 4538863 Date Analyzed: 06/09/05 Time Analyzed: 03:49
Canister ID: SUMMA0144 Pressure Rec'd: 13.5 psia Final Pressure: 26.9 psia
Injection Volume: 250 cc Nominal Volume: 125 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00133.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ug/m3	Q
75-71-8	Dichlorodifluoromethane	4	J
76-14-2	Freon 114	1	U
74-87-3	Chloromethane	0.4	U
75-01-4	Vinyl Chloride	21	
74-83-9	Bromomethane	0.8	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	2	J
75-35-4	1,1-Dichloroethene	0.9	J
76-13-1	Freon 113	4	U
107-05-1	3-Chloropropene	2	U
75-09-2	Methylene Chloride	4	
75-34-3	1,1-Dichloroethane	0.8	U
156-59-2	cis-1,2-Dichloroethene	230	
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	4	
71-43-2	Benzene	2	J
79-01-6	Trichloroethene	42	
78-87-5	1,2-Dichloropropane	0.9	U
10061-01-5	cis-1,3-Dichloropropene	0.9	U
108-88-3	Toluene	67	
10061-02-6	trans-1,3-Dichloropropene	0.9	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	4000	U D
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	0.9	U
100-41-4	Ethylbenzene	19	
1330-20-7	m/p-Xylene	33	
95-47-6	o-Xylene	14	
100-42-5	Styrene	6	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
622-96-8	4-Ethyltoluene	5	
108-67-8	1,3,5-Trimethylbenzene	3	J

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: CC144 Date Collected: 06/03/05 Date Received: 06/07/05
Lab Sample ID: 4538863 Date Analyzed: 06/09/05 Time Analyzed: 03:49
Canister ID: SUMMA0144 Pressure Rec'd: 13.5 psia Final Pressure: 26.9 psia
Injection Volume: 250 cc Nominal Volume: 125 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00133.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ug/m3	Q
95-63-6	1,2,4-Trimethylbenzene	12	
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
95-50-1	1,2-Dichlorobenzene	3	U
120-82-1	1,2,4-Trichlorobenzene	7	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

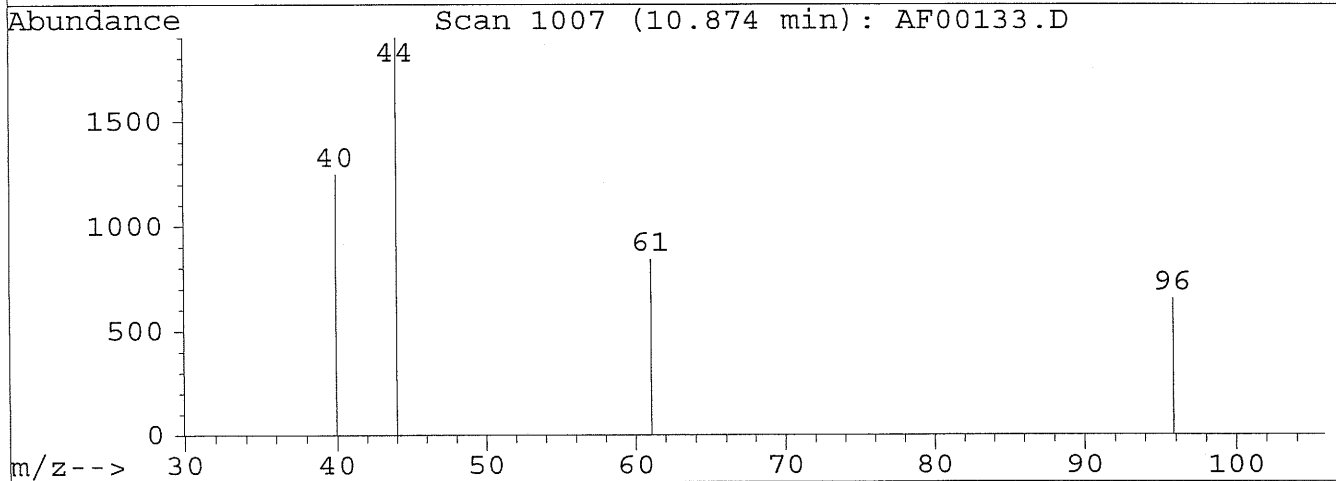
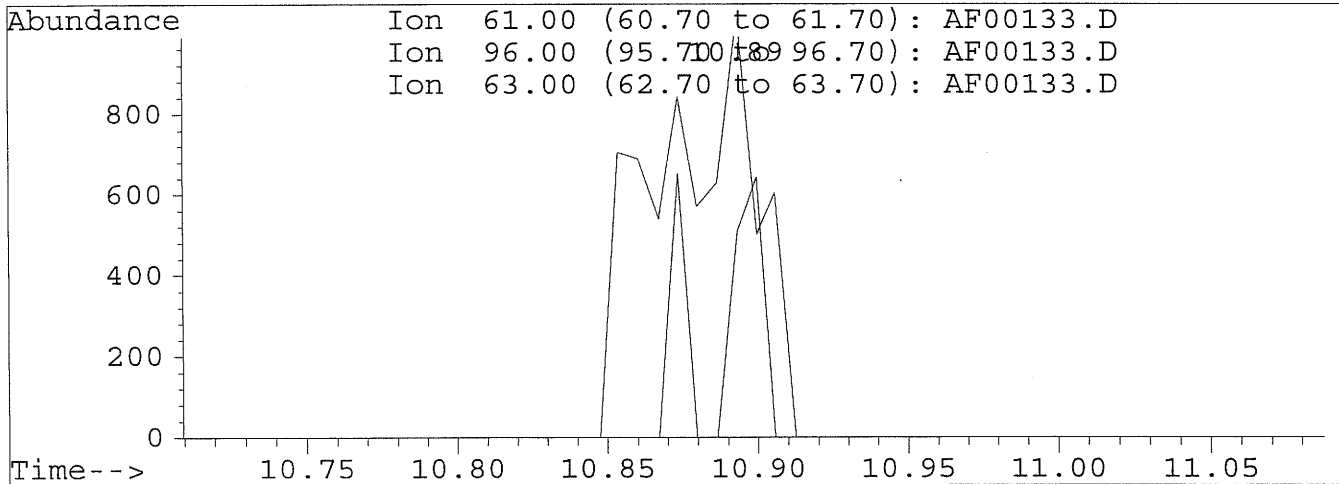
J = Compound was detected, but below the limit of quantitation.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00133.D
 Acq On : 9 Jun 05 3:49 am
 Sample : 4538863 250CC
 Misc :
 Quant Time: Jun 9 17:48 2005

Vial: 34
 Operator: rdg
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Wed Jun 08 19:48:53 2005
 Response via : Single Level Calibration



TIC: AF00133.D

(15) 1,1-Dichloroethene

10.89min 0.23PPB m

response 2384

Ion	Exp%	Act%
61.00	100	100
96.00	46.60	48.90
63.00	31.30	0.00
0.00	0.00	0.00

split peak
rdg
6/9/05
from 73
6/14/06

8842

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00133.D
 Acq On : 9 Jun 05 3:49 am
 Sample : 4538863 250CC
 Misc :
 Quant Time: Jul 12 23:04 2005

Vial: 34
 Operator: rdg
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Tue Jul 12 07:36:35 2005
 Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	15.52	130	196941	10.00	PPB	-0.02
37) 1,4-Difluorobenzene	17.52	114	580957	10.00	PPB	-0.02
51) Chlorobenzene d5	23.12	117	513988	10.00	PPB	-0.01

System Monitoring Compounds

%Recovery

Target Compounds

Qvalue

3) Dichlorodifluoromethane	6.37	85	18963	0.88	PPB		77
7) Vinyl Chloride	7.35	62	52296	8.39	PPB		97
12) Trichlorofluoromethane	9.45	101	6812	0.37	PPB	#	71
15) 1,1-Dichloroethene	10.89	61	2384	0.23	PPB	m	65
22) Methylene Chloride	12.09	84	6469	1.28	PPB	m	73
30) cis-1,2-Dichloroethene	15.01	61	463367	58.45	PPB	#	68
31) 2-Butanone	15.10	72	7198	7.89	PPB	#	1
38) 1,2-Dichloroethane	16.86	62	9317	1.04	PPB		67
39) Benzene	16.83	78	8816	0.64	PPB		88
41) Heptane	17.28	43	24703	3.13	PPB	#	91
42) Trichloroethene	18.07	130	62985	7.84	PPB		92
50) 4-Methyl-2-Pentanone	20.18	43	4582	4.04	PPB	#	85
52) Toluene	20.51	91	307003	17.86	PPB		99
57) Tetrachloroethene	21.57	166	9024397	861.08	PPB		98
63) Ethylbenzene	23.34	91	107133	4.34	PPB		99
64) m/p-Xylene	23.55	91	142198	7.53	PPB		99
65) o-Xylene	24.32	91	59601	3.26	PPB		99
66) Styrene	24.33	104	20147	1.49	PPB		90
72) 4-Ethyltoluene	25.92	105	25173	1.09	PPB		94
73) 1,3,5-Trimethylbenzene	26.07	105	10192	0.59	PPB		92
75) 1,2,4-Trimethylbenzene	26.80	105	41734	2.36	PPB		98

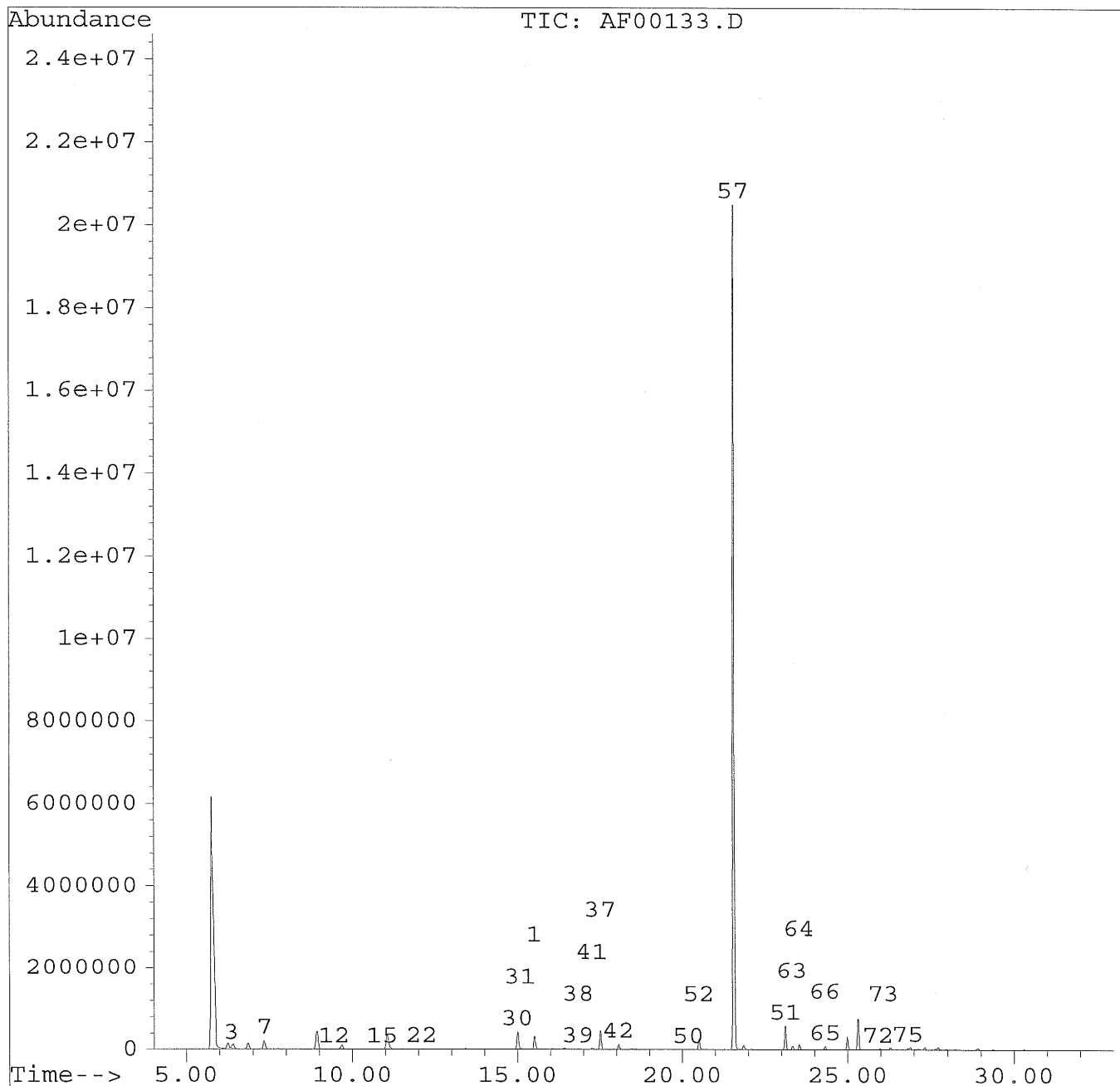
8843

Quantitation Report

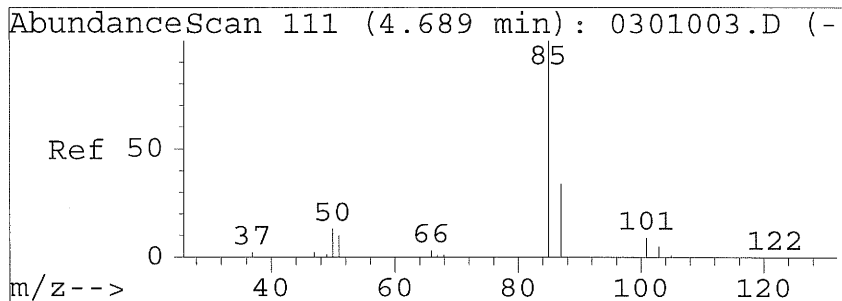
Data File : C:\HPCHEM\1\DATA\JUN08\AF00133.D
 Acq On : 9 Jun 05 3:49 am
 Sample : 4538863 250CC
 Misc :
 Quant Time: Jul 12 23:04 2005

Vial: 34
 Operator: rdg
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Tue Jul 12 07:36:35 2005
 Response via : Single Level Calibration

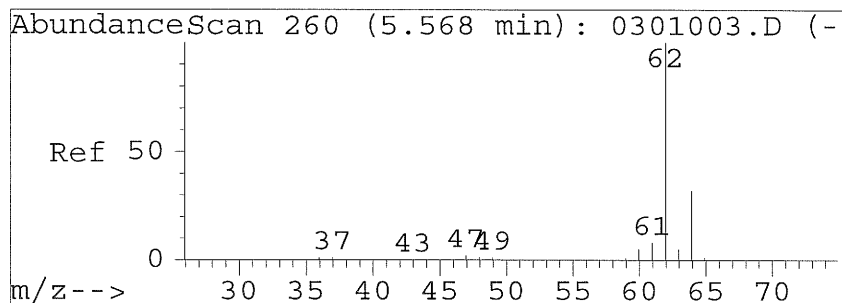
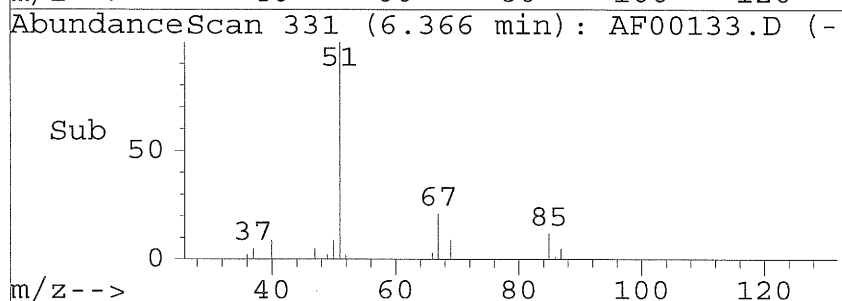
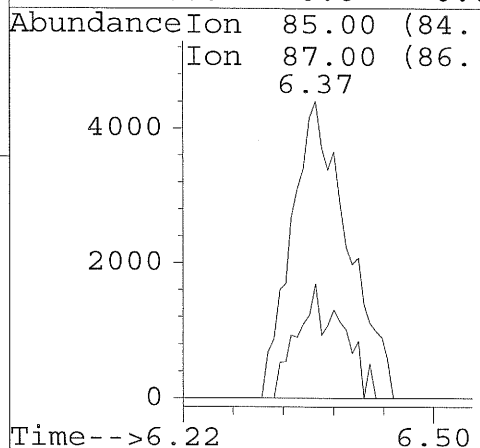
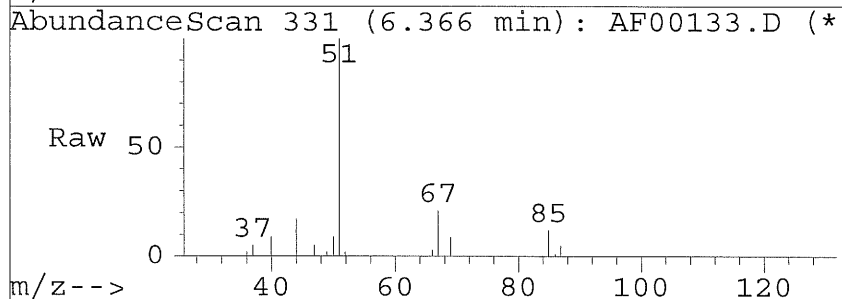


8844



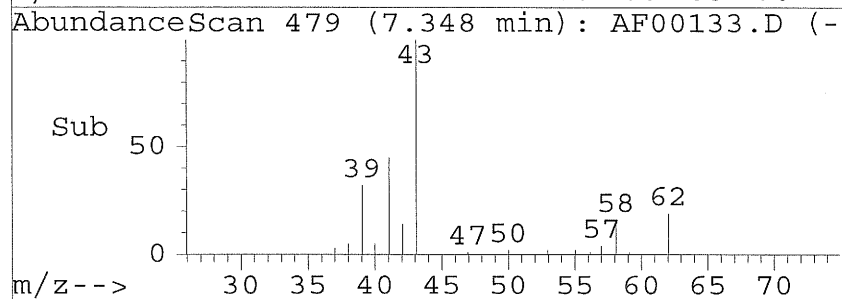
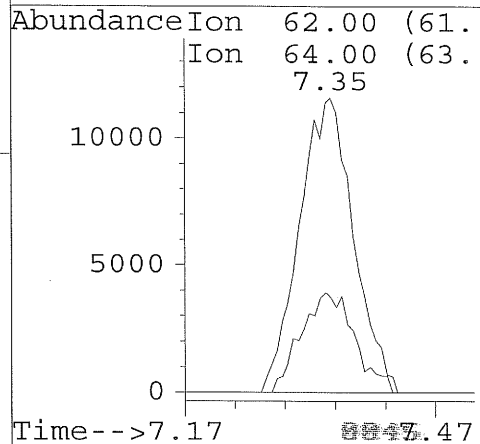
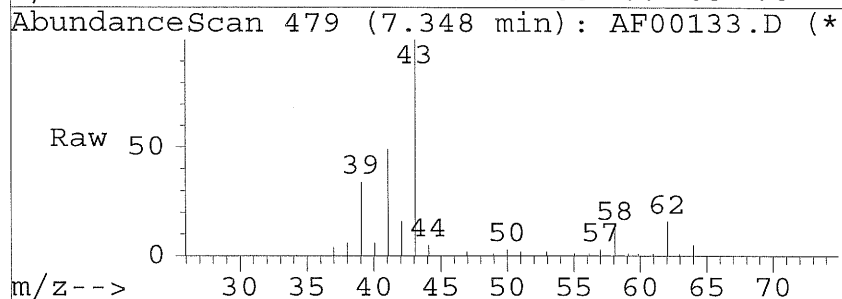
#3
 Dichlorodifluoromethane
 Concen: 0.88 PPB
 RT: 6.37 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: AF00133.D
 Acq: 9 Jun 05 3:49 am

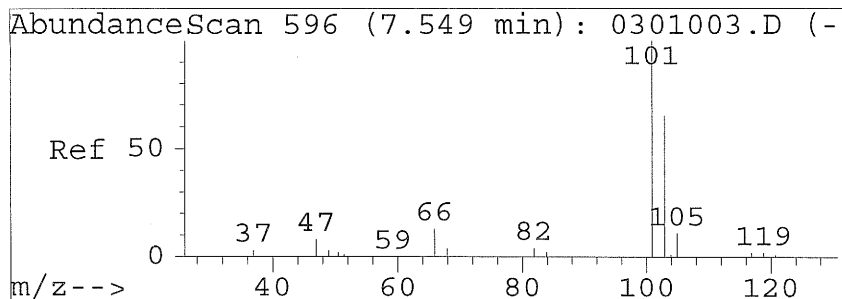
Tgt Ion:	85	Resp:	18963
Ion Ratio	Lower	Upper	
85	100		
87	18.9	12.0	52.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



#7
 Vinyl Chloride
 Concen: 8.39 PPB
 RT: 7.35 min Scan# 479
 Delta R.T. -0.01 min
 Lab File: AF00133.D
 Acq: 9 Jun 05 3:49 am

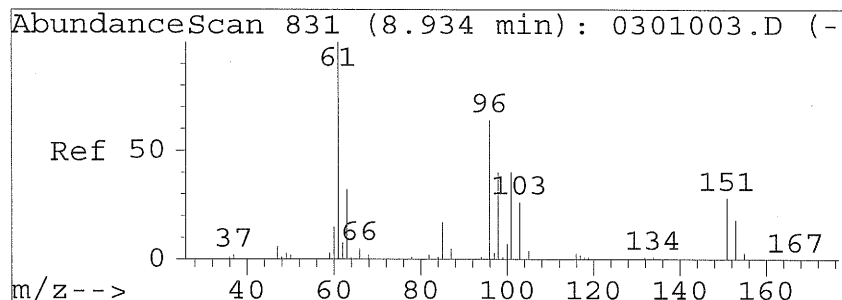
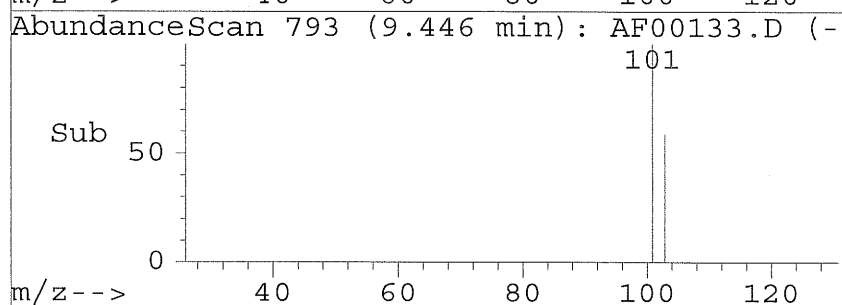
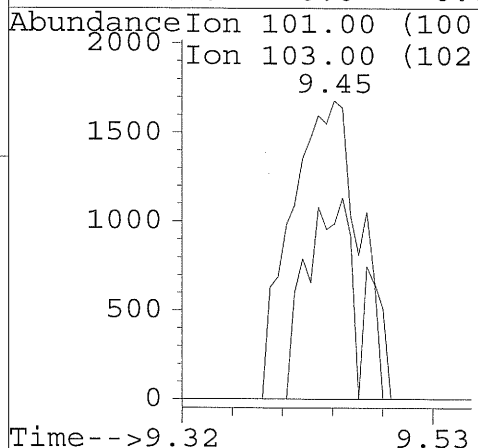
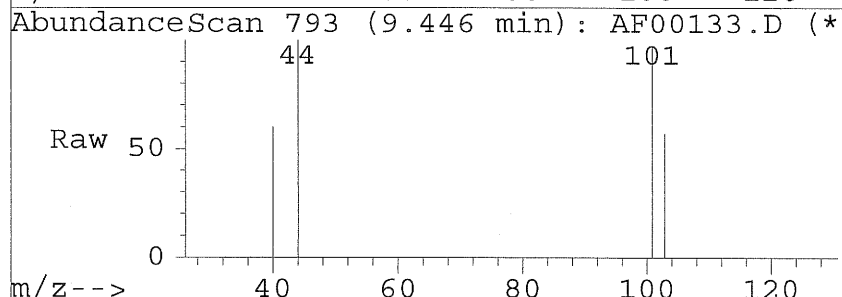
Tgt Ion:	62	Resp:	52296
Ion Ratio	Lower	Upper	
62	100		
64	33.5	11.7	51.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0





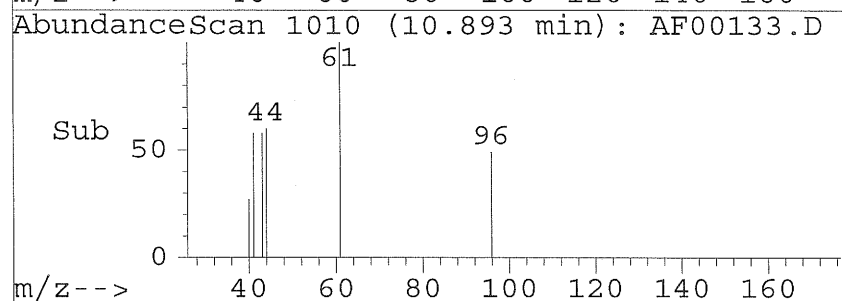
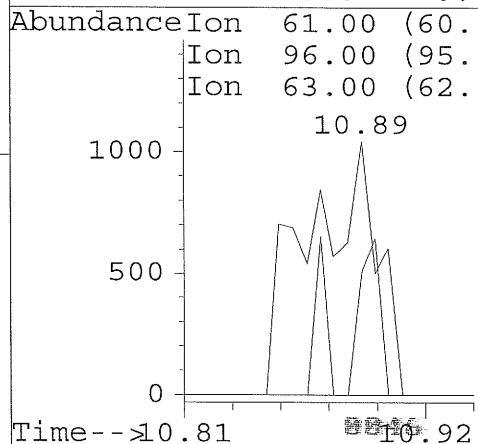
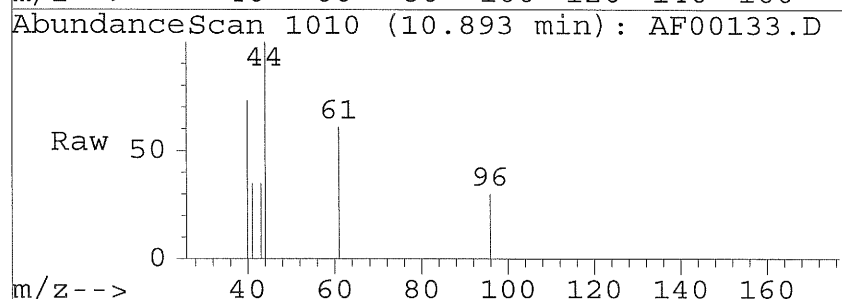
#12
Trichlorofluoromethane
Concen: 0.37 PPB
RT: 9.45 min Scan# 793
Delta R.T. -0.01 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am

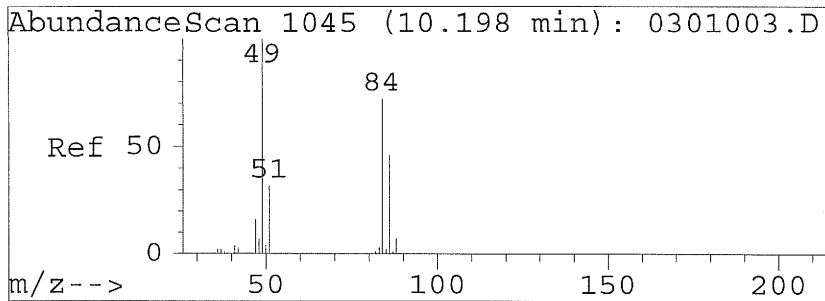
Tgt Ion:101	Resp:	6812
Ion Ratio	Lower	Upper
101	100	
103	42.6	45.3 85.3#
0	0.0	0.0 0.0
0	0.0	0.0 0.0



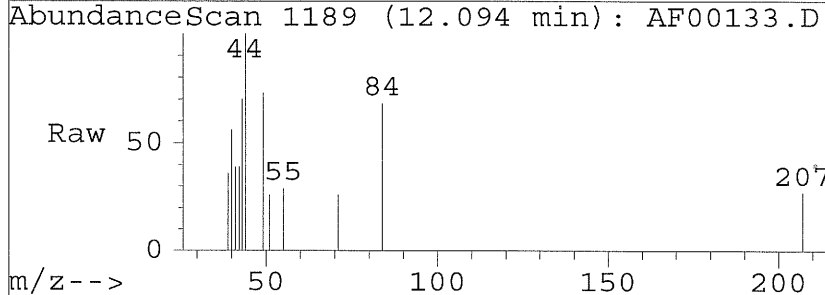
#15
1,1-Dichloroethene
Concen: 0.23 PPB m
RT: 10.89 min Scan# 1010
Delta R.T. -0.00 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am

Tgt Ion:61	Resp:	2384
Ion Ratio	Lower	Upper
61	100	
96	48.9	26.6 66.6
63	0.0	11.3 51.3#
0	0.0	0.0 0.0

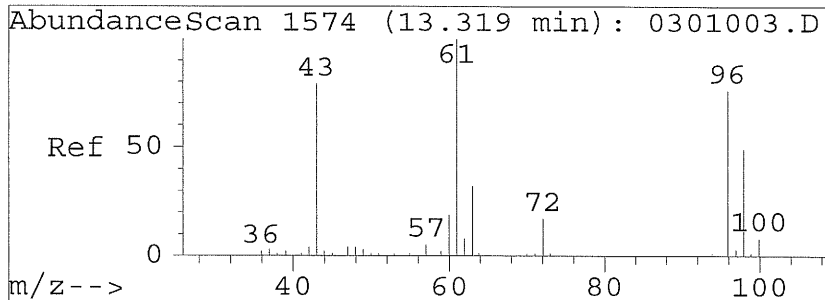
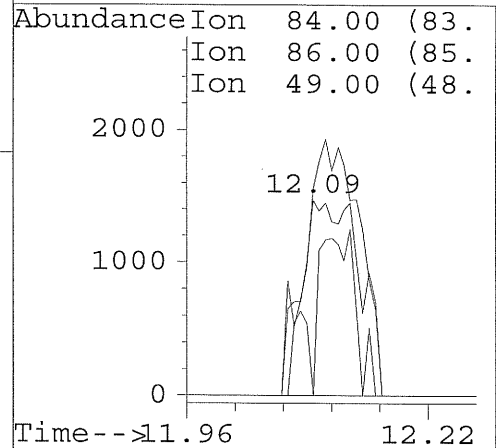
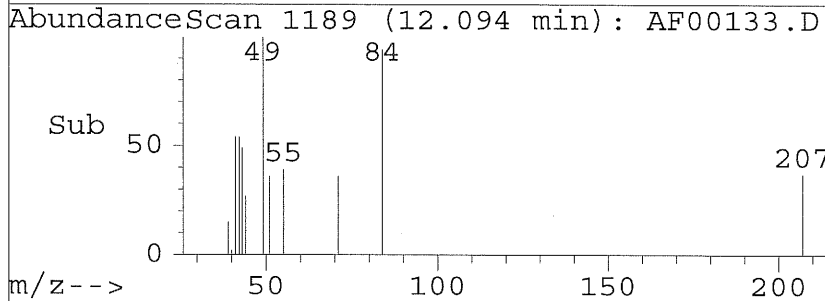




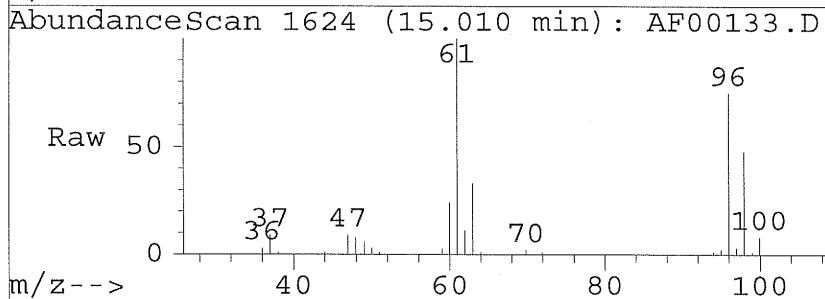
#22
Methylene Chloride
Concen: 1.28 PPB m
RT: 12.09 min Scan# 1189
Delta R.T. -0.04 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am



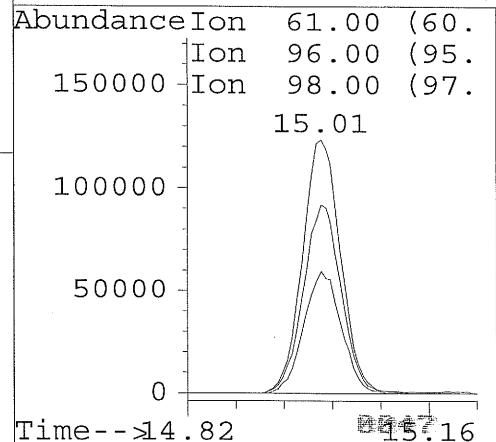
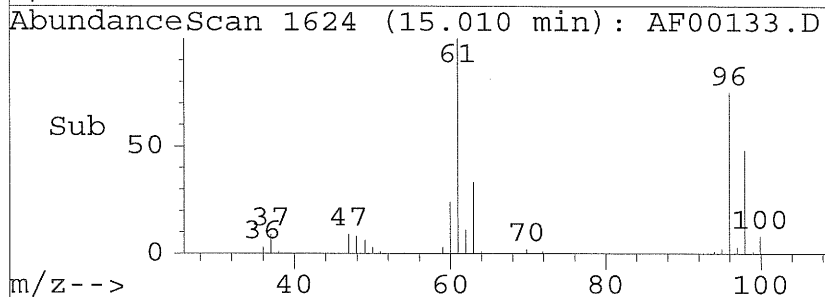
Tgt Ion:84 Resp: 6469
Ion Ratio Lower Upper
84 100
86 0.0 42.9 82.9#
49 106.2 151.7 191.7#
0 0.0 0.0 0.0

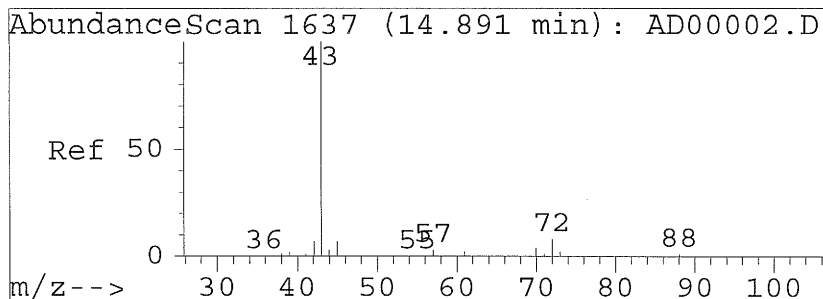


#30
cis-1,2-Dichloroethene
Concen: 58.45 PPB
RT: 15.01 min Scan# 1624
Delta R.T. -0.02 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am



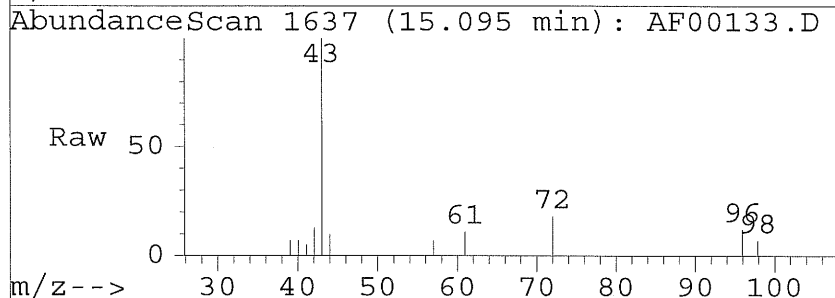
Tgt Ion:61 Resp: 463367
Ion Ratio Lower Upper
61 100
96 74.2 30.3 70.3#
98 47.2 11.4 51.4
0 0.0 0.0 0.0



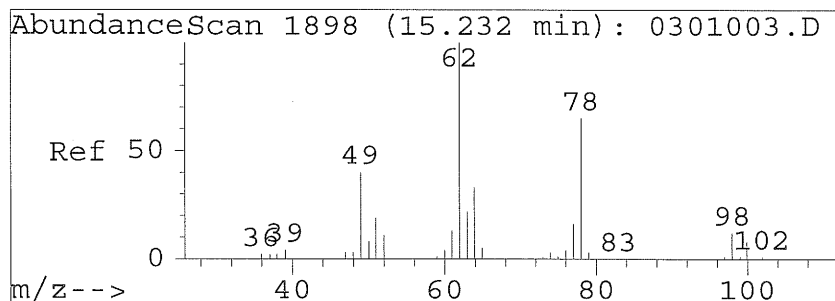
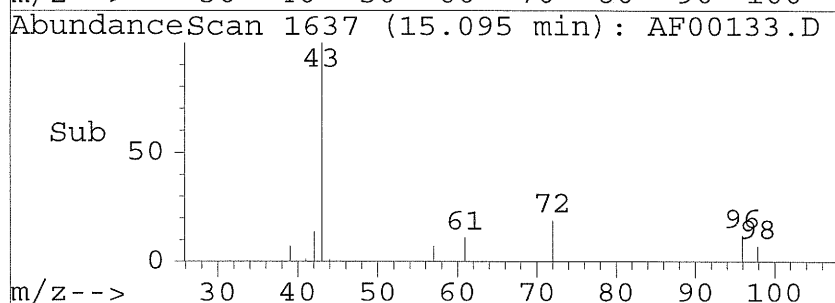
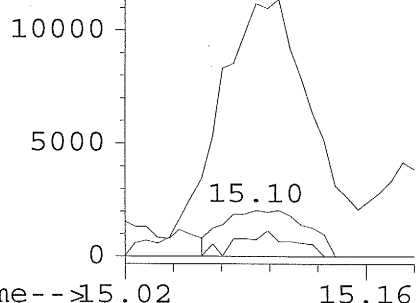


#31
2-Butanone
Concen: 7.89 PPB
RT: 15.10 min Scan# 1637
Delta R.T. 0.02 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am

Tgt Ion:	72	Resp:	7198
Ion Ratio	Lower	Upper	
72	100		
43	624.0	1057.3	1586.0#
57	35.8	30.7	46.0
0	0.0	0.0	0.0



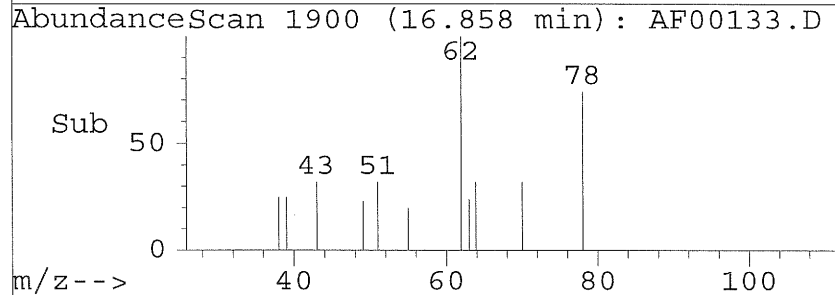
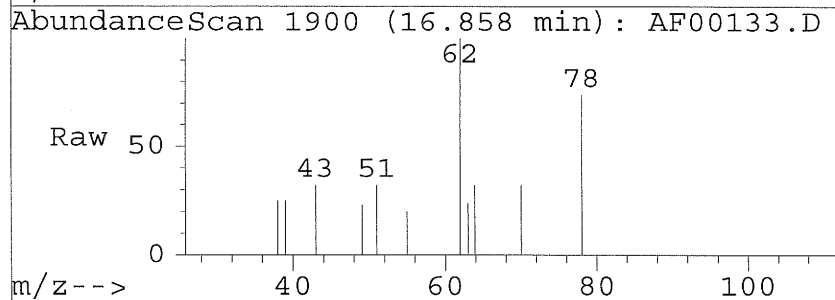
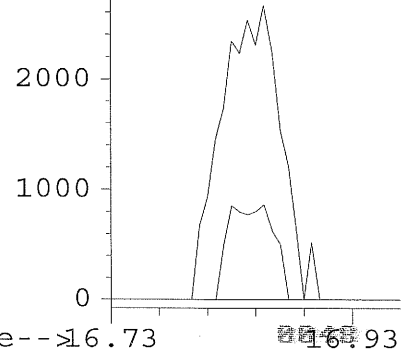
Abundance	Ion	72.00 (71.
15000	Ion	43.00 (42.
	Ion	57.00 (56.



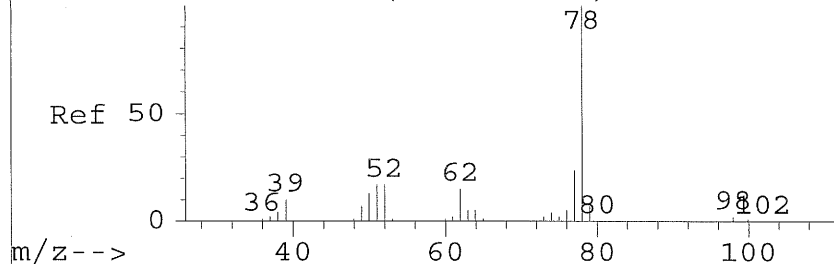
#38
1,2-Dichloroethane
Concen: 1.04 PPB
RT: 16.86 min Scan# 1900
Delta R.T. -0.00 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am

Tgt Ion:	62	Resp:	9317
Ion Ratio	Lower	Upper	
62	100		
64	12.8	11.0	51.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

Abundance	Ion	62.00 (61.
3000	Ion	64.00 (63.
		16.86



AbundanceScan 1895 (15.214 min): 0301003.D



#39

Benzene

Concen: 0.64 PPB

RT: 16.83 min Scan# 1896

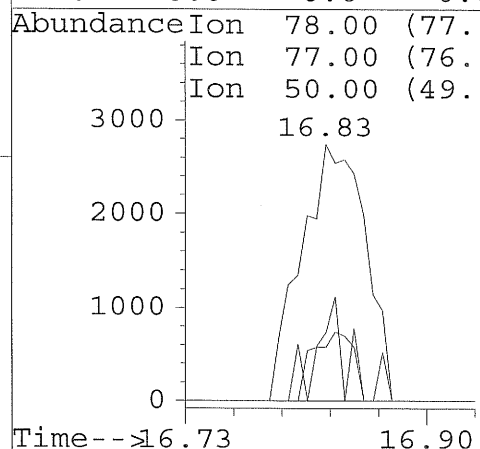
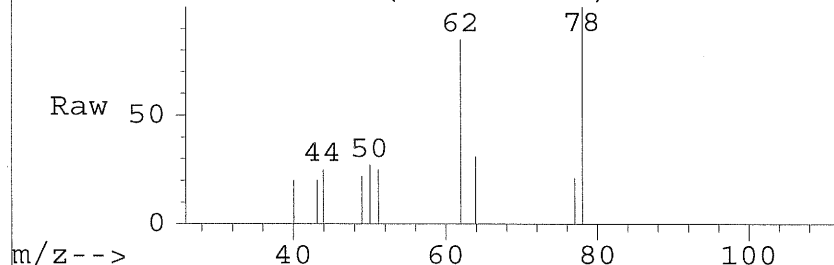
Delta R.T. -0.02 min

Lab File: AF00133.D

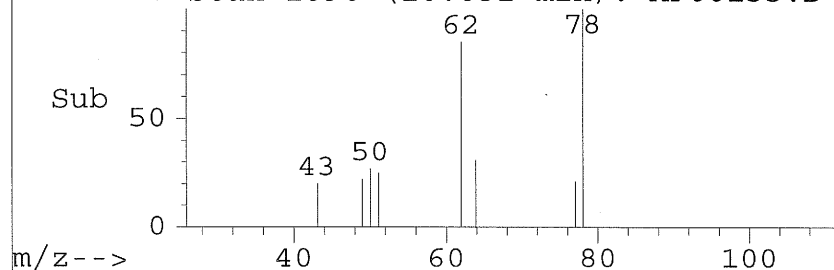
Acq: 9 Jun 05 3:49 am

Tgt Ion:	78	Resp:	8816
Ion	Ratio	Lower	Upper
78	100		
77	17.2	4.6	44.6
50	17.7	2.4	42.4
0	0.0	0.0	0.0

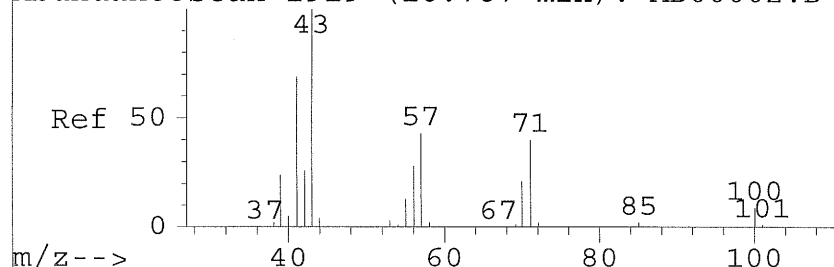
AbundanceScan 1896 (16.831 min): AF00133.D



AbundanceScan 1896 (16.831 min): AF00133.D



AbundanceScan 1919 (16.787 min): AD00002.D



#41

Heptane

Concen: 3.13 PPB

RT: 17.28 min Scan# 1963

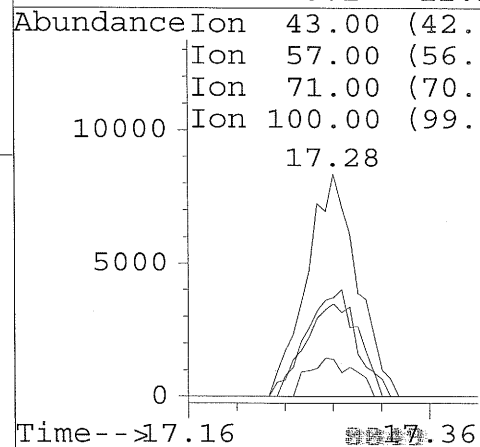
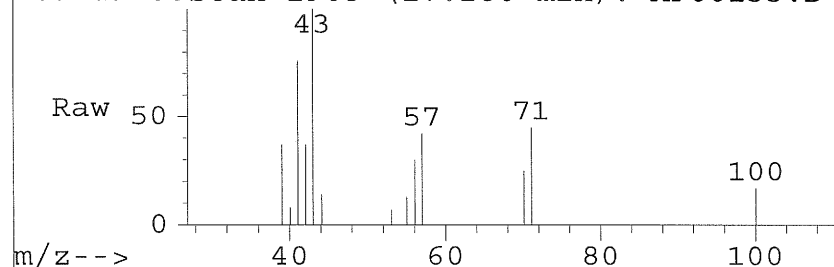
Delta R.T. -0.02 min

Lab File: AF00133.D

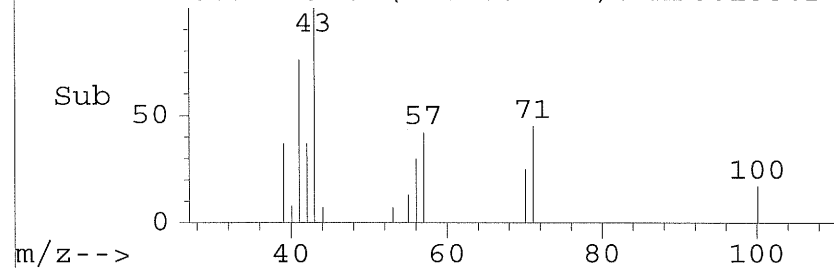
Acq: 9 Jun 05 3:49 am

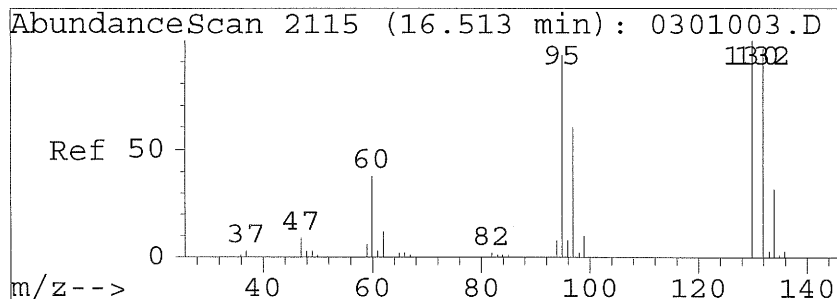
Tgt Ion:	43	Resp:	24703
Ion	Ratio	Lower	Upper
43	100		
57	43.5	33.3	50.0
71	48.8	32.4	48.5#
100	15.6	8.1	12.2#

AbundanceScan 1963 (17.280 min): AF00133.D



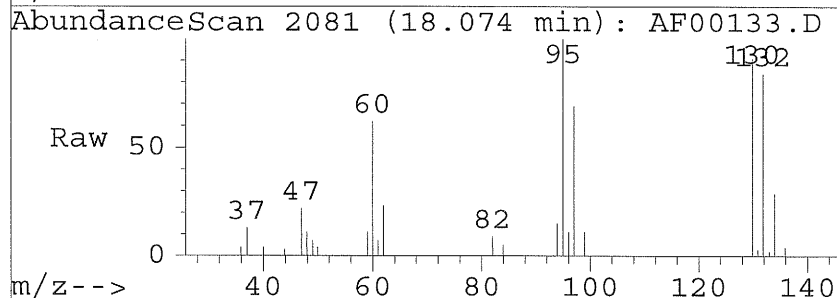
AbundanceScan 1963 (17.280 min): AF00133.D



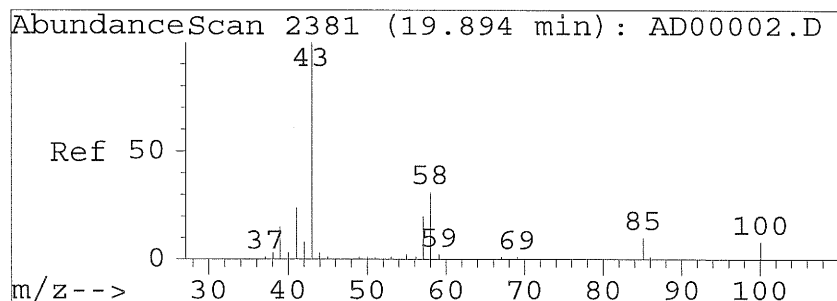
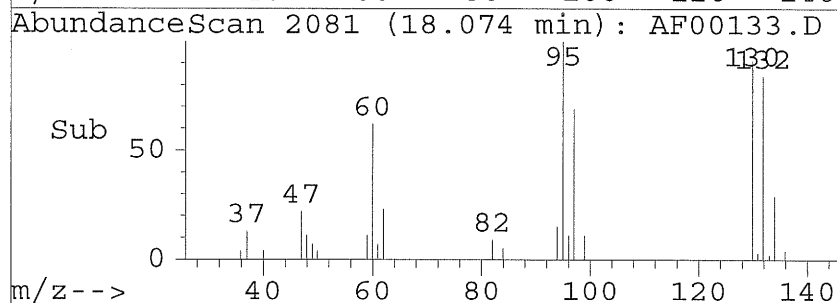
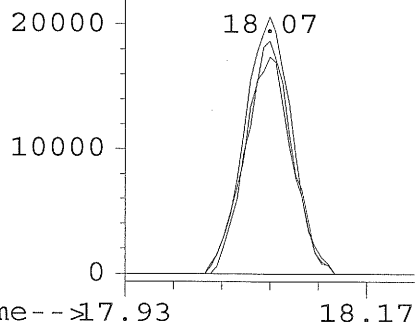


#42
Trichloroethene
Concen: 7.84 PPB
RT: 18.07 min Scan# 2081
Delta R.T. -0.01 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am

Tgt Ion:130	Resp:	62985
Ion Ratio	Lower	Upper
130	100	
132	92.0	78.7 118.7
95	110.9	101.4 141.4
0	0.0	0.0 0.0

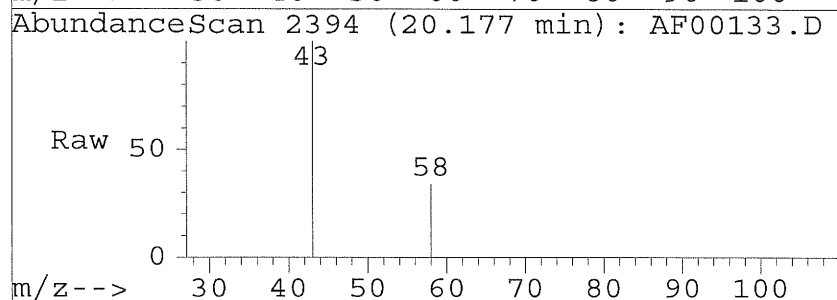


AbundanceIon 130.00 (129
Ion 132.00 (131
Ion 95.00 (94.

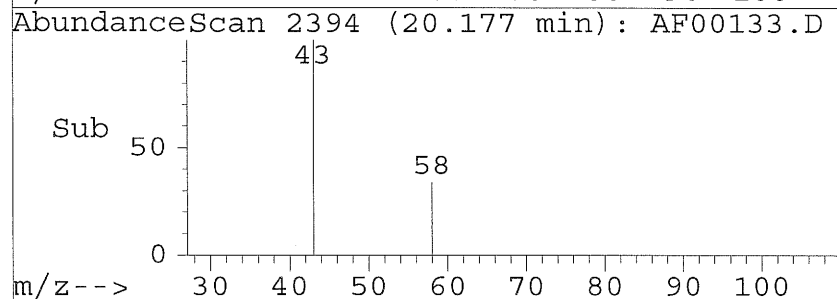
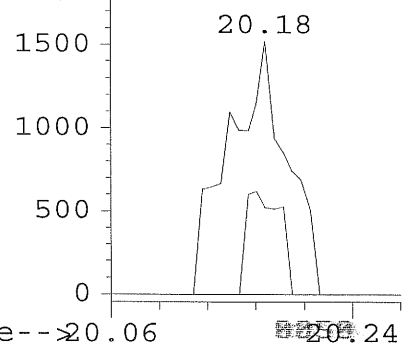


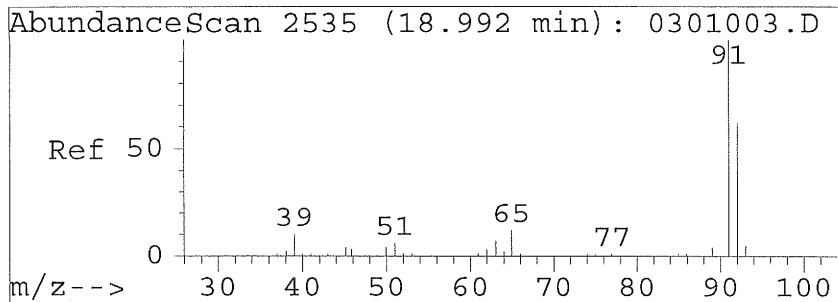
#50
4-Methyl-2-Pentanone
Concen: 4.04 PPB
RT: 20.18 min Scan# 2394
Delta R.T. 0.02 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am

Tgt Ion:43	Resp:	4582
Ion Ratio	Lower	Upper
43	100	
58	24.0	25.0 37.5#
100	0.0	6.1 9.1#
0	0.0	0.0 0.0



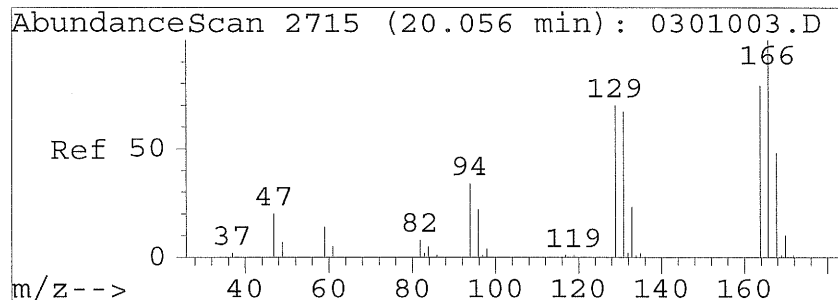
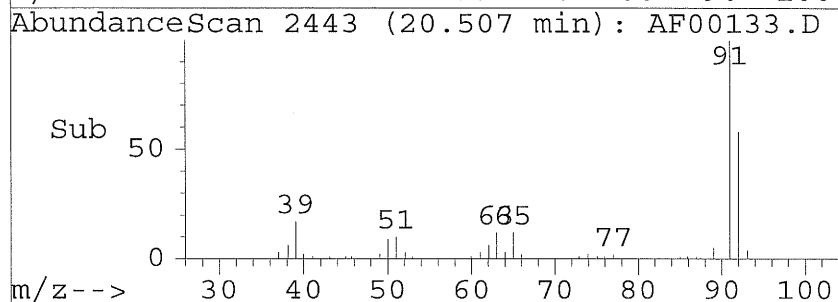
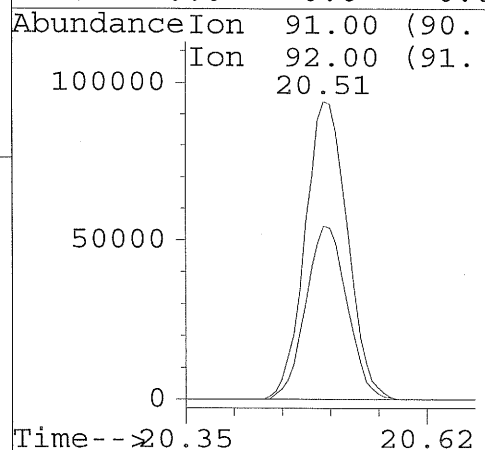
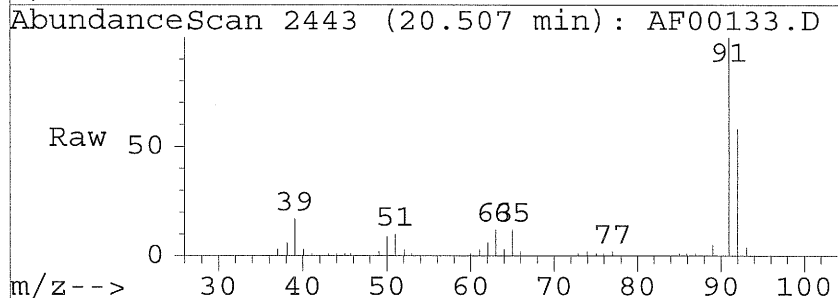
AbundanceIon 43.00 (42.
Ion 58.00 (57.
Ion 100.00 (99.





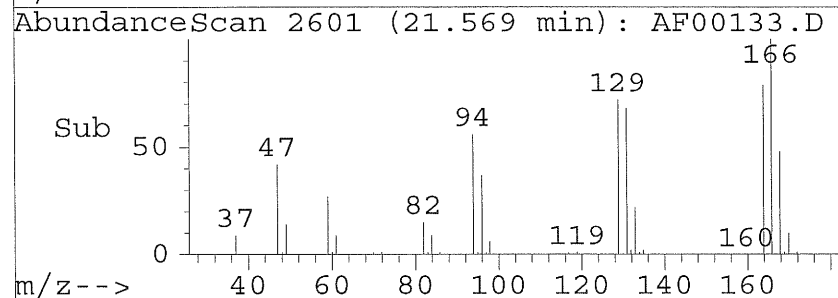
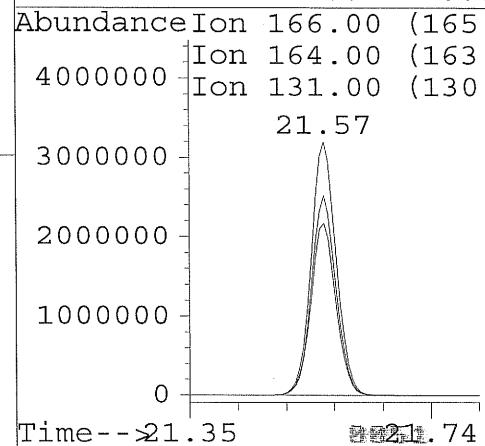
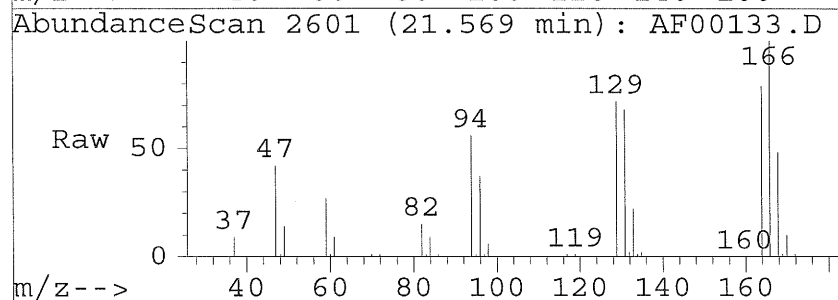
#52
Toluene
Concen: 17.86 PPB
RT: 20.51 min Scan# 2443
Delta R.T. -0.01 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am

Tgt Ion:	91	Resp:	307003
Ion Ratio	Lower	Upper	
91	100		
92	57.0	37.5	77.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0

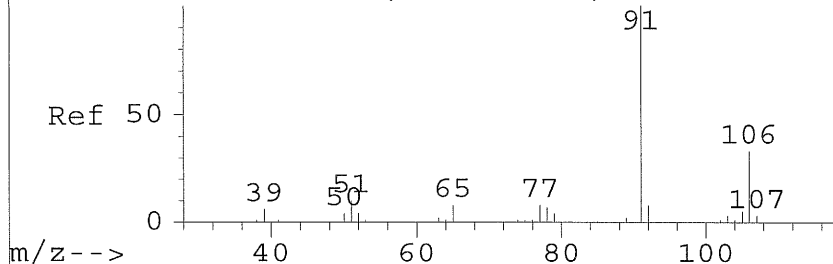


#57
Tetrachloroethene
Concen: 861.08 PPB
RT: 21.57 min Scan# 2601
Delta R.T. -0.00 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am

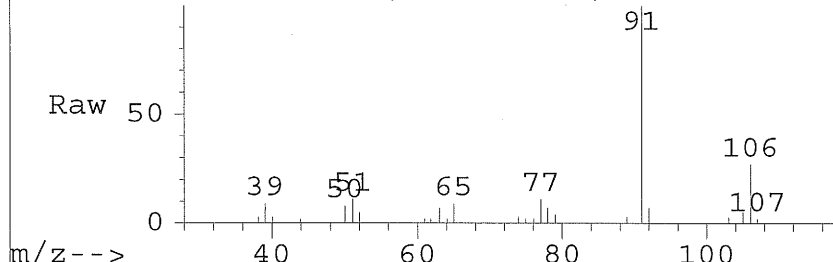
Tgt Ion:	166	Resp:	9024397
Ion Ratio	Lower	Upper	
166	100		
164	78.0	58.3	98.3
131	68.6	52.3	92.3
0	0.0	0.0	0.0



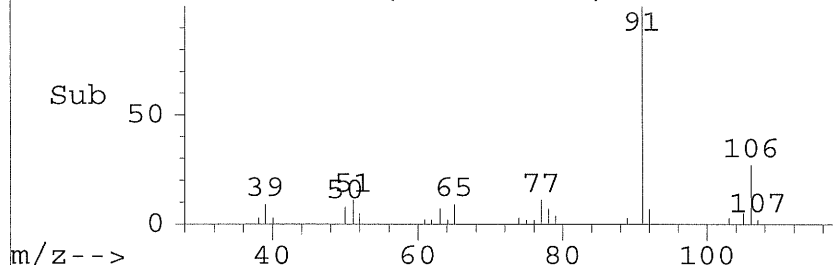
AbundanceScan 3018 (21.845 min): 0301003.D



AbundanceScan 2863 (23.338 min): AF00133.D



AbundanceScan 2863 (23.338 min): AF00133.D



#63

Ethylbenzene

Concen: 4.34 PPB

RT: 23.34 min Scan# 2863

Delta R.T. -0.01 min

Lab File: AF00133.D

Acq: 9 Jun 05 3:49 am

Tgt Ion:91 Resp: 107133

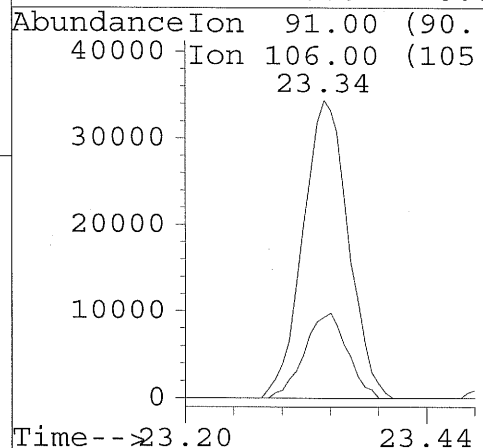
Ion Ratio Lower Upper

91 100

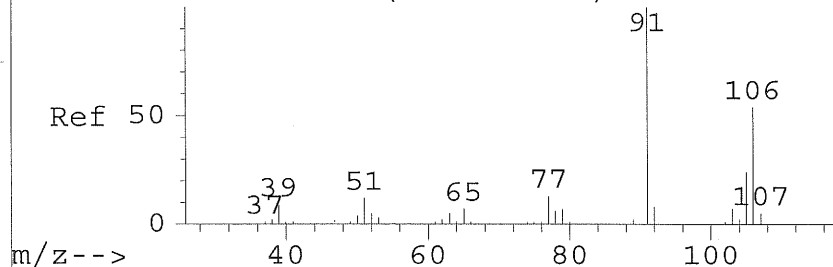
106 26.8 7.5 47.5

0 0.0 0.0 0.0

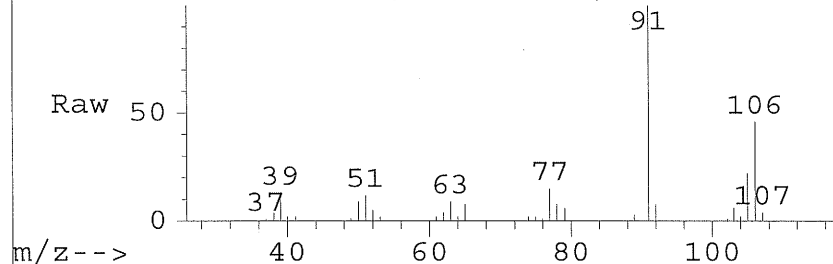
0 0.0 0.0 0.0



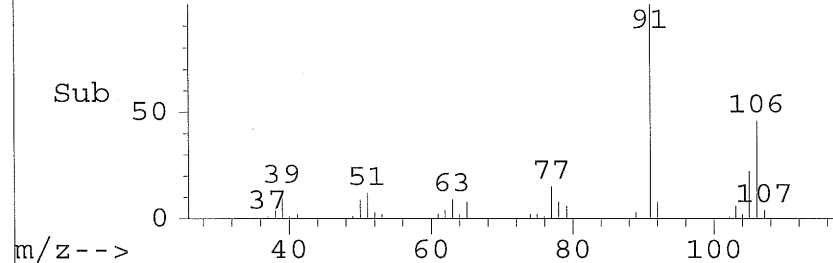
AbundanceScan 3055 (22.064 min): 0301003.D



AbundanceScan 2894 (23.547 min): AF00133.D



AbundanceScan 2894 (23.547 min): AF00133.D



#64

m/p-Xylene

Concen: 7.53 PPB

RT: 23.55 min Scan# 2894

Delta R.T. -0.01 min

Lab File: AF00133.D

Acq: 9 Jun 05 3:49 am

Tgt Ion:91 Resp: 142198

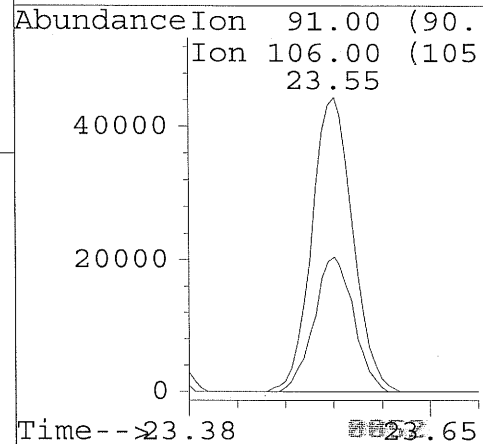
Ion Ratio Lower Upper

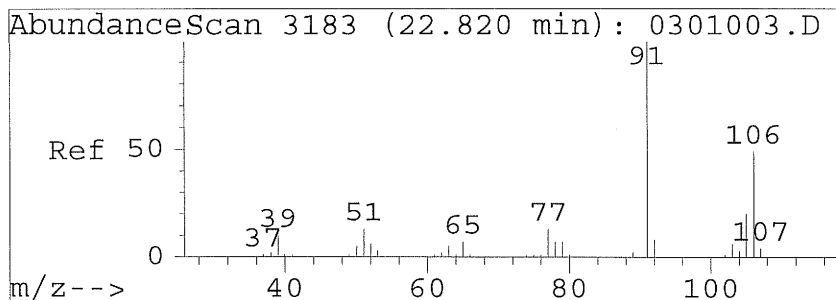
91 100

106 44.4 23.7 63.7

0 0.0 0.0 0.0

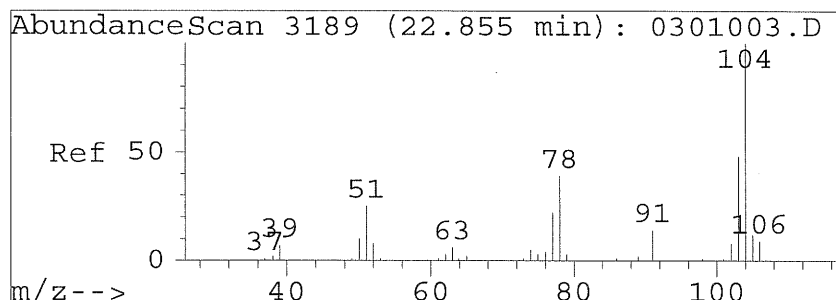
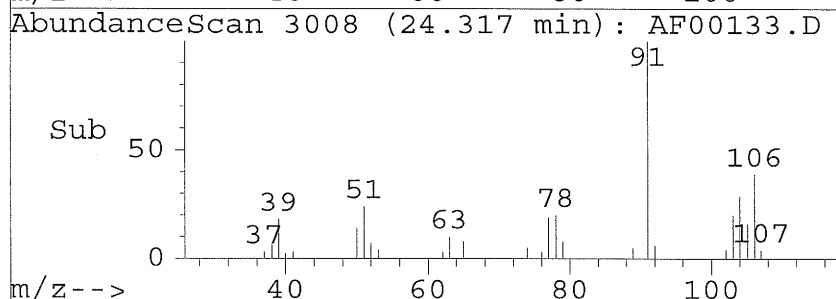
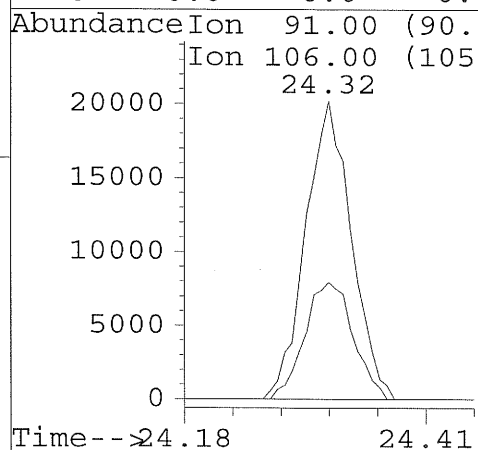
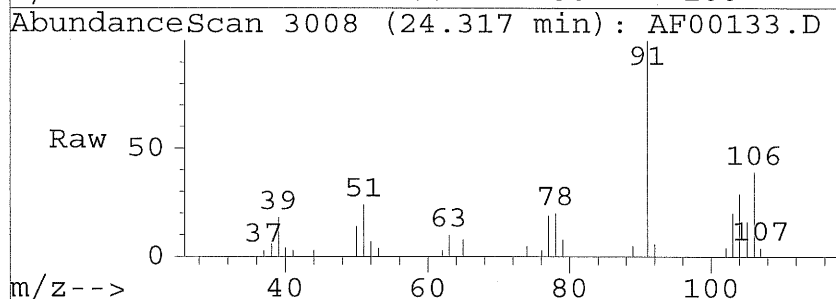
0 0.0 0.0 0.0





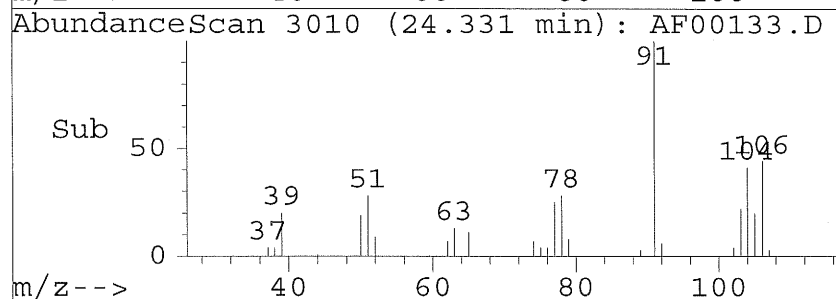
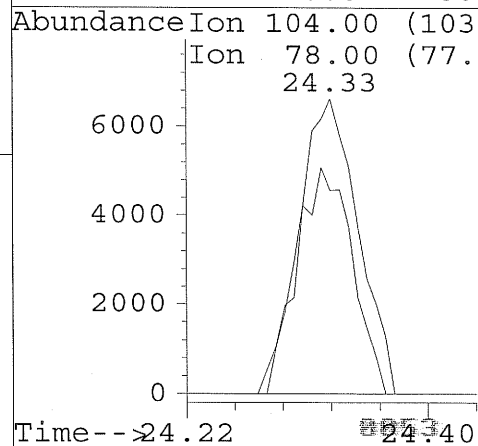
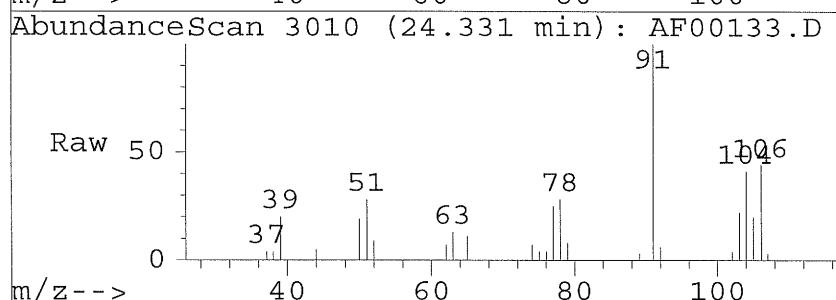
#65
o-Xylene
Concen: 3.26 PPB
RT: 24.32 min Scan# 3008
Delta R.T. -0.01 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am

Tgt Ion:	91	Resp:	59601
Ion Ratio	Lower	Upper	
91	100		
106	41.8	22.1	62.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

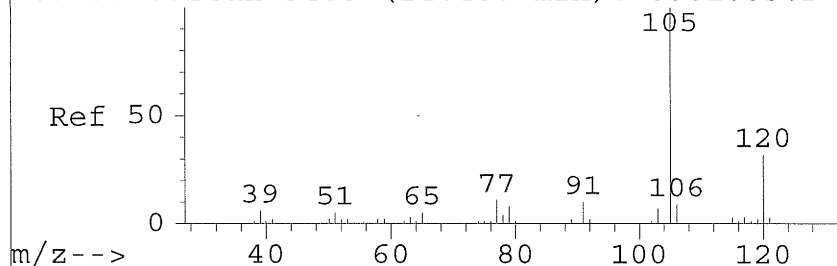


#66
Styrene
Concen: 1.49 PPB
RT: 24.33 min Scan# 3010
Delta R.T. -0.01 min
Lab File: AF00133.D
Acq: 9 Jun 05 3:49 am

Tgt Ion:	104	Resp:	20147
Ion Ratio	Lower	Upper	
104	100		
78	73.7	46.0	86.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



AbundanceScan 3465 (24.487 min): 0301003.D



#72

4-Ethyltoluene

Concen: 1.09 PPB

RT: 25.92 min Scan# 3246

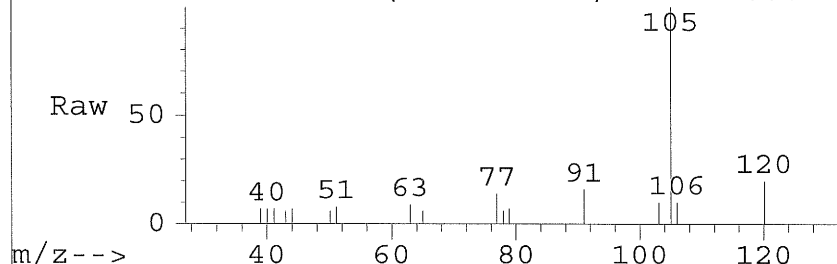
Delta R.T. -0.06 min

Lab File: AF00133.D

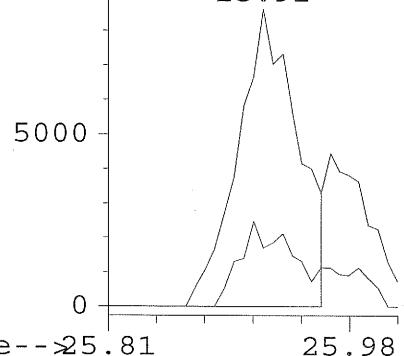
Acq: 9 Jun 05 3:49 am

Tgt Ion:	105	Resp:	25173
Ion	Ratio	Lower	Upper
105	100		
120	23.7	6.6	46.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

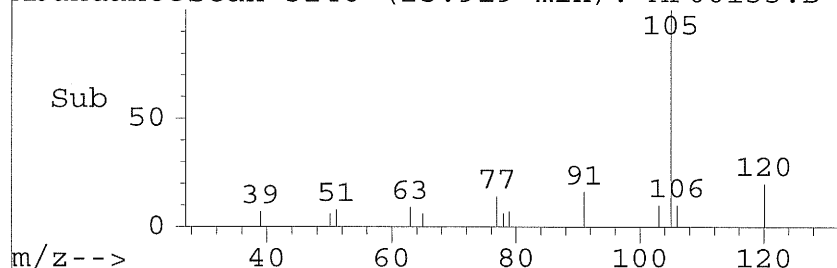
AbundanceScan 3246 (25.919 min): AF00133.D



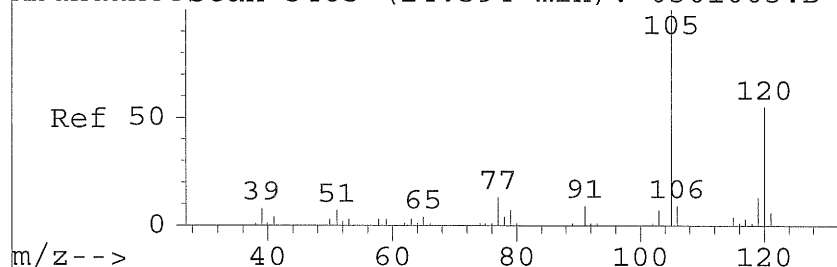
AbundanceIon 105.00 (104
10000 Ion 120.00 (119
25.92



AbundanceScan 3246 (25.919 min): AF00133.D



AbundanceScan 3483 (24.594 min): 0301003.D



#73

1,3,5-Trimethylbenzene

Concen: 0.59 PPB

RT: 26.07 min Scan# 3269

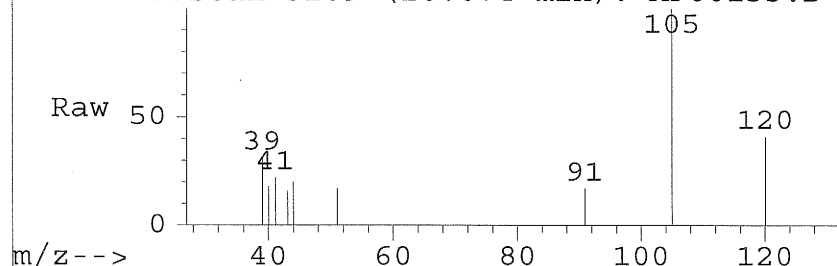
Delta R.T. -0.01 min

Lab File: AF00133.D

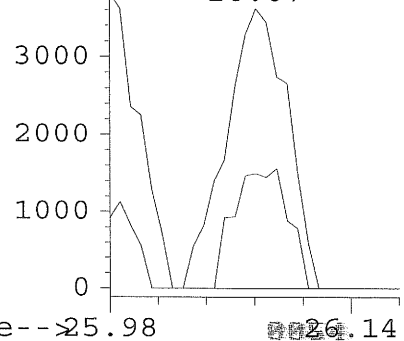
Acq: 9 Jun 05 3:49 am

Tgt Ion:	105	Resp:	10192
Ion	Ratio	Lower	Upper
105	100		
120	38.2	23.6	63.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

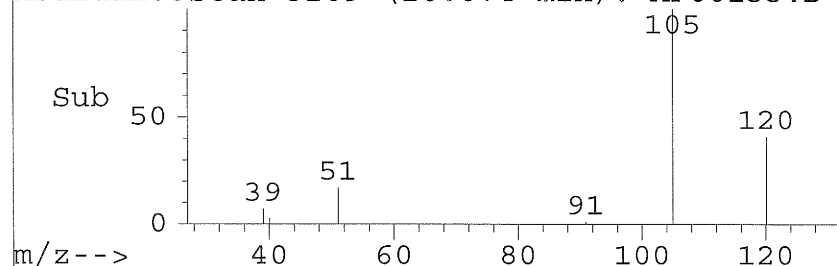
AbundanceScan 3269 (26.074 min): AF00133.D



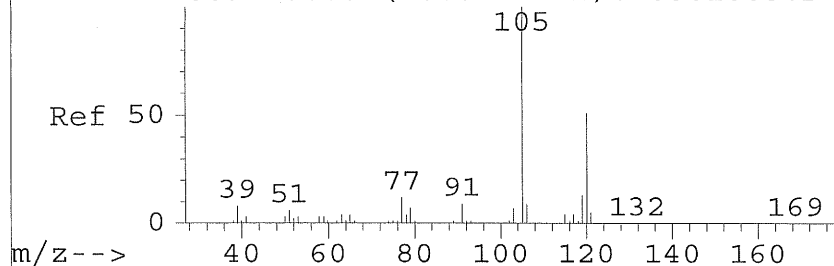
AbundanceIon 105.00 (104
4000 Ion 120.00 (119
26.07



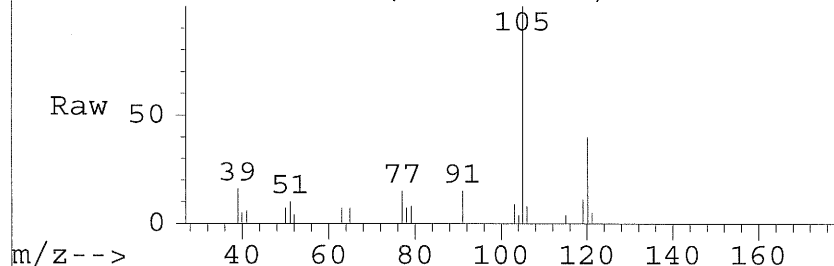
AbundanceScan 3269 (26.074 min): AF00133.D



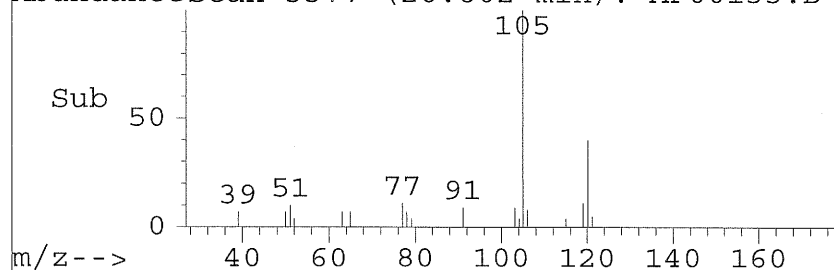
AbundanceScan 3605 (25.317 min): 0301003.D



AbundanceScan 3377 (26.802 min): AF00133.D



AbundanceScan 3377 (26.802 min): AF00133.D



#75

1,2,4-Trimethylbenzene

Concen: 2.36 PPB

RT: 26.80 min Scan# 3377

Delta R.T. -0.02 min

Lab File: AF00133.D

Acq: 9 Jun 05 3:49 am

Tgt Ion:105 Resp: 41734

Ion Ratio Lower Upper

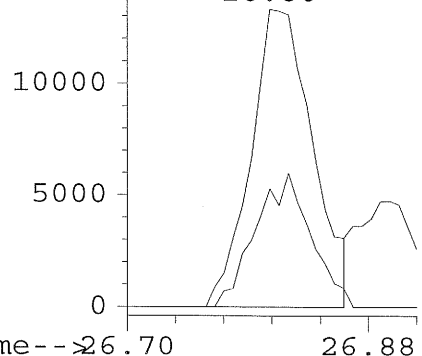
105 100

120 40.6 22.1 62.1

0 0.0 0.0 0.0

0 0.0 0.0 0.0

AbundanceIon 105.00 (104
15000 Ion 120.00 (119
26.80



0055

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00132.D
Acq On : 9 Jun 05 3:07 am
Sample : 4538863 25CC
Misc :
Quant Time: Jul 12 23:05 2005

Vial: 33
Operator: rdg
Inst : HP4224
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
Title : TO14 SCAN METHOD
Last Update : Tue Jul 12 07:36:35 2005
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	15.52	130	190133	10.00	PPB	-0.02
37) 1,4-Difluorobenzene	17.52	114	587895	10.00	PPB	-0.01
51) Chlorobenzene d5	23.12	117	526123	10.00	PPB	-0.01

System Monitoring Compounds %Recovery

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
30) cis-1,2-Dichloroethene	15.02	61	47012	6.14	PPB	72
42) Trichloroethene	18.07	130	6628	0.82	PPB	92
52) Toluene	20.51	91	31821	1.81	PPB	98
57) Tetrachloroethene	21.56	166	643320	59.97	PPB	97
63) Ethylbenzene	23.34	91	11394	0.45	PPB	74
64) m/p-Xylene	23.54	91	16866	0.87	PPB	97
65) o-Xylene	24.31	91	6582	0.35	PPB	81
75) 1,2,4-Trimethylbenzene	26.81	105	3868	0.21	PPB	# 54

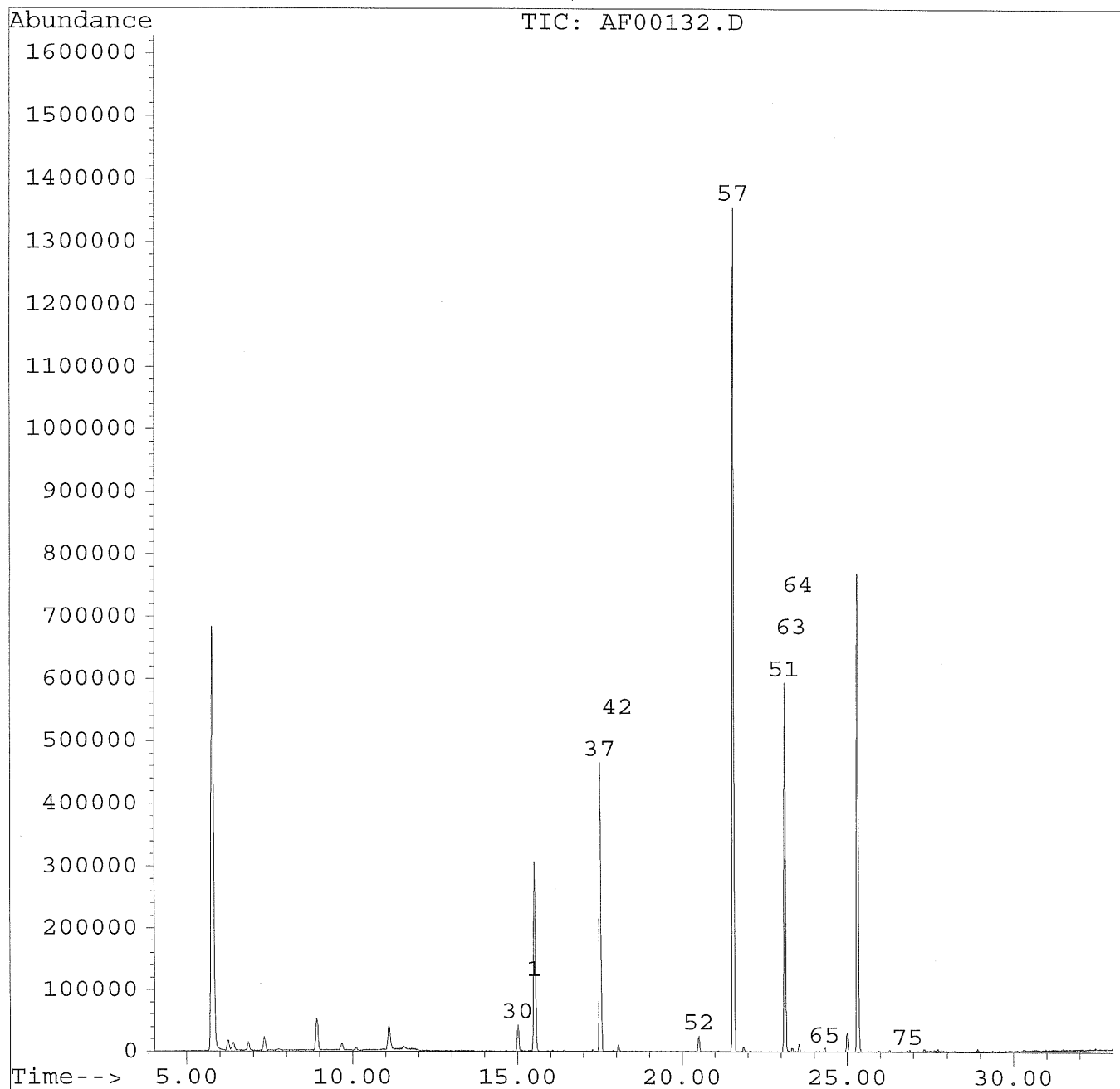
8856

Quantitation Report

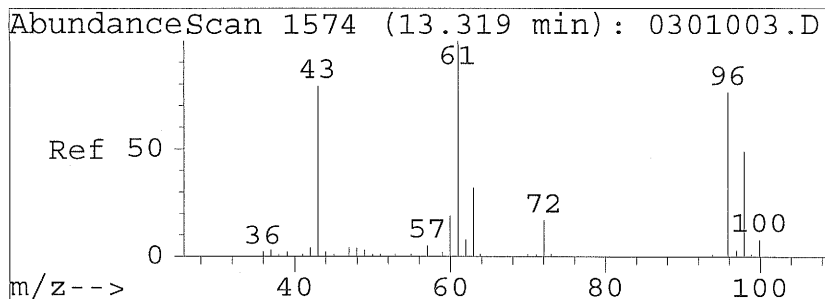
Data File : C:\HPCHEM\1\DATA\JUN08\AF00132.D
Acq On : 9 Jun 05 3:07 am
Sample : 4538863 25CC
Misc :
Quant Time: Jul 12 23:05 2005

Vial: 33
Operator: rdg
Inst : HP4224
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
Title : TO14 SCAN METHOD
Last Update : Tue Jul 12 07:36:35 2005
Response via : Single Level Calibration

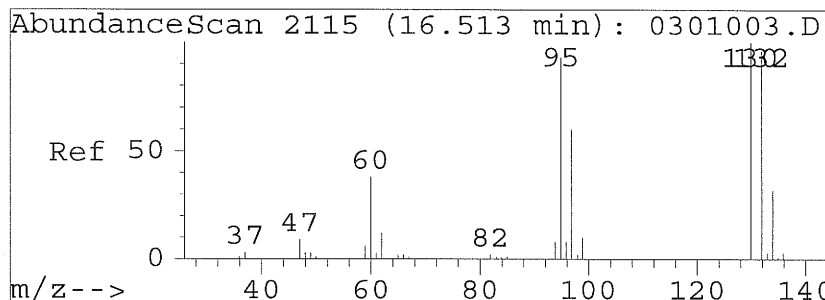
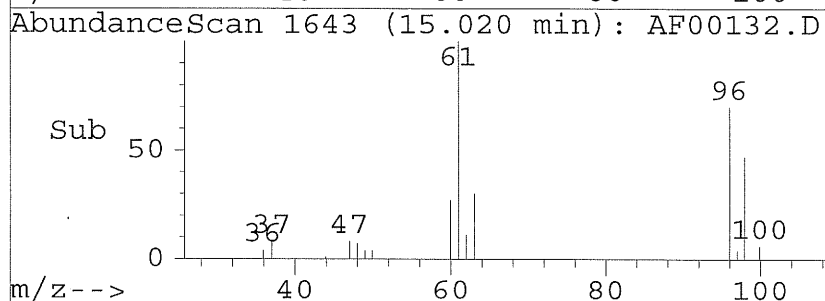
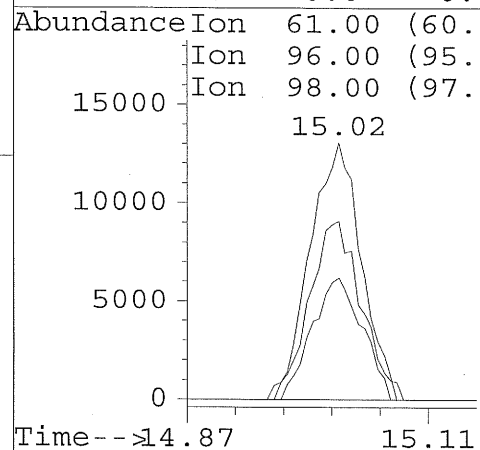
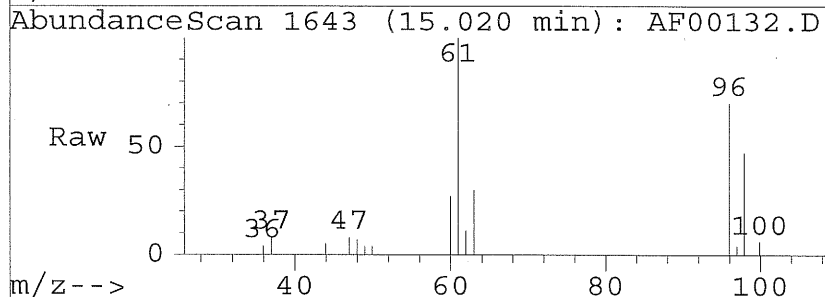


8057



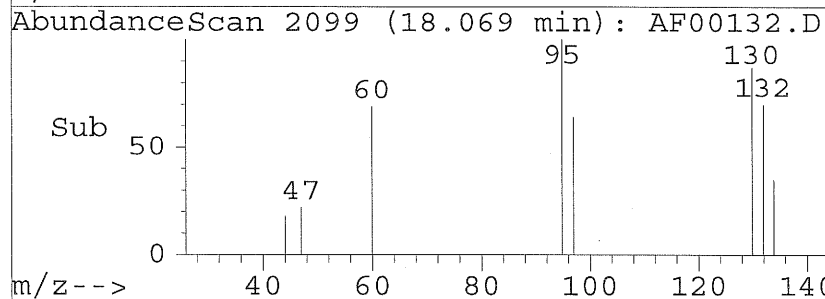
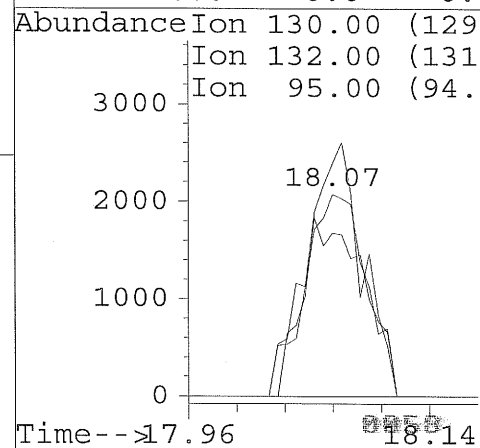
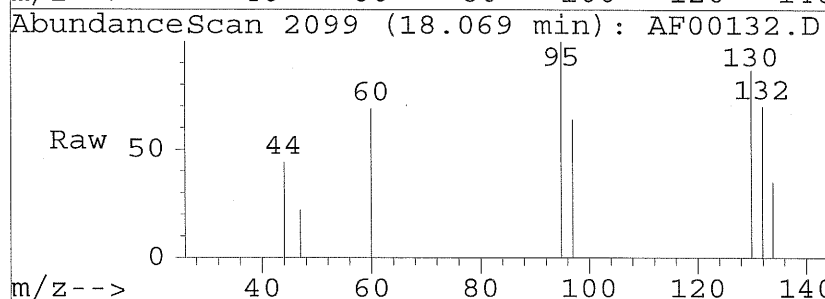
#30
 cis-1,2-Dichloroethene
 Concen: 6.14 PPB
 RT: 15.02 min Scan# 1643
 Delta R.T. -0.01 min
 Lab File: AF00132.D
 Acq: 9 Jun 05 3:07 am

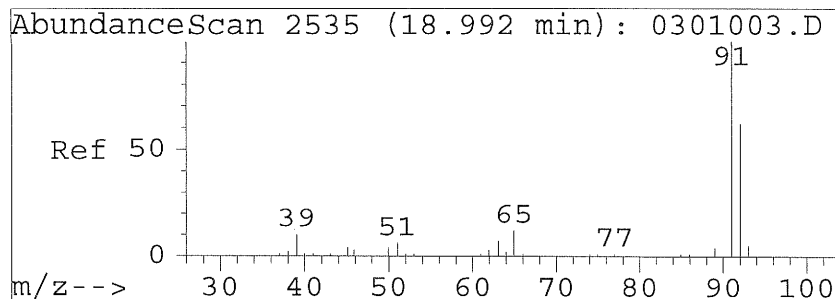
Tgt Ion:	61	Resp:	47012
Ion Ratio	Lower	Upper	
61	100		
96	70.1	30.3	70.3
98	46.3	11.4	51.4
0	0.0	0.0	0.0



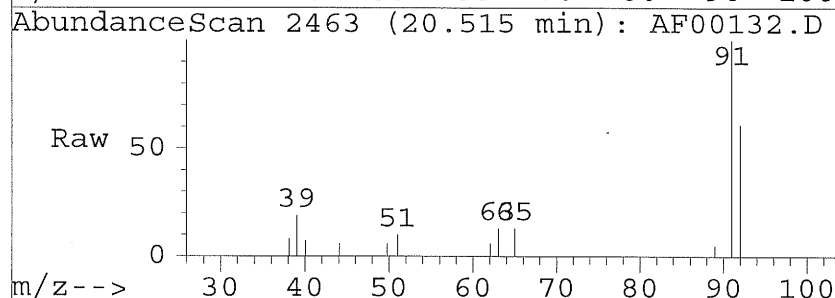
#42
 Trichloroethene
 Concen: 0.82 PPB
 RT: 18.07 min Scan# 2099
 Delta R.T. -0.02 min
 Lab File: AF00132.D
 Acq: 9 Jun 05 3:07 am

Tgt Ion:	130	Resp:	6628
Ion Ratio	Lower	Upper	
130	100		
132	88.8	78.7	118.7
95	113.4	101.4	141.4
0	0.0	0.0	0.0

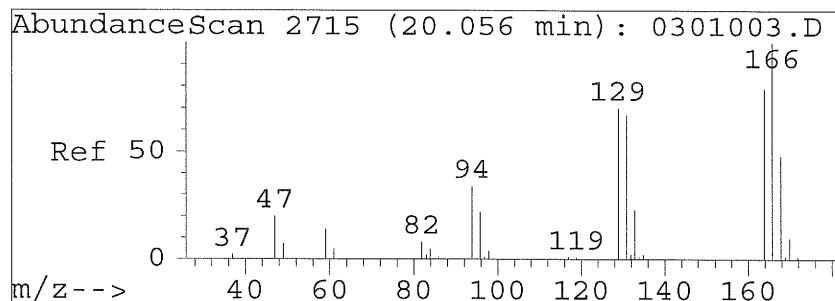
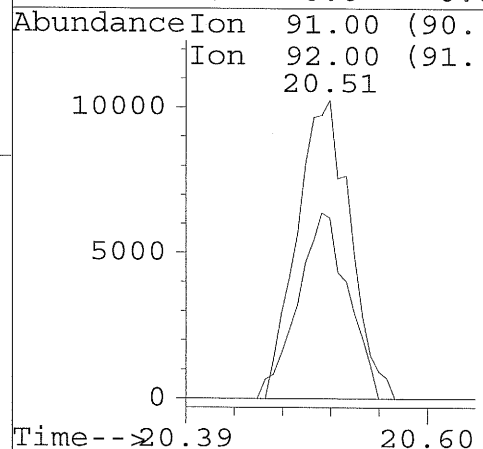
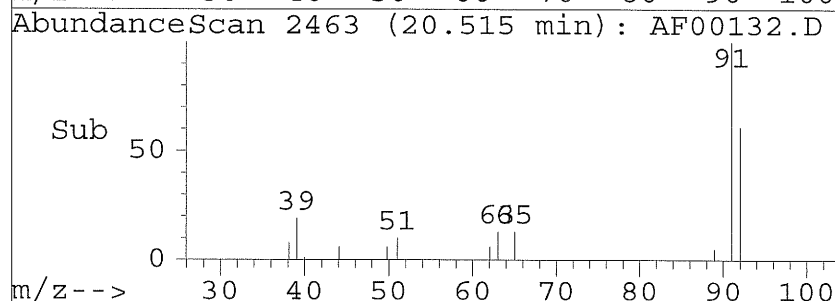




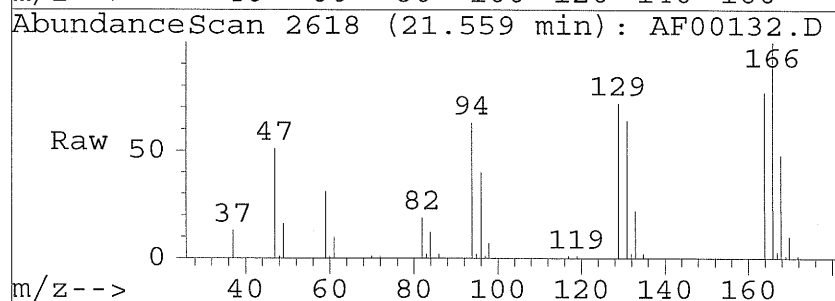
#52
Toluene
Concen: 1.81 PPB
RT: 20.51 min Scan# 2463
Delta R.T. -0.01 min
Lab File: AF00132.D
Acq: 9 Jun 05 3:07 am



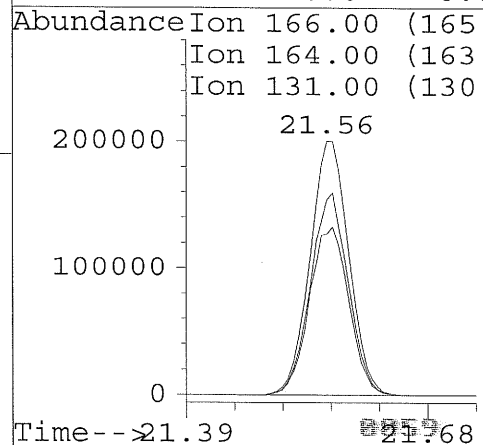
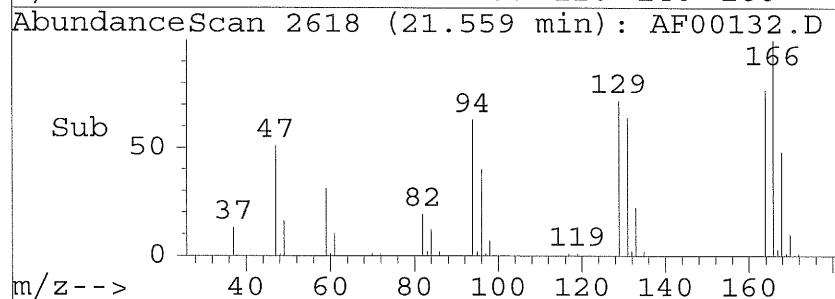
Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.0	37.5	77.5
0	0.0	0.0	0.0
0	0.0	0.0	0.0



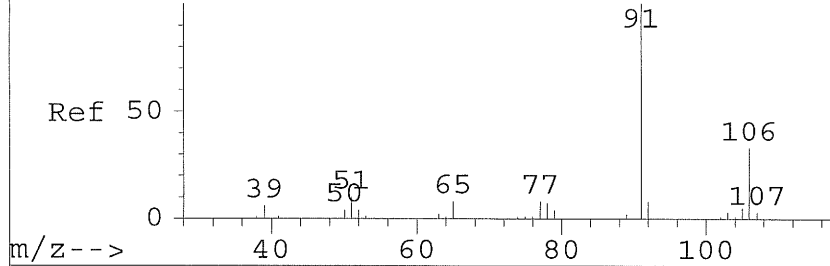
#57
Tetrachloroethene
Concen: 59.97 PPB
RT: 21.56 min Scan# 2618
Delta R.T. -0.01 min
Lab File: AF00132.D
Acq: 9 Jun 05 3:07 am



Tgt Ion	Ratio	Lower	Upper
166	100		
164	77.3	58.3	98.3
131	67.2	52.3	92.3
0	0.0	0.0	0.0



AbundanceScan 3018 (21.845 min): 0301003.D



#63

Ethylbenzene

Concen: 0.45 PPB

RT: 23.34 min Scan# 2883

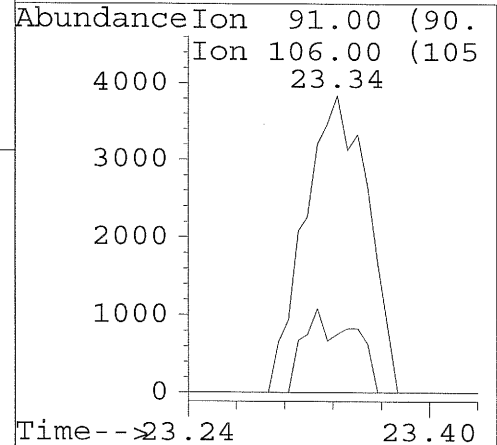
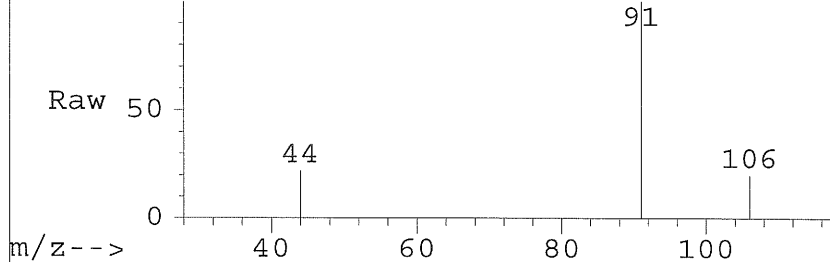
Delta R.T. -0.01 min

Lab File: AF00132.D

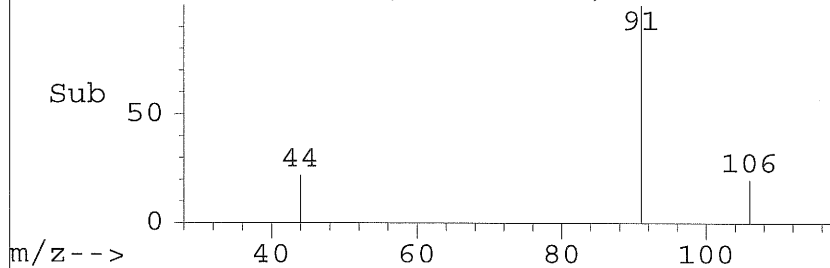
Acq: 9 Jun 05 3:07 am

Tgt Ion:91	Resp:	11394
Ion Ratio	Lower	Upper
91	100	
106	13.9	7.5 47.5
0	0.0	0.0 0.0
0	0.0	0.0 0.0

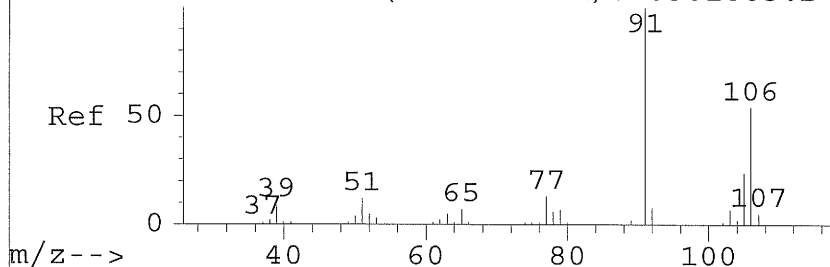
AbundanceScan 2883 (23.340 min): AF00132.D



AbundanceScan 2883 (23.340 min): AF00132.D



AbundanceScan 3055 (22.064 min): 0301003.D



#64

m/p-Xylene

Concen: 0.87 PPB

RT: 23.54 min Scan# 2913

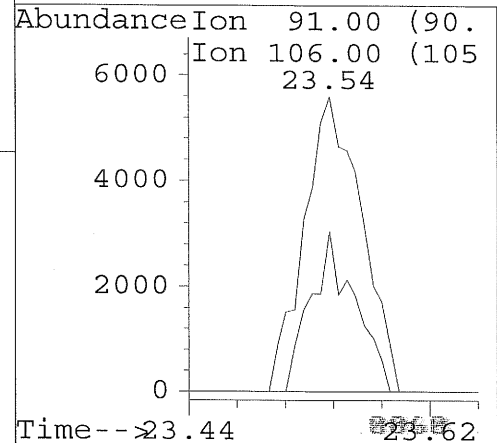
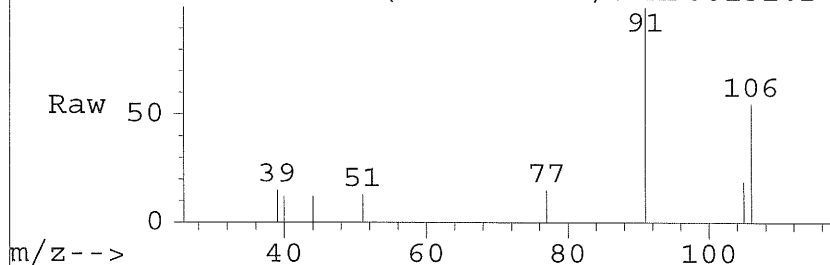
Delta R.T. -0.02 min

Lab File: AF00132.D

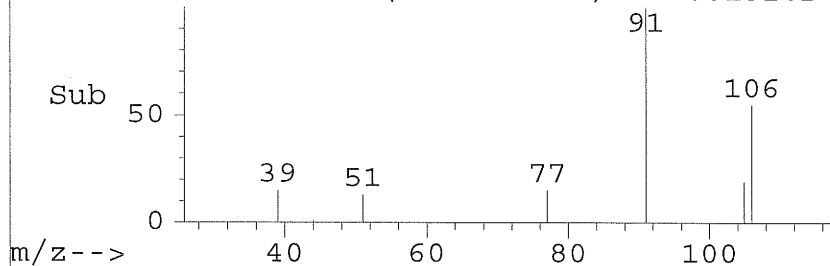
Acq: 9 Jun 05 3:07 am

Tgt Ion:91	Resp:	16866
Ion Ratio	Lower	Upper
91	100	
106	41.4	23.7 63.7
0	0.0	0.0 0.0
0	0.0	0.0 0.0

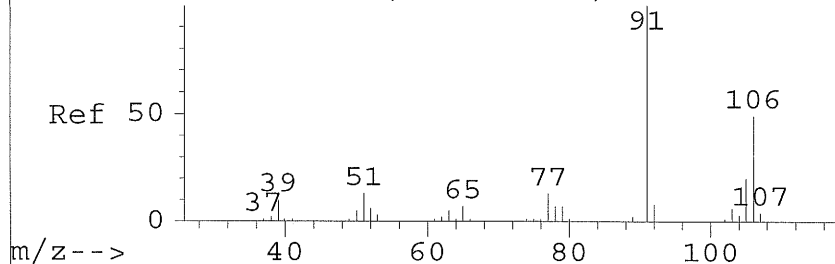
AbundanceScan 2913 (23.541 min): AF00132.D



AbundanceScan 2913 (23.541 min): AF00132.D



AbundanceScan 3183 (22.820 min): 0301003.D



#65

o-Xylene

Concen: 0.35 PPB

RT: 24.31 min Scan# 3027

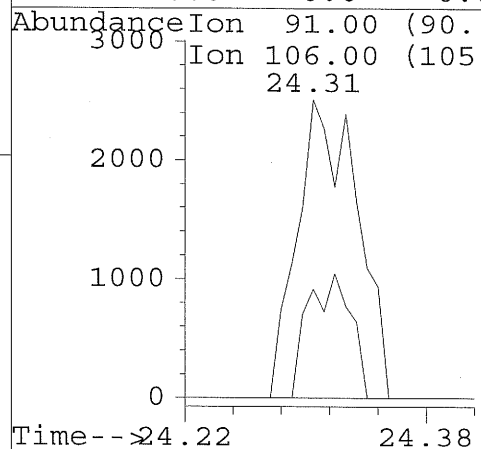
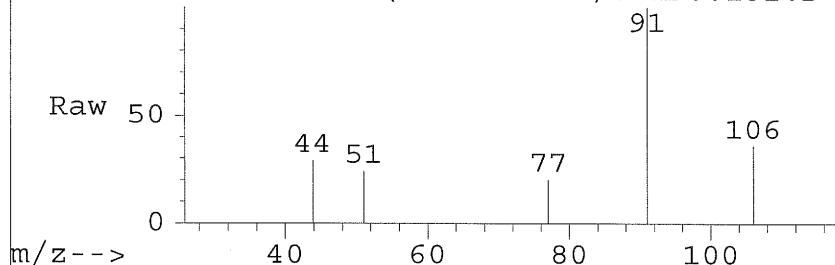
Delta R.T. -0.02 min

Lab File: AF00132.D

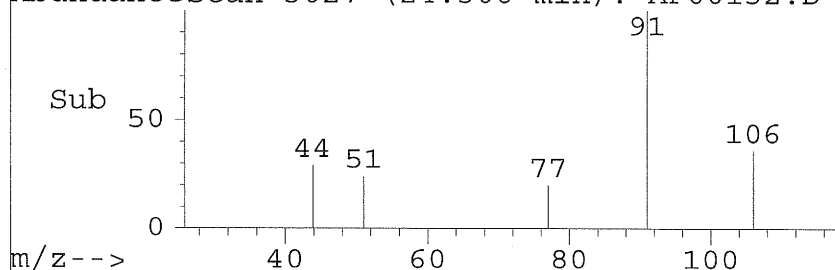
Acq: 9 Jun 05 3:07 am

Tgt Ion:	91	Resp:	6582
Ion Ratio	Lower	Upper	
91	100		
106	29.9	22.1	62.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

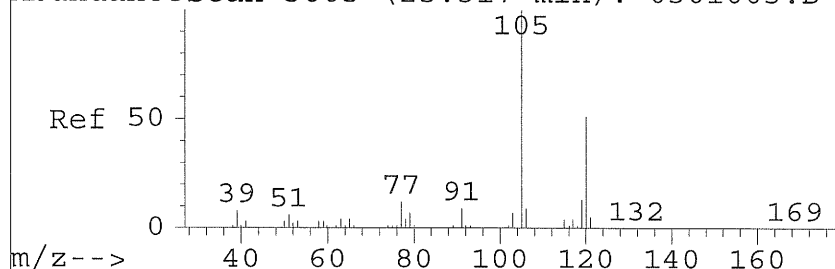
AbundanceScan 3027 (24.306 min): AF00132.D



AbundanceScan 3027 (24.306 min): AF00132.D



AbundanceScan 3605 (25.317 min): 0301003.D



#75

1,2,4-Trimethylbenzene

Concen: 0.21 PPB

RT: 26.81 min Scan# 3399

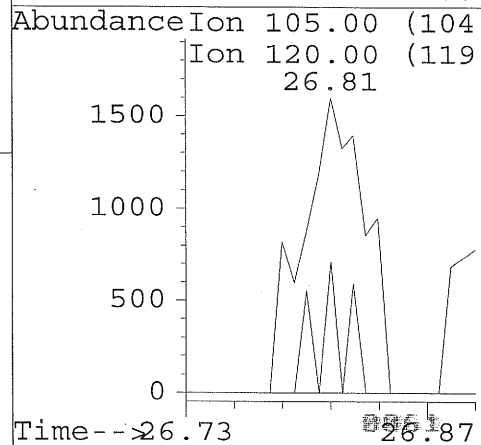
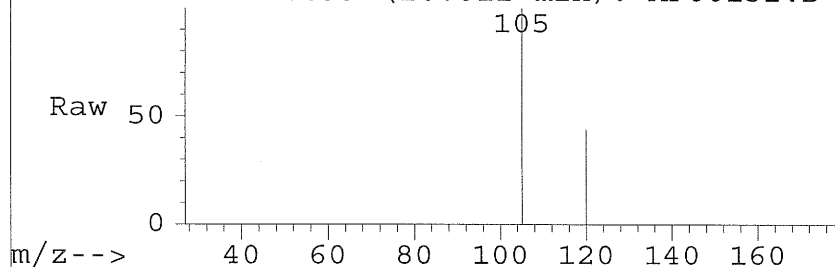
Delta R.T. -0.01 min

Lab File: AF00132.D

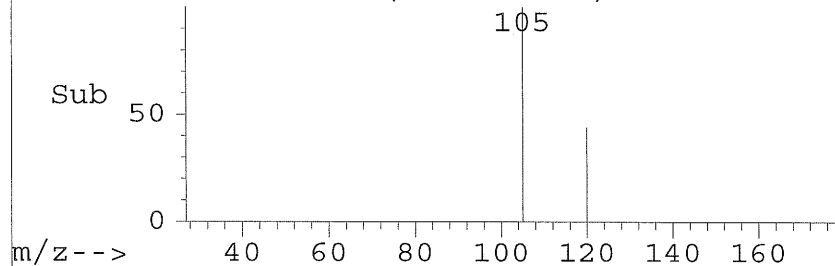
Acq: 9 Jun 05 3:07 am

Tgt Ion:	105	Resp:	3868
Ion Ratio	Lower	Upper	
105	100		
120	13.3	22.1	62.1#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

AbundanceScan 3399 (26.812 min): AF00132.D



AbundanceScan 3399 (26.812 min): AF00132.D



LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: CC170 Date Collected: 06/03/05 Date Received: 06/07/05
Lab Sample ID: 4538864 Date Analyzed: 06/09/05 Time Analyzed: 05:12
Canister ID: SUMMA0170 Pressure Rec'd: 12.4 psia Final Pressure: 24.8 psia
Injection Volume: 250 cc Nominal Volume: 125 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00135.D

CAS RN	COMPOUND NAME	CONCENTRATION	UNITS: MDL ug/m3	Q
75-71-8	Dichlorodifluoromethane	3		J
76-14-2	Freon 114	1		U
74-87-3	Chloromethane	0.4		U
75-01-4	Vinyl Chloride	0.5		U
74-83-9	Bromomethane	0.8		U
75-00-3	Chloroethane	0.5		U
75-69-4	Trichlorofluoromethane	8		
75-35-4	1,1-Dichloroethene	0.8		U
76-13-1	Freon 113	4		U
107-05-1	3-Chloropropene	2		U
75-09-2	Methylene Chloride	2		U
75-34-3	1,1-Dichloroethane	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.8		U
67-66-3	Chloroform	1		U
71-55-6	1,1,1-Trichloroethane	1		U
56-23-5	Carbon Tetrachloride	1		U
107-06-2	1,2-Dichloroethane	0.8		U
71-43-2	Benzene	1		J
79-01-6	Trichloroethene	1		U
78-87-5	1,2-Dichloropropane	0.9		U
10061-01-5	cis-1,3-Dichloropropene	0.9		U
108-88-3	Toluene	7		
10061-02-6	trans-1,3-Dichloropropene	0.9		U
79-00-5	1,1,2-Trichloroethane	1		U
127-18-4	Tetrachloroethene	1		J
106-93-4	1,2-Dibromoethane	2		U
108-90-7	Chlorobenzene	0.9		U
100-41-4	Ethylbenzene	33		
1330-20-7	m/p-Xylene	110		
95-47-6	o-Xylene	42		
100-42-5	Styrene	2		J
79-34-5	1,1,2,2-Tetrachloroethane	1		U
622-96-8	4-Ethyltoluene	2		J
108-67-8	1,3,5-Trimethylbenzene	1		U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: CC170 Date Collected: 06/03/05 Date Received: 06/07/05
Lab Sample ID: 4538864 Date Analyzed: 06/09/05 Time Analyzed: 05:12
Canister ID: SUMMA0170 Pressure Rec'd: 12.4 psia Final Pressure: 24.8 psia
Injection Volume: 250 cc Nominal Volume: 125 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00135.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ug/m3	Q
95-63-6	1,2,4-Trimethylbenzene	2	J
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
95-50-1	1,2-Dichlorobenzene	3	U
120-82-1	1,2,4-Trichlorobenzene	7	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.

Standards Data

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

INITIAL CALIBRATION DATA SHEET

Instrument ID: HP4224

Data File Path: C:\HPCHEM\1\DATA\JUN06\

STANDARD EPA SAMPLE NO. LAB FILE ID DATE INJECTED TIME INJECTED	CAL1 VSTD010 AF00080.D 06/06/05 21:01	CAL2 VSTD050 AF00078.D 06/06/05 19:30	CAL3 VSTD100 AF00079.D 06/06/05 20:19		
COMPOUND NAME	Relative Response Factor (RRF)				%RSD
	CAL 1	CAL 2	CAL 3	MEAN	
Dichlorodifluoromethane	1.180	1.131	1.098	1.136	4
Freon 114	1.155	1.129	1.021	1.102	6
Chloromethane	0.306	0.276	0.264	0.282	8
Vinyl Chloride	0.331	0.308	0.287	0.309	7
Bromomethane	0.439	0.441	0.407	0.429	4
Chloroethane	0.160	0.160	0.151	0.157	3
Trichlorofluoromethane	1.068	0.978	1.002	1.016	5
1,1-Dichloroethene	0.583	0.518	0.504	0.535	8
Freon 113	0.456	0.424	0.409	0.429	6
3-Chloropropene	0.130	0.106	0.101	0.112	14
Methylene Chloride	0.274	0.241	0.228	0.248	10
1,1-Dichloroethane	0.555	0.503	0.481	0.513	7
cis-1,2-Dichloroethene	0.444	0.387	0.377	0.403	9
Chloroform	0.736	0.671	0.623	0.677	8
1,1,1-Trichloroethane	0.744	0.692	0.674	0.703	5
Carbon Tetrachloride	0.805	0.747	0.739	0.763	5
1,2-Dichloroethane	0.165	0.161	0.165	0.164	1
Benzene	0.239	0.228	0.228	0.232	3
Trichloroethene	0.139	0.131	0.131	0.134	4
1,2-Dichloropropane	0.094	0.087	0.083	0.088	7
cis-1,3-Dichloropropene	0.173	0.170	0.164	0.169	3
Toluene	0.341	0.326	0.297	0.321	7
trans-1,3-Dichloropropene	0.174	0.170	0.160	0.168	4
1,1,2-Trichloroethane	0.140	0.137	0.127	0.134	5
Tetrachloroethene	0.210	0.197	0.187	0.198	6
1,2-Dibromoethane	0.236	0.226	0.223	0.229	3
Chlorobenzene	0.279	0.266	0.265	0.270	3
Ethylbenzene	0.450	0.437	0.453	0.447	2
m/p-Xylene	0.373	0.352	0.371	0.365	3
o-Xylene	0.365	0.334	0.340	0.347	5
Styrene	0.253	0.242	0.245	0.246	2
1,1,2,2-Tetrachloroethane	0.235	0.210	0.206	0.217	7
4-Ethyltoluene	0.467	0.419	0.441	0.442	6
1,3,5-Trimethylbenzene	0.350	0.321	0.344	0.338	4
1,2,4-Trimethylbenzene	0.353	0.331	0.346	0.343	3
1,3-Dichlorobenzene	0.261	0.231	0.243	0.245	6
1,4-Dichlorobenzene	0.246	0.235	0.247	0.243	3
1,2-Dichlorobenzene	0.221	0.217	0.214	0.217	2
1,2,4-Trichlorobenzene	0.122	0.111	0.107	0.113	7

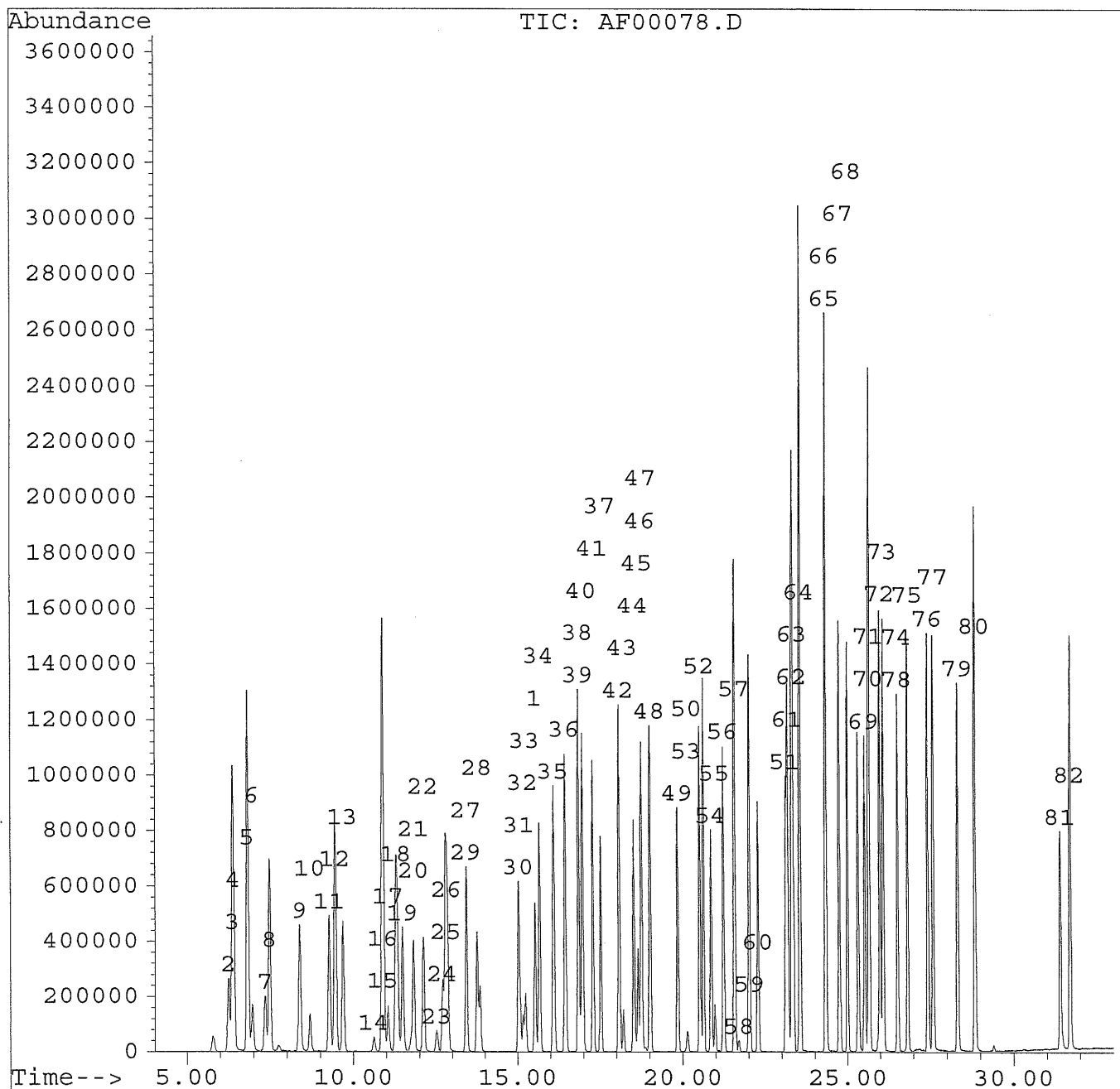
8865

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00078.D
 Acq On : 6 Jun 05 7:30 pm
 Sample : VSTD050
 Misc :
 Quant Time: Jun 6 20:03 2005

Vial: 4
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Fri Jun 03 15:25:25 2005
 Response via : Single Level Calibration



8866

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00078.D
 Acq On : 6 Jun 05 7:30 pm
 Sample : VSTD050
 Misc :
 Quant Time: Jun 6 20:03 2005

Vial: 4
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Fri Jun 03 15:25:25 2005
 Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	15.53	130	341157	10.00	PPB	0.04
37) 1,4-Difluorobenzene	17.53	114	1023381	10.00	PPB	0.03
51) Chlorobenzene d5	23.13	117	921136	10.00	PPB	0.03

System Monitoring Compounds

%Recovery

Target Compounds						Qvalue
2) Propene	6.25	41	364782	61.36	PPB	93
3) Dichlorodifluoromethane	6.38	85	1938145	100.33	PPB	99
4) Chlorodifluoromethane	6.41	51	1164577	90.13	PPB	# 88
5) Freon 114	6.82	85	1926098	100.58	PPB	89
6) Chloromethane	6.97	50	470105	72.94	PPB	100
7) Vinyl Chloride	7.35	62	525986	78.22	PPB	98
8) 1,3-Butadiene	7.49	54	676760	78.76	PPB	97
9) Bromomethane	8.38	94	752937	98.70	PPB	99
10) Chloroethane	8.69	64	272519	74.90	PPB	99
11) Dichlorofluoromethane	9.27	67	1193076	72.97	PPB	# 88
12) Trichlorofluoromethane	9.45	101	1667804	83.60	PPB	99
13) Pentane	9.69	43	670846	56.18	PPB	94
14) Acrolein	10.62	56	101019	64.96	PPB	100
15) 1,1-Dichloroethene	10.89	61	883650	60.96	PPB	90
16) Freon 113	10.91	103	722962	69.88	PPB	96
17) Acetone	11.05	43	472562	22.70	PPB	99
18) Methyl Iodide	11.29	142	1555124	80.96	PPB	93
19) Carbon Disulfide	11.49	76	1530232	72.24	PPB	99
20) Acetonitrile	11.82	41	618209	43.22	PPB	# 18
21) 3-Chloropropene	11.83	76	180182	72.68	PPB	93
22) Methylene Chloride	12.13	84	411749	56.85	PPB	# 80
23) tert-Butyl Alcohol	12.53	59	197927	7.86	PPB	97
24) Acrylonitrile	12.72	53	422129	50.08	PPB	99
25) trans-1,2-Dichloroethene	12.80	61	715935	64.91	PPB	# 74
26) Methyl t-Butyl Ether	12.85	73	1139139	62.78	PPB	92
27) Hexane	13.44	57	547579	54.99	PPB	# 92
28) 1,1-Dichloroethane	13.77	63	814805	60.21	PPB	100
29) Vinyl Acetate	13.44	43	382536	48.41	PPB	# 80
30) cis-1,2-Dichloroethene	15.03	61	627724	60.58	PPB	# 64
31) 2-Butanone	15.06	72	82644	19.92	PPB	# 1
32) Ethyl Acetate	15.17	70	25148	14.09	PPB	# 100
33) Methyl Acrylate	15.25	55	434079	38.93	PPB	# 93
34) Chloroform	15.67	83	1145400	72.55	PPB	95
35) 1,1,1-Trichloroethane	16.10	97	1180222	74.36	PPB	91
36) Carbon Tetrachloride	16.44	117	1209760	71.97	PPB	99
38) 1,2-Dichloroethane	16.86	62	825663	74.40	PPB	96
39) Benzene	16.85	78	1165033	66.24	PPB	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00078.D
 Acq On : 6 Jun 05 7:30 pm
 Sample : VSTD050
 Misc :
 Quant Time: Jun 6 20:03 2005

Vial: 4
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Fri Jun 03 15:25:25 2005
 Response via : Single Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Isooctane	16.97	57	1743813	58.01	PPB	# 96
41) Heptane	17.29	43	708197	53.25	PPB	# 84
42) Trichloroethene	18.08	130	671428	44.09	PPB	93
43) Ethyl Acrylate	18.21	55	277624	14.82	PPB	# 96
44) 1,2-Dichloropropane	18.52	63	446090	58.31	PPB	91
45) Methyl Methacrylate	18.65	69	211972	28.98	PPB	# 82
46) Dibromomethane	18.76	174	756177	80.76	PPB	86
47) 1,4-Dioxane	18.76	88	3538	0.54	PPB	# 14
48) Bromodichloromethane	19.02	83	1269427	75.79	PPB	# 99
49) cis-1,3-Dichloropropene	19.85	75	783536	90.01	PPB	92
50) 4-Methyl-2-Pentanone	20.15	43	101646	3.44	PPB	# 95
52) Toluene	20.52	91	1499801	76.66	PPB	100
53) Octane	20.15	43	101646	3.91	PPB	# 66
54) trans-1,3-Dichloropropene	20.87	75	704145	135.99	PPB	# 59
55) Ethyl Methacrylate	20.98	69	127108	8.06	PPB	87
56) 1,1,2-Trichloroethane	21.24	97	600520	75.82	PPB	89
57) Tetrachloroethene	21.58	166	905442	76.60	PPB	96
58) 2-Hexanone	21.70	43	56142	2.41	PPB	# 99
59) Dibromochloromethane	22.02	127	991988	75.57	PPB	97
60) 1,2-Dibromoethane	22.29	107	1041471	85.92	PPB	100
61) Chlorobenzene	23.19	112	1224785	71.05	PPB	89
62) 1,1,1,2-Tetrachloroethane	23.31	131	748557	77.02	PPB	95
63) Ethylbenzene	23.35	91	2013181	70.19	PPB	99
64) m/p-Xylene	23.56	91	3164795	138.29	PPB	97
65) o-Xylene	24.33	91	1538685	71.46	PPB	98
66) Styrene	24.34	104	1113747	62.21	PPB	89
67) Bromoform	24.75	173	1272212	85.48	PPB	98
68) Cumene	25.01	105	1708669	71.65	PPB	98
69) 1,1,2,2-Tetrachloroethane	25.52	83	1014475	142.35	PPB	97
70) 1,2,3-Trichloropropane	25.65	110	304615	70.86	PPB	88
71) Bromobenzene	25.67	156	744790	83.59	PPB	99
72) 4-Ethyltoluene	25.99	105	1831648	60.34	PPB	99
73) 1,3,5-Trimethylbenzene	26.09	105	1480644	59.64	PPB	96
74) Alpha Methyl Styrene	26.52	118	623002	66.99	PPB	# 89
75) 1,2,4-Trimethylbenzene	26.82	105	1447205	54.55	PPB	99
76) 1,3-Dichlorobenzene	27.43	146	1064470	64.85	PPB	95
77) 1,4-Dichlorobenzene	27.59	146	1082753	65.45	PPB	93
78) Benzyl Chloride	26.52	91	169804	67.75	PPB	# 100
79) 1,2-Dichlorobenzene	28.33	146	1000942	64.87	PPB	98
80) Hexachloroethane	28.84	117	829859	108.52	PPB	94
81) 1,2,4-Trichlorobenzene	31.40	180	513118	69.17	PPB	# 61
82) Hexachlorobutadiene	31.70	225	584298	74.80	PPB	98

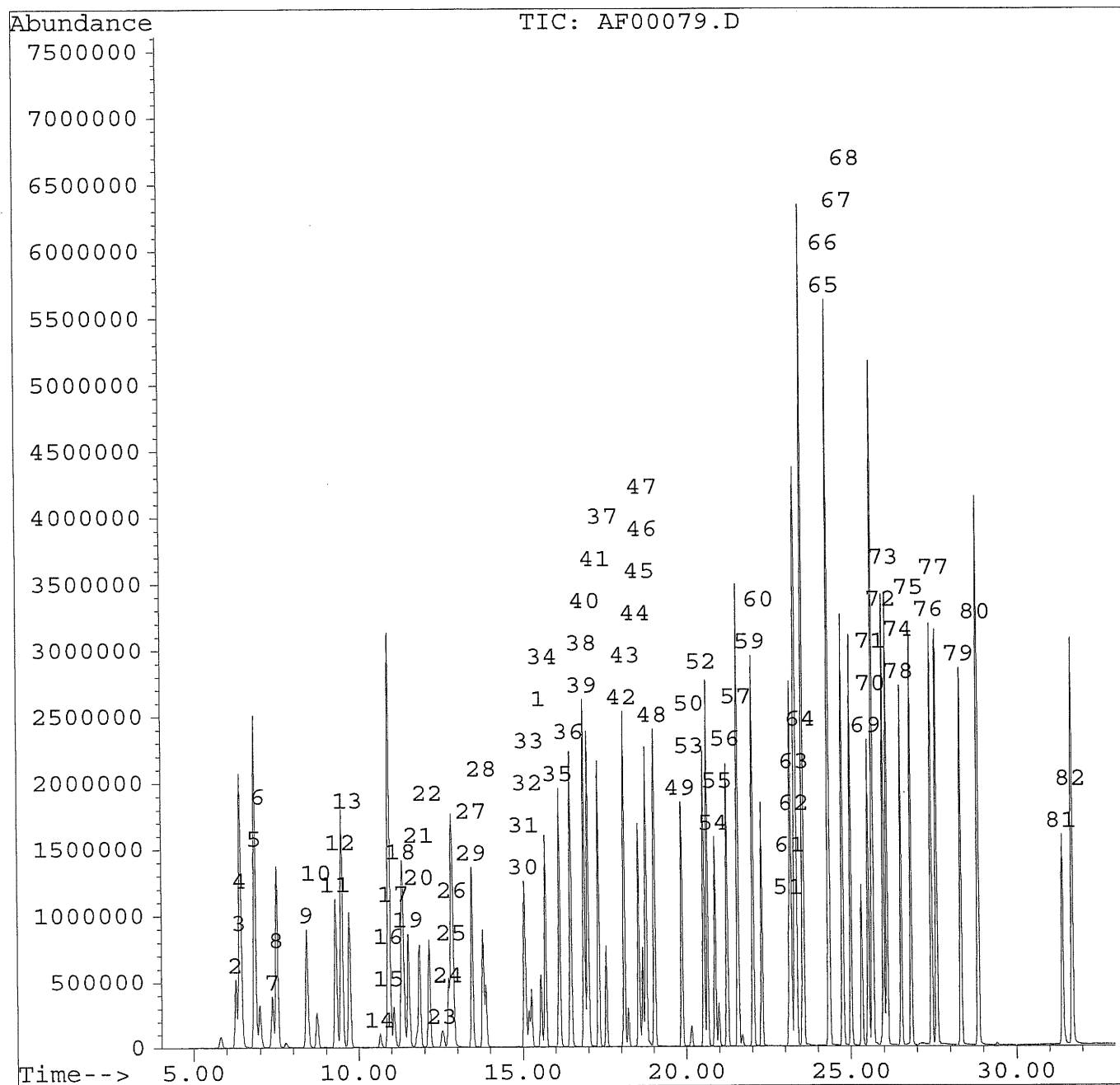
8868

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00079.D
 Acq On : 6 Jun 05 8:19 pm
 Sample : VSTD100
 Misc :
 Quant Time: Jun 6 20:52 2005

Vial: 5
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Fri Jun 03 15:25:25 2005
 Response via : Single Level Calibration



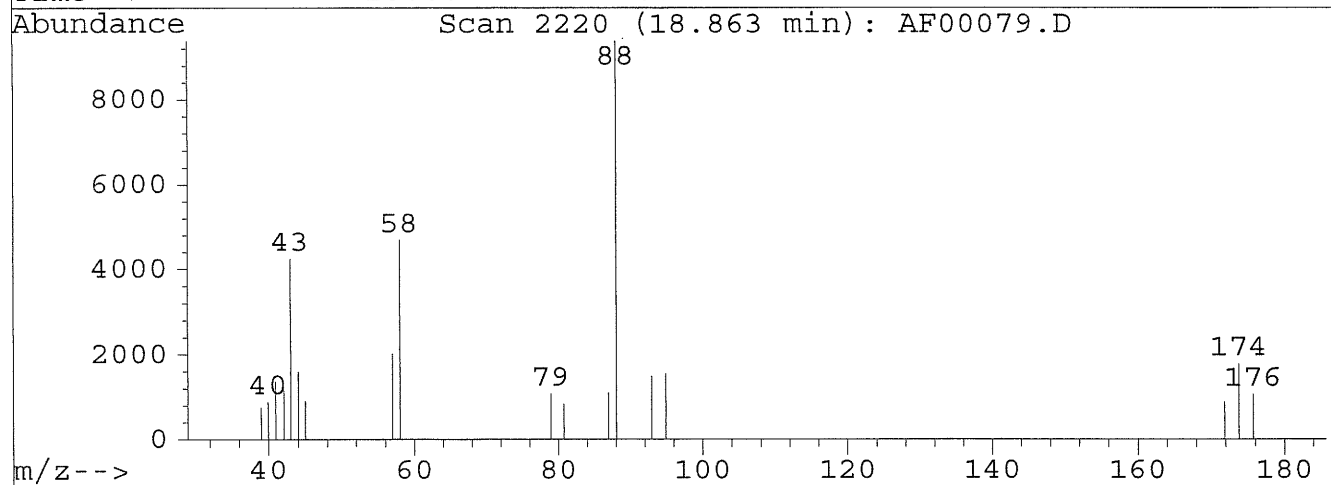
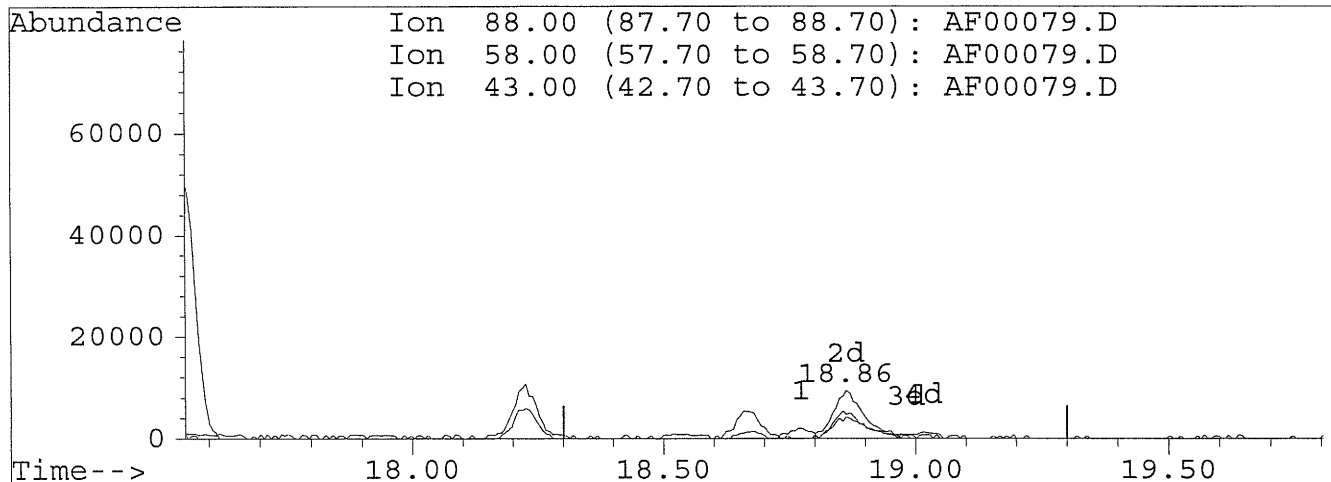
8863

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00079.D
 Acq On : 6 Jun 05 8:19 pm
 Sample : VSTD100
 Misc :
 Quant Time: Jun 6 21:40 2005

Vial: 5
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Mon Jun 06 21:36:33 2005
 Response via : Single Level Calibration



TIC: AF00079.D

(47) 1,4-Dioxane
 18.86min 5.89PPB m
 response 39471

Ion	Exp%	Act%
88.00	100	100
58.00	84.90	49.94
43.00	50.30	45.26
0.00	0.00	0.00

*wrong peak
 12/6/05
 6/9/06*

*from 703
 6/11/06*

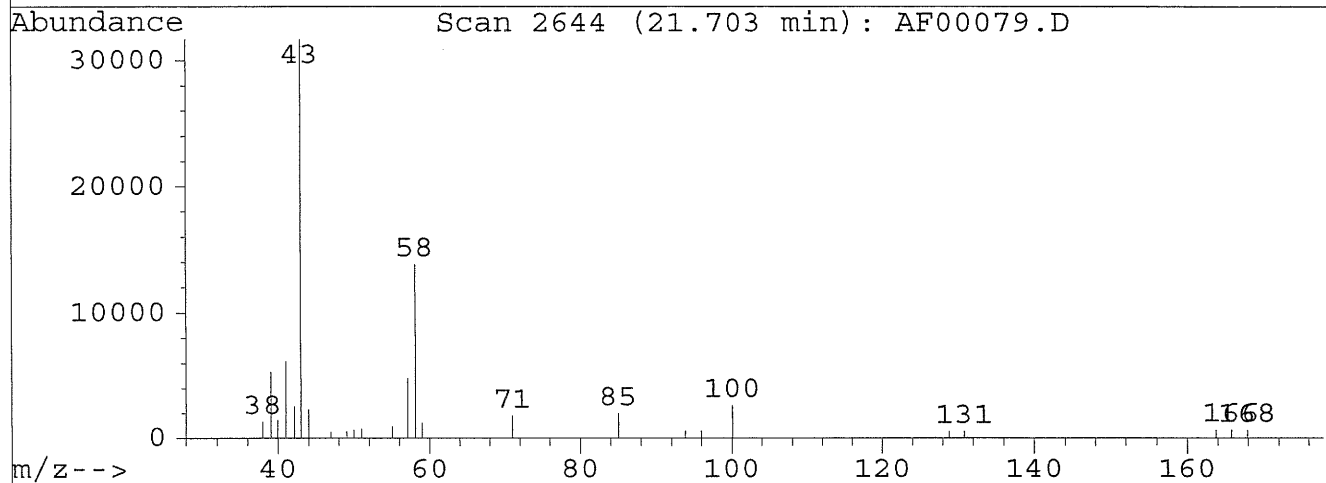
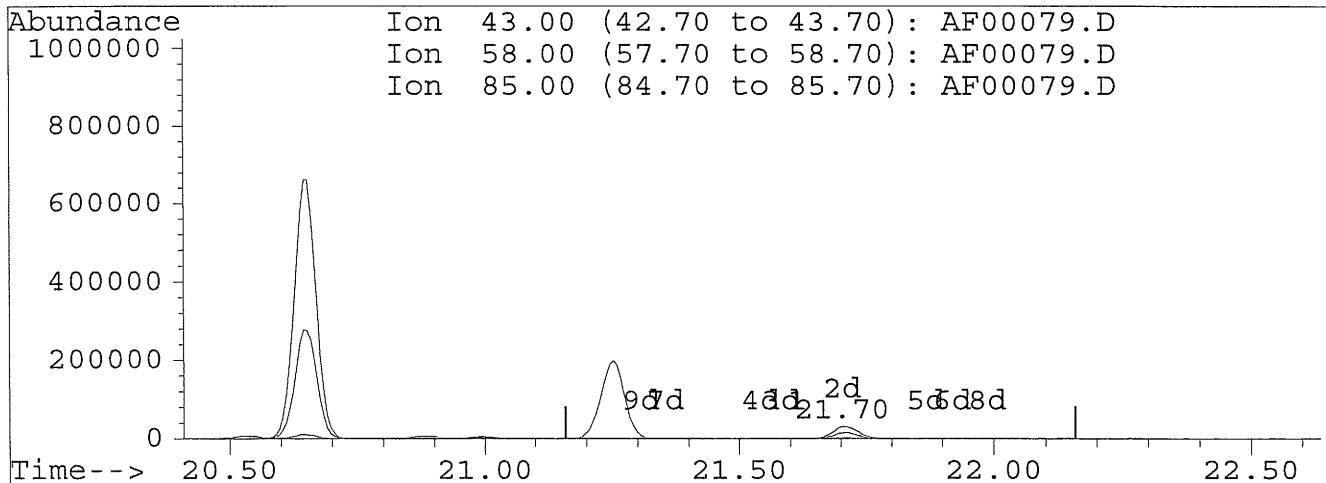
8878

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00079.D
 Acq On : 6 Jun 05 8:19 pm
 Sample : VSTD100
 Misc :
 Quant Time: Jun 6 21:40 2005

Vial: 5
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : T014 SCAN METHOD
 Last Update : Mon Jun 06 21:36:33 2005
 Response via : Single Level Calibration



TIC: AF00079.D

(58) 2-Hexanone
 21.70min 4.46PPB m
 response 107571

Ion	Exp%	Act%
43.00	100	100
58.00	42.10	43.62
85.00	5.10	6.25
0.00	0.00	0.00

*wrong peak
 6/16/05*

*from 103
 6/17/05*

8871

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00079.D
 Acq On : 6 Jun 05 8:19 pm
 Sample : VSTD100
 Misc :
 Quant Time: Jun 6 21:40 2005

Vial: 5
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Tue Jul 12 07:36:35 2005
 Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	15.55	130	357042	10.00	PPB	0.06
37) 1,4-Difluorobenzene	17.55	114	1046502	10.00	PPB	0.06
51) Chlorobenzene d5	23.15	117	952228	10.00	PPB	0.04

System Monitoring Compounds %Recovery

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	6.28	41	731766	117.62	PPB	95
3) Dichlorodifluoromethane	6.40	85	3940819	194.92	PPB	99
4) Chlorodifluoromethane	6.44	51	2341351	173.14	PPB	# 88
5) Freon 114	6.85	85	3643685	181.81	PPB	88
6) Chloromethane	7.00	50	941806	139.64	PPB	99
7) Vinyl Chloride	7.38	62	1024378	145.57	PPB	98
8) 1,3-Butadiene	7.52	54	1334578	148.41	PPB	96
9) Bromomethane	8.42	94	1453552	182.06	PPB	99
10) Chloroethane	8.73	64	540639	141.98	PPB	99
11) Dichlorofluoromethane	9.30	67	2716205	158.73	PPB	# 88
12) Trichlorofluoromethane	9.48	101	3577219	171.34	PPB	99
13) Pentane	9.72	43	1406674	112.56	PPB	94
14) Acrolein	10.65	56	192011	117.97	PPB	100
15) 1,1-Dichloroethene	10.92	61	1798140	118.52	PPB	92
16) Freon 113	10.92	103	1458770	134.72	PPB	96
17) Acetone	11.08	43	952835	43.73	PPB	97
18) Methyl Iodide	11.32	142	3041244	151.28	PPB	91
19) Carbon Disulfide	11.52	76	2894264	130.55	PPB	99
20) Acetonitrile	11.86	41	1209735	80.80	PPB	# 4
21) 3-Chloropropene	11.86	76	361647	139.39	PPB	95
22) Methylene Chloride	12.15	84	812863	107.24	PPB	# 79
23) tert-Butyl Alcohol	12.55	59	388567	14.75	PPB	98
24) Acrylonitrile	12.75	53	826690	93.71	PPB	98
25) trans-1,2-Dichloroethene	12.83	61	1455760	126.11	PPB	# 75
26) Methyl t-Butyl Ether	12.88	73	2197513	115.72	PPB	92
27) Hexane	13.46	57	1122154	107.68	PPB	# 92
28) 1,1-Dichloroethane	13.80	63	1630643	115.13	PPB	100
29) Vinyl Acetate	13.46	43	789261	95.44	PPB	# 81
30) cis-1,2-Dichloroethene	15.05	61	1277532	117.81	PPB	# 64
31) 2-Butanone	15.09	72	167950	38.67	PPB	# 1
32) Ethyl Acetate	15.19	70	53892	28.85	PPB	# 100
33) Methyl Acrylate	15.27	55	877135	75.16	PPB	# 93
34) Chloroform	15.69	83	2223841	134.59	PPB	95
35) 1,1,1-Trichloroethane	16.12	97	2406518	144.87	PPB	91
36) Carbon Tetrachloride	16.46	117	2505804	142.45	PPB	99
38) 1,2-Dichloroethane	16.87	62	1726490	152.13	PPB	97
39) Benzene	16.87	78	2389999	132.89	PPB	99

(#) = qualifier out of range (m) = manual integration
 AF00079.D ALL198.M Tue Jul 12 22:57:09 2005

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00079.D
 Acq On : 6 Jun 05 8:19 pm
 Sample : VSTD100
 Misc :
 Quant Time: Jun 6 21:40 2005

Vial: 5
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Tue Jul 12 07:36:35 2005
 Response via : Single Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Isooctane	16.99	57	3619671	117.75	PPB	# 96
41) Heptane	17.31	43	1442404	106.06	PPB	# 85
42) Trichloroethene	18.10	130	1375999	88.36	PPB	94
43) Ethyl Acrylate	18.23	55	548340	28.63	PPB	# 97
44) 1,2-Dichloropropane	18.54	63	865810	110.67	PPB	89
45) Methyl Methacrylate	18.67	69	409018	54.69	PPB	# 84
46) Dibromomethane	18.77	174	1481113	154.69	PPB	86
47) 1,4-Dioxane	18.86	88	39471	5.89	PPB	m 14
48) Bromodichloromethane	19.03	83	2605041	152.10	PPB	# 99
49) cis-1,3-Dichloropropene	19.87	75	1546697	173.75	PPB	94
50) 4-Methyl-2-Pentanone	20.16	43	190457	6.30	PPB	# 95
52) Toluene	20.53	91	2830589	139.96	PPB	99
53) Octane	20.16	43	190457	7.10	PPB	# 75
54) trans-1,3-Dichloropropene	20.88	75	1370993	256.13	PPB	# 61
55) Ethyl Methacrylate	21.00	69	248169	15.23	PPB	87
56) 1,1,2-Trichloroethane	21.25	97	1144548	139.80	PPB	92
57) Tetrachloroethene	21.59	166	1784535	146.04	PPB	97
58) 2-Hexanone	21.70	43	107571	4.46	PPB	m 39
59) Dibromochloromethane	22.03	127	2083298	153.53	PPB	98
60) 1,2-Dibromoethane	22.30	107	2123609	169.47	PPB	100
61) Chlorobenzene	23.20	112	2524725	141.67	PPB	89
62) 1,1,1,2-Tetrachloroethane	23.32	131	1568057	156.06	PPB	94
63) Ethylbenzene	23.36	91	4310139	145.36	PPB	99
64) m/p-Xylene	23.57	91	6882362	290.92	PPB	98
65) o-Xylene	24.34	91	3240089	145.57	PPB	98
66) Styrene	24.36	104	2328611	125.83	PPB	90
67) Bromoform	24.76	173	2656047	172.63	PPB	98
68) Cumene	25.01	105	3692172	149.77	PPB	98
69) 1,1,2,2-Tetrachloroethane	25.53	83	2057009	279.21	PPB	98
70) 1,2,3-Trichloropropane	25.67	110	618930	139.28	PPB	88
71) Bromobenzene	25.68	156	1588033	172.40	PPB	99
72) 4-Ethyltoluene	26.00	105	3986827	127.05	PPB	100
73) 1,3,5-Trimethylbenzene	26.09	105	3279717	127.80	PPB	97
74) Alpha Methyl Styrene	26.53	118	1351514	140.59	PPB	# 90
75) 1,2,4-Trimethylbenzene	26.83	105	3127429	114.03	PPB	99
76) 1,3-Dichlorobenzene	27.44	146	2314873	136.43	PPB	95
77) 1,4-Dichlorobenzene	27.60	146	2353445	137.61	PPB	92
78) Benzyl Chloride	26.53	91	366596	141.49	PPB	# 100
79) 1,2-Dichlorobenzene	28.33	146	2033339	127.48	PPB	98
80) Hexachloroethane	28.85	117	1798367	227.49	PPB	94
81) 1,2,4-Trichlorobenzene	31.41	180	1014691	132.32	PPB	# 62
82) Hexachlorobutadiene	31.70	225	1239376	153.48	PPB	98

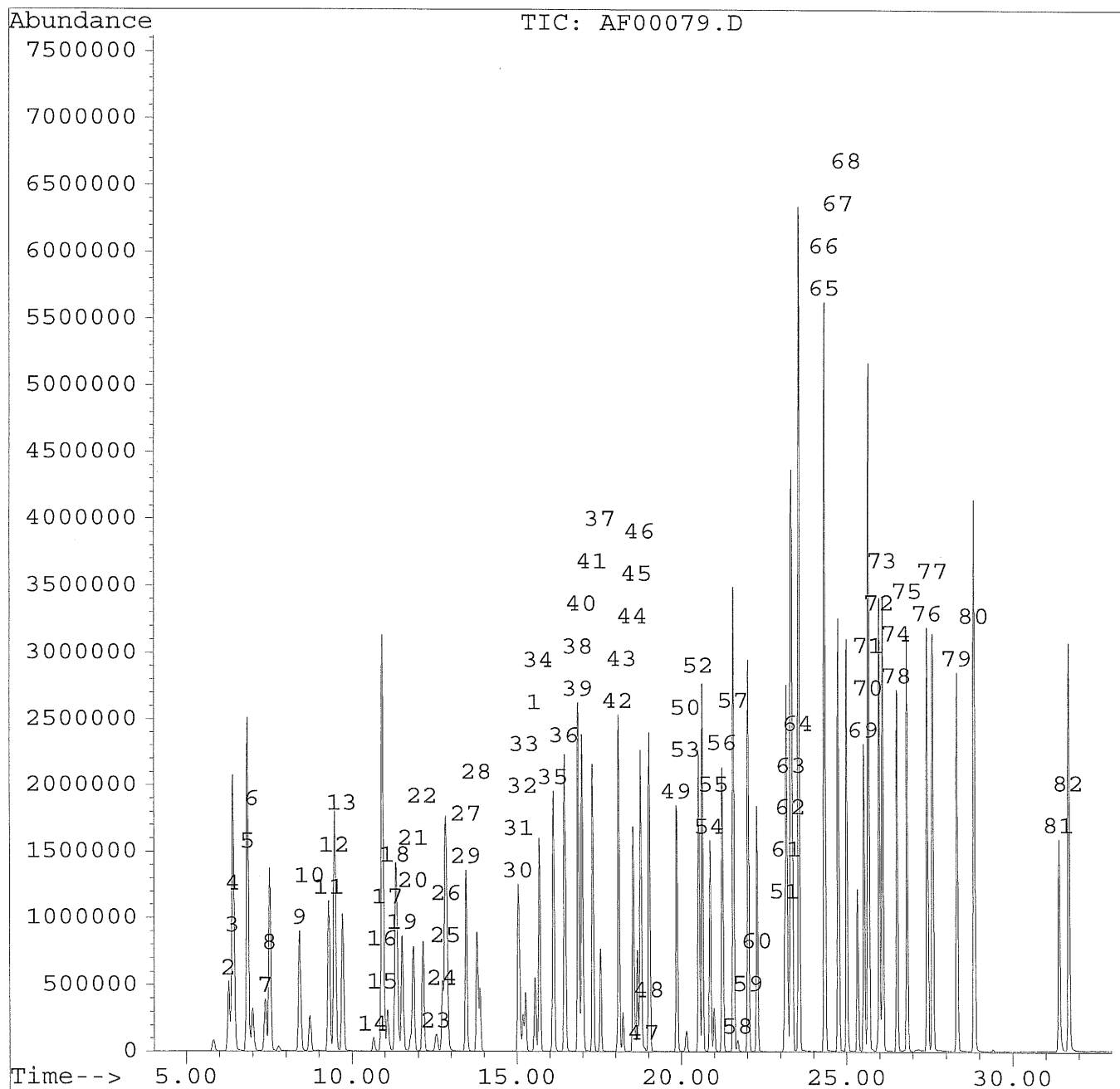
8873

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00079.D
 Acq On : 6 Jun 05 8:19 pm
 Sample : VSTD100
 Misc :
 Quant Time: Jun 6 21:40 2005

Vial: 5
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Tue Jul 12 07:36:35 2005
 Response via : Single Level Calibration



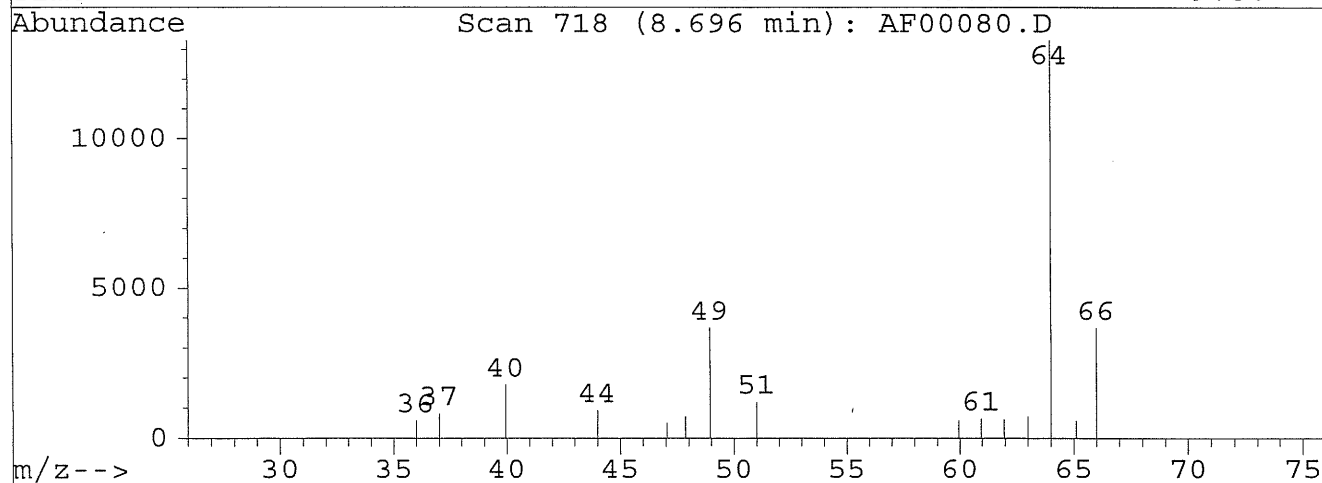
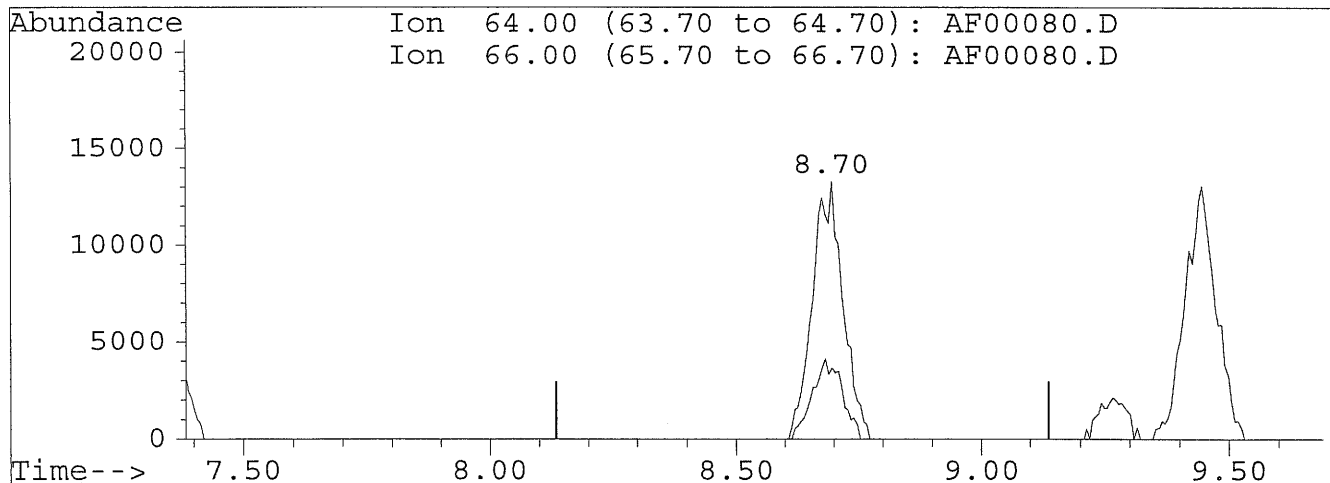
0074

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00080.D
 Acq On : 6 Jun 05 9:01 pm
 Sample : VSTD010
 Misc :
 Quant Time: Jun 6 21:38 2005

Vial: 6
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : T014 SCAN METHOD
 Last Update : Mon Jun 06 21:36:22 2005
 Response via : Single Level Calibration



(10) Chloroethane
 8.70min 15.02PPB m
 response 56720

Ion	Exp%	Act%
64.00	100	100
66.00	31.90	27.56
0.00	0.00	0.00
0.00	0.00	0.00

*split peak
 10/6/04
 6/8/05*

*from 753
 6/7/05*

8875

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00080.D
 Acq On : 6 Jun 05 9:01 pm
 Sample : VSTD010
 Misc :
 Quant Time: Jun 6 21:38 2005

Vial: 6
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Mon Jun 06 21:36:33 2005
 Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	15.53	130	354000	10.00	PPB	0.04
37) 1,4-Difluorobenzene	17.53	114	1117795	10.00	PPB	0.03
51) Chlorobenzene d5	23.14	117	967281	10.00	PPB	0.03

System Monitoring Compounds

%Recovery

Target Compounds

Qvalue

2) Propene	6.23	41	77989	12.64	PPB	92
3) Dichlorodifluoromethane	6.36	85	419945	20.95	PPB	100
4) Chlorodifluoromethane	6.40	51	244855	18.26	PPB	# 87
5) Freon 114	6.80	85	408934	20.58	PPB	89
6) Chloromethane	6.96	50	108157	16.17	PPB	98
7) Vinyl Chloride	7.34	62	117229	16.80	PPB	98
8) 1,3-Butadiene	7.47	54	154002	17.27	PPB	97
9) Bromomethane	8.38	94	155313	19.62	PPB	100
10) Chloroethane	8.70	64	56720	15.02	PPB	m 58
11) Dichlorofluoromethane	9.26	67	277451	16.35	PPB	# 82
12) Trichlorofluoromethane	9.44	101	378119	18.27	PPB	100
13) Pentane	9.69	43	160909	12.99	PPB	97
14) Acrolein	10.63	56	23458	14.54	PPB	# 63
15) 1,1-Dichloroethene	10.88	61	206520	13.73	PPB	90
16) Freon 113	10.89	103	161407	15.03	PPB	93
17) Acetone	11.08	43	114425	5.30	PPB	99
18) Methyl Iodide	11.29	142	354882	17.80	PPB	92
19) Carbon Disulfide	11.49	76	353412	16.08	PPB	99
20) Acetonitrile	11.81	41	149540	10.07	PPB	# 31
21) 3-Chloropropene	11.83	76	45940	17.86	PPB	81
22) Methylene Chloride	12.13	84	96842	12.89	PPB	# 81
23) tert-Butyl Alcohol	12.55	59	46218	1.77	PPB	98
24) Acrylonitrile	12.72	53	98688	11.28	PPB	98
25) trans-1,2-Dichloroethene	12.80	61	161930	14.15	PPB	# 74
26) Methyl t-Butyl Ether	12.87	73	258207	13.71	PPB	91
27) Hexane	13.44	57	127207	12.31	PPB	# 93
28) 1,1-Dichloroethane	13.77	63	186551	13.28	PPB	100
29) Vinyl Acetate	13.45	43	91506	11.16	PPB	# 85
30) cis-1,2-Dichloroethene	15.03	61	149243	13.88	PPB	# 67
31) 2-Butanone	15.07	72	17741	4.12	PPB	# 1
32) Ethyl Acetate	15.18	70	4940	2.67	PPB	# 100
33) Methyl Acrylate	15.25	55	100994	8.73	PPB	# 93
34) Chloroform	15.67	83	260616	15.91	PPB	95
35) 1,1,1-Trichloroethane	16.10	97	263543	16.00	PPB	90
36) Carbon Tetrachloride	16.44	117	270646	15.52	PPB	100
38) 1,2-Dichloroethane	16.85	62	184413	15.21	PPB	97
39) Benzene	16.85	78	266709	13.88	PPB	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00080.D
 Acq On : 6 Jun 05 9:01 pm
 Sample : VSTD010
 Misc :
 Quant Time: Jun 6 21:38 2005

Vial: 6
 Operator: GMM
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Mon Jun 06 21:36:33 2005
 Response via : Single Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Isooctane	16.97	57	408502	12.44	PPB	# 98
41) Heptane	17.30	43	172240	11.86	PPB	# 87
42) Trichloroethene	18.08	130	155915	9.37	PPB	93
43) Ethyl Acrylate	18.22	55	63216	3.09	PPB	# 98
44) 1,2-Dichloropropane	18.52	63	105394	12.61	PPB	92
45) Methyl Methacrylate	18.66	69	48110	6.02	PPB	# 83
46) Dibromomethane	18.76	174	165408	16.17	PPB	87
48) Bromodichloromethane	19.01	83	289867	15.85	PPB	99
49) cis-1,3-Dichloropropene	19.86	75	173947	18.29	PPB	93
50) 4-Methyl-2-Pentanone	20.18	43	22115	0.68	PPB	# 95
52) Toluene	20.52	91	330080	16.07	PPB	99
53) Octane	20.18	43	22115	0.81	PPB	# 60
54) trans-1,3-Dichloropropene	20.86	75	151051	27.78	PPB	# 61
55) Ethyl Methacrylate	20.98	69	26109	1.58	PPB	89
56) 1,1,2-Trichloroethane	21.24	97	128226	15.42	PPB	92
57) Tetrachloroethene	21.57	166	203506	16.39	PPB	98
58) 2-Hexanone	21.73	43	12586	0.51	PPB	# 59
59) Dibromochloromethane	22.02	127	222050	16.11	PPB	98
60) 1,2-Dibromoethane	22.29	107	228652	17.96	PPB	98
61) Chlorobenzene	23.19	112	270129	14.92	PPB	92
62) 1,1,1,2-Tetrachloroethane	23.30	131	162710	15.94	PPB	95
63) Ethylbenzene	23.35	91	435327	14.45	PPB	98
64) m/p-Xylene	23.56	91	703963	29.29	PPB	98
65) o-Xylene	24.33	91	353414	15.63	PPB	99
66) Styrene	24.34	104	244551	13.01	PPB	89
67) Bromoform	24.75	173	271498	17.37	PPB	98
68) Cumene	25.00	105	391537	15.64	PPB	98
69) 1,1,2,2-Tetrachloroethane	25.53	83	238582	31.88	PPB	98
70) 1,2,3-Trichloropropane	25.66	110	67020	14.85	PPB	88
71) Bromobenzene	25.67	156	161196	17.23	PPB	98
72) 4-Ethyltoluene	25.99	105	429381	13.47	PPB	100
73) 1,3,5-Trimethylbenzene	26.09	105	338066	12.97	PPB	95
74) Alpha Methyl Styrene	26.52	118	142227	14.56	PPB	# 90
75) 1,2,4-Trimethylbenzene	26.82	105	323997	11.63	PPB	99
76) 1,3-Dichlorobenzene	27.43	146	252322	14.64	PPB	95
77) 1,4-Dichlorobenzene	27.59	146	238409	13.72	PPB	92
78) Benzyl Chloride	26.52	91	39280	14.92	PPB	# 100
79) 1,2-Dichlorobenzene	28.34	146	213673	13.19	PPB	98
80) Hexachloroethane	28.84	117	171706	21.38	PPB	96
81) 1,2,4-Trichlorobenzene	31.41	180	118322	15.19	PPB	# 60
82) Hexachlorobutadiene	31.69	225	137769	16.80	PPB	96

0077

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR

CONTINUING CALIBRATION DATA SHEET

Instrument ID: HP4224
EPA SAMPLE NO.: VSTD050

Data File: C:\HPCHEM\1\DATA\JUN08\AF00121.D
DATE INJECTED: 06/08/05 TIME INJECTED: 19:09

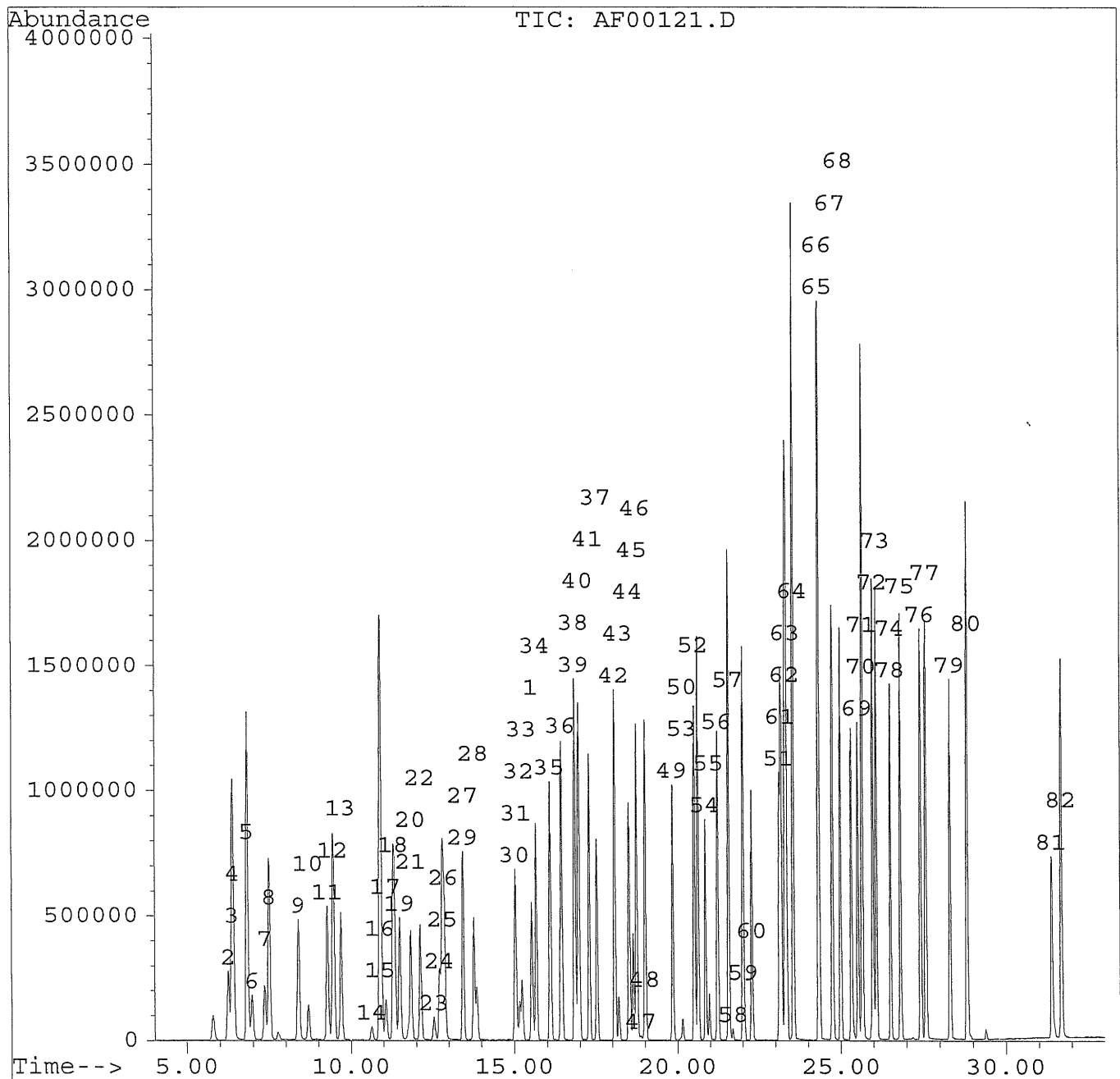
COMPOUND NAME	ICAL MEAN RRF	CCAL RRF	%D
Dichlorodifluoromethane	1.136	1.096	-4
Freon 114	1.102	1.046	-5
Chloromethane	0.282	0.283	0
Vinyl Chloride	0.309	0.316	2
Bromomethane	0.429	0.436	2
Chloroethane	0.157	0.161	3
Trichlorofluoromethane	1.016	0.939	-8
1,1-Dichloroethene	0.535	0.519	-3
Freon 113	0.429	0.441	3
3-Chloropropene	0.112	0.114	2
Methylene Chloride	0.248	0.257	4
1,1-Dichloroethane	0.513	0.549	7
cis-1,2-Dichloroethene	0.403	0.403	0
Chloroform	0.677	0.680	0
1,1,1-Trichloroethane	0.703	0.729	4
Carbon Tetrachloride	0.763	0.767	0
1,2-Dichloroethane	0.164	0.154	-6
Benzene	0.232	0.238	3
Trichloroethene	0.134	0.138	3
1,2-Dichloropropane	0.088	0.097	10
cis-1,3-Dichloropropene	0.169	0.183	8
Toluene	0.321	0.335	4
trans-1,3-Dichloropropene	0.168	0.178	6
1,1,2-Trichloroethane	0.134	0.145	8
Tetrachloroethene	0.198	0.204	3
1,2-Dibromoethane	0.229	0.236	3
Chlorobenzene	0.270	0.288	7
Ethylbenzene	0.447	0.480	8
m/p-Xylene	0.365	0.367	1
o-Xylene	0.347	0.356	3
Styrene	0.246	0.264	7
1,1,2,2-Tetrachloroethane	0.217	0.233	7
4-Ethyltoluene	0.442	0.449	2
1,3,5-Trimethylbenzene	0.338	0.337	0
1,2,4-Trimethylbenzene	0.343	0.345	0
1,3-Dichlorobenzene	0.245	0.252	3
1,4-Dichlorobenzene	0.243	0.250	3
1,2-Dichlorobenzene	0.217	0.217	0
1,2,4-Trichlorobenzene	0.113	0.098	-10

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00121.D
 Acq On : 8 Jun 05 7:09 pm
 Sample : VSTD050
 Misc :
 Quant Time: Jun 8 19:42 2005

Vial: 3
 Operator: rdg
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Tue Jun 07 17:10:16 2005
 Response via : Single Level Calibration



8879

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00121.D
 Acq On : 8 Jun 05 7:09 pm
 Sample : VSTD050
 Misc :
 Quant Time: Jun 8 19:42 2005

Vial: 3
 Operator: rdg
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Tue Jun 07 17:10:16 2005
 Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	15.54	130	364298	10.00	PPB	-0.01
37) 1,4-Difluorobenzene	17.53	114	1125831	10.00	PPB	-0.02
51) Chlorobenzene d5	23.13	117	996486	10.00	PPB	-0.02

System Monitoring Compounds

%Recovery

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	6.25	41	392246	57.35	PPB	96
3) Dichlorodifluoromethane	6.38	85	2006963	46.48	PPB	99
4) Chlorodifluoromethane	6.41	51	1180284	50.16	PPB	# 89
5) Freon 114	6.83	85	1904569	48.48	PPB	86
6) Chloromethane	6.98	50	515683	59.11	PPB	100
7) Vinyl Chloride	7.36	62	576304	57.49	PPB	98
8) 1,3-Butadiene	7.50	54	749554	57.01	PPB	93
9) Bromomethane	8.40	94	794239	52.98	PPB	97
10) Chloroethane	8.70	64	293884	58.72	PPB	99
11) Dichlorofluoromethane	9.29	67	1300978	48.46	PPB	# 87
12) Trichlorofluoromethane	9.45	101	1709994	42.51	PPB	100
13) Pentane	9.70	43	724940	60.28	PPB	97
14) Acrolein	10.64	56	107558	65.49	PPB	100
15) 1,1-Dichloroethene	10.89	61	945486	52.42	PPB	88
16) Freon 113	10.91	103	804112	55.62	PPB	95
17) Acetone	11.06	43	500065	52.85	PPB	100
18) Methyl Iodide	11.31	142	1689595	57.92	PPB	95
19) Carbon Disulfide	11.50	76	1690087	62.02	PPB	99
20) Acetonitrile	11.84	41	695569	62.35	PPB	# 19
21) 3-Chloropropene	11.84	76	207612	55.55	PPB	83
22) Methylene Chloride	12.14	84	468736	57.23	PPB	# 77
23) tert-Butyl Alcohol	12.55	59	233078	58.51	PPB	97
24) Acrylonitrile	12.72	53	474088	65.21	PPB	99
25) trans-1,2-Dichloroethene	12.80	61	772532	55.13	PPB	# 73
26) Methyl t-Butyl Ether	12.87	73	1202922	54.76	PPB	91
27) Hexane	13.44	57	639421	63.10	PPB	# 89
28) 1,1-Dichloroethane	13.78	63	950483	55.36	PPB	100
29) Vinyl Acetate	13.44	43	442553	61.25	PPB	# 82
30) cis-1,2-Dichloroethene	15.03	61	696528	49.67	PPB	# 62
31) 2-Butanone	15.08	72	88600	55.70	PPB	# 1
32) Ethyl Acetate	15.18	70	30560	65.14	PPB	# 100
33) Methyl Acrylate	15.24	55	505489	60.26	PPB	# 93
34) Chloroform	15.67	83	1239162	51.01	PPB	94
35) 1,1,1-Trichloroethane	16.10	97	1327692	49.83	PPB	90
36) Carbon Tetrachloride	16.45	117	1327512	45.58	PPB	100
38) 1,2-Dichloroethane	16.86	62	865689	43.70	PPB	96
39) Benzene	16.85	78	1342507	52.85	PPB	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00121.D
 Acq On : 8 Jun 05 7:09 pm
 Sample : VSTD050
 Misc :
 Quant Time: Jun 8 19:42 2005

Vial: 3
 Operator: rdg
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Tue Jun 07 17:10:16 2005
 Response via : Single Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Isooctane	16.98	57	2099531	60.71	PPB	# 98
41) Heptane	17.30	43	811800	58.07	PPB	# 84
42) Trichloroethene	18.09	130	778695	52.00	PPB	93
43) Ethyl Acrylate	18.21	55	324275	57.17	PPB	# 96
44) 1,2-Dichloropropane	18.52	63	544887	59.36	PPB	96
45) Methyl Methacrylate	18.65	69	252630	61.12	PPB	# 76
46) Dibromomethane	18.75	174	852276	55.44	PPB	85
47) 1,4-Dioxane	18.87	88	22231	56.02	PPB	# 66
48) Bromodichloromethane	19.01	83	1477423	50.82	PPB	# 99
49) cis-1,3-Dichloropropene	19.85	75	925829	46.07	PPB	88
50) 4-Methyl-2-Pentanone	20.16	43	115259	55.53	PPB	# 95
52) Toluene	20.52	91	1666684	53.49	PPB	100
53) Octane	20.16	43	115259	57.64	PPB	# 74
54) trans-1,3-Dichloropropene	20.86	75	800408	46.93	PPB	# 56
55) Ethyl Methacrylate	20.98	69	140349	54.93	PPB	84
56) 1,1,2-Trichloroethane	21.24	97	685833	51.22	PPB	91
57) Tetrachloroethene	21.57	166	1015928	52.47	PPB	96
58) 2-Hexanone	21.70	43	62818	54.52	PPB	# 97
59) Dibromochloromethane	22.02	127	1183293	52.19	PPB	100
60) 1,2-Dibromoethane	22.28	107	1177684	52.30	PPB	100
61) Chlorobenzene	23.18	112	1436543	53.52	PPB	87
62) 1,1,1,2-Tetrachloroethane	23.31	131	814849	47.73	PPB	95
63) Ethylbenzene	23.35	91	2392297	51.91	PPB	97
64) m/p-Xylene	23.56	91	3570238	95.42	PPB	95
65) o-Xylene	24.33	91	1773722	49.77	PPB	96
66) Styrene	24.34	104	1315070	51.50	PPB	86
67) Bromoform	24.75	173	1461370	53.40	PPB	97
68) Cumene	24.99	105	1984539	52.56	PPB	97
69) 1,1,2,2-Tetrachloroethane	25.52	83	1216677	57.12	PPB	98
70) 1,2,3-Trichloropropane	25.65	110	345592	50.21	PPB	86
71) Bromobenzene	25.66	156	861009	55.18	PPB	98
72) 4-Ethyltoluene	25.98	105	2126308	47.41	PPB	98
73) 1,3,5-Trimethylbenzene	26.09	105	1680463	48.67	PPB	95
74) Alpha Methyl Styrene	26.52	118	707781	54.06	PPB	# 89
75) 1,2,4-Trimethylbenzene	26.82	105	1631020	48.46	PPB	97
76) 1,3-Dichlorobenzene	27.43	146	1253196	52.26	PPB	94
77) 1,4-Dichlorobenzene	27.59	146	1246239	51.65	PPB	93
78) Benzyl Chloride	26.52	91	187502	48.32	PPB	# 100
79) 1,2-Dichlorobenzene	28.33	146	1081817	48.78	PPB	97
80) Hexachloroethane	28.84	117	906262	51.11	PPB	95
81) 1,2,4-Trichlorobenzene	31.39	180	490475	49.36	PPB	# 61
82) Hexachlorobutadiene	31.69	225	621645	46.83	PPB	99

0001

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

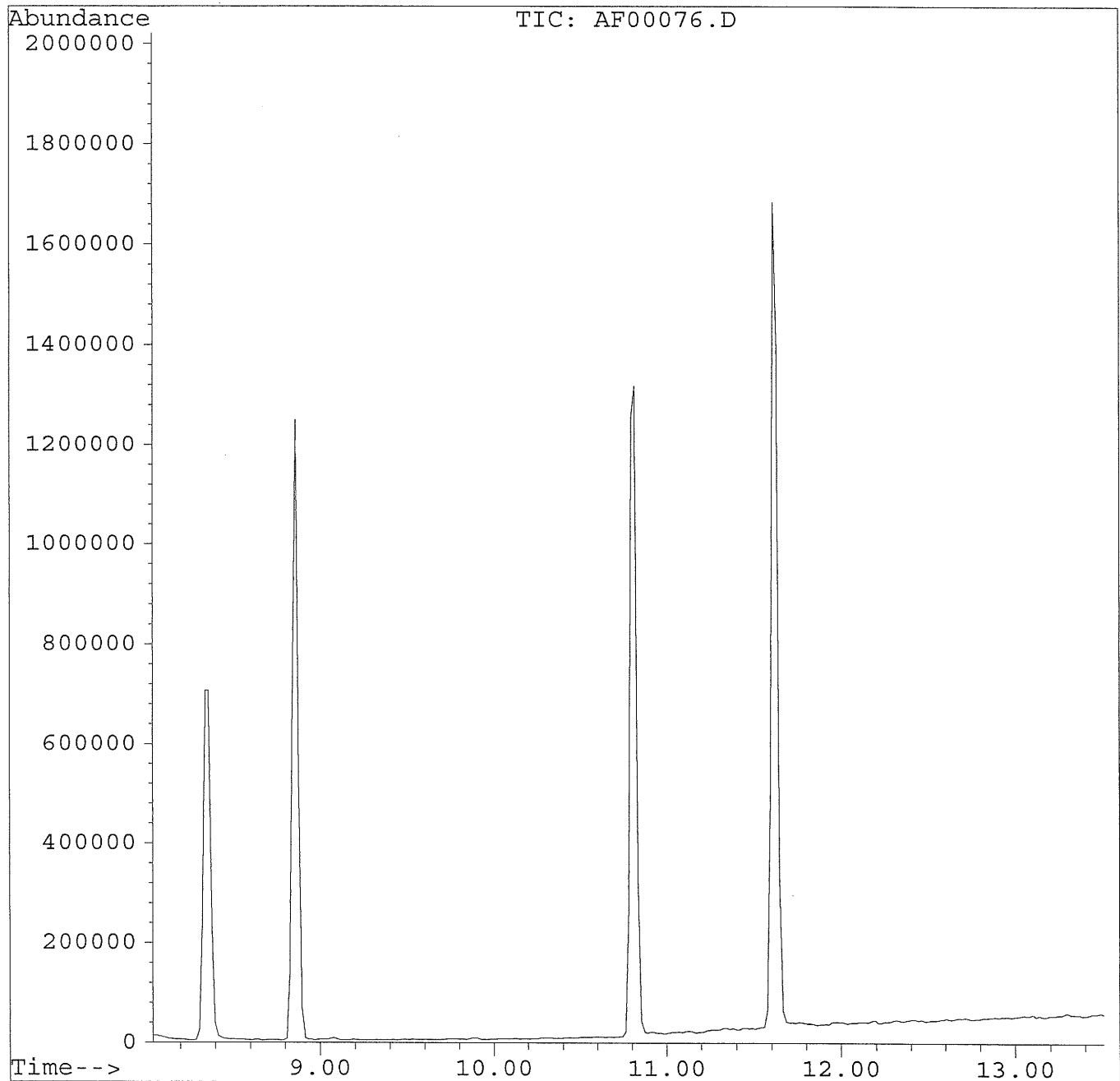
Raw QC Data

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN06\AF00076.D
Acq On : 6 Jun 05 4:21 pm
Sample : BFB
Misc :
Quant Time: Jun 6 16:35 2005

Vial: 1
Operator: RDG
Inst : HP4224
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB.M
Title : TO14 SCAN METHOD
Last Update : Sun Oct 24 21:20:34 2004
Response via : Single Level Calibration

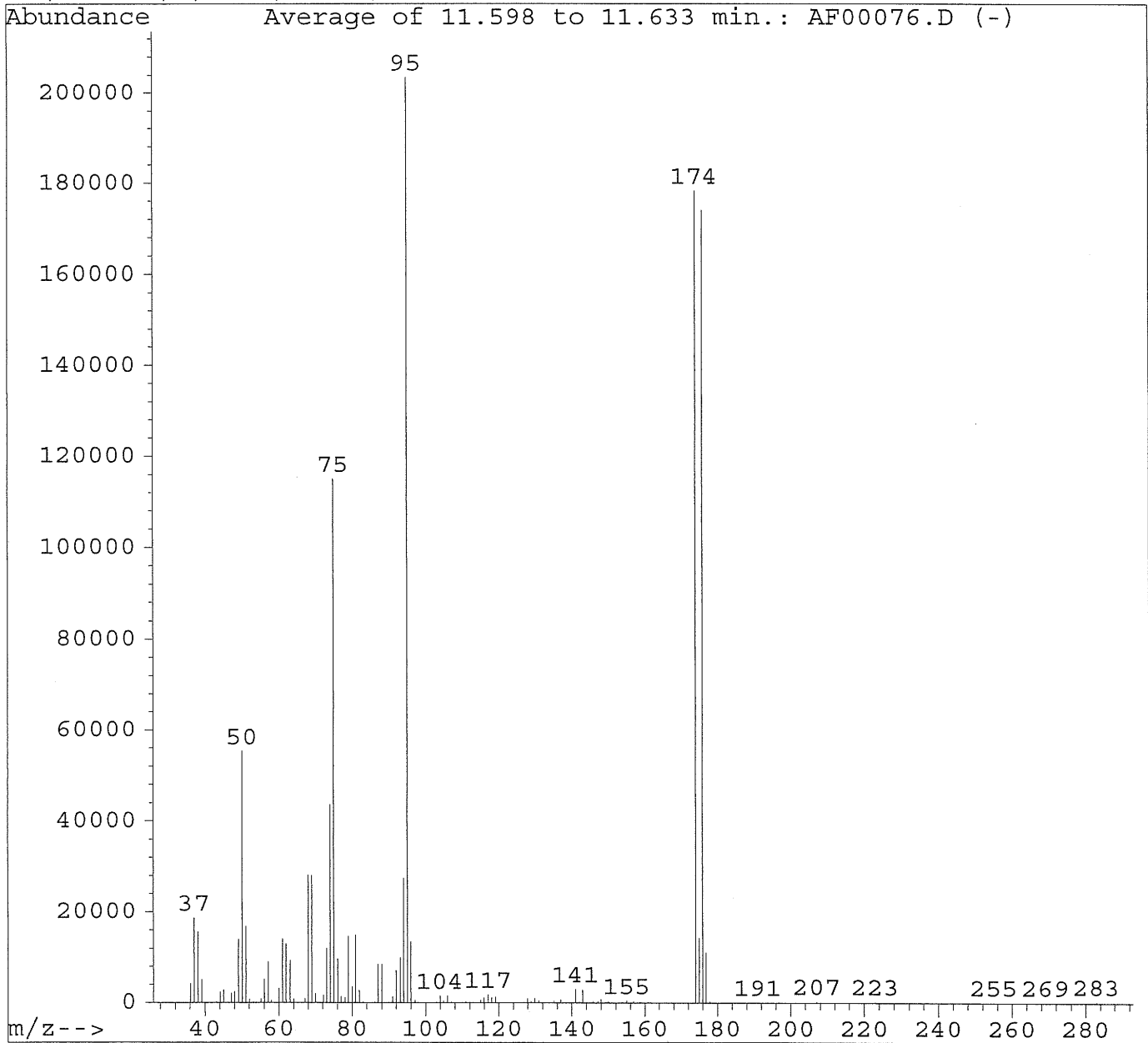


8883

BFB 624 Results

C:\HPCHEM\1\DATA\JUN06\AF00076.D

Mon Jun 06 16:35:22 2005



Peak Apex is scan: 200

Average of 3 scans: 199, 200, 201 minus background scan 195

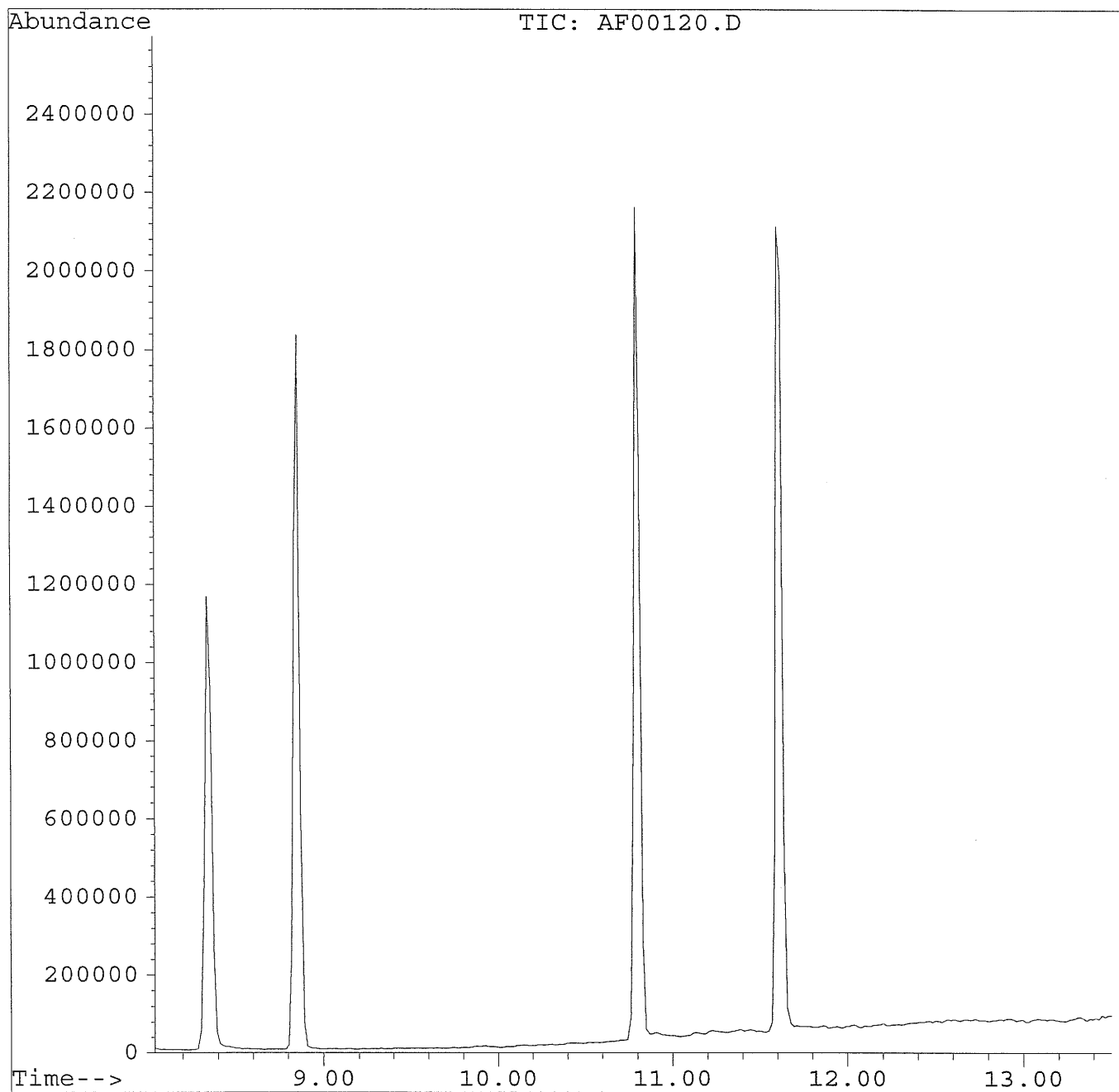
Target Mass	Comparison Mass	Lower Limit, %	Upper Limit, %	Relative Abundance, %	Result Pass/Fail
50	95	15	40	27.2	PASS
75	95	30	60	56.6	PASS
95	95	100	100	100.0	PASS
96	95	5	9	6.6	PASS
173	174	0	2	0.0	PASS
174	95	50	100	87.7	PASS
175	174	5	9	8.0	PASS
176	174	95	101	97.6	PASS
177	176	5	9	6.3	PASS

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00120.D
Acq On : 8 Jun 05 6:43 pm
Sample : BFB
Misc :
Quant Time: Jun 8 18:57 2005

Vial: 1
Operator: rdg
Inst : HP4224
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB.M
Title : TO14 SCAN METHOD
Last Update : Sun Oct 24 21:20:34 2004
Response via : Single Level Calibration

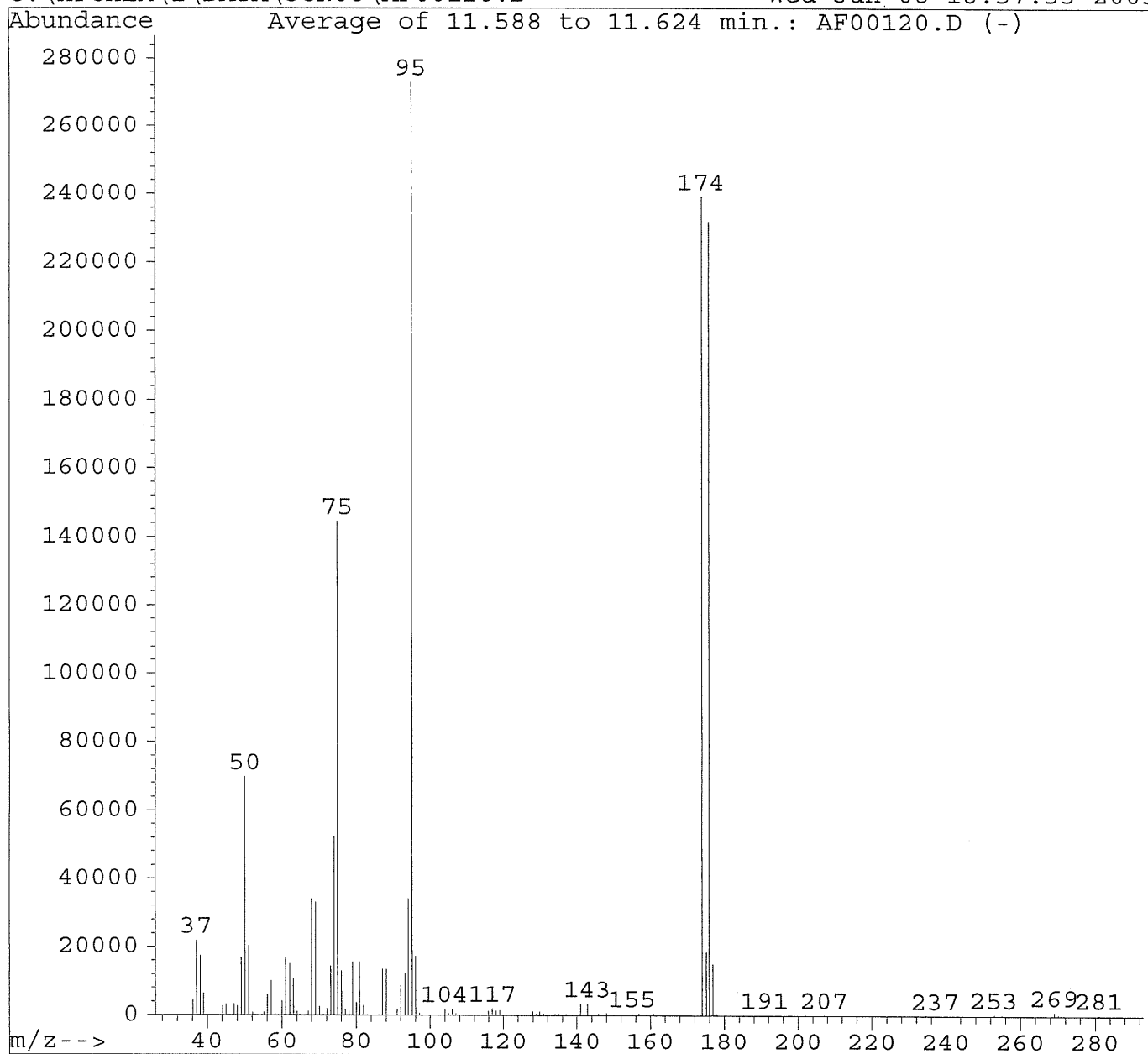


0005

BFB 624 Results

C:\HPCHEM\1\DATA\JUN08\AF00120.D

Wed Jun 08 18:57:33 2005



Peak Apex is scan: 201

Average of 3 scans: 200, 201, 202 minus background scan 195

Target Mass	Comparison Mass	Lower Limit, %	Upper Limit, %	Relative Abundance, %	Result Pass/Fail
50	95	15	40	25.6	PASS
75	95	30	60	53.0	PASS
95	95	100	100	100.0	PASS
96	95	5	9	6.3	PASS
173	174	0	2	0.0	PASS
174	95	50	100	87.7	PASS
175	174	5	9	7.7	PASS
176	174	95	101	97.0	PASS
177	176	5	9	6.5	PASS

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: VBLKA48 Date Collected: Date Received:
Lab Sample ID: VBLKA48 Date Analyzed: 06/08/05 Time Analyzed: 20:46
Canister ID: SUMMA Pressure Rec'd: 14.7 psia Final Pressure: 14.7 psia
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00123.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
75-71-8	Dichlorodifluoromethane	0.2	U
76-14-2	Freon 114	0.2	U
74-87-3	Chloromethane	0.2	U
75-01-4	Vinyl Chloride	0.2	U
74-83-9	Bromomethane	0.2	U
75-00-3	Chloroethane	0.2	U
75-69-4	Trichlorofluoromethane	0.2	U
75-35-4	1,1-Dichloroethene	0.2	U
76-13-1	Freon 113	0.5	U
107-05-1	3-Chloropropene	0.5	U
75-09-2	Methylene Chloride	0.5	U
75-34-3	1,1-Dichloroethane	0.2	U
156-59-2	cis-1,2-Dichloroethene	0.2	U
67-66-3	Chloroform	0.2	U
71-55-6	1,1,1-Trichloroethane	0.2	U
56-23-5	Carbon Tetrachloride	0.2	U
107-06-2	1,2-Dichloroethane	0.2	U
71-43-2	Benzene	0.2	U
79-01-6	Trichloroethene	0.2	U
78-87-5	1,2-Dichloropropane	0.2	U
10061-01-5	cis-1,3-Dichloropropene	0.2	U
108-88-3	Toluene	0.2	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U
79-00-5	1,1,2-Trichloroethane	0.2	U
127-18-4	Tetrachloroethene	0.2	U
106-93-4	1,2-Dibromoethane	0.2	U
108-90-7	Chlorobenzene	0.2	U
100-41-4	Ethylbenzene	0.2	U
1330-20-7	m/p-Xylene	0.2	U
95-47-6	o-Xylene	0.2	U
100-42-5	Styrene	0.2	U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	U
622-96-8	4-Ethyltoluene	0.2	U
108-67-8	1,3,5-Trimethylbenzene	0.2	U

U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: VBLKA48 Date Collected: Date Received:
Lab Sample ID: VBLKA48 Date Analyzed: 06/08/05 Time Analyzed: 20:46
Canister ID: SUMMA Pressure Rec'd: 14.7 psia Final Pressure: 14.7 psia
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00123.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ppb(v)	Q
95-63-6	1,2,4-Trimethylbenzene	0.2	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
120-82-1	1,2,4-Trichlorobenzene	1	U

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

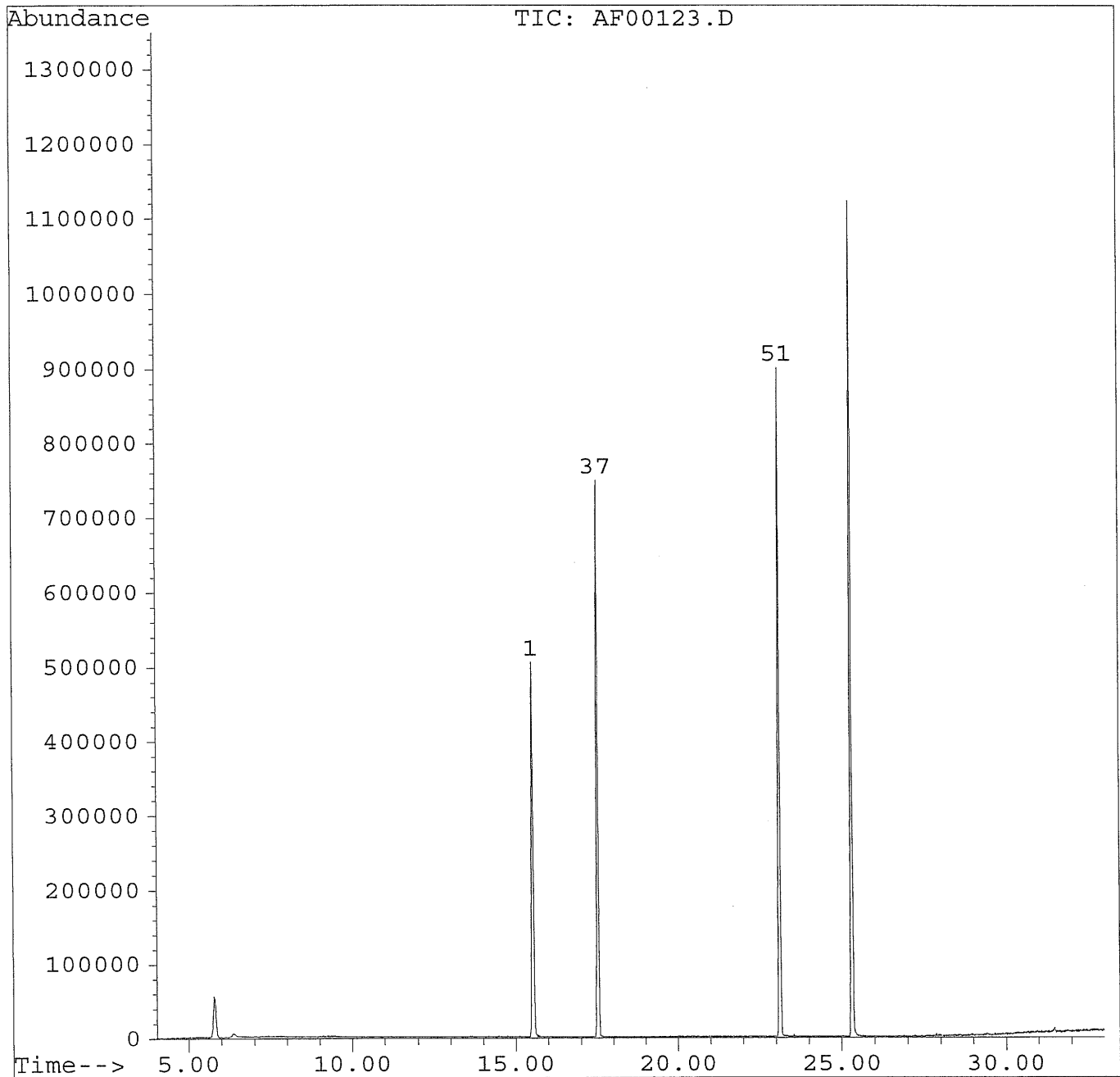
J = Compound was detected, but below the limit of quantitation.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00123.D
Acq On : 8 Jun 05 8:46 pm
Sample : VBLKA48
Misc :
Quant Time: Jun 8 21:19 2005

Vial: 5
Operator: rdg
Inst : HP4224
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
Title : TO14 SCAN METHOD
Last Update : Wed Jun 08 19:48:53 2005
Response via : Single Level Calibration



0009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00123.D
 Acq On : 8 Jun 05 8:46 pm
 Sample : VBLKA48
 Misc :
 Quant Time: Jun 8 21:19 2005

Vial: 5
 Operator: rdg
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Wed Jun 08 19:48:53 2005
 Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	15.53	130	327879	10.00	PPB	-0.02
37) 1,4-Difluorobenzene	17.53	114	1042086	10.00	PPB	0.00
51) Chlorobenzene d5	23.13	117	896547	10.00	PPB	0.00

System Monitoring Compounds %Recovery

Target Compounds Qvalue

0090

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: LCSA48 Date Collected: Date Received:
Lab Sample ID: LCSA48 Date Analyzed: 06/08/05 Time Analyzed: 21:28
Canister ID: SUMMA Pressure Rec'd: 14.7 psia Final Pressure: 14.7 psia
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00124.D

CAS RN	COMPOUND NAME	CONCENTRATION	UNITS: MDL ug/m3	Q
75-71-8	Dichlorodifluoromethane	250		
76-14-2	Freon 114	350		
74-87-3	Chloromethane	93		
75-01-4	Vinyl Chloride	120		
74-83-9	Bromomethane	170		
75-00-3	Chloroethane	120		
75-69-4	Trichlorofluoromethane	310		
75-35-4	1,1-Dichloroethene	210		
76-13-1	Freon 113	400		
107-05-1	3-Chloropropene	2		U
75-09-2	Methylene Chloride	180		
75-34-3	1,1-Dichloroethane	190		
156-59-2	cis-1,2-Dichloroethene	200		
67-66-3	Chloroform	260		
71-55-6	1,1,1-Trichloroethane	290		
56-23-5	Carbon Tetrachloride	330		
107-06-2	1,2-Dichloroethane	220		
71-43-2	Benzene	160		
79-01-6	Trichloroethene	270		
78-87-5	1,2-Dichloropropane	220		
10061-01-5	cis-1,3-Dichloropropene	180		
108-88-3	Toluene	190		
10061-02-6	trans-1,3-Dichloropropene	3		J
79-00-5	1,1,2-Trichloroethane	260		
127-18-4	Tetrachloroethene	330		
106-93-4	1,2-Dibromoethane	380		
108-90-7	Chlorobenzene	230		
100-41-4	Ethylbenzene	220		
1330-20-7	m/p-Xylene	480		
95-47-6	o-Xylene	240		
100-42-5	Styrene	240		
79-34-5	1,1,2,2-Tetrachloroethane	420		
622-96-8	4-Ethyltoluene	240		
108-67-8	1,3,5-Trimethylbenzene	320		

U = Compound was undetected at the specified limit of quantitation.

B = Compound was found in method blank. D = analysis of diluted sample.

J = Compound was detected, but below the limit of quantitation.

LANCASTER LABORATORIES
VOLATILE ORGANICS IN AIR
SUMMA CANISTER SAMPLE
ANALYSIS DATA SHEET

Sample No.: LCSA48 Date Collected: Date Received:
Lab Sample ID: LCSA48 Date Analyzed: 06/08/05 Time Analyzed: 21:28
Canister ID: SUMMA Pressure Rec'd: 14.7 psia Final Pressure: 14.7 psia
Injection Volume: 250 cc Nominal Volume: 250 cc Dilution Factor: 1.0
Instrument ID: HP4224 Lab File ID: C:\HPCHEM\1\DATA\JUN08\AF00124.D

CAS RN	COMPOUND NAME	CONCENTRATION UNITS: MDL ug/m3	Q
95-63-6	1,2,4-Trimethylbenzene	310	
541-73-1	1,3-Dichlorobenzene	350	
106-46-7	1,4-Dichlorobenzene	360	
95-50-1	1,2-Dichlorobenzene	370	
120-82-1	1,2,4-Trichlorobenzene	680	

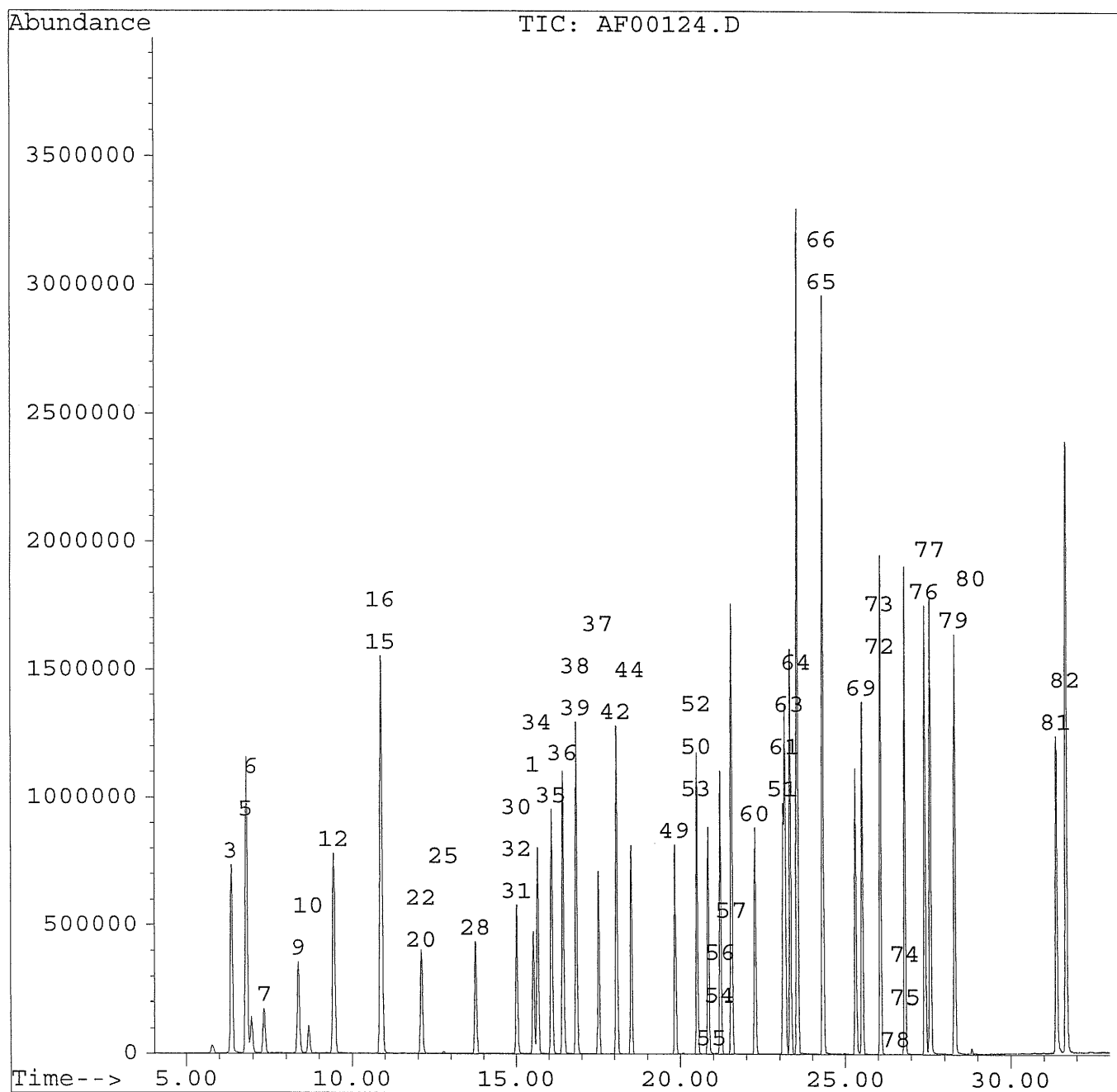
U = Compound was undetected at the specified limit of quantitation.
B = Compound was found in method blank. D = analysis of diluted sample.
J = Compound was detected, but below the limit of quantitation.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00124.D
 Acq On : 8 Jun 05 9:28 pm
 Sample : LCSA48
 Misc :
 Quant Time: Jun 8 22:01 2005

Vial: 25
 Operator: rdg
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Wed Jun 08 19:48:53 2005
 Response via : Single Level Calibration



0093

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00124.D
 Acq On : 8 Jun 05 9:28 pm
 Sample : LCSA48
 Misc :
 Quant Time: Jun 8 22:01 2005

Vial: 25
 Operator: rdg
 Inst : HP4224
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
 Title : TO14 SCAN METHOD
 Last Update : Wed Jun 08 19:48:53 2005
 Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	15.53	130	305068	10.00	PPB	-0.02
37) 1,4-Difluorobenzene	17.52	114	955066	10.00	PPB	-0.01
51) Chlorobenzene d5	23.13	117	866018	10.00	PPB	0.00

System Monitoring Compounds

%Recovery

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	6.37	85	1730659	51.74	PPB	98
5) Freon 114	6.82	85	1626698	51.00	PPB	87
6) Chloromethane	6.97	50	393553	45.57	PPB	99
7) Vinyl Chloride	7.35	62	447145	46.33	PPB	98
9) Bromomethane	8.39	94	577187	43.39	PPB	99
10) Chloroethane	8.69	64	217187	44.13	PPB	99
12) Trichlorofluoromethane	9.45	101	1596918	55.76	PPB	99
15) 1,1-Dichloroethene	10.89	61	831398	52.50	PPB	89
16) Freon 113	10.90	103	710153	52.73	PPB	95
20) Acetonitrile	12.10	41	4273	0.39	PPB	# 53
22) Methylene Chloride	12.12	84	406133	51.73	PPB	# 79
25) trans-1,2-Dichloroethene	12.79	61	8983	0.73	PPB	# 71
28) 1,1-Dichloroethane	13.77	63	798676	47.66	PPB	100
30) cis-1,2-Dichloroethene	15.02	61	620917	50.56	PPB	# 63
31) 2-Butanone	15.02	72	6736	4.77	PPB	# 1
32) Ethyl Acetate	15.02	70	8803	18.23	PPB	# 100
34) Chloroform	15.67	83	1123711	54.14	PPB	95
35) 1,1,1-Trichloroethane	16.09	97	1191156	53.57	PPB	91
36) Carbon Tetrachloride	16.44	117	1249812	53.40	PPB	98
38) 1,2-Dichloroethane	16.85	62	824486	56.13	PPB	97
39) Benzene	16.84	78	1147859	50.39	PPB	99
42) Trichloroethene	18.07	130	682784	51.68	PPB	93
44) 1,2-Dichloropropane	18.51	63	440029	47.60	PPB	91
49) cis-1,3-Dichloropropene	19.85	75	715974	41.02	PPB	91
50) 4-Methyl-2-Pentanone	20.50	43	10941	5.87	PPB	# 50
52) Toluene	20.51	91	1491431	51.48	PPB	99
53) Octane	20.50	43	10941	5.68	PPB	# 16
54) trans-1,3-Dichloropropene	21.19	75	8954	0.58	PPB	91
55) Ethyl Methacrylate	20.95	69	2567	1.05	PPB	# 56
56) 1,1,2-Trichloroethane	21.23	97	602676	48.03	PPB	92
57) Tetrachloroethene	21.56	166	876241	49.62	PPB	97
60) 1,2-Dibromoethane	22.28	107	1036005	50.61	PPB	99
61) Chlorobenzene	23.18	112	1272382	50.96	PPB	90
63) Ethylbenzene	23.34	91	2110967	50.77	PPB	98
64) m/p-Xylene	23.55	91	3494181	109.80	PPB	98
65) o-Xylene	24.32	91	1679684	54.48	PPB	97
66) Styrene	24.33	104	1290865	56.47	PPB	87

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JUN08\AF00124.D
Acq On : 8 Jun 05 9:28 pm
Sample : LCSA48
Misc :
Quant Time: Jun 8 22:01 2005

Vial: 25
Operator: rdg
Inst : HP4224
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\ALL198.M
Title : TO14 SCAN METHOD
Last Update : Wed Jun 08 19:48:53 2005
Response via : Single Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
69) 1,1,2,2-Tetrachloroethane	25.51	83	1250066	62.07	PPB	99
72) 4-Ethyltoluene	26.08	105	1881667	48.37	PPB	62
73) 1,3,5-Trimethylbenzene	26.08	105	1881667	64.42	PPB	96
74) Alpha Methyl Styrene	26.82	118	17810	1.52	PPB	# 1
75) 1,2,4-Trimethylbenzene	26.81	105	1856471	62.21	PPB	99
76) 1,3-Dichlorobenzene	27.43	146	1276231	58.59	PPB	95
77) 1,4-Dichlorobenzene	27.59	146	1288034	59.46	PPB	91
78) Benzyl Chloride	26.52	91	955	0.29	PPB	# 100
79) 1,2-Dichlorobenzene	28.31	146	1165485	61.98	PPB	97
80) Hexachloroethane	28.83	117	8591	0.58	PPB	# 93
81) 1,2,4-Trichlorobenzene	31.39	180	791922	92.89	PPB	# 62
82) Hexachlorobutadiene	31.68	225	950433	83.56	PPB	97

8895