



***Air
Toxics LTD.***
Laboratory Services Since 1989

Electronic Comprehensive Validation Package (eCVP)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-13A

INVENTORY SHEET

Work Order #: 0907124B

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Comments:

Completed by:

Kara McKiernan

(Signature)

Kara McKiernan / Document Control

(Print Name & Title)

7/20/09

(Date)


WORK ORDER #: 0907124B

Work Order Summary

CLIENT:	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706	BILL TO:	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706
PHONE:	208-389-1030	P.O. #	103P0333.005
FAX:		PROJECT #	103P0333.006 BMI Offsite
DATE RECEIVED:	07/07/2009	CONTACT:	Kelly Buettner
DATE COMPLETED:	07/16/2009		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
03A	OFF03-070209	Modified TO-13A
06A	OFF04-070209	Modified TO-13A
07A	Lab Blank	Modified TO-13A
08A	LCS	Modified TO-13A

CERTIFIED BY:



Laboratory Director

DATE: 07/16/09

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-13A
Tetra Tech
Workorder# 0907124B

Two PUF/XAD Cartridge samples were received on July 07, 2009. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-13A</i>	<i>ATL Modifications</i>
Extraction Solvent	10% ether in hexane for PUF; DCM for XAD sorbent. Final extract in hexane.	DCM for PUF/XAD cartridge and XAD sorbent. Final extract in DCM.
Glassware Cleaning	Muffle furnace is utilized.	Solvent cleaning procedure is used.
Extraction technique	Soxhlet extraction	Soxhlet extraction or pressurized fluid extraction (PFE).
Calibration range	0.10 to 2.5 ug/mL	1.0 ug/mL to 160 ug/mL
Solvent Process Blank	Required each analytical batch.	Not performed; each solvent lot is certified prior to use.
Method Blank	<Method Detection Limit	<Reporting Limit

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Sampling volume was supplied by the client. A sample volume of 80 m³ was assumed for all QC samples.

The sample cartridges were pre-spiked with Fluoranthene-d10 and Benzo(a)Pyrene-d12 on 06/24/2009.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

E - Exceeds instrument calibration range.

Q - Exceeds quality control limits.

S - Saturated peak.

J - Estimated value.

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

U - Compound analyzed for but not detected above the reporting limit.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample	Date Analyzed	Sample Extract	Sample Condition
					Holding Time (Days)		Holding Time (Days)	
OFF03-070209	0907124B-03A	7/ 2/2009	7/ 7/2009	7/ 9/2009	7	7/11/2009	2	Good
OFF04-070209	0907124B-06A	7/ 2/2009	7/ 7/2009	7/ 9/2009	7	7/11/2009	2	Good
Lab Blank	0907124B-07A	NA	NA	7/ 9/2009	NA	7/10/2009	1	Good
LCS	0907124B-08A	NA	NA	7/ 9/2009	NA	7/10/2009	1	Good

Sample Results and Raw Data

Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: OFF03-070209

Lab ID#: 0907124B-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Naphthalene	1.0	0.012	3.6	0.045
2-Methylnaphthalene	1.0	0.012	3.7	0.046
di-n-Butylphthalate	5.0	0.063	28	0.35

Client Sample ID: OFF03-070209

Lab ID#: 0907124B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	v071030	Date of Collection: 7/2/09 4:38:00 PM
Dil. Factor:	1.00	Date of Analysis: 7/11/09 12:54 AM
		Date of Extraction: 7/9/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.063	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.012	Not Detected	Not Detected
2-Chlorophenol	5.0	0.063	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.063	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.012	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.012	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.063	Not Detected	Not Detected
Hexachloroethane	1.0	0.012	Not Detected	Not Detected
Nitrobenzene	1.0	0.012	Not Detected	Not Detected
Isophorone	1.0	0.012	Not Detected	Not Detected
2-Nitrophenol	5.0	0.063	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.063	Not Detected	Not Detected
Benzoic Acid	30	0.38	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.012	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.063	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.012	Not Detected	Not Detected
Naphthalene	1.0	0.012	3.6	0.045
4-Chloroaniline	10	0.12	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.012	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.063	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.012	3.7	0.046
Hexachlorocyclopentadiene	20	0.25	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.063	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.063	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.012	Not Detected	Not Detected
2-Nitroaniline	10	0.12	Not Detected	Not Detected
Dimethylphthalate	5.0	0.063	Not Detected	Not Detected
Acenaphthylene	1.0	0.012	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.063	Not Detected	Not Detected
3-Nitroaniline	10	0.12	Not Detected	Not Detected
Acenaphthene	1.0	0.012	Not Detected	Not Detected
2,4-Dinitrophenol	20	0.25	Not Detected	Not Detected
4-Nitrophenol	20	0.25	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.063	Not Detected	Not Detected
Dibenzofuran	1.0	0.012	Not Detected	Not Detected

Client Sample ID: OFF03-070209

Lab ID#: 0907124B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	v071030	Date of Collection: 7/2/09 4:38:00 PM
Dil. Factor:	1.00	Date of Analysis: 7/11/09 12:54 AM
		Date of Extraction: 7/9/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Diethylphthalate	5.0	0.063	Not Detected	Not Detected
Fluorene	1.0	0.012	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
4-Nitroaniline	10	0.12	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	0.12	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	0.12	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.012	Not Detected	Not Detected
Pentachlorophenol	20	0.25	Not Detected	Not Detected
Phenanthrene	1.0	0.012	Not Detected	Not Detected
Anthracene	1.0	0.012	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.063	28	0.35
Fluoranthene	1.0	0.012	Not Detected	Not Detected
Pyrene	1.0	0.012	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.063	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	0.25	Not Detected	Not Detected
Chrysene	1.0	0.012	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.012	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.063	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.063	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.012	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.012	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.012	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 79800

Container Type: PUF/XAD Cartridge

Surrogates	%Recovery	Method Limits
2-Fluorophenol	69	50-150
Phenol-d5	76	50-150
Nitrobenzene-d5	63	50-150
2,4,6-Tribromophenol	60	50-150
Fluorene-d10	65	60-120
Pyrene-d10	66	60-120
Fluoranthene-d10	122	50-150

Client Sample ID: OFF03-070209

Lab ID#: 0907124B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	v071030	Date of Collection: 7/2/09 4:38:00 PM
Dil. Factor:	1.00	Date of Analysis: 7/11/09 12:54 AM
		Date of Extraction: 7/9/09

Surrogates	%Recovery	Method Limits
Benzo(a)pyrene-d12	113	50-150

							CONCENTRATIONS		
		QUANT	SIG				ON-COLUMN	FINAL	
Compounds	MASS	RT	EXP	RT	REL	RT	RESPONSE	(ng)	(ug)
=====	=====	==	=====	=====	=====	=====	=====	=====	=====
16 Hexachloroethane	117	Compound Not Detected.							
\$ 17 Nitrobenzene-d5	82	5.022	5.022	(0.849)		131582	31.4689	31.47	
18 Nitrobenzene	77	Compound Not Detected.							
19 Isophorone	82	Compound Not Detected.							
20 2-Nitrophenol*	139	Compound Not Detected.							
21 2,4-Dimethylphenol	122	Compound Not Detected.							
23 bis(2-Chloroethoxy)methane	93	Compound Not Detected.							
24 Benzoic Acid	122	Compound Not Detected.							
25 2,4-Dichlorophenol*	162	Compound Not Detected.							
26 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
* 27 Naphthalene-d8	136	5.913	5.924	(1.000)		281699	40.0000		
28 Naphthalene	128	5.944	5.945	(1.005)		28565	3.59088	3.591	
29 4-Chloroaniline	127	Compound Not Detected.							
30 Hexachlorobutadiene*	225	Compound Not Detected.							
32 4-Chloro-3-Methylphenol*	107	Compound Not Detected.							
33 2-Methylnaphthalene	142	6.825	6.825	(1.154)		19707	3.71661	3.717	
145 1-Methylnaphthalene	142	6.960	6.960	(1.177)		7623	1.47543	1.475	
35 Hexachlorocyclopentadiene**	237	Compound Not Detected.							
36 2,4,6-Trichlorophenol*	196	Compound Not Detected.							
37 2,4,5-Trichlorophenol	196	Compound Not Detected.							
39 2-Chloronaphthalene	162	Compound Not Detected.							
40 2-Nitroaniline	65	Compound Not Detected.							
42 Dimethylphthalate	163	Compound Not Detected.							
45 Acenaphthylene	152	Compound Not Detected.							
44 2,6-Dinitrotoluene	165	Compound Not Detected.							
46 3-Nitroaniline	138	Compound Not Detected.							
* 47 Acenaphthene-d10	164	8.131	8.131	(1.000)		149825	40.0000		
48 Acenaphthene*	154	Compound Not Detected.							
49 2,4-Dinitrophenol**	184	Compound Not Detected.							
50 4-Nitrophenol**	109	Compound Not Detected.							
51 Dibenzofuran	168	Compound Not Detected.							
52 2,4-Dinitrotoluene	165	Compound Not Detected.							
\$ 147 Fluorene-d10	176	8.753	8.753	(1.076)		178488	32.7279	32.73	
56 Diethylphthalate	149	Compound Not Detected.							
57 Fluorene	166	Compound Not Detected.							
58 4-Chlorophenyl phenyl ether	204	Compound Not Detected.							
59 4-Nitroaniline	138	Compound Not Detected.							
60 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.							
61 N-nitrosodiphenylamine*	169	Compound Not Detected.							
\$ 62 2,4,6-Tribromophenol	330	9.105	9.105	(1.120)		26282	30.1891	30.19	
65 4-Bromophenyl phenyl ether	248	Compound Not Detected.							
66 Hexachlorobenzene	284	Compound Not Detected.							
68 Pentachlorophenol*	266	Compound Not Detected.							
* 71 Phenanthrene-d10	188	9.893	9.903	(1.000)		273665	40.0000		
72 Phenanthrene	178	Compound Not Detected.							
73 Anthracene	178	Compound Not Detected.							
78 Di-n-butylphthalate	149	10.763	10.763	(1.088)		248945	28.0116	28.01	
80 Fluoranthene*	202	Compound Not Detected.							

Compounds	QUANT	SIG	CONCENTRATIONS						
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ng)	(ug)
=====	=====	==	=====	=====	=====	=====	=====		
\$ 148 Pyrene-d10	212	11.603	11.603	(0.867)	230958	32.9551	32.96		
81 Pyrene	202	Compound Not Detected.							
85 Butyl benzyl phthalate	149	Compound Not Detected.							
88 Benzo(a)Anthracene	228	Compound Not Detected.							
* 90 Chrysene-d12	240	13.385	13.385	(1.000)	228309	40.0000			
89 3 3'-Dichlorobenzidine	252	Compound Not Detected.							
91 Chrysene	228	Compound Not Detected.							
93 bis(2-ethylhexyl)Phthalate	149	Compound Not Detected.							
94 Di-n-octyl phthalate*	149	Compound Not Detected.							
95 Benzo(b)fluoranthene	252	Compound Not Detected.							
96 Benzo(k)fluoranthene	252	Compound Not Detected.							
98 Benzo(a)pyrene*	252	Compound Not Detected.							
* 99 Perylene-d12	264	15.810	15.810	(1.000)	174729	40.0000			
103 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.							
104 Dibenzo(a,h)anthracene	278	Compound Not Detected.							
105 Benzo(g,h,i)perylene	276	Compound Not Detected.							
\$ 83 Fluoranthene-d10	212	11.333	11.333	(1.146)	71020	12.1777	12.18		
\$ 101 Benzo(a)pyrene-d12	264	15.665	15.676	(0.991)	42053	11.3382	11.34		

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i

Calibration Date: 10-JUL-2009

Lab File ID: v071030.d

Calibration Time: 14:54

Lab Smp Id: 0907124B-03A

Analysis Type: SV

Level: LOW

Quant Type: ISTD

Sample Type: PUF/XAD

Operator: rn

Method File: /chem/msdv.i/10jul09a.b/bnap0708.m

Misc Info: ,NOTICS

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	102673	51336	205346	109351	6.50
27 Naphthalene-d8	236468	118234	472936	281699	19.13
47 Acenaphthene-d10	129070	64535	258140	149825	16.08
71 Phenanthrene-d10	248448	124224	496896	273665	10.15
90 Chrysene-d12	208197	104098	416394	228309	9.66
99 Perylene-d12	167433	83716	334866	174729	4.36

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.26	3.76	4.76	4.26	-0.01
27 Naphthalene-d8	5.92	5.42	6.42	5.91	-0.18
47 Acenaphthene-d10	8.13	7.63	8.63	8.13	0.00
71 Phenanthrene-d10	9.90	9.40	10.40	9.89	-0.11
90 Chrysene-d12	13.39	12.89	13.89	13.39	0.00
99 Perylene-d12	15.81	15.31	16.31	15.81	0.00

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

Report Date: 15-Jul-2009 17:15

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 10jul09a
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0907124B-03A
Level: LOW Operator: rn
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: T013+fs.sub
Method File: /chem/msdv.i/10jul09a.b/bnap0708.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	50.00	34.42	68.84	50-150
\$ 2 Phenol-d5	50.00	37.80	75.59	50-150
\$ 17 Nitrobenzene-d5	50.00	31.47	62.94	50-150
\$ 147 Fluorene-d10	50.00	32.73	65.46	60-120
\$ 62 2,4,6-Tribromophen	50.00	30.19	60.38	50-150
\$ 148 Pyrene-d10	50.00	32.96	65.91	60-120
\$ 83 Fluoranthene-d10	10.00	12.18	121.78	50-150
\$ 101 Benzo(a)pyrene-d12	10.00	11.34	113.38	50-150

Data File: /chem/msdv.i/10jul09a.b/v071030.d

Date : 11-JUL-2009 00:54

Client ID:

Sample Info: J0907124B-03A;

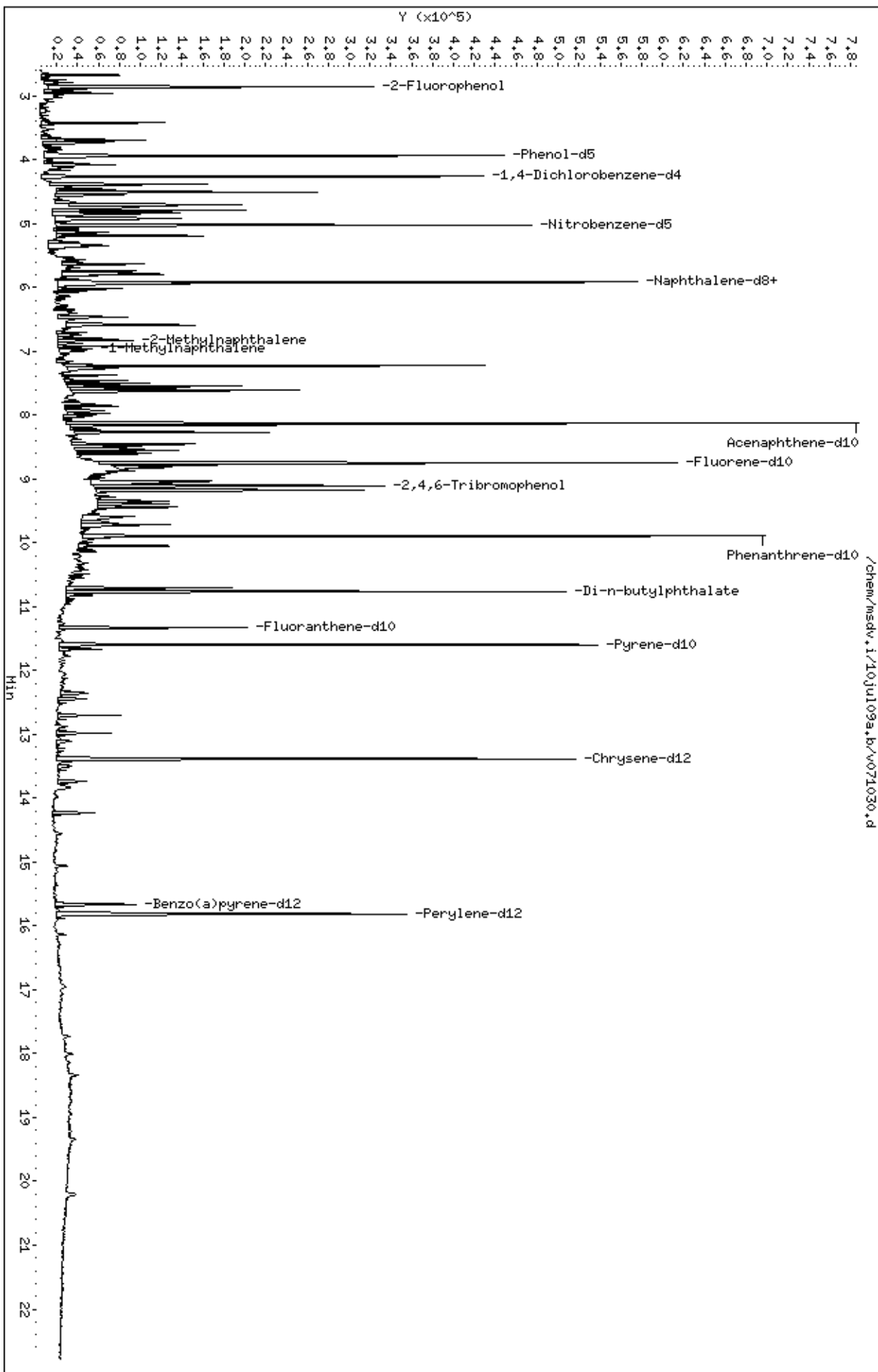
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: m

Column diameter: 0.25



Date : 11-JUL-2009 00:54

Client ID:

Instrument: msdv.i

Sample Info: 0907124B-03A:

Volume Injected (uL): 1.0

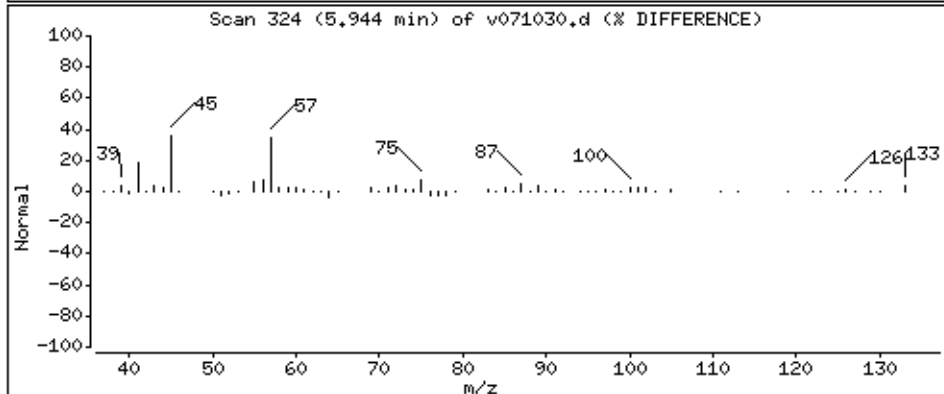
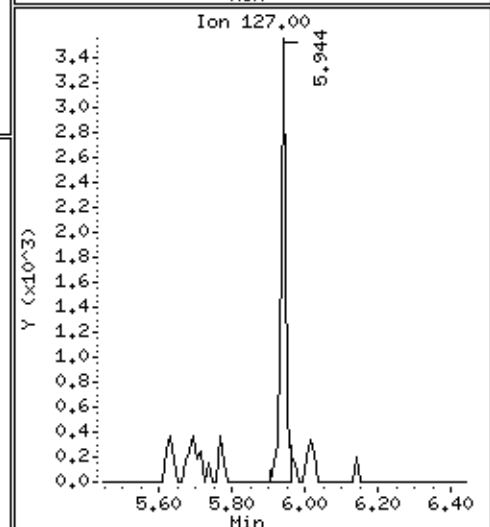
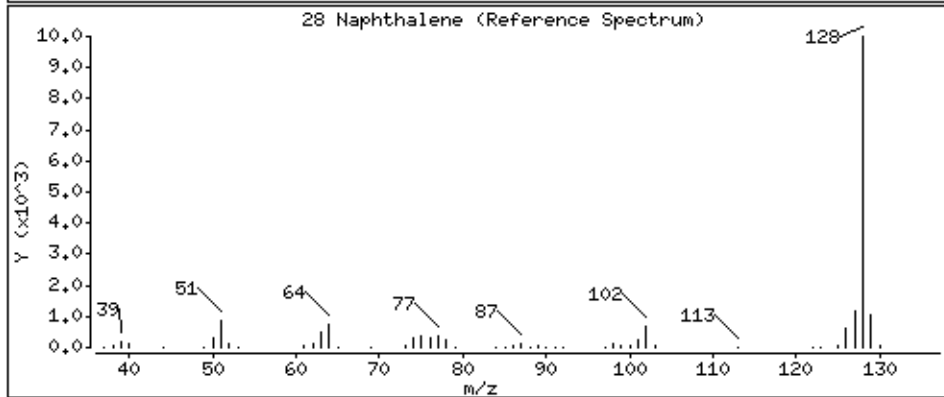
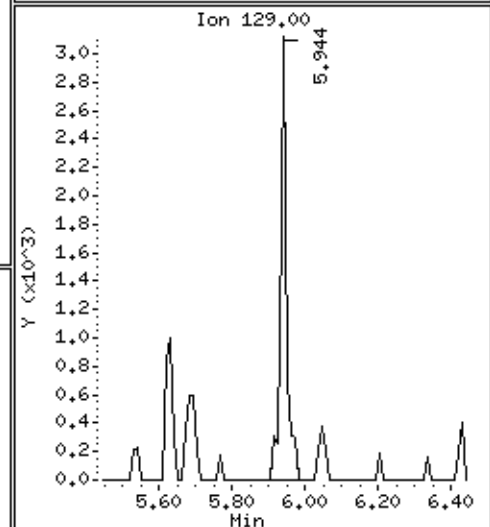
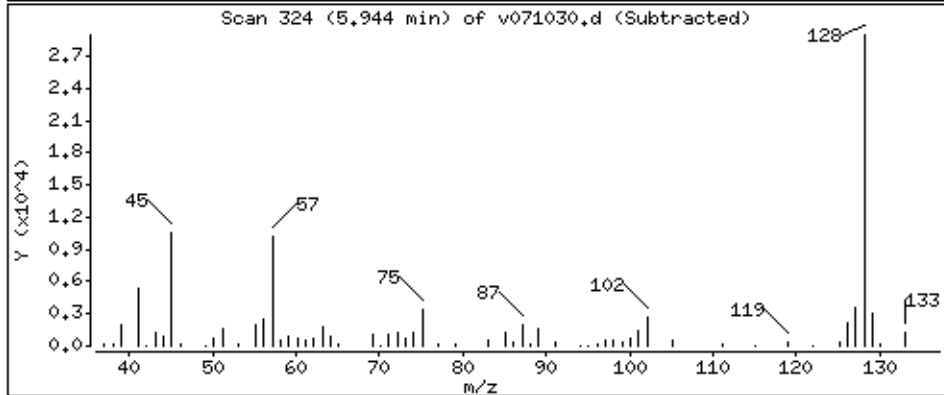
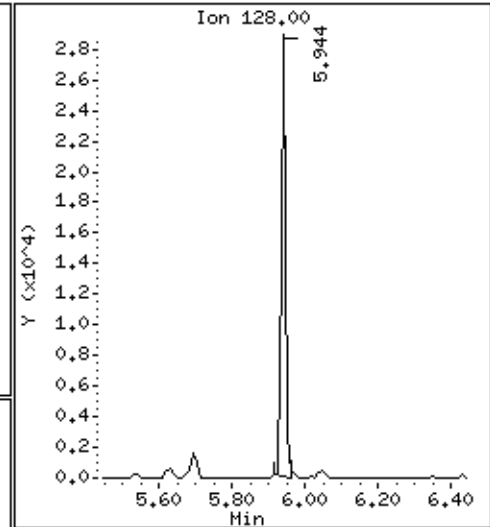
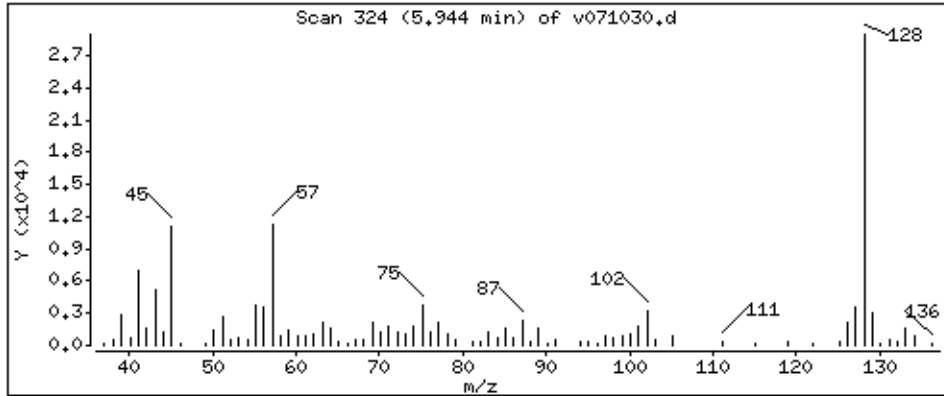
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

28 Naphthalene

Concentration: 3.591 ug



Date : 11-JUL-2009 00:54

Client ID:

Instrument: msdv.i

Sample Info: ;0907124B-03A;

Volume Injected (uL): 1.0

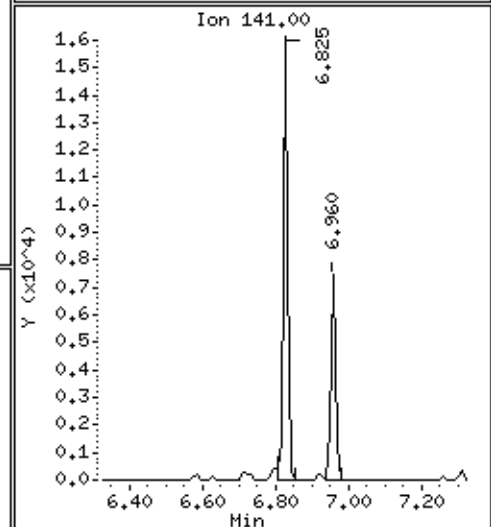
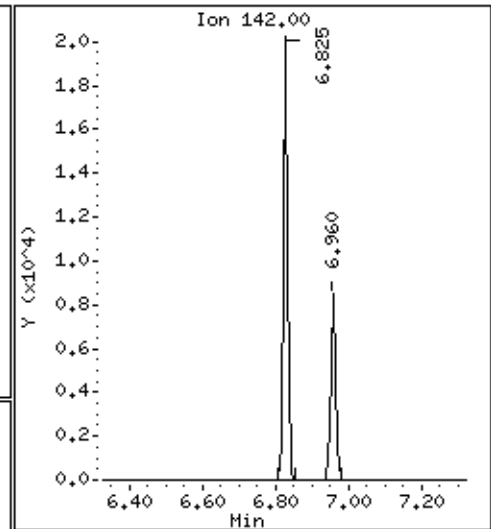
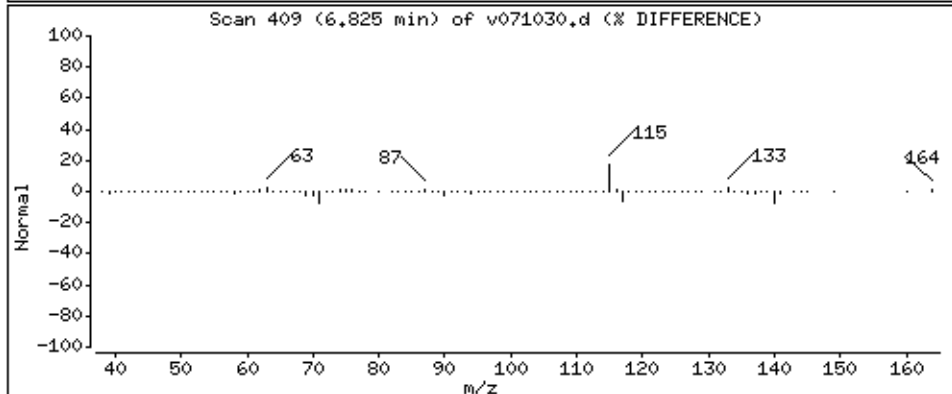
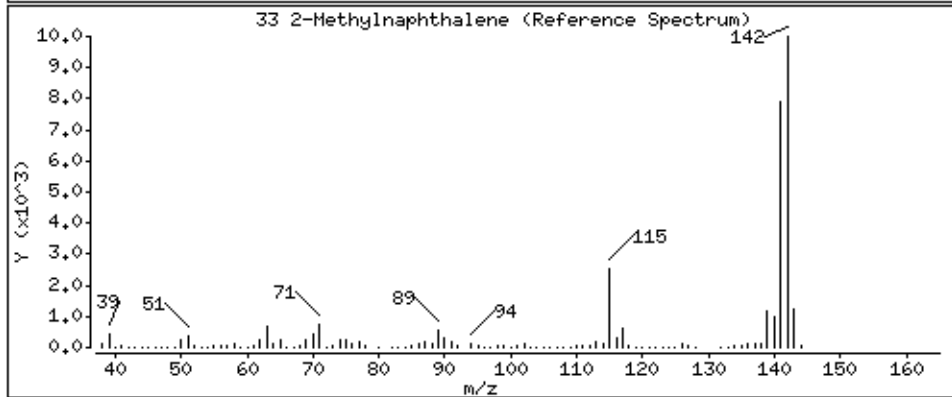
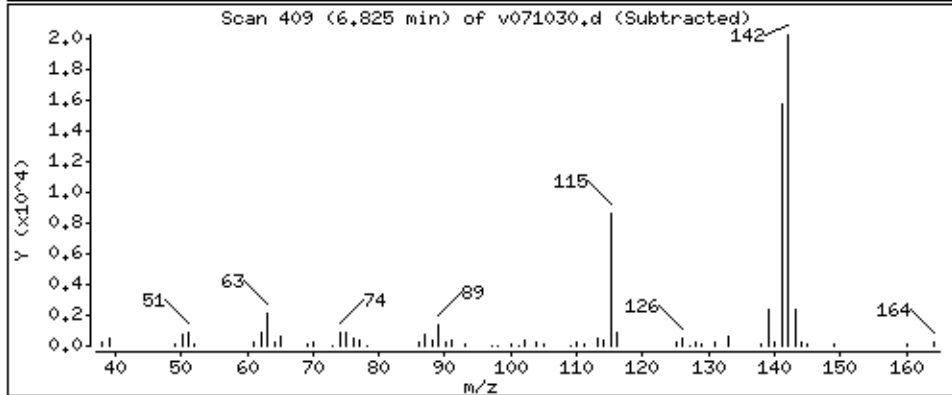
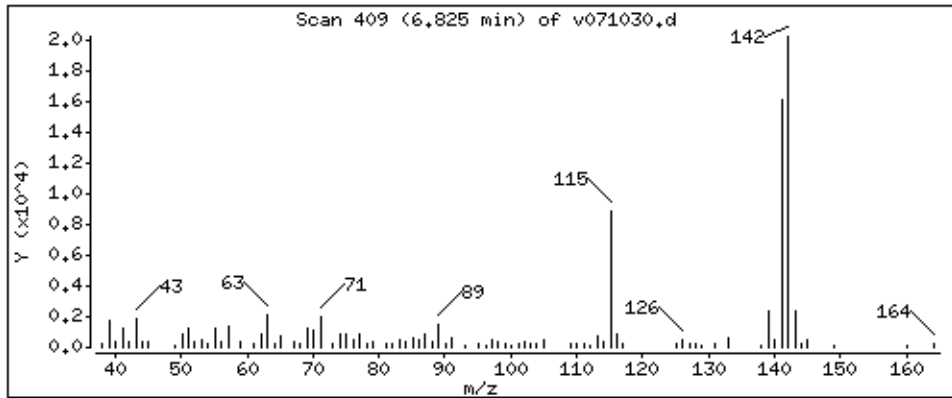
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

33 2-Methylnaphthalene

Concentration: 3.717 ug



Date : 11-JUL-2009 00:54

Client ID:

Instrument: msdv.i

Sample Info: ;0907124B-03A;

Volume Injected (uL): 1.0

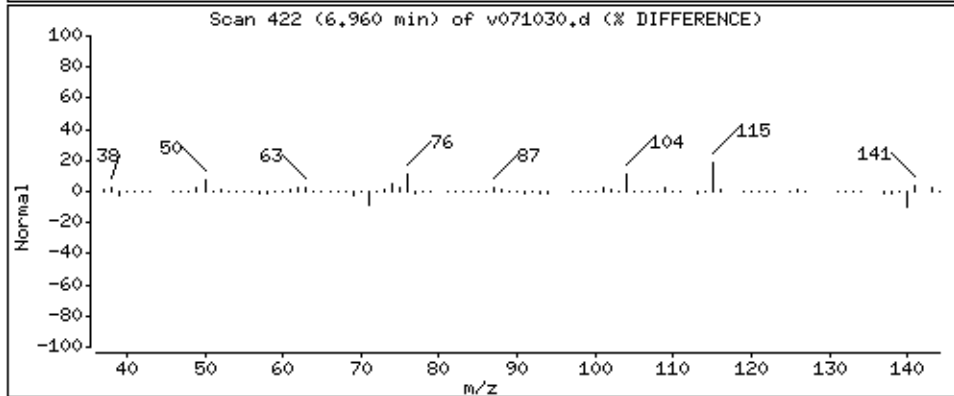
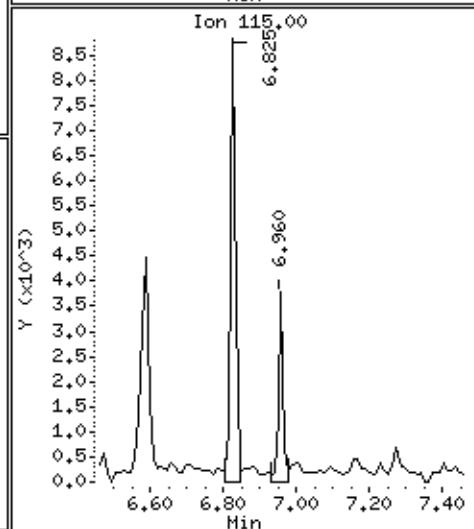
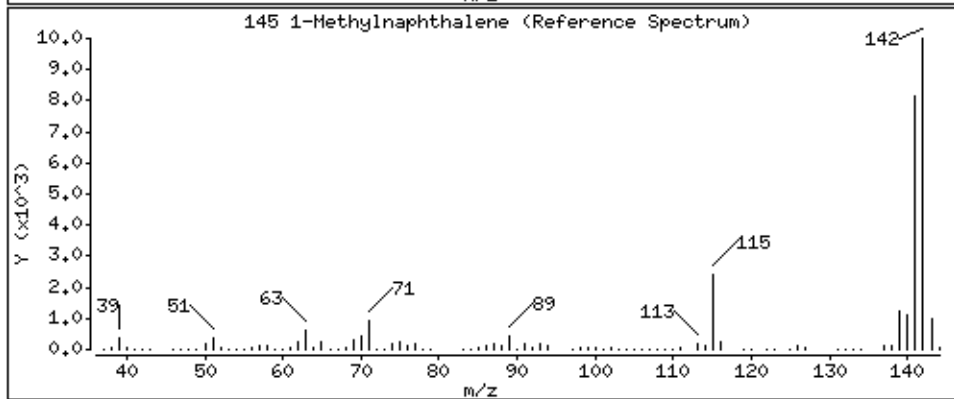
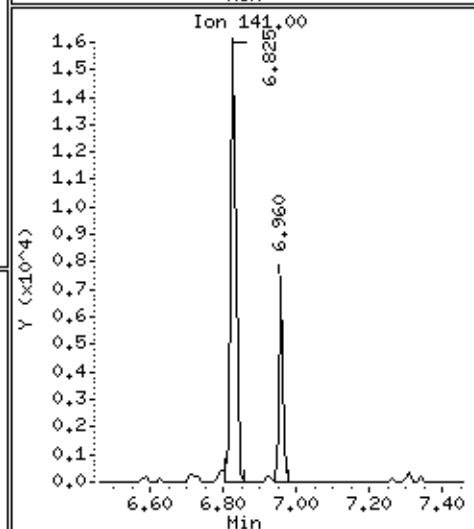
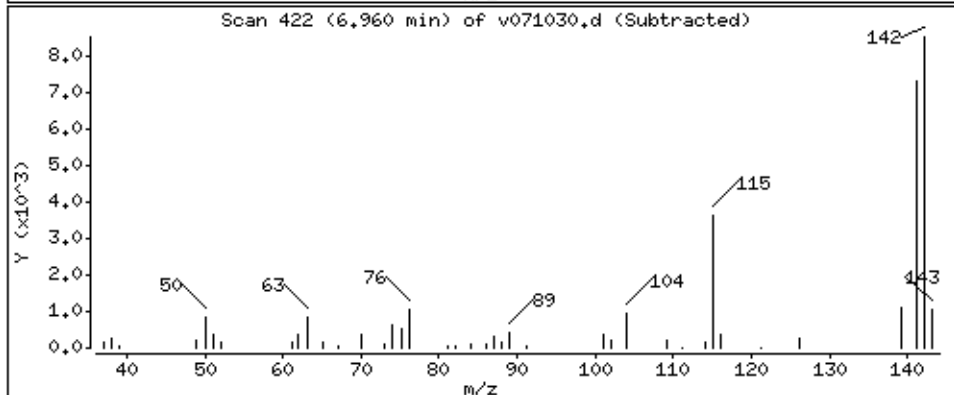
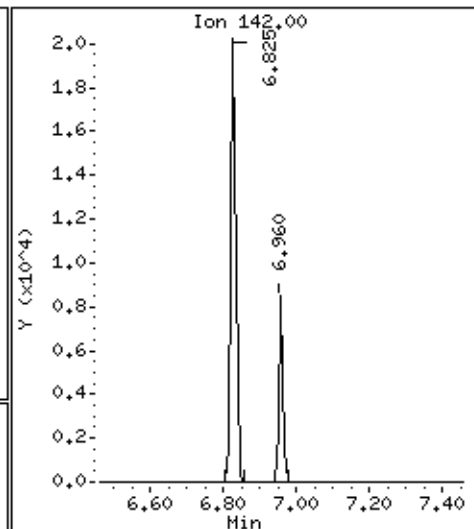
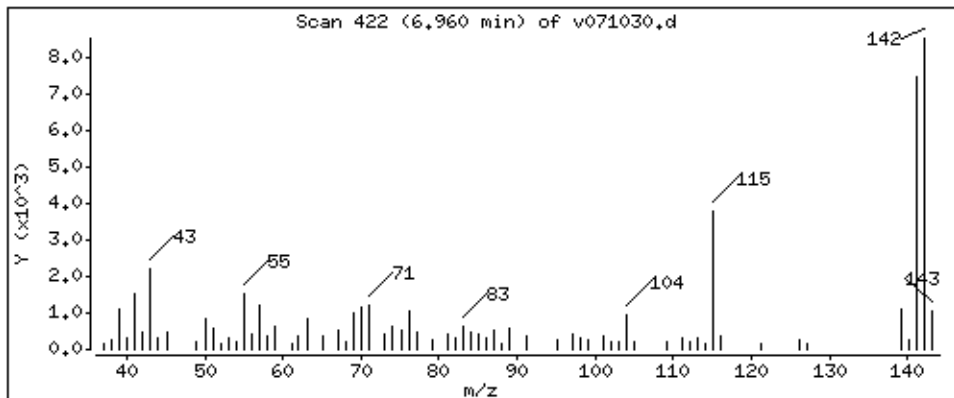
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

145 1-Methylnaphthalene

Concentration: 1.475 ug



Date : 11-JUL-2009 00:54

Client ID:

Instrument: msdv.i

Sample Info: ;0907124B-03A;

Volume Injected (uL): 1.0

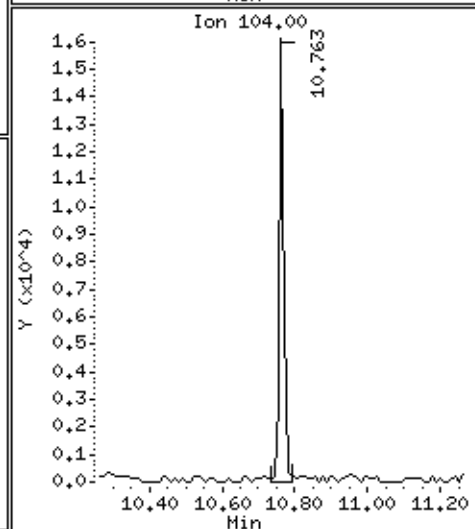
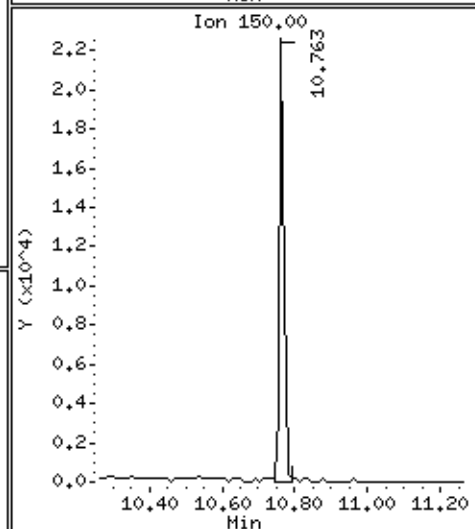
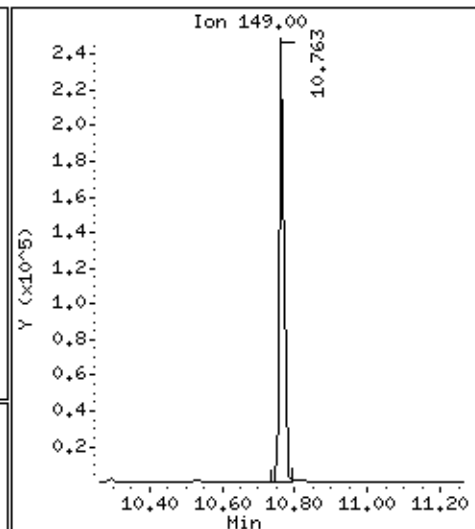
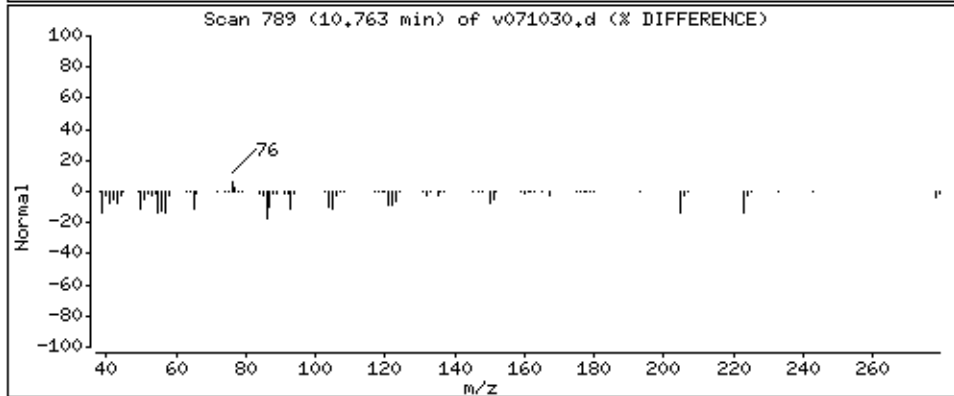
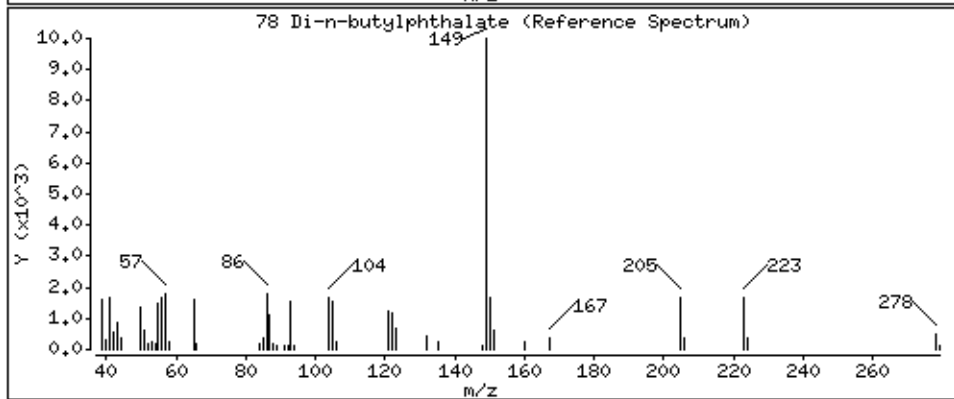
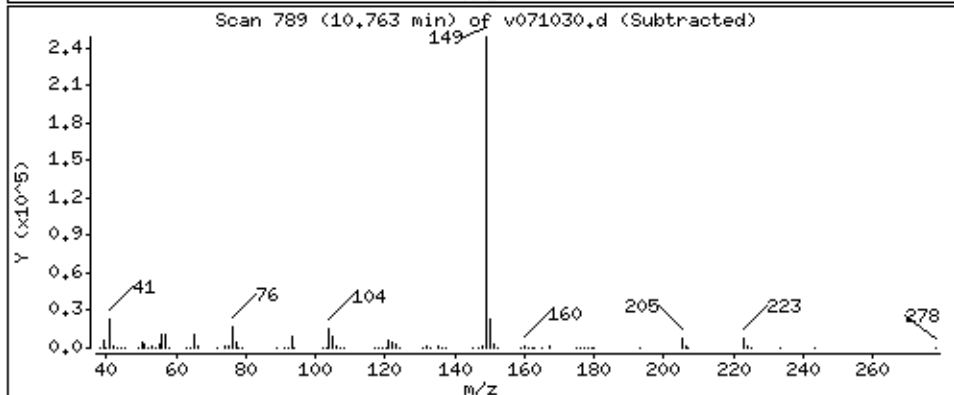
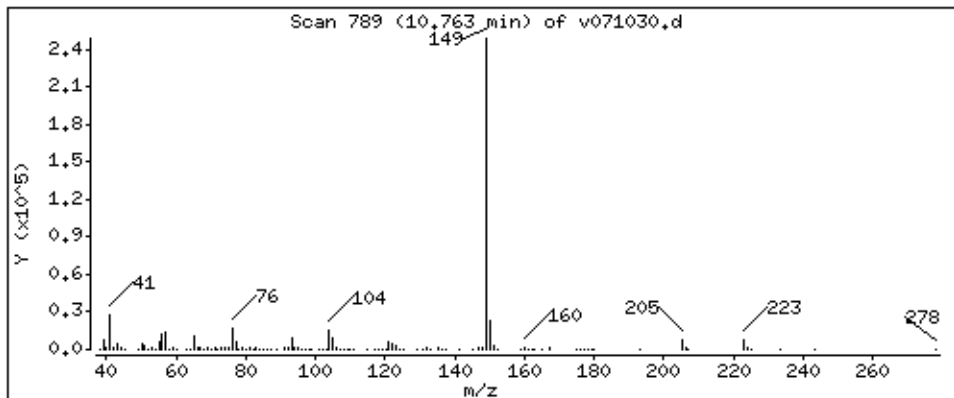
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

78 Di-n-butylphthalate

Concentration: 28.01 ug



Summary of Detected Compounds
MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: OFF04-070209

Lab ID#: 0907124B-06A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Benzoic Acid	30	0.67	30	0.68
Naphthalene	1.0	0.022	12	0.28
2-Methylnaphthalene	1.0	0.022	8.4	0.19
Hexachlorobenzene	1.0	0.022	1.4	0.030
di-n-Butylphthalate	5.0	0.11	31	0.71

Client Sample ID: OFF04-070209

Lab ID#: 0907124B-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	v071031	Date of Collection: 7/2/09 4:07:00 PM
Dil. Factor:	1.00	Date of Analysis: 7/11/09 01:21 AM
		Date of Extraction: 7/9/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.11	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.022	Not Detected	Not Detected
2-Chlorophenol	5.0	0.11	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.022	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.022	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.022	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.11	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.022	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.022	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.11	Not Detected	Not Detected
Hexachloroethane	1.0	0.022	Not Detected	Not Detected
Nitrobenzene	1.0	0.022	Not Detected	Not Detected
Isophorone	1.0	0.022	Not Detected	Not Detected
2-Nitrophenol	5.0	0.11	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.11	Not Detected	Not Detected
Benzoic Acid	30	0.67	30	0.68
bis(2-Chloroethoxy) Methane	1.0	0.022	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.11	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.022	Not Detected	Not Detected
Naphthalene	1.0	0.022	12	0.28
4-Chloroaniline	10	0.22	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.022	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.11	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.022	8.4	0.19
Hexachlorocyclopentadiene	20	0.45	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.11	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.11	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.022	Not Detected	Not Detected
2-Nitroaniline	10	0.22	Not Detected	Not Detected
Dimethylphthalate	5.0	0.11	Not Detected	Not Detected
Acenaphthylene	1.0	0.022	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.11	Not Detected	Not Detected
3-Nitroaniline	10	0.22	Not Detected	Not Detected
Acenaphthene	1.0	0.022	Not Detected	Not Detected
2,4-Dinitrophenol	20	0.45	Not Detected	Not Detected
4-Nitrophenol	20	0.45	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.11	Not Detected	Not Detected
Dibenzofuran	1.0	0.022	Not Detected	Not Detected

Client Sample ID: OFF04-070209

Lab ID#: 0907124B-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	v071031	Date of Collection: 7/2/09 4:07:00 PM
Dil. Factor:	1.00	Date of Analysis: 7/11/09 01:21 AM
		Date of Extraction: 7/9/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Diethylphthalate	5.0	0.11	Not Detected	Not Detected
Fluorene	1.0	0.022	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.022	Not Detected	Not Detected
4-Nitroaniline	10	0.22	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	0.22	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	0.22	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.022	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.022	1.4	0.030
Pentachlorophenol	20	0.45	Not Detected	Not Detected
Phenanthrene	1.0	0.022	Not Detected	Not Detected
Anthracene	1.0	0.022	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.11	31	0.71
Fluoranthene	1.0	0.022	Not Detected	Not Detected
Pyrene	1.0	0.022	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.11	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	0.45	Not Detected	Not Detected
Chrysene	1.0	0.022	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.022	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.11	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.11	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.022	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.022	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.022	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.022	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.022	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.022	Not Detected	Not Detected

Air Sample Volume(L): 44400

Container Type: PUF/XAD Cartridge

Surrogates	%Recovery	Method Limits
2-Fluorophenol	68	50-150
Phenol-d5	75	50-150
Nitrobenzene-d5	66	50-150
2,4,6-Tribromophenol	59	50-150
Fluorene-d10	65	60-120
Pyrene-d10	67	60-120
Fluoranthene-d10	115	50-150

Client Sample ID: OFF04-070209

Lab ID#: 0907124B-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	v071031	Date of Collection: 7/2/09 4:07:00 PM
Dil. Factor:	1.00	Date of Analysis: 7/11/09 01:21 AM
		Date of Extraction: 7/9/09

Surrogates	%Recovery	Method Limits
Benzo(a)pyrene-d12	111	50-150

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/10jul09a.b/v071031.d
Lab Smp Id: 0907124B-06A
Inj Date : 11-JUL-2009 01:21
Operator : rnInst ID: msdv.i
Smp Info : ;0907124B-06A;
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/10jul09a.b/bnap0708.m
Meth Date : 10-Jul-2009 16:26 rnoonanQuant Type: ISTD
Cal Date : 08-JUL-2009 18:29Cal File: v070812.d
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTECompound Sublist: T013+fs.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd VariableLocal Compound Variable

		CONCENTRATIONS					
		QUANT	SIG				
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	=====	==	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112	2.856	2.846	(0.671)	98806	34.0708	34.07
\$ 2 Phenol-d5	99	3.934	3.934	(0.924)	126479	37.6341	37.63
3 Phenol*	94	Compound Not Detected.					
4 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
5 2-Chlorophenol	128	Compound Not Detected.					
6 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 7 1,4-Dichlorobenzene-d4	150	4.255	4.255	(1.000)	113092	40.0000	
9 1,4-Dichlorobenzene*	146	Compound Not Detected.					
11 1,2-Dichlorobenzene	146	Compound Not Detected.					
12 2-Methylphenol	108	Compound Not Detected.					
13 bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
14 4-Methylphenol	108	Compound Not Detected.					
15 N-Nitrosodipropylamine**	70	Compound Not Detected.					

							CONCENTRATIONS		
		QUANT	SIG						
Compounds	MASS	RT	EXP	RT	REL	RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	=====	==	=====	=====	=====	=====	=====	=====	=====
16 Hexachloroethane	117	Compound Not Detected.							
\$ 17 Nitrobenzene-d5	82	5.022	5.022	(0.848)		137723	32.7494	32.75	
18 Nitrobenzene	77	Compound Not Detected.							
19 Isophorone	82	Compound Not Detected.							
20 2-Nitrophenol*	139	Compound Not Detected.							
21 2,4-Dimethylphenol	122	Compound Not Detected.							
23 bis(2-Chloroethoxy)methane	93	Compound Not Detected.							
24 Benzoic Acid	122	5.810	5.800	(0.981)		45464	30.2315	30.23	
25 2,4-Dichlorophenol*	162	Compound Not Detected.							
26 1,2,4-Trichlorobenzene	180	Compound Not Detected.							
* 27 Naphthalene-d8	136	5.924	5.924	(1.000)		283317	40.0000		
28 Naphthalene	128	5.944	5.945	(1.003)		98378	12.2964	12.30	
29 4-Chloroaniline	127	Compound Not Detected.							
30 Hexachlorobutadiene*	225	Compound Not Detected.							
32 4-Chloro-3-Methylphenol*	107	Compound Not Detected.							
33 2-Methylnaphthalene	142	6.825	6.825	(1.152)		45076	8.45248	8.452	
145 1-Methylnaphthalene	142	6.960	6.960	(1.175)		17508	3.36931	3.369	
35 Hexachlorocyclopentadiene**	237	Compound Not Detected.							
36 2,4,6-Trichlorophenol*	196	Compound Not Detected.							
37 2,4,5-Trichlorophenol	196	Compound Not Detected.							
39 2-Chloronaphthalene	162	Compound Not Detected.							
40 2-Nitroaniline	65	Compound Not Detected.							
42 Dimethylphthalate	163	Compound Not Detected.							
45 Acenaphthylene	152	Compound Not Detected.							
44 2,6-Dinitrotoluene	165	Compound Not Detected.							
46 3-Nitroaniline	138	Compound Not Detected.							
* 47 Acenaphthene-d10	164	8.131	8.131	(1.000)		155024	40.0000		
48 Acenaphthene*	154	Compound Not Detected.							
49 2,4-Dinitrophenol**	184	Compound Not Detected.							
50 4-Nitrophenol**	109	Compound Not Detected.							
51 Dibenzofuran	168	Compound Not Detected.							
52 2,4-Dinitrotoluene	165	Compound Not Detected.							
\$ 147 Fluorene-d10	176	8.753	8.753	(1.076)		183264	32.4767	32.48	
56 Diethylphthalate	149	Compound Not Detected.							
57 Fluorene	166	Compound Not Detected.							
58 4-Chlorophenyl phenyl ether	204	Compound Not Detected.							
59 4-Nitroaniline	138	Compound Not Detected.							
60 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.							
61 N-nitrosodiphenylamine*	169	Compound Not Detected.							
\$ 62 2,4,6-Tribromophenol	330	9.105	9.105	(1.120)		26742	29.6873	29.69	
65 4-Bromophenyl phenyl ether	248	Compound Not Detected.							
66 Hexachlorobenzene	284	9.540	9.541	(0.964)		2064	1.35212	1.352	
68 Pentachlorophenol*	266	Compound Not Detected.							
* 71 Phenanthrene-d10	188	9.893	9.903	(1.000)		280187	40.0000		
72 Phenanthrene	178	Compound Not Detected.							
73 Anthracene	178	Compound Not Detected.							
78 Di-n-butylphthalate	149	10.763	10.763	(1.088)		286499	31.4868	31.49	
80 Fluoranthene*	202	Compound Not Detected.							

Compounds	QUANT	SIG	CONCENTRATIONS					
			ON-COLUMN			FINAL		
	MASS		RT	EXP RT	REL RT	RESPONSE	(ng)	(ug)
=====	=====		==	=====	=====	=====	=====	=====
\$ 148 Pyrene-d10	212		11.603	11.603	(0.867)	235947	33.6066	33.61
81 Pyrene	202		Compound Not Detected.					
85 Butyl benzyl phthalate	149		Compound Not Detected.					
88 Benzo(a)Anthracene	228		Compound Not Detected.					
* 90 Chrysene-d12	240		13.385	13.385	(1.000)	228719	40.0000	
89 3 3'-Dichlorobenzidine	252		Compound Not Detected.					
91 Chrysene	228		Compound Not Detected.					
93 bis(2-ethylhexyl)Phthalate	149		Compound Not Detected.					
94 Di-n-octyl phthalate*	149		Compound Not Detected.					
95 Benzo(b)fluoranthene	252		Compound Not Detected.					
96 Benzo(k)fluoranthene	252		Compound Not Detected.					
98 Benzo(a)pyrene*	252		Compound Not Detected.					
* 99 Perylene-d12	264		15.810	15.810	(1.000)	173042	40.0000	
103 Indeno(1,2,3-cd)pyrene	276		Compound Not Detected.					
104 Dibenzo(a,h)anthracene	278		Compound Not Detected.					
105 Benzo(g,h,i)perylene	276		Compound Not Detected.					
\$ 83 Fluoranthene-d10	212		11.333	11.333	(1.146)	68802	11.5228	11.52
\$ 101 Benzo(a)pyrene-d12	264		15.665	15.676	(0.991)	40829	11.1155	11.12

Report Date: 15-Jul-2009 17:18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARYInstrument ID: msdv.i
Lab File ID: v071031.d
Lab Smp Id: 0907124B-06ACalibration Date: 10-JUL-2009
Calibration Time: 14:54

Analysis Type: SV

Level: LOW

Quant Type: ISTD

Sample Type: PUF/XAD

Operator: rn

Method File: /chem/msdv.i/10jul09a.b/bnap0708.m

Misc Info: ,NOTICS

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	102673	51336	205346	113092	10.15
27 Naphthalene-d8	236468	118234	472936	283317	19.81
47 Acenaphthene-d10	129070	64535	258140	155024	20.11
71 Phenanthrene-d10	248448	124224	496896	280187	12.77
90 Chrysene-d12	208197	104098	416394	228719	9.86
99 Perylene-d12	167433	83716	334866	173042	3.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.26	3.76	4.76	4.26	-0.01
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.13	7.63	8.63	8.13	0.00
71 Phenanthrene-d10	9.90	9.40	10.40	9.89	-0.11
90 Chrysene-d12	13.39	12.89	13.89	13.39	0.00
99 Perylene-d12	15.81	15.31	16.31	15.81	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 15-Jul-2009 17:18

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 10jul09a
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0907124B-06A
Level: LOW Operator: rn
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: T013+fs.sub
Method File: /chem/msdv.i/10jul09a.b/bnap0708.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	50.00	34.07	68.14	50-150
\$ 2 Phenol-d5	50.00	37.63	75.27	50-150
\$ 17 Nitrobenzene-d5	50.00	32.75	65.50	50-150
\$ 147 Fluorene-d10	50.00	32.48	64.95	60-120
\$ 62 2,4,6-Tribromophen	50.00	29.69	59.37	50-150
\$ 148 Pyrene-d10	50.00	33.61	67.21	60-120
\$ 83 Fluoranthene-d10	10.00	11.52	115.23	50-150
\$ 101 Benzo(a)pyrene-d12	10.00	11.12	111.15	50-150

Data File: /chem/msdv.i/10jul09a.b/v071031.d

Date : 11-JUL-2009 01:21

Client ID:

Sample Info: J0907124B-06A;

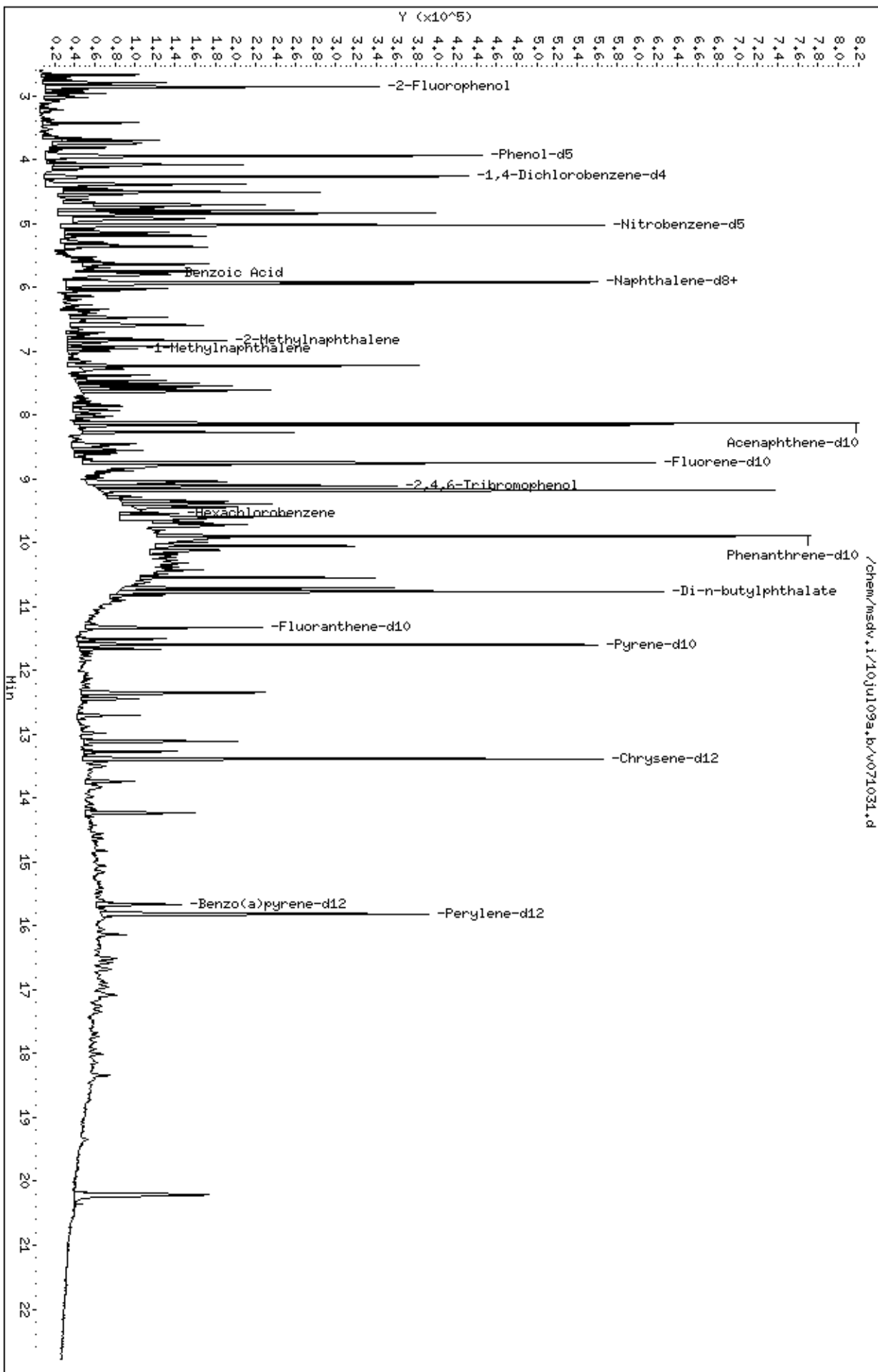
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: m

Column diameter: 0.25



Date : 11-JUL-2009 01:21

Client ID:

Instrument: msdv.i

Sample Info: ;0907124B-06A;

Volume Injected (uL): 1.0

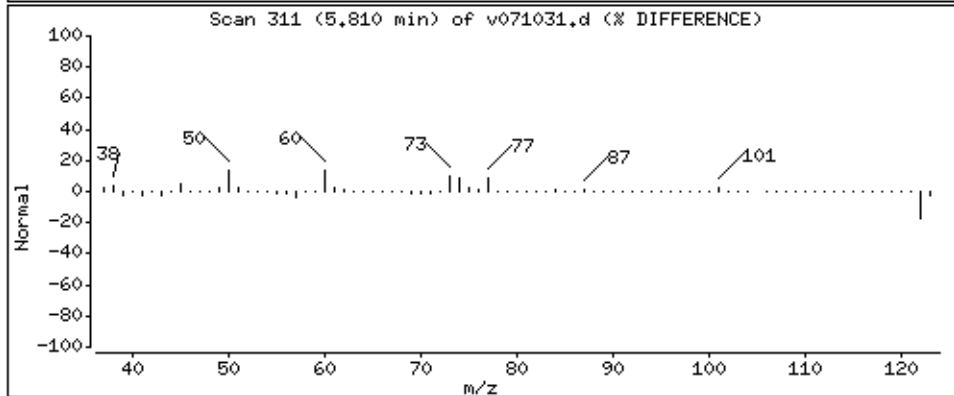
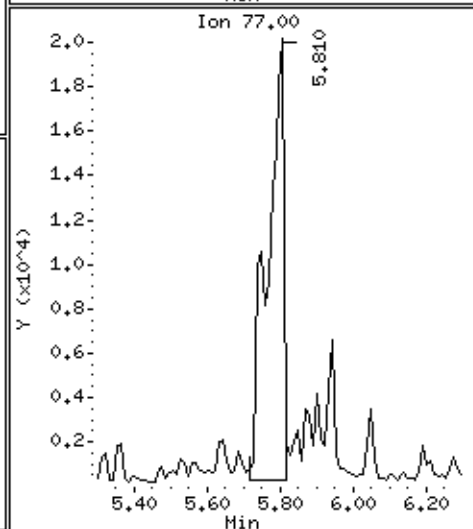
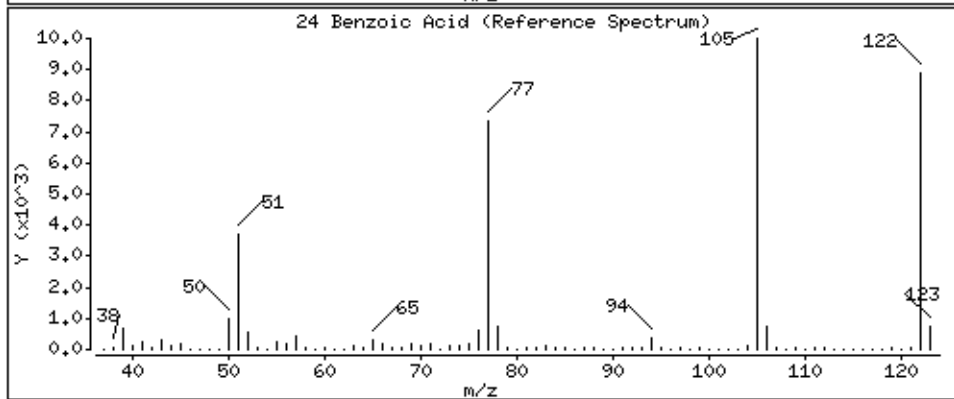
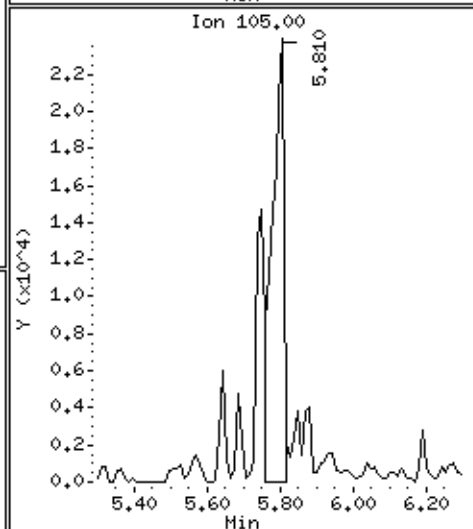
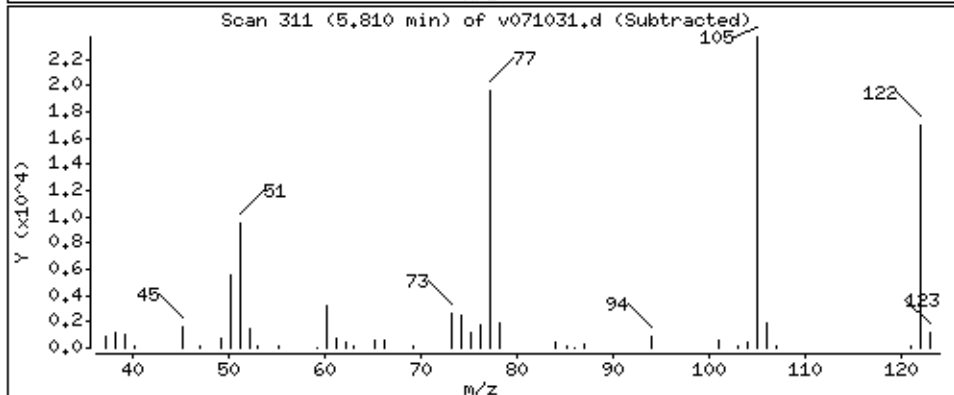
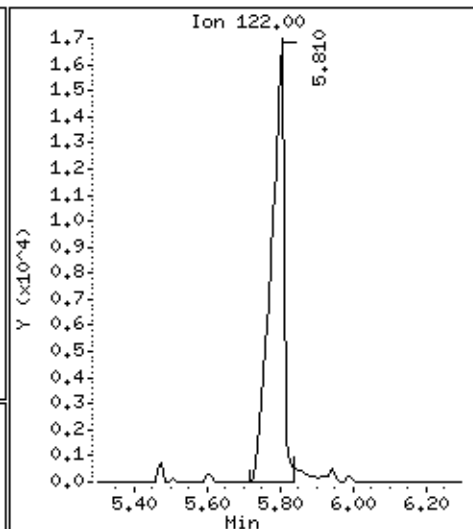
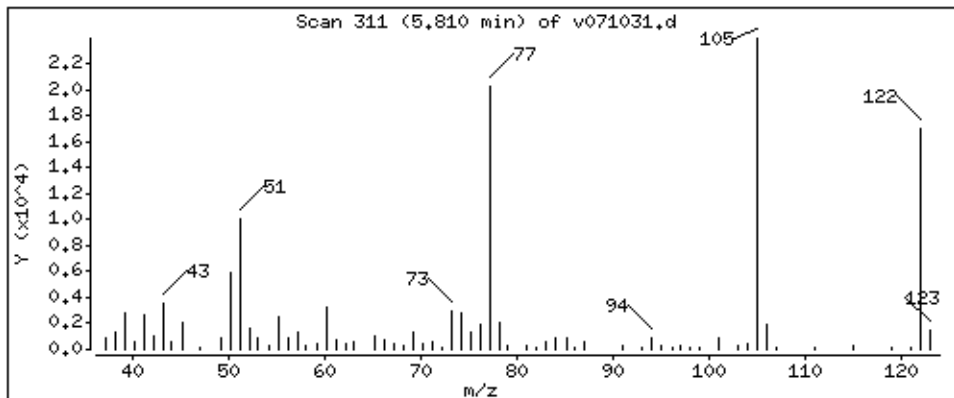
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

24 Benzoic Acid

Concentration: 30.23 ug



Date : 11-JUL-2009 01:21

Client ID:

Instrument: msdv.i

Sample Info: ;0907124B-06A;

Volume Injected (uL): 1.0

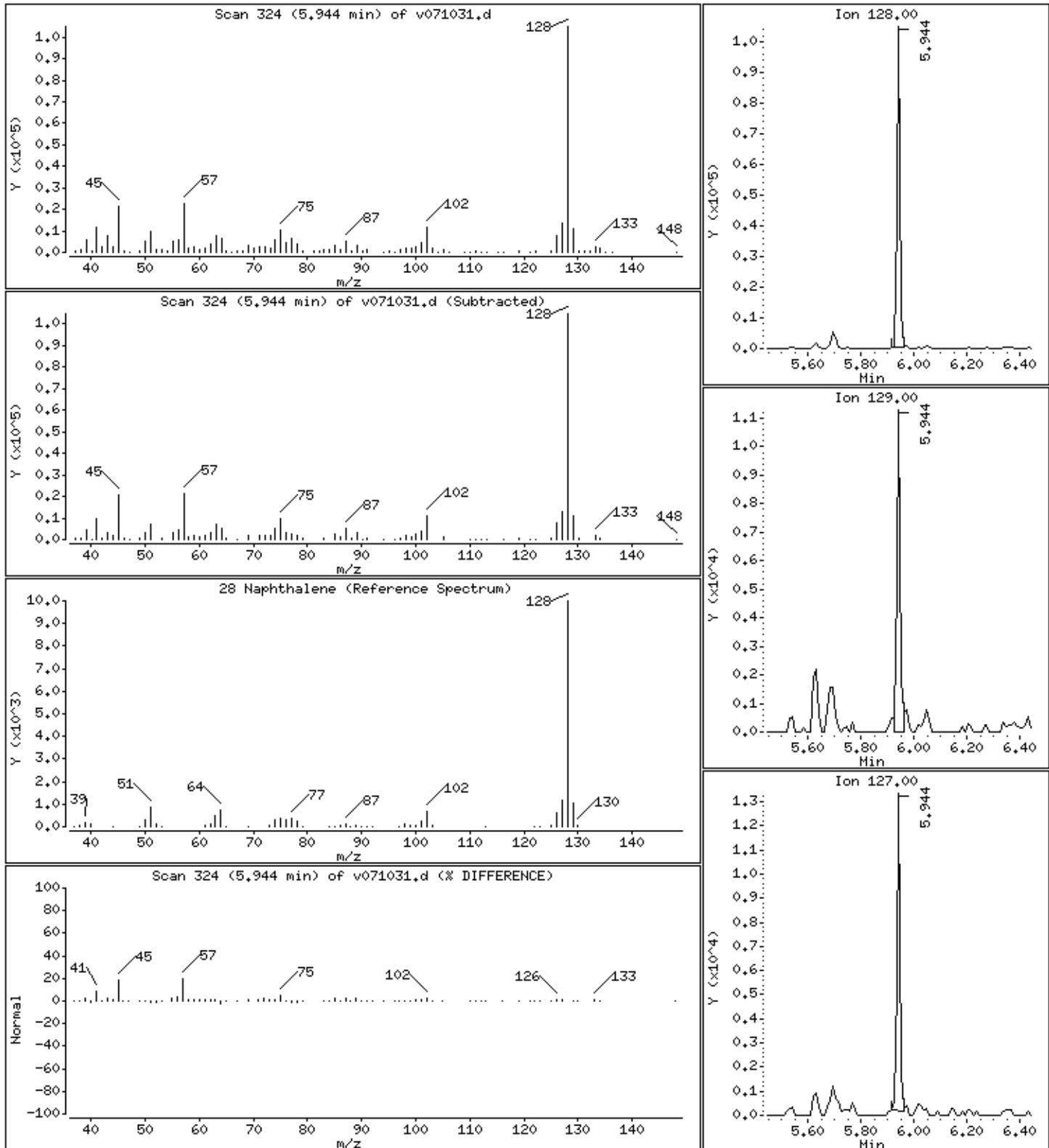
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

28 Naphthalene

Concentration: 12.30 ug



Date : 11-JUL-2009 01:21

Client ID:

Instrument: msdv.i

Sample Info: ;0907124B-06A;

Volume Injected (uL): 1.0

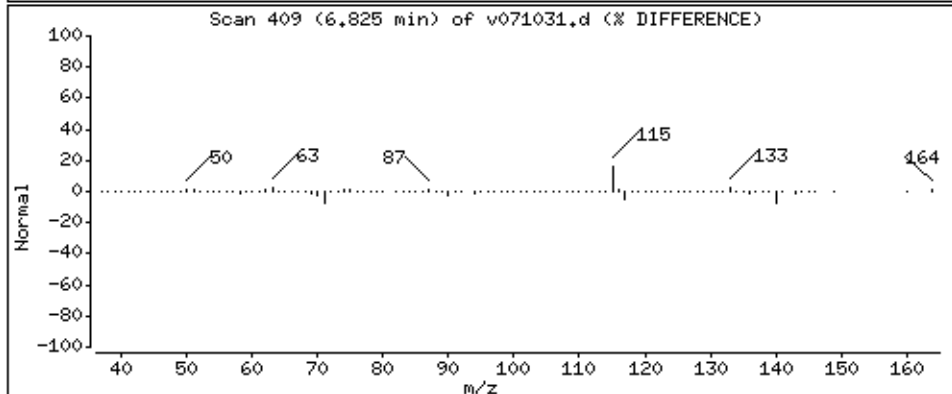
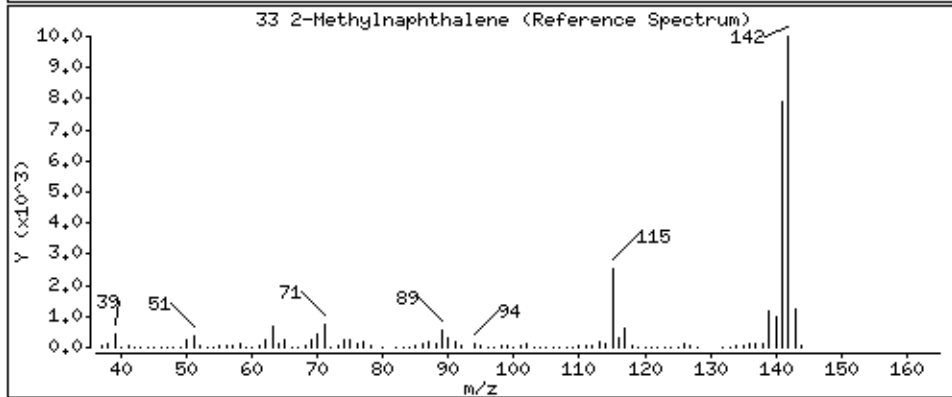
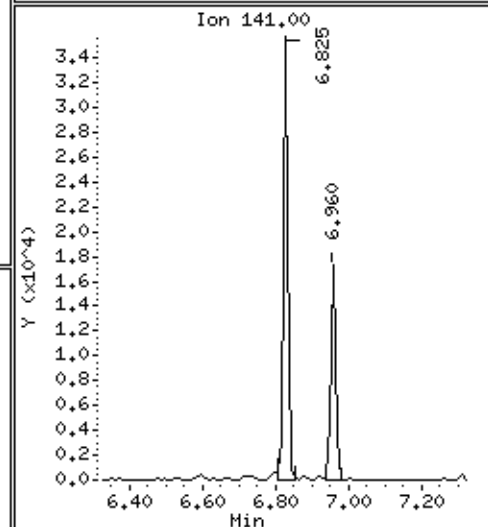
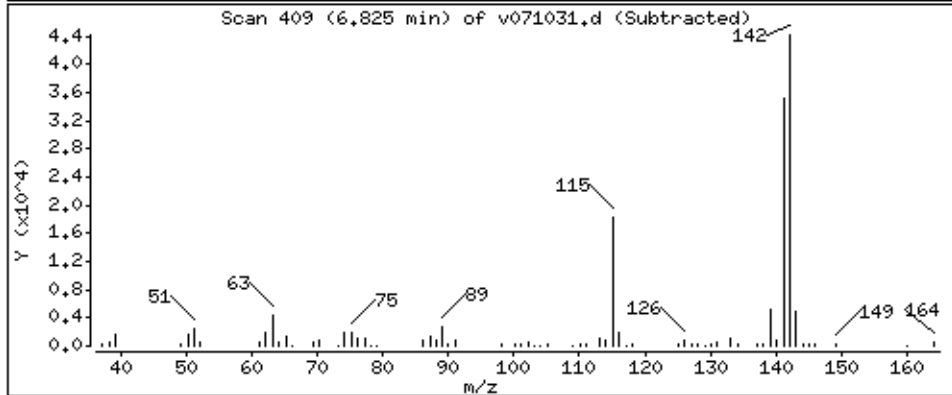
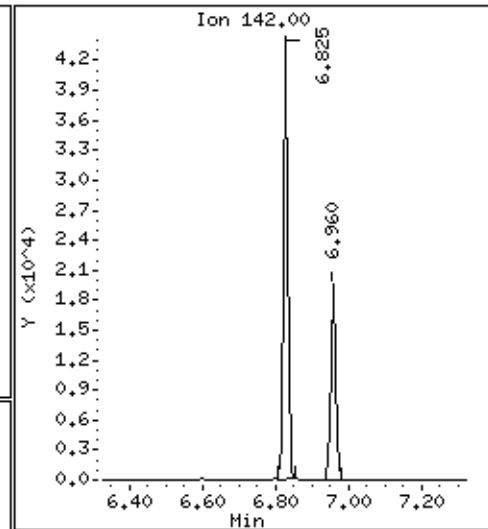
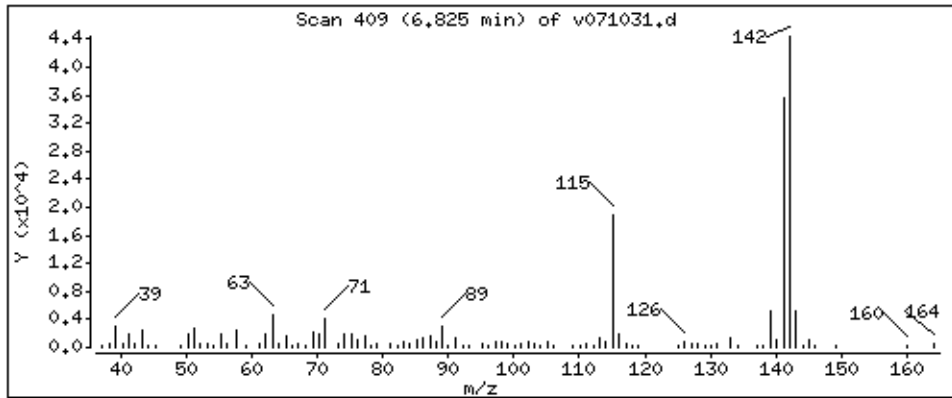
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

33 2-Methylnaphthalene

Concentration: 8.452 ug



Date : 11-JUL-2009 01:21

Client ID:

Instrument: msdv.i

Sample Info: ;0907124B-06A;

Volume Injected (uL): 1.0

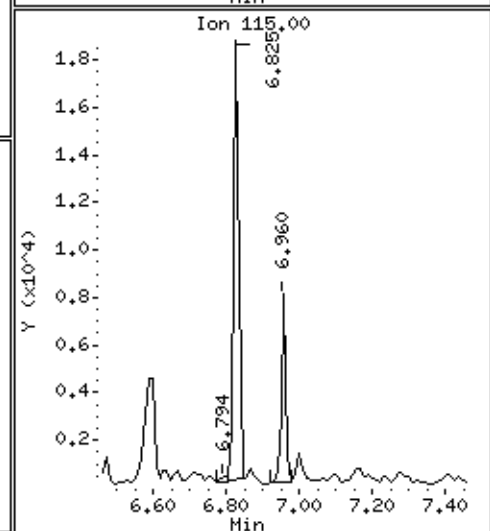
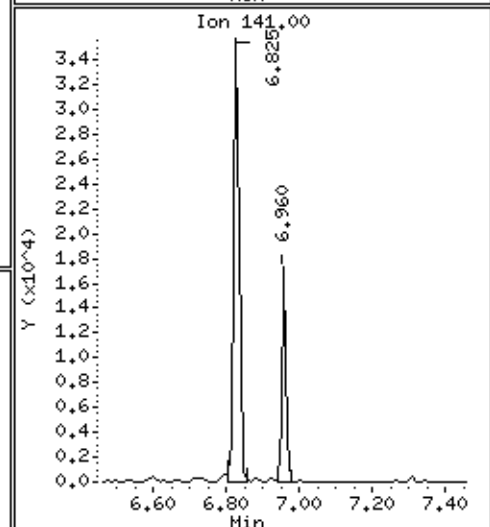
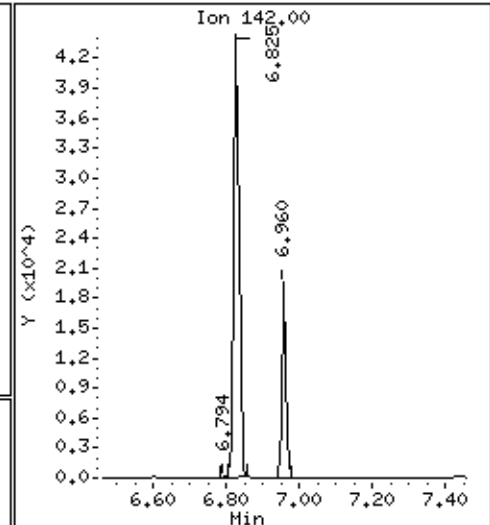
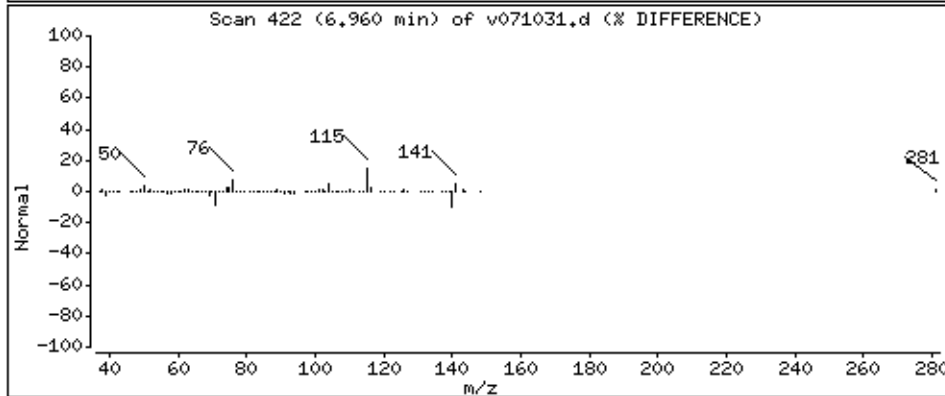
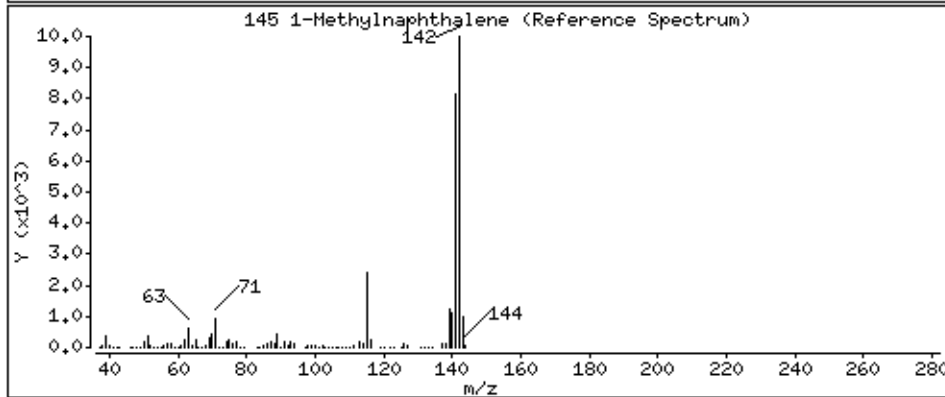
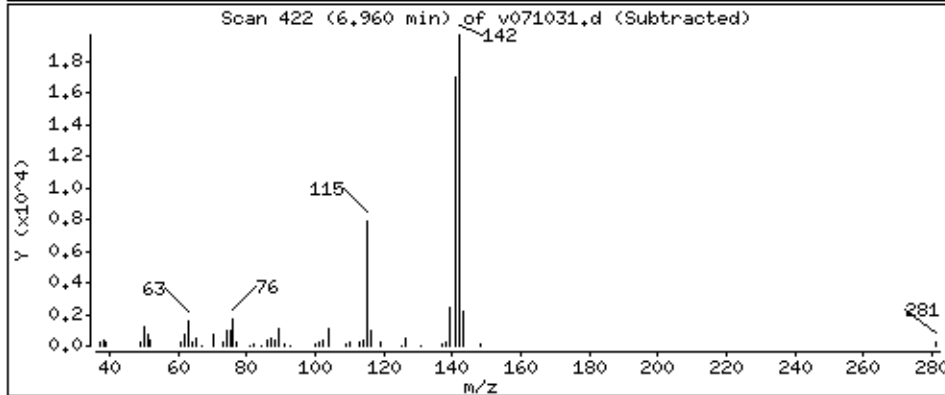
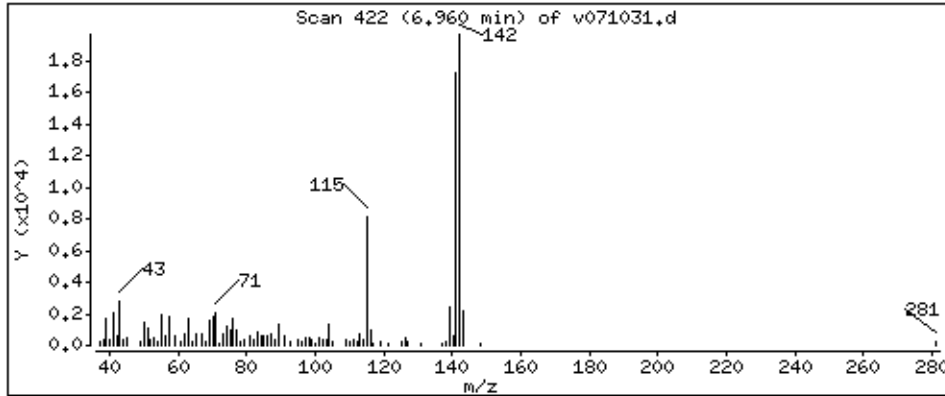
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

145 1-Methylnaphthalene

Concentration: 3.369 ug



Date : 11-JUL-2009 01:21

Client ID:

Instrument: msdv.i

Sample Info: ;0907124B-06A;

Volume Injected (uL): 1.0

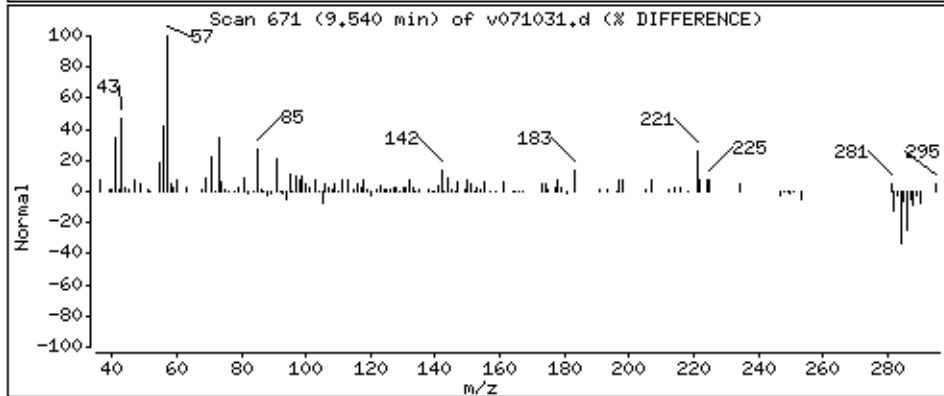
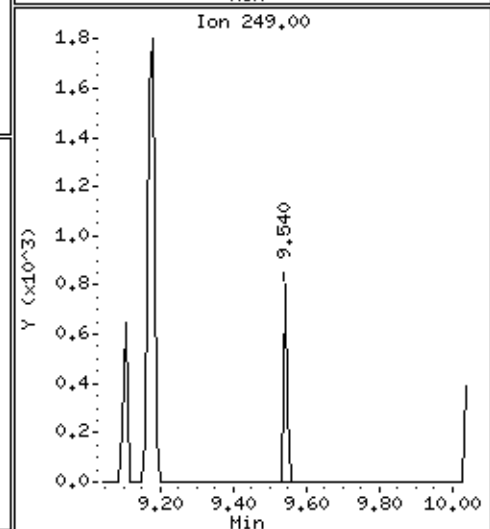
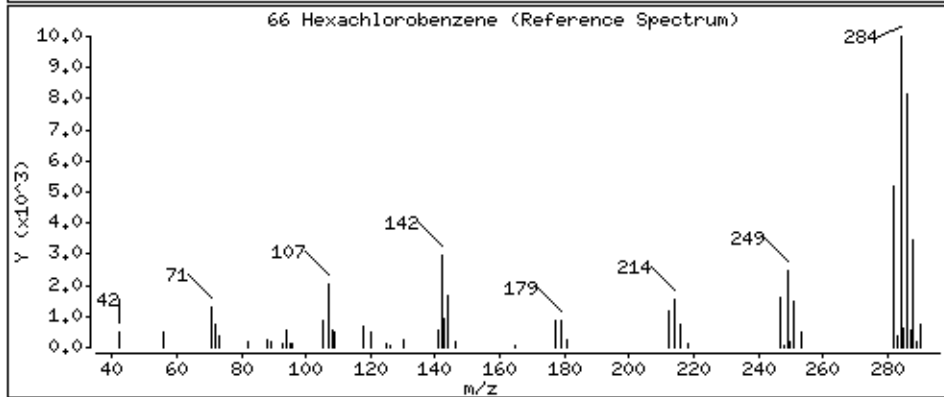
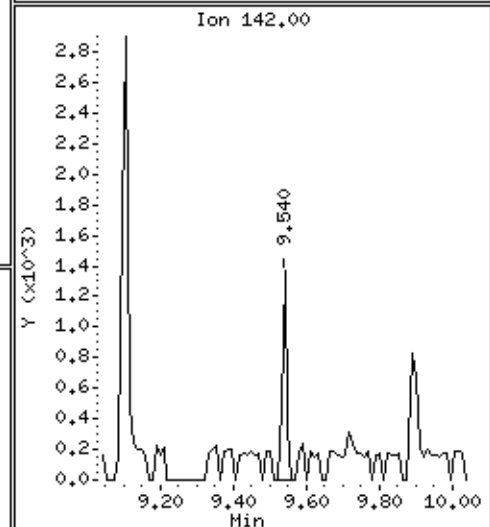
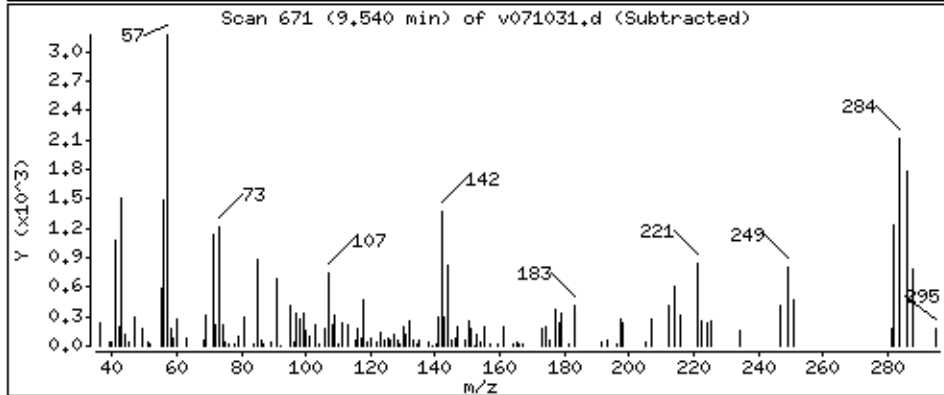
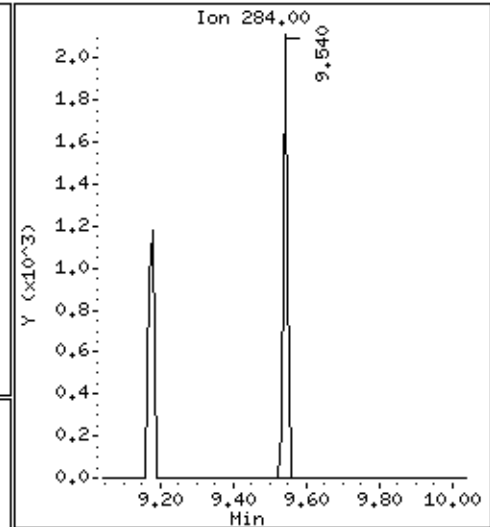
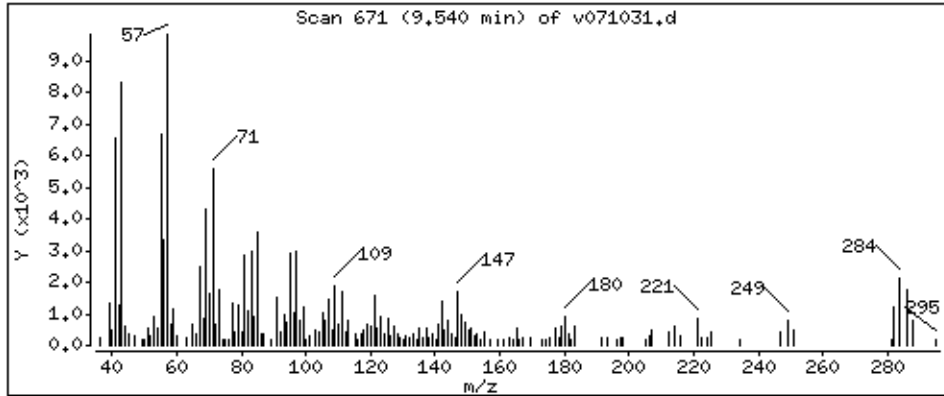
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

66 Hexachlorobenzene

Concentration: 1.352 ug



Date : 11-JUL-2009 01:21

Client ID:

Instrument: msdv.i

Sample Info: ;0907124B-06A;

Volume Injected (uL): 1.0

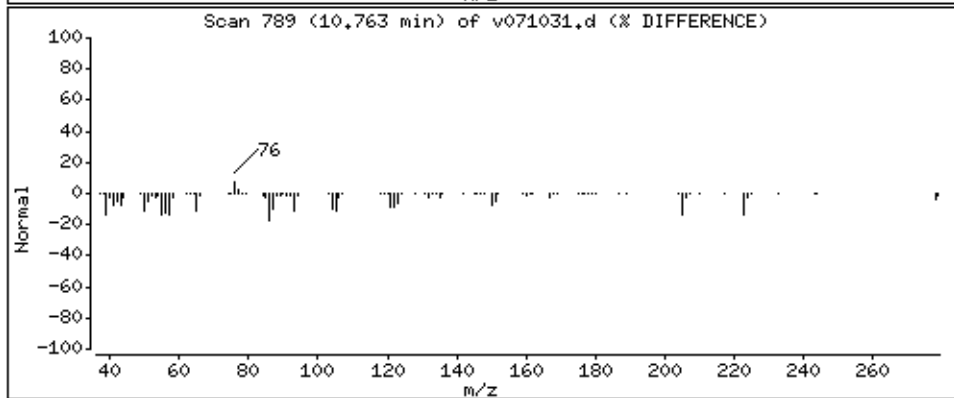
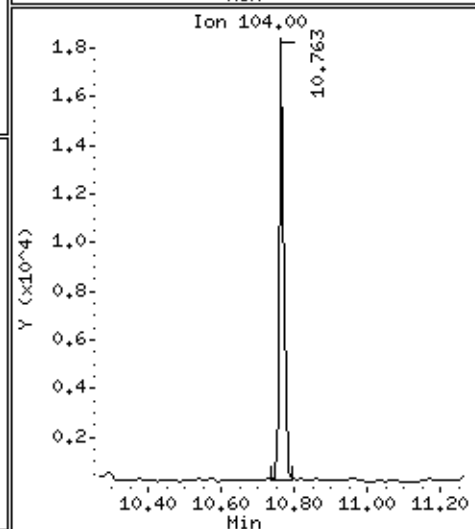
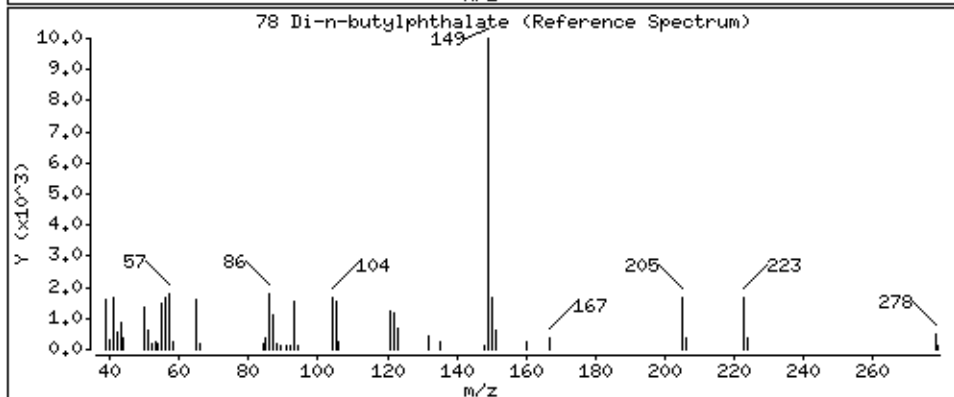
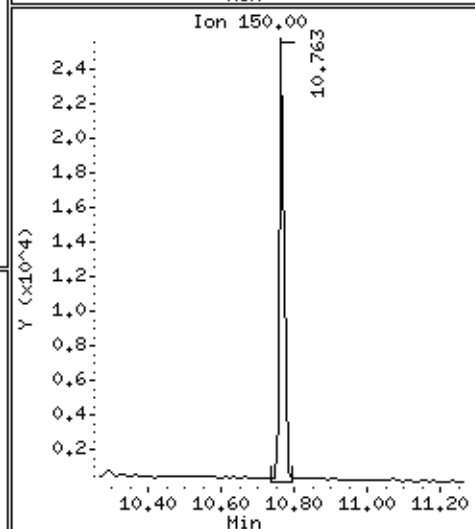
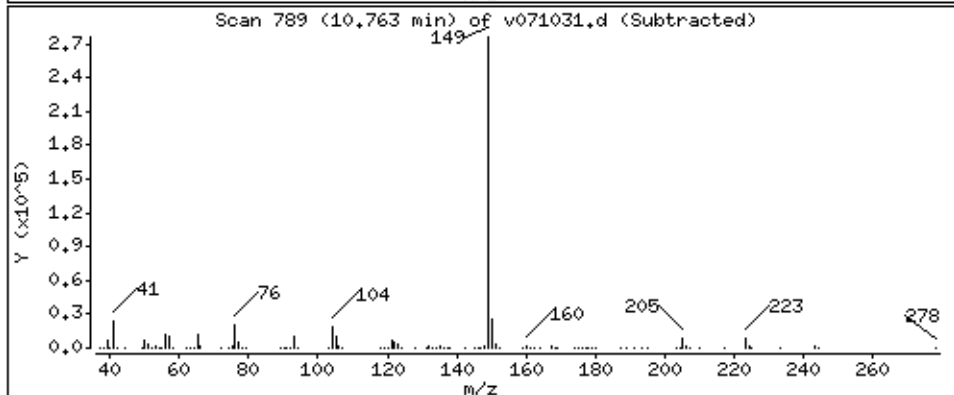
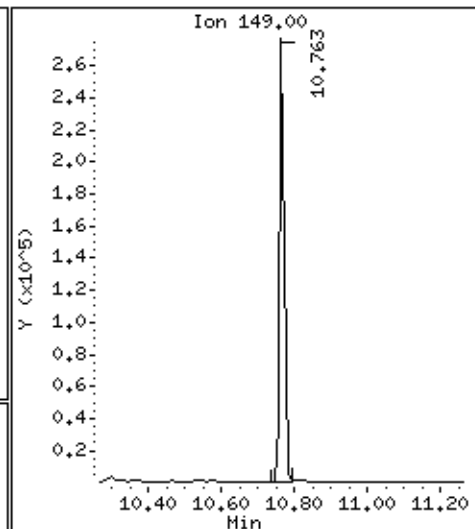
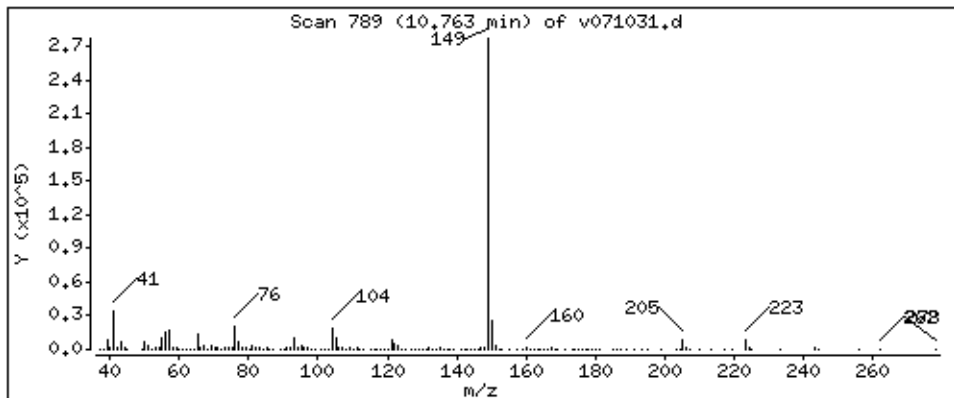
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

78 Di-n-butylphthalate

Concentration: 31.49 ug



QC Results and Raw Data

Client Sample ID: Lab Blank

Lab ID#: 0907124B-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	v071023	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/10/09 09:45 PM
		Date of Extraction: 7/9/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Phenol	5.0	0.062	Not Detected	Not Detected
bis(2-Chloroethyl) Ether	1.0	0.012	Not Detected	Not Detected
2-Chlorophenol	5.0	0.062	Not Detected	Not Detected
1,3-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,4-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
1,2-Dichlorobenzene	1.0	0.012	Not Detected	Not Detected
2-Methylphenol (o-Cresol)	5.0	0.062	Not Detected	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	0.012	Not Detected	Not Detected
N-Nitroso-di-n-propylamine	1.0	0.012	Not Detected	Not Detected
4-Methylphenol/3-Methylphenol	5.0	0.062	Not Detected	Not Detected
Hexachloroethane	1.0	0.012	Not Detected	Not Detected
Nitrobenzene	1.0	0.012	Not Detected	Not Detected
Isophorone	1.0	0.012	Not Detected	Not Detected
2-Nitrophenol	5.0	0.062	Not Detected	Not Detected
2,4-Dimethylphenol	5.0	0.062	Not Detected	Not Detected
Benzoic Acid	30	0.38	Not Detected	Not Detected
bis(2-Chloroethoxy) Methane	1.0	0.012	Not Detected	Not Detected
2,4-Dichlorophenol	5.0	0.062	Not Detected	Not Detected
1,2,4-Trichlorobenzene	1.0	0.012	Not Detected	Not Detected
Naphthalene	1.0	0.012	Not Detected	Not Detected
4-Chloroaniline	10	0.12	Not Detected	Not Detected
Hexachlorobutadiene	1.0	0.012	Not Detected	Not Detected
4-Chloro-3-methylphenol	5.0	0.062	Not Detected	Not Detected
2-Methylnaphthalene	1.0	0.012	Not Detected	Not Detected
Hexachlorocyclopentadiene	20	0.25	Not Detected	Not Detected
2,4,6-Trichlorophenol	5.0	0.062	Not Detected	Not Detected
2,4,5-Trichlorophenol	5.0	0.062	Not Detected	Not Detected
2-Chloronaphthalene	1.0	0.012	Not Detected	Not Detected
2-Nitroaniline	10	0.12	Not Detected	Not Detected
Dimethylphthalate	5.0	0.062	Not Detected	Not Detected
Acenaphthylene	1.0	0.012	Not Detected	Not Detected
2,6-Dinitrotoluene	5.0	0.062	Not Detected	Not Detected
3-Nitroaniline	10	0.12	Not Detected	Not Detected
Acenaphthene	1.0	0.012	Not Detected	Not Detected
2,4-Dinitrophenol	20	0.25	Not Detected	Not Detected
4-Nitrophenol	20	0.25	Not Detected	Not Detected
2,4-Dinitrotoluene	5.0	0.062	Not Detected	Not Detected
Dibenzofuran	1.0	0.012	Not Detected	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 0907124B-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	v071023	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/10/09 09:45 PM
		Date of Extraction: 7/9/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Diethylphthalate	5.0	0.062	Not Detected	Not Detected
Fluorene	1.0	0.012	Not Detected	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
4-Nitroaniline	10	0.12	Not Detected	Not Detected
4,6-Dinitro-2-methylphenol	10	0.12	Not Detected	Not Detected
N-Nitrosodiphenylamine	10	0.12	Not Detected	Not Detected
4-Bromophenyl-phenyl Ether	1.0	0.012	Not Detected	Not Detected
Hexachlorobenzene	1.0	0.012	Not Detected	Not Detected
Pentachlorophenol	20	0.25	Not Detected	Not Detected
Phenanthrene	1.0	0.012	Not Detected	Not Detected
Anthracene	1.0	0.012	Not Detected	Not Detected
di-n-Butylphthalate	5.0	0.062	Not Detected	Not Detected
Fluoranthene	1.0	0.012	Not Detected	Not Detected
Pyrene	1.0	0.012	Not Detected	Not Detected
Butylbenzylphthalate	5.0	0.062	Not Detected	Not Detected
3,3'-Dichlorobenzidine	20	0.25	Not Detected	Not Detected
Chrysene	1.0	0.012	Not Detected	Not Detected
Benzo(a)anthracene	1.0	0.012	Not Detected	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.062	Not Detected	Not Detected
Di-n-Octylphthalate	5.0	0.062	Not Detected	Not Detected
Benzo(b)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(k)fluoranthene	1.0	0.012	Not Detected	Not Detected
Benzo(a)pyrene	1.0	0.012	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	0.012	Not Detected	Not Detected
Dibenz(a,h)anthracene	1.0	0.012	Not Detected	Not Detected
Benzo(g,h,i)perylene	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 80000

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	65	50-150
Phenol-d5	71	50-150
Nitrobenzene-d5	60	50-150
2,4,6-Tribromophenol	61	50-150
Fluorene-d10	62	60-120
Pyrene-d10	63	60-120

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/10jul09a.b/v071023.d
Lab Smp Id: 0907122/123B/124B-B Client Smp ID: Lab Blank
Inj Date : 10-JUL-2009 21:45
Operator : rn Inst ID: msdv.i
Smp Info : ;0907122/123B/124B-Blank;Lab Blank
Misc Info : ,NOTICS
Comment :
Method : /chem/msdv.i/10jul09a.b/bnap0708.m
Meth Date : 10-Jul-2009 16:26 rnoonan Quant Type: ISTD
Cal Date : 08-JUL-2009 18:29 Cal File: v070812.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: T013.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable Local Compound Variable

		CONCENTRATIONS					
		QUANT	SIG				
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug)
=====	=====	==	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112	2.846	2.846	(0.669)	78520	32.3790	32.38
\$ 2 Phenol-d5	99	3.934	3.934	(0.924)	99559	35.4264	35.43
3 Phenol*	94	Compound Not Detected.					
4 bis(2-Chloroethyl)ether	93	Compound Not Detected.					
5 2-Chlorophenol	128	Compound Not Detected.					
6 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 7 1,4-Dichlorobenzene-d4	150	4.255	4.255	(1.000)	94569	40.0000	
9 1,4-Dichlorobenzene*	146	Compound Not Detected.					
11 1,2-Dichlorobenzene	146	Compound Not Detected.					
12 2-Methylphenol	108	Compound Not Detected.					
13 bis(2-Chloroisopropyl)ether	45	Compound Not Detected.					
14 4-Methylphenol	108	Compound Not Detected.					
15 N-Nitrosodipropylamine**	70	Compound Not Detected.					

Report Date: 13-Jul-2009 08:58

Compounds	QUANT	SIG	CONCENTRATIONS					
			ON-COLUMN	FINAL				
	MASS	RT	EXP	RT	REL	RT	RESPONSE	(ng) (ug)
=====	=====	==	=====	=====	=====	=====	=====	=====
16 Hexachloroethane	117		Compound	Not	Detected.			
\$ 17 Nitrobenzene-d5	82	5.022	5.022	(0.849)		105614	29.7830	29.78
18 Nitrobenzene	77		Compound	Not	Detected.			
19 Isophorone	82		Compound	Not	Detected.			
20 2-Nitrophenol*	139		Compound	Not	Detected.			
21 2,4-Dimethylphenol	122		Compound	Not	Detected.			
23 bis(2-Chloroethoxy)methane	93		Compound	Not	Detected.			
24 Benzoic Acid	122		Compound	Not	Detected.			
25 2,4-Dichlorophenol*	162		Compound	Not	Detected.			
26 1,2,4-Trichlorobenzene	180		Compound	Not	Detected.			
* 27 Naphthalene-d8	136	5.913	5.924	(1.000)		238904	40.0000	
28 Naphthalene	128		Compound	Not	Detected.			
29 4-Chloroaniline	127		Compound	Not	Detected.			
30 Hexachlorobutadiene*	225		Compound	Not	Detected.			
32 4-Chloro-3-Methylphenol*	107		Compound	Not	Detected.			
33 2-Methylnaphthalene	142		Compound	Not	Detected.			
145 1-Methylnaphthalene	142		Compound	Not	Detected.			
35 Hexachlorocyclopentadiene**	237		Compound	Not	Detected.			
36 2,4,6-Trichlorophenol*	196		Compound	Not	Detected.			
37 2,4,5-Trichlorophenol	196		Compound	Not	Detected.			
39 2-Chloronaphthalene	162		Compound	Not	Detected.			
40 2-Nitroaniline	65		Compound	Not	Detected.			
42 Dimethylphthalate	163		Compound	Not	Detected.			
45 Acenaphthylene	152		Compound	Not	Detected.			
44 2,6-Dinitrotoluene	165		Compound	Not	Detected.			
46 3-Nitroaniline	138		Compound	Not	Detected.			
* 47 Acenaphthene-d10	164	8.131	8.131	(1.000)		136814	40.0000	
48 Acenaphthene*	154		Compound	Not	Detected.			
49 2,4-Dinitrophenol**	184		Compound	Not	Detected.			
50 4-Nitrophenol**	109		Compound	Not	Detected.			
51 Dibenzofuran	168		Compound	Not	Detected.			
52 2,4-Dinitrotoluene	165		Compound	Not	Detected.			
\$ 147 Fluorene-d10	176	8.753	8.753	(1.076)		153701	30.8631	30.86
56 Diethylphthalate	149		Compound	Not	Detected.			
57 Fluorene	166		Compound	Not	Detected.			
58 4-Chlorophenyl phenyl ether	204		Compound	Not	Detected.			
59 4-Nitroaniline	138		Compound	Not	Detected.			
60 4,6-Dinitro-2-methylphenol	198		Compound	Not	Detected.			
61 N-nitrosodiphenylamine*	169		Compound	Not	Detected.			
\$ 62 2,4,6-Tribromophenol	330	9.105	9.105	(1.120)		24344	30.6222	30.62
65 4-Bromophenyl phenyl ether	248		Compound	Not	Detected.			
66 Hexachlorobenzene	284		Compound	Not	Detected.			
68 Pentachlorophenol*	266		Compound	Not	Detected.			
* 71 Phenanthrene-d10	188	9.893	9.903	(1.000)		251279	40.0000	
72 Phenanthrene	178		Compound	Not	Detected.			
73 Anthracene	178		Compound	Not	Detected.			
78 Di-n-butylphthalate	149		Compound	Not	Detected.			

Compounds	QUANT	SIG	CONCENTRATIONS					
			ON-COLUMN	FINAL				
	MASS		RT	EXP RT	REL RT	RESPONSE	(ng)	(ug)
=====	=====		==	=====	=====	=====	=====	=====
80 Fluoranthene*	202		Compound Not Detected.					
\$ 148 Pyrene-d10	212		11.592	11.603	(0.866)	212427	31.3369	31.34
81 Pyrene	202		Compound Not Detected.					
85 Butyl benzyl phthalate	149		Compound Not Detected.					
88 Benzo(a)Anthracene	228		Compound Not Detected.					
* 90 Chrysene-d12	240		13.385	13.385	(1.000)	220834	40.0000	
89 3 3'-Dichlorobenzidine	252		Compound Not Detected.					
91 Chrysene	228		Compound Not Detected.					
93 bis(2-ethylhexyl)Phthalate	149		Compound Not Detected.					
94 Di-n-octyl phthalate*	149		Compound Not Detected.					
95 Benzo(b)fluoranthene	252		Compound Not Detected.					
96 Benzo(k)fluoranthene	252		Compound Not Detected.					
98 Benzo(a)pyrene*	252		Compound Not Detected.					
* 99 Perylene-d12	264		15.810	15.810	(1.000)	175527	40.0000	
103 Indeno(1,2,3-cd)pyrene	276		Compound Not Detected.					
104 Dibenzo(a,h)anthracene	278		Compound Not Detected.					
105 Benzo(g,h,i)perylene	276		Compound Not Detected.					

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i

Calibration Date: 10-JUL-2009

Lab File ID: v071023.d

Calibration Time: 14:54

Lab Smp Id: 0907122/123B/124B-B

Client Smp ID: Lab Blank

Analysis Type: SV

Level: LOW

Quant Type: ISTD

Sample Type: PUF/XAD

Operator: rn

Method File: /chem/msdv.i/10jul09a.b/bnap0708.m

Misc Info: ,NOTICS

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	102673	51336	205346	94569	-7.89
27 Naphthalene-d8	236468	118234	472936	238904	1.03
47 Acenaphthene-d10	129070	64535	258140	136814	6.00
71 Phenanthrene-d10	248448	124224	496896	251279	1.14
90 Chrysene-d12	208197	104098	416394	220834	6.07
99 Perylene-d12	167433	83716	334866	175527	4.83

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.26	3.76	4.76	4.26	-0.01
27 Naphthalene-d8	5.92	5.42	6.42	5.91	-0.18
47 Acenaphthene-d10	8.13	7.63	8.63	8.13	0.00
71 Phenanthrene-d10	9.90	9.40	10.40	9.89	-0.11
90 Chrysene-d12	13.39	12.89	13.89	13.39	0.00
99 Perylene-d12	15.81	15.31	16.31	15.81	0.00

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

Report Date: 13-Jul-2009 08:58

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 10jul09a
Sample Matrix: GAS Fraction: SV
Lab Smp Id: 0907122/123B/124B-B Client Smp ID: Lab Blank
Level: LOW Operator: rn
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: PAH100.spk Quant Type: ISTD
Sublist File: T013.sub
Method File: /chem/msdv.i/10jul09a.b/bnap0708.m
Misc Info: ,NOTICS

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	50.00	32.38	64.76	50-150
\$ 2 Phenol-d5	50.00	35.43	70.85	50-150
\$ 17 Nitrobenzene-d5	50.00	29.78	59.57	50-150
\$ 147 Fluorene-d10	50.00	30.86	61.73	60-120
\$ 62 2,4,6-Tribromophen	50.00	30.62	61.24	50-150
\$ 148 Pyrene-d10	50.00	31.34	62.67	60-120

Data File: /chem/msdv.i/10jul09a.b/v071023.d

Date : 10-JUL-2009 21:45

Client ID: Lab Blank

Sample Info: j0907122/123B/124B-Blank;Lab Blank

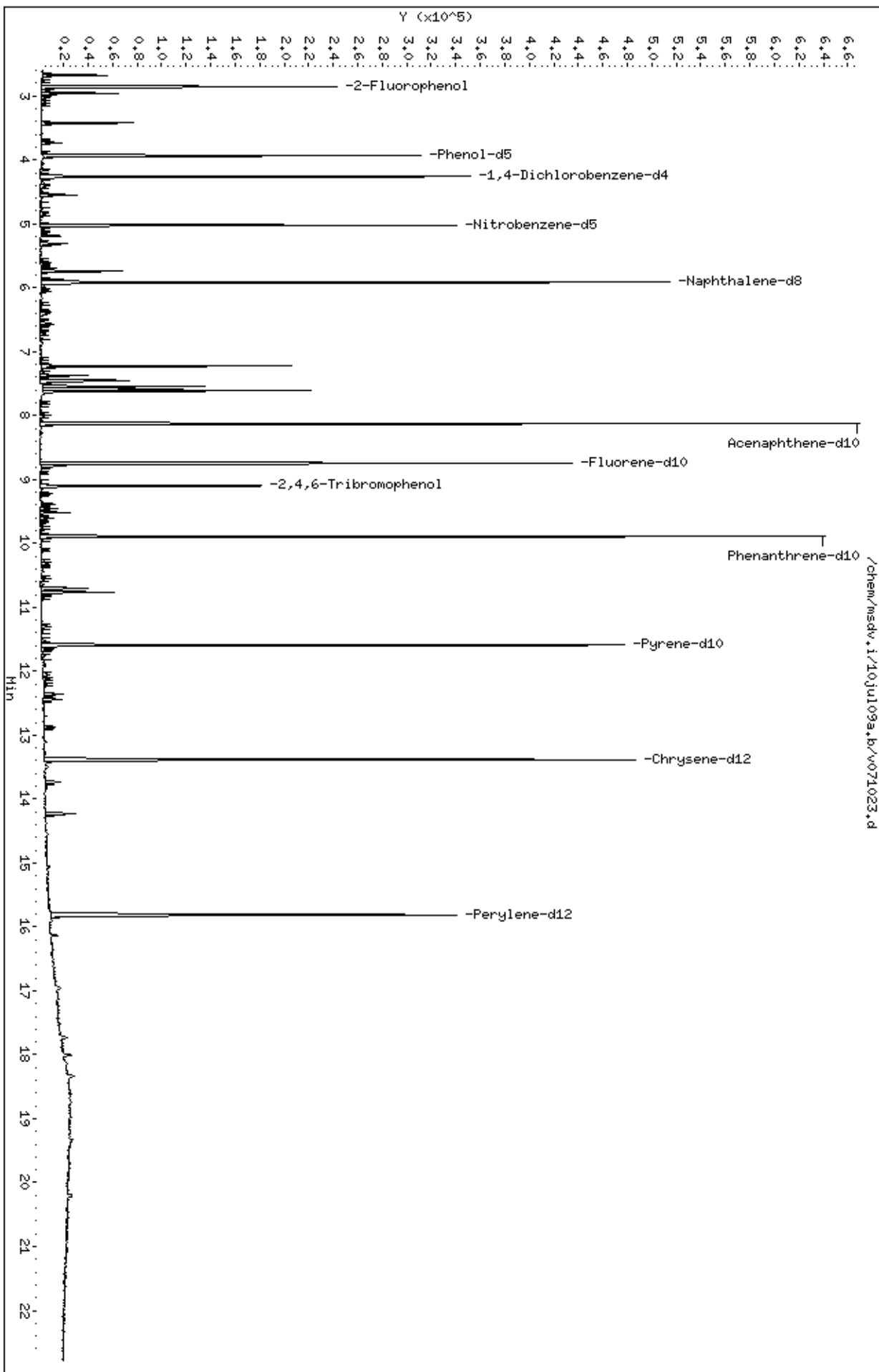
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: rn

Column diameter: 0.25



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 0907124B

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		2,4,6-Tribromophenol	#	Pyrene-d10	#	2-Fluorophenol	#	Nitrobenzene-d5	#	TOTAL OUT
01	OFF03-070209	60		66		69		63		0
02	OFF04-070209	59		67		68		66		0
03	Lab Blank	61		63		65		60		0
04	LCS	63		64		64		64		0
05										0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

2,4,6-Tribromophenol 50 - 150

Pyrene-d10 60 - 120

2-Fluorophenol 50 - 150

Nitrobenzene-d5 50 - 150

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 0907124B

CLIENT SAMPLE NO.	SURROGATE % RECOVERY							
	Phenol-d5	#	Fluorene-d10	#	Fluoranthene-d10	#	Benzo(a)pyrene-d12	TOTAL OUT
01 OFF03-070209	76		65		122		113	0
02 OFF04-070209	75		65		115		111	0
03 Lab Blank	71		62					0
04 LCS	72		64					0
05								0
06								0
07								0
08								0
09								0
10								0
11								0
12								0
13								0
14								0
15								0
16								0
17								0
18								0
19								0
20								0
21								0
22								0
23								0
24								0

Surrogate Recovery Limits

Phenol-d5 50 - 150

Fluorene-d10 60 - 120

Fluoranthene-d10 50 - 150

Benzo(a)pyrene-d12 50 - 150

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-13A GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD

SDG No: 0907124B

Lab File ID: v071008.d

Date Analyzed: 07/10/2009

Instrument ID: msdv.i

Time Analyzed: 02:54 PM

	Naphthalene-d8		RT		Acenaphthene-d12		RT		Phenanthrene-d10		RT	
	Area	#		#	Area	#		#	Area	#		#
24-HOUR STD	236468		5.92		129070		8.13		248448		9.9	
UPPER LIMIT	472936		06.25		258140		08.46		496896		10.23	
LOWER LIMIT	118234		05.59		64535		07.80		124224		09.57	
CLIENT SAMPLE NO												
01 OFF03-070209	281699		5.91		149825		8.13		273665		9.89	
02 OFF04-070209	283317		5.92		155024		8.13		280187		9.89	
03 Lab Blank	238904		5.91		136814		8.13		251279		9.89	
04 LCS	243628		5.91		139349		8.13		251815		9.89	
05												
06												
07												
08												
09												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												

'Area Upper Limit=+200% of internal standard area'

'Area Lower Limit=-50% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-13A GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD

SDG No: 0907124B

Lab File ID: v071008.d

Date Analyzed: 07/10/2009

Instrument ID: msdv.i

Time Analyzed: 02:54 PM

	Perylene-d12	#	RT	#	Chrysene-d12	#	RT	#	1,4-Dichlorobenzene-d	#	RT	#
	Area				Area				4	Area		
24-HOUR STD	167433		15.81		208197		13.39		102673		4.26	
UPPER LIMIT	334866		16.14		416394		13.72		205346		04.59	
LOWER LIMIT	83716		15.48		104098		13.06		51336		03.93	
CLIENT SAMPLE NO												
01 OFF03-070209	174729		15.81		228309		13.39		109351		4.26	
02 OFF04-070209	173042		15.81		228719		13.39		113092		4.26	
03 Lab Blank	175527		15.81		220834		13.39		94569		4.26	
04 LCS	171647		15.81		217990		13.39		104584		4.26	
05												
06												
07												
08												
09												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												

'Area Upper Limit=+200% of internal standard area'

'Area Lower Limit=-50% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Calibration File Names:

Level 1: /chem/msdv.i/08jul09.b/v070804.d
Level 2: /chem/msdv.i/08jul09.b/v070805.d
Level 3: /chem/msdv.i/08jul09.b/v070806.d
Level 4: /chem/msdv.i/08jul09.b/v070807.d
Level 5: /chem/msdv.i/08jul09.b/v070808.d
Level 6: /chem/msdv.i/08jul09.b/v070809.d
Level 7: /chem/msdv.i/08jul09.b/v070810.d
Level 8: /chem/msdv.i/08jul09.b/v070811.d
Level 9: /chem/msdv.i/08jul09.b/v070812.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD
	80.000	100.000	160.000					
	Level 7	Level 8	Level 9					
3 Phenol*	+++++	1.35601	1.35134	1.27761	1.20601	1.23292		
	1.11003	1.10700	0.94652				1.19843	11.604
4 bis(2-Chloroethyl)ether	1.07293	1.13136	1.08704	1.05225	0.97051	0.97807		
	0.88689	0.90339	0.79716				0.98662	11.097
5 2-Chlorophenol	+++++	0.96027	0.95801	0.93354	0.85972	0.86158		
	0.79031	0.79751	0.71689				0.85973	10.246
6 1,3-Dichlorobenzene	1.06669	1.12510	1.07333	1.02594	0.94355	0.93336		
	0.85601	0.83285	0.75459				0.95683	13.111
9 1,4-Dichlorobenzene*	1.18576	1.16498	1.11004	1.05881	0.95881	0.95622		
	0.88074	0.87248	0.77398				0.99576	14.305
10 Benzyl Alcohol	0.56749	0.58977	0.62986	0.60277	0.56820	0.57398		
	0.55483	0.53985	0.51349				0.57114	6.000
11 1,2-Dichlorobenzene	1.05919	1.05415	1.03996	0.96712	0.89664	0.88250		
	0.80590	0.80415	0.69912				0.91208	14.009

INITIAL CALIBRATION DATA

[illegible]

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD
	80.000	100.000	160.000					
	Level 7	Level 8	Level 9					
23 bis(2-Chloroethoxy)methane	0.50272	0.53186	0.52385	0.53415	0.51631	0.51799		
	0.51855	0.55369	0.55271				0.52798	3.216
24 Benzoic Acid	+++++	+++++	+++++	0.18326	0.19034	0.20159		
	0.21314	0.23330	0.25230				0.21232	12.429
25 2,4-Dichlorophenol*	+++++	0.29632	0.29733	0.30365	0.30033	0.30393		
	0.30207	0.31376	0.32930				0.30584	3.558
26 1,2,4-Trichlorobenzene	0.40376	0.38644	0.37392	0.38193	0.35559	0.36235		
	0.35582	0.37597	0.37835				0.37490	4.136
28 Naphthalene	1.17240	1.17609	1.14054	1.13011	1.08449	1.09862		
	1.10534	1.14349	1.11493				1.12956	2.818
29 4-Chloroaniline	+++++	+++++	0.48046	0.48555	0.46644	0.47870		
	0.47345	0.52805	0.49423				0.48670	4.158
30 Hexachlorobutadiene*	0.18864	0.19394	0.19140	0.19090	0.18523	0.18710		
	0.18440	0.18905	0.19502				0.18952	1.928
150 Benzothiazole	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
32 4-Chloro-3-Methylphenol*	+++++	0.32453	0.33409	0.36107	0.35125	0.36934		
	0.35572	0.39709	0.41617				0.36366	8.403
33 2-Methylnaphthalene	0.75143	0.78315	0.73897	0.76369	0.73629	0.75469		
	0.72793	0.75305	0.76708				0.75292	2.267

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD
	80.000	100.000	160.000					
	Level 7	Level 8	Level 9					
145 1-Methylnaphthalene	0.75507 0.71123	0.75893 0.74838	0.73069 0.72471	0.73882	0.71380	0.72112	0.73364	2.402
35 Hexachlorocyclopentadiene**	+++++ 0.33901	+++++ 0.36415	+++++ 0.37973	0.28998	0.31197	0.33311	0.33633	9.787
36 2,4,6-Trichlorophenol*	+++++ 0.41210	0.36976 0.41661	0.39018 0.42660	0.38792	0.40467	0.41080	0.40233	4.585
37 2,4,5-Trichlorophenol	+++++ 0.41175	0.39410 0.42564	0.39638 0.45061	0.39326	0.39706	0.41123	0.41000	4.865
39 2-Chloronaphthalene	1.30936 1.24409	1.35203 1.32096	1.33332 1.28656	1.25639	1.24055	1.28156	1.29165	3.097
40 2-Nitroaniline	+++++ 0.54674	0.42949 0.56994	0.48218 0.55895	0.50655	0.51155	0.52305	0.51606	8.815
41 Aniline	1.60378 1.35626	1.63492 1.35306	1.59582 1.25210	1.56530	1.45723	1.48536	1.47820	9.073
42 Dimethylphthalate	+++++ 1.42613	1.51461 1.43484	1.54197 1.42226	1.47583	1.42408	1.45998	1.46246	3.101
43 Bicyclo[2.2.1]hepta-2,5-diene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++ <-
44 2,6-Dinitrotoluene	+++++ 0.35734	0.32753 0.34966	0.34140 0.39769	0.34465	0.33747	0.34401	0.34997	6.040

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000	100.000	160.000						
	Level 7	Level 8	Level 9						
45 Acenaphthylene	1.96114	2.04178	2.09494	2.01970	2.04419	2.08016			
	1.97495	1.99727	2.08738				2.03350	2.409	
46 3-Nitroaniline	+++++	+++++	0.35525	0.37416	0.37846	0.38983			
	0.40099	0.38373	0.43011				0.38750	6.068	
149 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
48 Acenaphthene*	1.28252	1.29179	1.29981	1.25397	1.18503	1.24467			
	1.20480	1.26627	1.22428				1.25035	3.164	
49 2,4-Dinitrophenol**	+++++	+++++	+++++	0.09657	0.14621	0.15948			
	0.19893	0.22736	0.24482				0.17890	30.942	
50 4-Nitrophenol**	+++++	+++++	+++++	0.22969	0.25047	0.24117			
	0.26640	0.26088	0.29962				0.25804	9.417	
51 Dibenzofuran	1.78363	1.86821	1.87702	1.78082	1.73249	1.77069			
	1.71982	1.79105	1.77429				1.78867	2.975	
52 2,4-Dinitrotoluene	+++++	0.39997	0.44315	0.45837	0.45300	0.47096			
	0.48459	0.49042	0.49487				0.46192	6.735	
53 1-Chloro-3,4-Dinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
54 2-Methyl-benzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000	100.000	160.000						
	Level 7	Level 8	Level 9						
55 N,N-Dimethyl-benzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
56 Diethylphthalate	+++++	1.63133	1.59704	1.52187	1.52505	1.58558			
	1.51850	1.53905	1.55927				1.55971	2.649	
57 Fluorene	1.51127	1.58322	1.53775	1.45839	1.42788	1.46397			
	1.44654	1.42329	1.50678				1.48434	3.635	
58 4-Chlorophenyl phenyl ether	0.73169	0.70917	0.70987	0.67744	0.68538	0.66744			
	0.65391	0.65166	0.69997				0.68739	3.984	
151 2-Methylthiobenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
59 4-Nitroaniline	+++++	+++++	0.37242	0.38133	0.37577	0.38815			
	0.38489	0.40399	0.43562				0.39174	5.585	
155 2-Aminobenothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
60 4,6-Dinitro-2-methylphenol	+++++	+++++	0.07534	0.10370	0.12206	0.12717			
	0.14246	0.15398	0.15574				0.12578	22.994	
61 N-nitrosodiphenylamine*	+++++	+++++	0.70366	0.68102	0.66199	0.66173			
	0.65266	0.67517	0.69881				0.67644	2.865	
152 2-Hydroxybenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000	100.000	160.000						
	Level 7	Level 8	Level 9						
63 2,4-Dimethylbenzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
64 N,N,4-Trimethylbenzenamine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
65 4-Bromophenyl phenyl ether	0.18910	0.20079	0.20791	0.19965	0.19587	0.19851			
	0.19628	0.19975	0.20168				0.19884	2.551	
66 Hexachlorobenzene	0.21582	0.22942	0.23125	0.22054	0.21422	0.21176			
	0.20836	0.21602	0.21392				0.21792	3.569	
67 Cumene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
144 Carbazole	2.48728	2.82999	2.75089	2.63034	2.40111	2.42353			
	2.31689	2.21003	1.98043				2.44783	10.882	
68 Pentachlorophenol*	+++++	+++++	+++++	0.10141	0.11290	0.11650			
	0.12469	0.13914	0.13938				0.12234	12.339	
69 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
70 Diethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
72 Phenanthrene	1.25806	1.24701	1.23688	1.15537	1.13750	1.15146			
	1.13615	1.13728	1.18816				1.18310	4.307	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
 End Cal Date : 08-JUL-2009 18:29
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msdv.i/08jul09.b/bnap0708.m
 Cal Date : 09-Jul-2009 09:41 rnoonan
 Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000	100.000	160.000						
	Level 7	Level 8	Level 9						
73 Anthracene	1.07797	1.17489	1.19733	1.15845	1.15854	1.14914			
	1.13625	1.17446	1.23640				1.16260	3.727	
74 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
76 3-Methylphenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
78 Di-n-butylphthalate	+++++	1.19087	1.25018	1.26728	1.29330	1.32043			
	1.33768	1.37881	1.35339				1.29899	4.728	
153 2-Mercaptobenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
154 2-Morpholinothiobenzothiazole	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
79 Lindane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
80 Fluoranthene*	1.06703	1.16806	1.18247	1.12829	1.14558	1.13567			
	1.12025	1.11776	1.16690				1.13689	3.051	
81 Pyrene	1.47175	1.58017	1.50133	1.46940	1.39352	1.43315			
	1.38801	1.42842	1.41069				1.45294	4.192	
84 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000	100.000	160.000						
	Level 7	Level 8	Level 9						
85 Butyl benzyl phthalate	+++++	0.52657	0.58319	0.61763	0.65334	0.67045			
	0.69750	0.72680	0.76634				0.65523	11.912	
86 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
87 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
88 Benzo(a)Anthracene	1.09392	1.18874	1.19354	1.20618	1.20231	1.21976			
	1.22411	1.27728	1.29598				1.21131	4.749	
89 3 3'-Dichlorobenzidine	+++++	+++++	+++++	0.42952	0.43853	0.45556			
	0.44618	0.47614	0.48327				0.45487	4.658	
91 Chrysene	1.79464	1.44126	1.29251	1.24613	1.17612	1.20003			
	1.17429	1.21258	1.24273				1.30892	15.254	
92 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
93 bis(2-ethylhexyl)Phthalate	+++++	0.76094	0.81617	0.85521	0.88953	0.92044			
	0.95065	1.01769	1.03301				0.90545	10.458	
94 Di-n-octyl phthalate*	+++++	1.23154	1.43596	1.65492	1.83244	1.82840			
	1.96559	2.12209	2.13007				1.77512	17.988	
95 Benzo(b)fluoranthene	1.20116	1.40463	1.41705	1.57447	1.50363	1.48053			
	1.55495	1.74384	1.59246				1.49697	10.080	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD
	80.000	100.000	160.000					
	Level 7	Level 8	Level 9					
96 Benzo(k)fluoranthene	1.52428	1.70748	1.81312	1.61068	1.65850	1.67785		
	1.58328	1.50445	1.67498				1.63940	5.841
97 Benzo(e)pyrene	1.21473	1.41103	1.42832	1.44216	1.42640	1.42523		
	1.39655	1.46908	1.48688				1.41115	5.578
98 Benzo(a)pyrene*	1.19301	1.46567	1.49762	1.47439	1.48319	1.47541		
	1.47773	1.54484	1.56434				1.46402	7.324
103 Indeno(1,2,3-cd)pyrene	0.92962	1.02839	1.09194	1.23597	1.25878	1.23206		
	1.26398	1.36231	1.48227				1.20948	13.998
104 Dibenzo(a,h)anthracene	0.92024	1.16701	1.22909	1.09256	1.14422	1.15705		
	1.23378	1.37565	1.32557				1.18280	11.256
105 Benzo(g,h,i)perylene	1.17548	1.33027	1.37669	1.38072	1.41974	1.39579		
	1.39713	1.46100	1.48849				1.38059	6.517
106 3,3'-Dimethoxybenzidine	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
139 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
140 Perylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-
143 Coronene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++ <-

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
141 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 1 2-Fluorophenol	+++++	1.20124	1.11339	1.09074	1.00393	1.03325			
	0.94890	0.96130	0.85301				1.02572	10.625	
\$ 2 Phenol-d5	+++++	1.41592	1.30585	1.27416	1.16351	1.18149			
	1.08580	1.10335	0.97934				1.18868	11.685	
\$ 8 13C-Phenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 17 Nitrobenzene-d5	0.56907	0.58345	0.57166	0.58603	0.57735	0.59183			
	0.58395	0.63593	0.64431				0.59373	4.600	
\$ 31 d4-1,4-dibromobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 146 2-Methylnaphthalene-d10	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 34 1-Methylnaphthalene-d10	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 38 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 62 2,4,6-Tribromophenol	+++++	0.22640	0.22046	0.22361	0.22926	0.23773			
	0.23735	0.23914	0.24545				0.23243	3.760	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	50.000 Level 6	RRF	% RSD	
	80.000 Level 7	100.000 Level 8	160.000 Level 9						
\$ 75 13c-Pentachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 77 d10-Anthracene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 82 Terphenyl-d14	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 83 Fluoranthene-d10	0.75802	0.86983	0.88220	0.86314	0.86346	0.87789			
	+++++	+++++	+++++				0.85242	5.499	
\$ 100 Benzo(e)pyrene-d12	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 101 Benzo(a)pyrene-d12	0.62699	0.83374	0.88103	0.90646	0.92862	0.91763			
	+++++	+++++	+++++				0.84908	13.418	
\$ 102 d12-Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 142 1,3,5-Trichlorobenzene-d3	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	<-
\$ 147 Fluorene-d10	1.60216	1.52068	1.47597	1.40524	1.37624	1.44124			
	1.40893	1.42234	1.45133				1.45602	4.763	
\$ 148 Pyrene-d10	1.36818	1.31178	1.25080	1.19854	1.16337	1.18524			
	1.16799	1.19108	1.21371				1.22786	5.703	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Average %RSD Results.	
=====	
Calculated Average %RSD =	7.77475738
Maximun Average %RSD	= 15
* Passed Average %RSD Test.	

Calibration History

Method : /chem/msdv.i/08jul09.b/bnap0708.m
Start Cal Date: 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
08-JUL-2009 14:51	1ng	/chem/msdv.i/08jul09.b/v070804.d
Cal Level: 2 , Cal Amount: 5.00000		
08-JUL-2009 15:18	5ng	/chem/msdv.i/08jul09.b/v070805.d
Cal Level: 3 , Cal Amount: 10.00000		
08-JUL-2009 15:45	10ng	/chem/msdv.i/08jul09.b/v070806.d
Cal Level: 4 , Cal Amount: 20.00000		
08-JUL-2009 16:12	20ng	/chem/msdv.i/08jul09.b/v070807.d
Cal Level: 5 , Cal Amount: 40.00000		
08-JUL-2009 16:40	50ng	/chem/msdv.i/08jul09.b/v070808.d
Cal Level: 6 , Cal Amount: 50.00000		
08-JUL-2009 17:07	50ccv	/chem/msdv.i/08jul09.b/v070809.d
Cal Level: 7 , Cal Amount: 80.00000		
08-JUL-2009 17:34	160ng	/chem/msdv.i/08jul09.b/v070810.d
Cal Level: 8 , Cal Amount: 100.00000		
08-JUL-2009 18:02	160ng	/chem/msdv.i/08jul09.b/v070811.d

```
+-----+-----+-----+
+-----+-----+-----+
| Cal Level: 9 , Cal Amount: 160.00000 |
+=====+
| 08-JUL-2009 18:29 |160ng | /chem/msdv.i/08jul09.b/v070812.d |
+-----+-----+-----+
```

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

```
+-----+-----+-----+
| Ccal Level: 6 , Ccal Amount: 50.00 |
+=====+
| 08-JUL-2009 17:07 |50ccv | /chem/msdv.i/08jul09.b/v070809a.d |
+-----+-----+-----+
| Ccal Level: 6 , Ccal Amount: 50.00 |
+=====+
| 08-JUL-2009 17:07 |50ccv | /chem/msdv.i/08jul09.b/v070809.d |
+-----+-----+-----+
```

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdv.i/08jul09.b/bnap0708.m
Cal Date : 09-Jul-2009 09:41 rnoonan
Curve Type : Average

Second source : V070813

Calibration File Names:

Level 1: /chem/msdv.i/08jul09.b/v070804.d
Level 2: /chem/msdv.i/08jul09.b/v070805.d
Level 3: /chem/msdv.i/08jul09.b/v070806.d
Level 4: /chem/msdv.i/08jul09.b/v070807.d
Level 5: /chem/msdv.i/08jul09.b/v070808.d
Level 6: /chem/msdv.i/08jul09.b/v070809.d
Level 7: /chem/msdv.i/08jul09.b/v070810.d
Level 8: /chem/msdv.i/08jul09.b/v070811.d
Level 9: /chem/msdv.i/08jul09.b/v070812.d

Based on 1ul injection in MeCl₂.

Compound	1.000	5.000	10.000	20.000	40.000	50.000	RRF	% RSD
unit in ug/mL or ng on column	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	80.000	100.000	160.000					
	Level 7	Level 8	Level 9					
3 Phenol*	+++++	1.35601	1.35134	1.27761	1.20601	1.23292		
	1.11003	1.10700	0.94652				1.19843	11.604
4 bis(2-Chloroethyl)ether	1.07293	1.13136	1.08704	1.05225	0.97051	0.97807		
	0.88689	0.90339	0.79716				0.98662	11.097
5 2-Chlorophenol	+++++	0.96027	0.95801	0.93354	0.85972	0.86158		
	0.79031	0.79751	0.71689				0.85973	10.246
6 1,3-Dichlorobenzene	1.06669	1.12510	1.07333	1.02594	0.94355	0.93336		
	0.85601	0.83285	0.75459				0.95683	13.111
9 1,4-Dichlorobenzene*	1.18576	1.16498	1.11004	1.05881	0.95881	0.95622		
	0.88074	0.87248	0.77398				0.99576	14.305
10 Benzyl Alcohol	0.56749	0.58977	0.62986	0.60277	0.56820	0.57398		
	0.55483	0.53985	0.51349				0.57114	6.000
11 1,2-Dichlorobenzene	1.05919	1.05415	1.03996	0.96712	0.89664	0.88250		
	0.80590	0.80415	0.69912				0.91208	14.009

6m
7/9/09

ccc

7/9/09

ccc

Calibration History

Method : /chem/msdv.i/08jul09.b/bnap0708.m
Start Cal Date: 08-JUL-2009 14:51
End Cal Date : 08-JUL-2009 18:29

DFTPP : v070802.d

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
08-JUL-2009 14:51	1ng	/chem/msdv.i/08jul09.b/v070804.d
Cal Level: 2 , Cal Amount: 5.00000		
08-JUL-2009 15:18	5ng	/chem/msdv.i/08jul09.b/v070805.d
Cal Level: 3 , Cal Amount: 10.00000		
08-JUL-2009 15:45	10ng	/chem/msdv.i/08jul09.b/v070806.d
Cal Level: 4 , Cal Amount: 20.00000		
08-JUL-2009 16:12	20ng	/chem/msdv.i/08jul09.b/v070807.d
Cal Level: 5 , Cal Amount: 40.00000		
08-JUL-2009 16:40	50ng	/chem/msdv.i/08jul09.b/v070808.d
Cal Level: 6 , Cal Amount: 50.00000		
08-JUL-2009 17:07	50ccv	/chem/msdv.i/08jul09.b/v070809.d
Cal Level: 7 , Cal Amount: 80.00000		
08-JUL-2009 17:34	160ng	/chem/msdv.i/08jul09.b/v070810.d
Cal Level: 8 , Cal Amount: 100.00000		
08-JUL-2009 18:02	160ng	/chem/msdv.i/08jul09.b/v070811.d

```
+-----+-----+-----+-----+
| Cal Level: 9 , Cal Amount: 160.00000 |
+=====+=====+=====+=====+
| 08-JUL-2009 18:29 |160ng |/chem/msdv.i/08jul09.b/v070812.d |
+-----+-----+-----+-----+
```

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

```
+-----+-----+-----+-----+
| Ccal Level: 6 , Ccal Amount: 50.00 |
+=====+=====+=====+=====+
| 08-JUL-2009 17:07 |50ccv |/chem/msdv.i/08jul09.b/v070809a.d |
+-----+-----+-----+-----+
| Ccal Level: 6 , Ccal Amount: 50.00 |
+=====+=====+=====+=====+
| 08-JUL-2009 17:07 |50ccv |/chem/msdv.i/08jul09.b/v070809.d |
+-----+-----+-----+-----+
```

MSD-V Run Log

@Air Toxics Ltd.

Logbook#: 1737

Method: T013

m/z ION ABUNDANCE CRITERIA

% RELATIVE ABUNDANCE

198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.88
68	Less than 2.00% of mass 69	0.72 (1.36) 1
69	Less than 99.90% of mass 198	52.52
70	Less than 2.00% of mass 69	0.00 (0.00) 1
127	40.00 - 60.00% of mass 198	54.14
197	Less than 1.00% of mass 198	0.68
199	5.00 - 9.00% of mass 198	6.55
275	10.00 - 30.00% of mass 198	22.58
365	Greater than 1.00% of mass 198	3.05
441	Present, but less than mass 443	10.30
442	40.00 - 100.00% of mass 198	70.80
443	17.00 - 23.00% of mass 442	13.43 (18.95) 2

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Instrument ID: MSD-V

DFTPP File ID: V070802DFTPP Injection Date: 7/8/09DFTPP Injection Time 1351

#	IS	Area Counts
1,4-Dichlorobenzene-d ₄ :		94232
Naphthalene-d ₈ :		209681
Acenaphthene-d ₁₀ :		114283
Phenanthrene-d ₁₀ :		221485
Chrysene-d ₁₂ :		186936
Perylene-d ₁₂ :		149026

Injection Volume: 1.0 µL

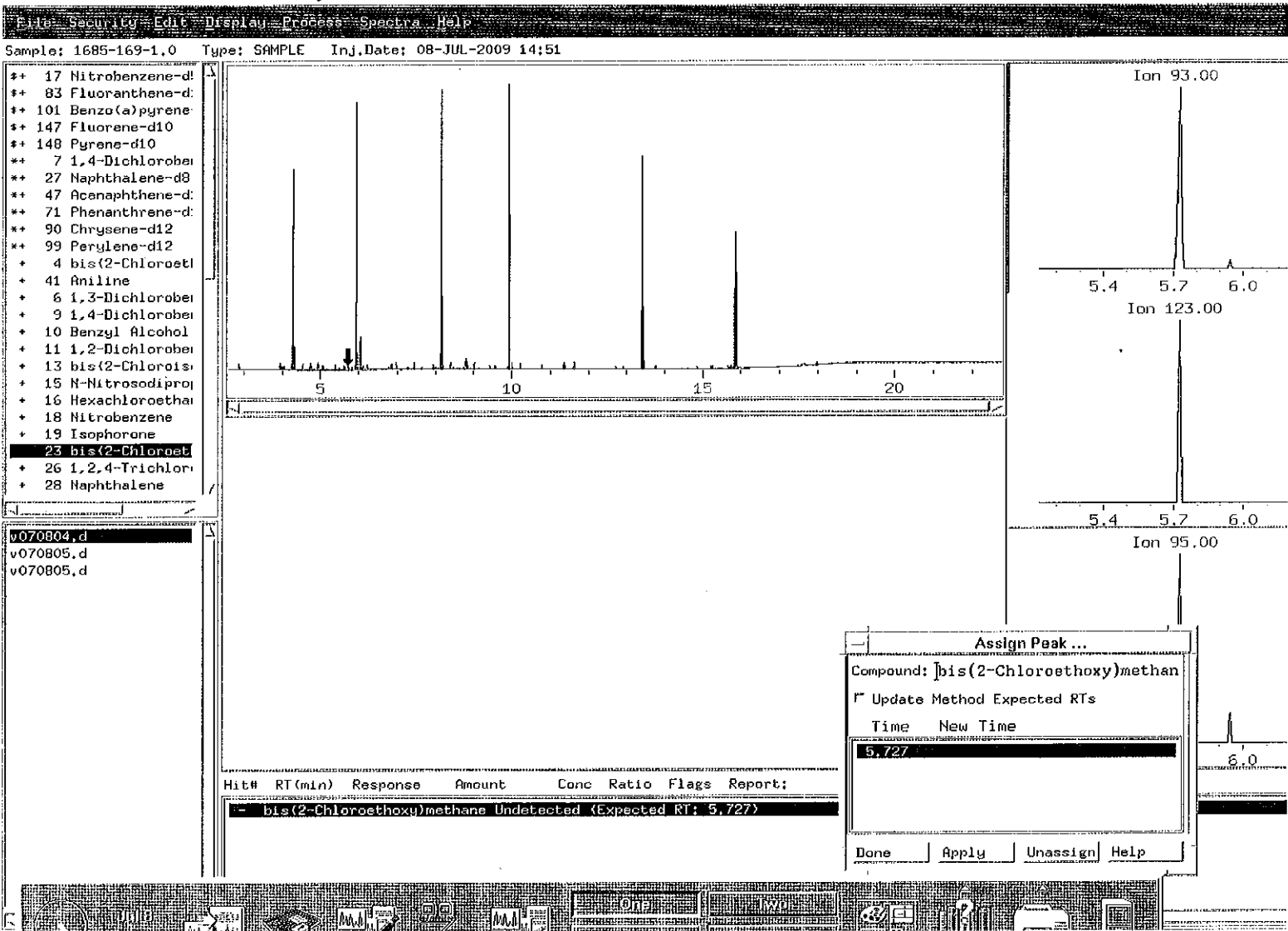
U S E	File #	Sample / Client Name	Vial #	Dilution Factor	Date Analyzed	Time Analyzed	Initials	Comments
1	✓ V070801	Dem Wash	1	1.0	7/8/09	1335	ren/w	
2	✓ 02	1685-100-50	2			1351		0.58% Breakdown
3	✓ 03	Dem Blank	3			1423		
4	✓ 04	1685-169-1.0	4			1451		Level 1
5	✓ 05	-5.6	5			1518		Level 2
6	✓ 06	-16	6			1545		Level 3 ^{run 7/9/09}
7	✓ 07	-20	7			1612		Level 4
8	✓ 08	-40	8			1640		Level 5
9	✓ 09	-50	9			1707		Level 6, CCV
10	✓ 10	1685-168A-80	10			1734		Level 7: 1685-168A-80
11	✓ 11	1685-168A-100	11			1802		Level 8: 1685-168A-100
12	✓ 12	1685-168-160	12			1829		Level 9: 1685-168-160
13	✓ 13	1685-155-50	13			1856		LCS
14	✓ 14	Dem Blank	14			1923		
15	✓ 15	0906030B 0906031B - Blank	15			1957		
16	✓ 16	↓ -LCS	16			2018		
17	✓ 17	0906030B-OSA	17			2045		
18	✓ 18	↓ -OSA	18			2112		
19	✓ 19	0906031B-OSA	19			2139		
20	✓ 20	↓ -OSA	20			2206		
21	✓ 21	0907077B-Blank	21			2233		
22	✓ 22	↓ -LCS	22			2300		
23	✓ 23	↓ -OSA	23			2328		

Calculation Check:

$$\text{ng of compound} = \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(145226)}{(94232)} \times \frac{(40.0)}{(1.19843)} = 51.44$$

File ID: V070809Compound: PhenolInitials: ren

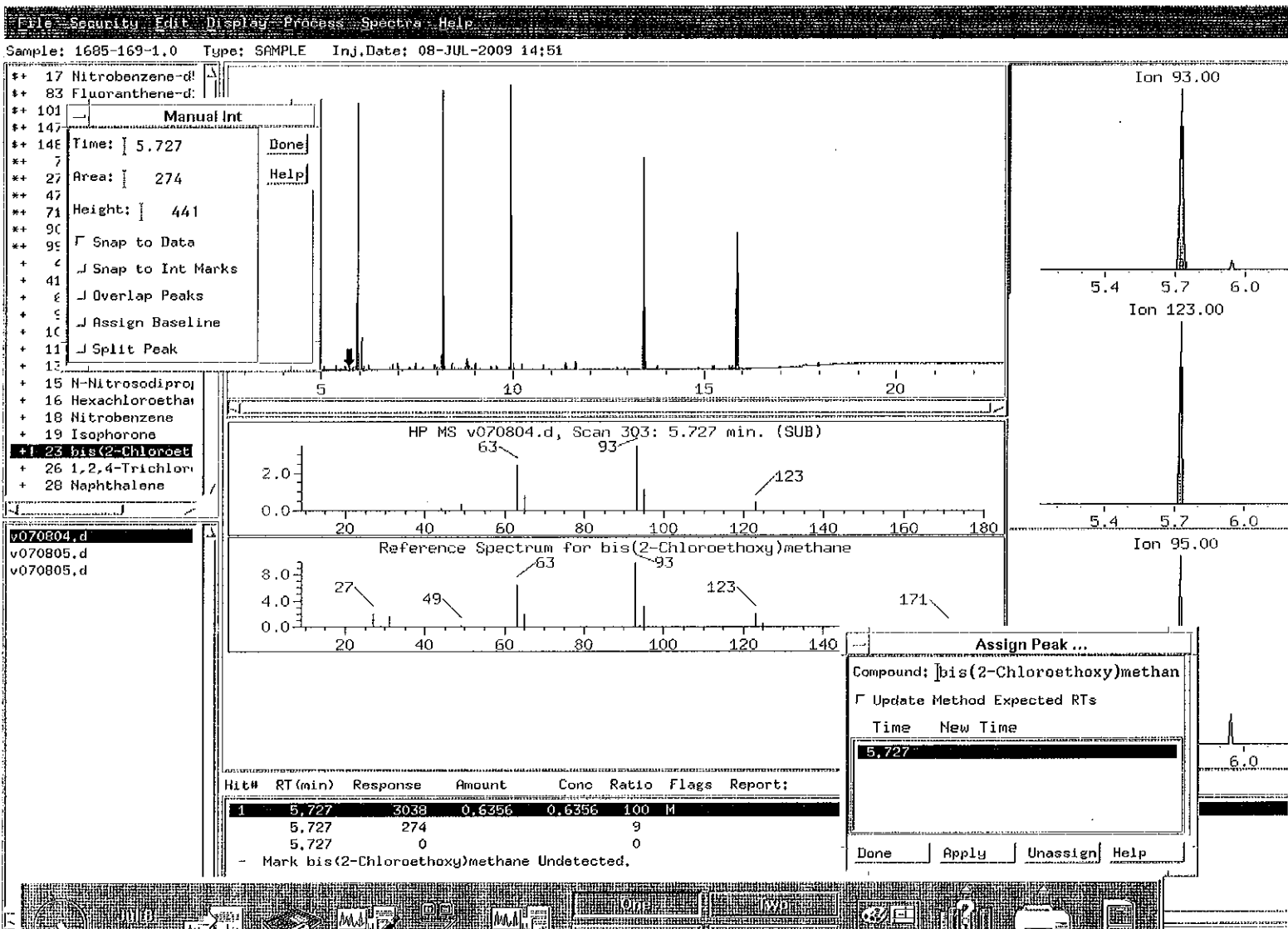
Before: Peak not integrated on 7/8/09



After

on 7/8/09

Correct Baseline	na
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	✓



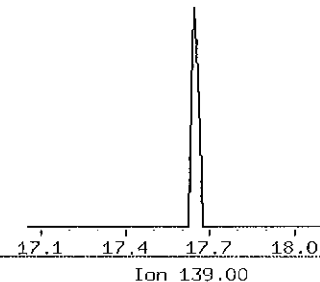
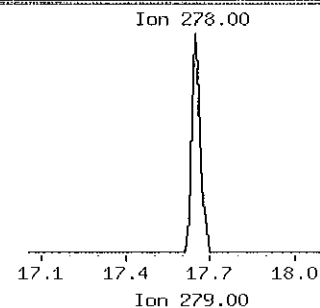
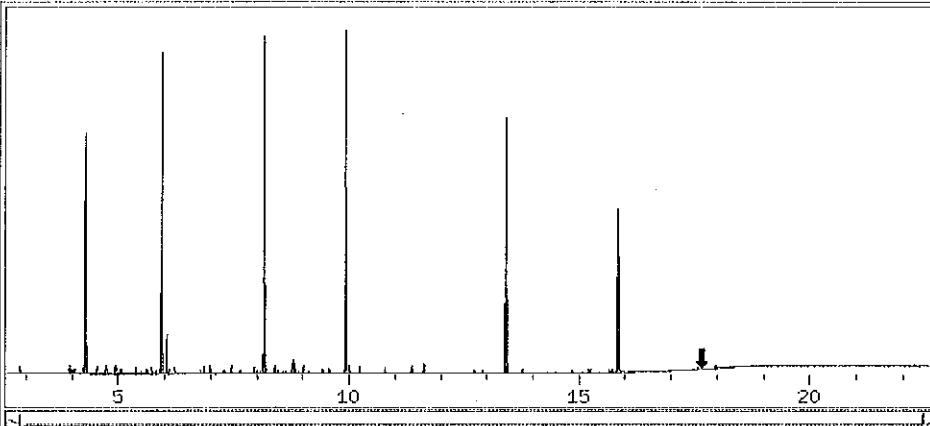
on 7/8/09

Before: Peak not integrated on 7/8/09

File Security Edit Display Process Spectra Help

Sample: 1685-169-1.0 Type: SAMPLE Inj.Date: 08-JUL-2009 14:51

- + 28 Naphthalene
- + 30 Hexachlorobuta
- + 33 2-Methylnaphth.
- + 145 1-Methylnaphth.
- + 39 2-Chloronaphth.
- + 45 Acenaphthylene
- + 48 Acenaphthene*
- + 51 Dibenzofuran
- + 57 Fluorene
- + 58 4-Chlorophenyl
- + 65 4-Bromophenyl
- + 66 Hexachlorobenz
- + 144 Carbazole
- + 72 Phenanthrene
- + 73 Anthracene
- + 80 Fluoranthene*
- + 81 Pyrene
- + 88 Benzo(a)Anthra
- + 91 Chrysene
- + 95 Benzo(b)fluora
- + 96 Benzo(k)fluora
- + 97 Benzo(e)pyrene
- + 98 Benzo(a)pyrene
- + 103 Indeno(1,2,3-c
- 104 Dibenzo(a,h)an**



v070804.d
v070805.d
v070805.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
------	---------	----------	--------	------	-------	-------	---------

-	Dibenzo(a,h)anthracene	Undetected	(Expected RT: 17.655)				
---	------------------------	------------	-----------------------	--	--	--	--

Assign Peak ...

Compound: Dibenzo(a,h)anthracene

Update Method Expected RTs

Time	New Time
------	----------

17.655	
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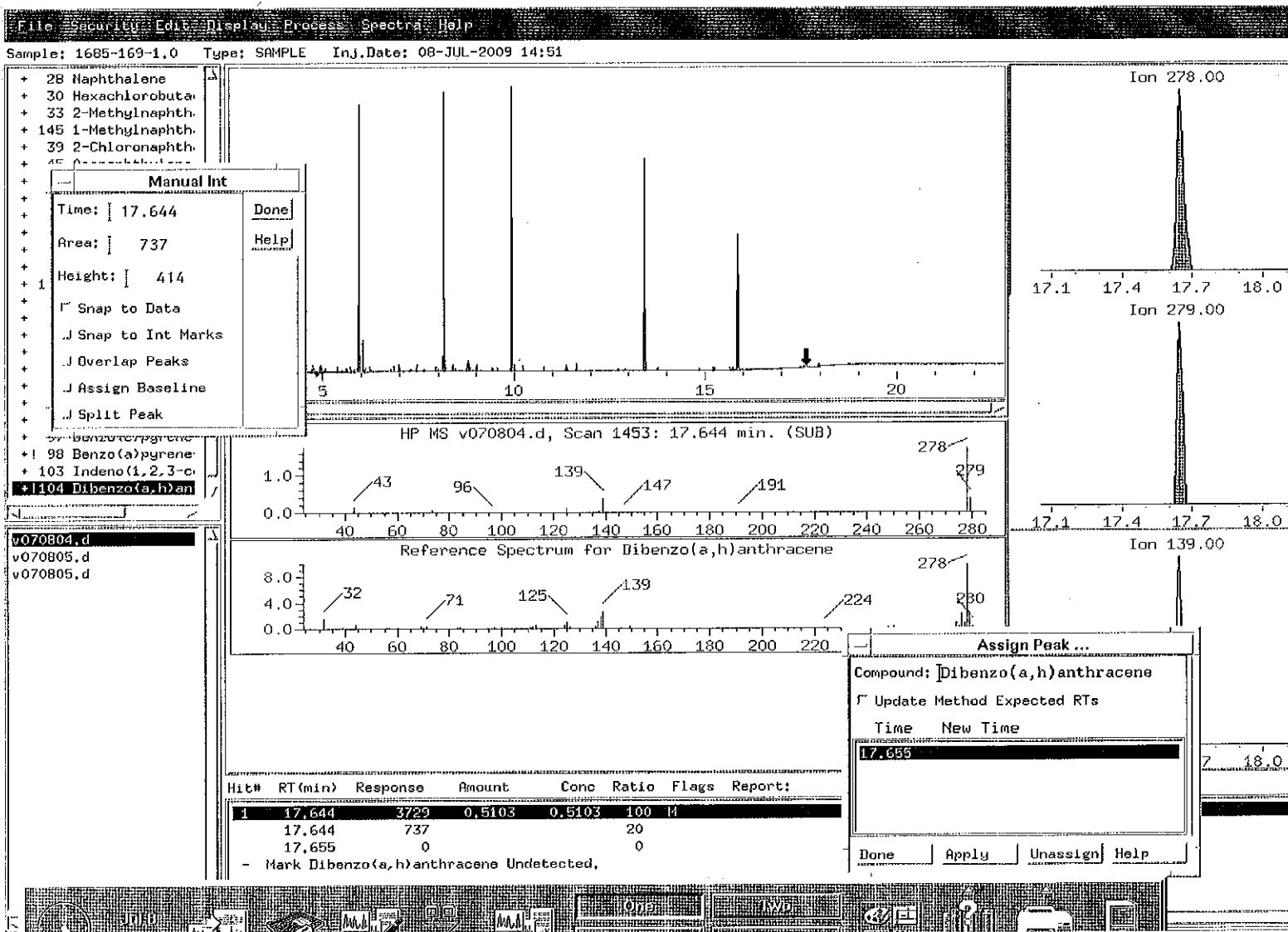
17.6 18.0

Done Apply Unassign Help

After

mon 7/8/09

Correct Baseline	na
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	
Corrected Peak Integration	



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070813.d

Lab Smp Id: 1685-155-50

Client Smp ID: LCS

Inj Date : 08-JUL-2009 18:56

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-155-50;LCS

Misc Info : ,NOTICS

Comment :

Method : /chem/msdv.i/08jul09.b/bnap0708.m

Meth Date : 09-Jul-2009 09:24 rnoonan

Quant Type: ISTD

Cal Date : 08-JUL-2009 18:29

Cal File: v070812.d

Als bottle: 13

QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: second.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	(ng)	FINAL	(ug)
=====	=====	==	=====	=====	=====	=====	=====	=====	=====
3 Phenol*	94	3.975	3.976	(0.927)	165622	46.2012		46.20	
41 Aniline	93	3.934	3.934	(0.918)	212286	48.0103		48.01	
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	136113	46.1206		46.12	
5 2-Chlorophenol	128	4.069	4.069	(0.949)	118552	46.0993		46.10	
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	138288	48.3169		48.32	
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	119650	40.0000			
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	139411	46.8048		46.80	
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	82750	48.4366		48.44	
11 1,2-Dichlorobenzene	146	4.545	4.546	(1.060)	133733	49.0176		49.02	
12 2-Methylphenol	108	4.732	4.742	(1.104)	111300	46.0722		46.07	
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	199321	44.2709		44.27	
14 4-Methylphenol	108	4.939	4.939	(1.152)	119397	47.2196		47.22	
15 N-Nitrosodipropylamine**	70	4.918	4.919	(1.147)	105072	46.2425		46.24	

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	ON-COLUMN	FINAL	
					(ng)	(ug)	
=====	=====	==	=====	=====	=====	=====	=====
16 Hexachloroethane	117	4.939	4.939	(1.152)	60427	49.0278	49.03
18 Nitrobenzene	77	5.074	5.074	(0.854)	174308	50.1980	50.20
19 Isophorone	82	5.395	5.385	(0.908)	293197	49.2835	49.28
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	64417	48.5549	48.55
21 2,4-Dimethylphenol	122	5.623	5.623	(0.946)	99197	45.5403	45.54
24 Benzoic Acid	122	5.830	5.820	(0.981)	66999	48.3868	48.39
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	155139	45.0564	45.06
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	93533	46.8954	46.90
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	115176	47.1082	47.11
* 27 Naphthalene-d8	136	5.944	5.945	(1.000)	260859	40.0000	
28 Naphthalene	128	5.965	5.965	(1.003)	333376	45.2565	45.26
29 4-Chloroaniline	127	6.100	6.100	(1.026)	148717	46.8551	46.86
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	59481	48.1255	48.12
32 4-Chloro-3-Methylphenol*	107	6.773	6.774	(1.139)	106932	45.0887	45.09
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	229100	46.6585	46.66
145 1-Methylnaphthalene	142	6.991	6.981	(1.176)	218560	45.6817	45.68
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.878)	64364	53.6459	53.64
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.892)	69587	48.4841	48.48
37 2,4,5-Trichlorophenol	196	7.312	7.312	(0.897)	70249	48.0294	48.03
39 2-Chloronaphthalene	162	7.447	7.447	(0.914)	230839	50.0979	50.10
40 2-Nitroaniline	65	7.644	7.644	(0.938)	90127	48.9568	48.96
42 Dimethylphthalate	163	7.944	7.945	(0.975)	240362	46.0718	46.07
44 2,6-Dinitrotoluene	165	8.007	8.007	(0.982)	59803	47.9015	47.90
45 Acenaphthylene	152	7.965	7.965	(0.977)	353777	48.7685	48.77
46 3-Nitroaniline	138	8.162	8.162	(1.001)	65415	47.3212	47.32
* 47 Acenaphthene-d10	164	8.152	8.162	(1.000)	142694	40.0000	
48 Acenaphthene*	154	8.193	8.193	(1.005)	203245	45.5662	45.57
49 2,4-Dinitrophenol**	184	8.286	8.287	(1.017)	26840	42.0570	42.06
50 4-Nitrophenol**	109	8.432	8.432	(1.034)	42805	46.5013	46.50
51 Dibenzofuran	168	8.390	8.390	(1.029)	293368	45.9766	45.98
52 2,4-Dinitrotoluene	165	8.473	8.473	(1.039)	83036	50.3915	50.39
56 Diethylphthalate	149	8.825	8.825	(1.083)	264299	47.5013	47.50
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.085)	111648	45.5302	45.53
57 Fluorene	166	8.805	8.805	(1.080)	239666	45.2612	45.26
59 4-Nitroaniline	138	8.908	8.908	(1.093)	66456	47.5547	47.55
60 4,6-Dinitro-2-methylphenol	198	8.960	8.960	(0.903)	40857	48.5417	48.54
61 N-nitrosodiphenylamine*	169	9.002	9.002	(0.907)	172874	38.1905	38.19
65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	64567	48.5248	48.52
66 Hexachlorobenzene	284	9.571	9.572	(0.964)	72963	50.0322	50.03
68 Pentachlorophenol*	266	9.799	9.800	(0.987)	36512	44.5988	44.60
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	267675	40.0000	
72 Phenanthrene	178	9.955	9.955	(1.003)	368760	46.5775	46.58(H)
73 Anthracene	178	10.007	10.007	(1.008)	376528	48.3970	48.40
144 Carbazole	167	10.224	10.224	(2.385)	354655	48.4364	48.44
78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	420979	48.4291	48.43
80 Fluoranthene*	202	11.385	11.385	(1.147)	375393	49.3424	49.34
81 Pyrene	202	11.644	11.655	(0.867)	380887	46.2796	46.28

Compounds	QUANT	SIG						CONCENTRATIONS	
			ON-COLUMN	FINAL				(ng)	(ug)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	182554	49.1857	49.18		
89 3 3'-Dichlorobenzidine	252	13.447	13.447	(1.002)	114683	44.5096	44.51		
88 Benzo(a)Anthracene	228	13.395	13.396	(0.998)	314241	45.7980	45.80		
* 90 Chrysene-d12	240	13.427	13.427	(1.000)	226579	40.0000			
91 Chrysene	228	13.468	13.468	(1.003)	327034	44.1082	44.11		
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.025)	252801	49.2893	49.29		
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	403230	52.2756	52.28		
95 Benzo(b)fluoranthene	252	15.219	15.219	(0.960)	312831	48.0920	48.09		
96 Benzo(k)fluoranthene	252	15.271	15.261	(0.963)	360829	50.6514	50.65		
97 Benzo(e)pyrene	252	15.675	15.675	(0.989)	298766	48.7227	48.72		
98 Benzo(a)pyrene*	252	15.675	15.758	(0.989)	299279	47.0439	47.04		
* 99 Perylene-d12	264	15.851	15.852	(1.000)	173814	40.0000			
103 Indeno(1,2,3-cd)pyrene	276	17.603	17.603	(1.110)	258699	49.2233	49.22		
104 Dibenzo(a,h)anthracene	278	17.655	17.655	(1.114)	243157	47.3099	47.31		
105 Benzo(g,h,i)perylene	276	17.986	17.986	(1.135)	292581	48.7704	48.77		

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 09-Jul-2009 09:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARYInstrument ID: msdv.i
Lab File ID: v070813.d
Lab Smp Id: 1685-155-50

Analysis Type: SV

Quant Type: ISTD

Operator: rn

Method File: /chem/msdv.i/08jul09.b/bnap0708.m

Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009

Calibration Time: 17:07

Client Smp ID: LCS

Level: LOW

Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	94232	47116	188464	119650	26.97
27 Naphthalene-d8	209681	104840	419362	260859	24.41
47 Acenaphthene-d10	114283	57142	228566	142694	24.86
71 Phenanthrene-d10	221485	110742	442970	267675	20.85
90 Chrysene-d12	186936	93468	373872	226579	21.21
99 Perylene-d12	149026	74513	298052	173814	16.63

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.16	7.66	8.66	8.15	-0.13
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.43	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 09-Jul-2009 09:25

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 08jul09
Sample Matrix: GAS	Fraction: SV
Lab Smp Id: 1685-155-50	Client Smp ID: LCS
Level: LOW	Operator: rn
Data Type: MS DATA	SampleType: LCS
SpikeList File: 8270sec.spk	Quant Type: ISTD
Sublist File: second.sub	
Method File: /chem/msdv.i/08jul09.b/bnap0708.m	
Misc Info: ,NOTICS	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
3 Phenol*	50.00	46.20	92.40	70-130
4 bis(2-Chloroethyl)	50.00	46.12	92.24	70-130
5 2-Chlorophenol	50.00	46.10	92.20	70-130
6 1,3-Dichlorobenzen	50.00	48.32	96.63	70-130
9 1,4-Dichlorobenzen	50.00	46.80	93.61	70-130
10 Benzyl Alcohol	50.00	48.44	96.87	70-130
11 1,2-Dichlorobenzen	50.00	49.02	98.04	70-130
12 2-Methylphenol	50.00	46.07	92.14	70-130
13 bis(2-Chloroisopro	50.00	44.27	88.54	70-130
14 4-Methylphenol	50.00	47.22	94.44	70-130
15 N-Nitrosodipropyla	50.00	46.24	92.48	70-130
16 Hexachloroethane	50.00	49.03	98.06	70-130
18 Nitrobenzene	50.00	50.20	100.40	70-130
19 Isophorone	50.00	49.28	98.57	70-130
20 2-Nitrophenol*	50.00	48.55	97.11	70-130
21 2,4-Dimethylphenol	50.00	45.54	91.08	70-130
23 bis(2-Chloroethoxy	50.00	45.06	90.11	70-130
24 Benzoic Acid	50.00	48.39	96.77	70-130
25 2,4-Dichlorophenol	50.00	46.90	93.79	70-130
26 1,2,4-Trichloroben	50.00	47.11	94.22	70-130
28 Naphthalene	50.00	45.26	90.51	70-130
29 4-Chloroaniline	50.00	46.86	93.71	70-130
30 Hexachlorobutadien	50.00	48.12	96.25	70-130
32 4-Chloro-3-Methylp	50.00	45.09	90.18	70-130
33 2-Methylnaphthalen	50.00	46.66	93.32	70-130
145 1-Methylnaphthalen	50.00	45.68	91.36	70-130
35 Hexachlorocyclop	50.00	53.64	107.29	70-130
36 2,4,6-Trichlorophe	50.00	48.48	96.97	70-130
37 2,4,5-Trichlorophe	50.00	48.03	96.06	70-130
39 2-Chloronaphthalen	50.00	50.10	100.20	70-130
40 2-Nitroaniline	50.00	48.96	97.91	70-130
46 3-Nitroaniline	50.00	47.32	94.64	70-130
42 Dimethylphthalate	50.00	46.07	92.14	70-130

Report Date: 09-Jul-2009 09:25

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
44 2,6-Dinitrotoluene	50.00	47.90	95.80	70-130
45 Acenaphthylene	50.00	48.77	97.54	70-130
48 Acenaphthene*	50.00	45.57	91.13	70-130
49 2,4-Dinitrophenol*	50.00	42.06	84.11	70-130
50 4-Nitrophenol**	50.00	46.50	93.00	70-130
52 2,4-Dinitrotoluene	50.00	50.39	100.78	70-130
51 Dibenzofuran	50.00	45.98	91.95	70-130
56 Diethylphthalate	50.00	47.50	95.00	70-130
57 Fluorene	50.00	45.26	90.52	70-130
58 4-Chlorophenyl phe	50.00	45.53	91.06	70-130
59 4-Nitroaniline	50.00	47.55	95.11	70-130
60 4,6-Dinitro-2-meth	50.00	48.54	97.08	70-130
61 N-nitrosodiphenyla	50.00	38.19	76.38	70-130
65 4-Bromophenyl phen	50.00	48.52	97.05	70-130
66 Hexachlorobenzene	50.00	50.03	100.06	70-130
144 Carbazole	50.00	48.44	96.87	70-130
68 Pentachlorophenol*	50.00	44.60	89.20	70-130
72 Phenanthrene	50.00	46.58	93.15	70-130
73 Anthracene	50.00	48.40	96.79	70-130
78 Di-n-butylphthalat	50.00	48.43	96.86	70-130
80 Fluoranthene*	50.00	49.34	98.68	70-130
81 Pyrene	50.00	46.28	92.56	70-130
85 Butyl benzyl phtha	50.00	49.18	98.37	70-130
89 3 3'-Dichlorobenzi	50.00	44.51	89.02	70-130
88 Benzo(a)Anthracene	50.00	45.80	91.60	70-130
91 Chrysene	50.00	44.11	88.22	70-130
93 bis(2-ethylhexyl)P	50.00	49.29	98.58	70-130
94 Di-n-octyl phthala	50.00	52.28	104.55	70-130
95 Benzo(b)fluoranth	50.00	48.09	96.18	70-130
96 Benzo(k)fluoranth	50.00	50.65	101.30	70-130
97 Benzo(e)pyrene	50.00	48.72	97.45	70-130
98 Benzo(a)pyrene*	50.00	47.04	94.09	70-130
103 Indeno(1,2,3-cd)py	50.00	49.22	98.45	70-130
104 Dibenzo(a,h)anthra	50.00	47.31	94.62	70-130
105 Benzo(g,h,i)peryle	50.00	48.77	97.54	70-130

Date : 08-JUL-2009 18:56

Client ID: LCS

Sample Info: #1685-155-50;LCS

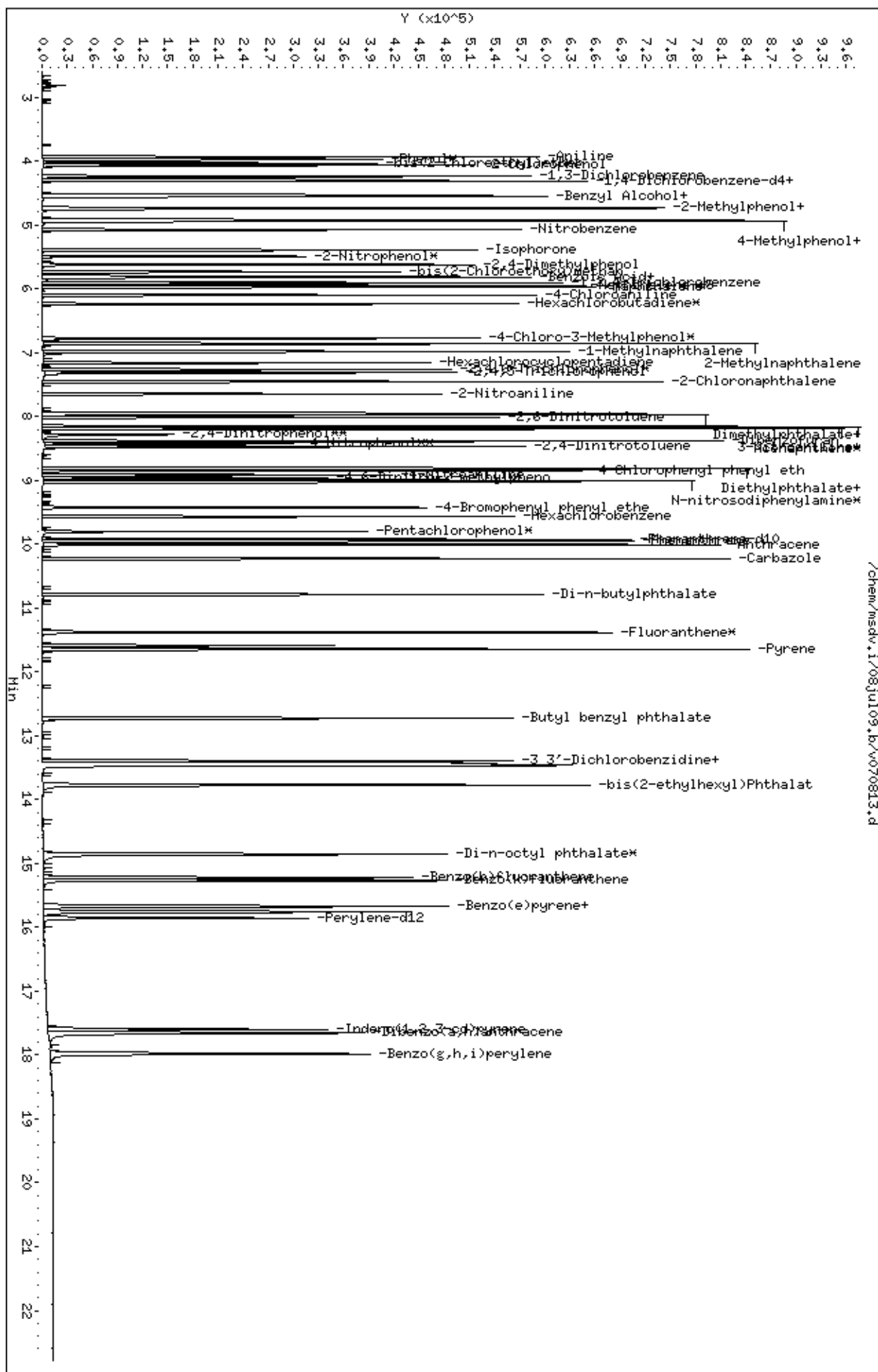
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdw,i

Operator: m

Column diameter: 0.25



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

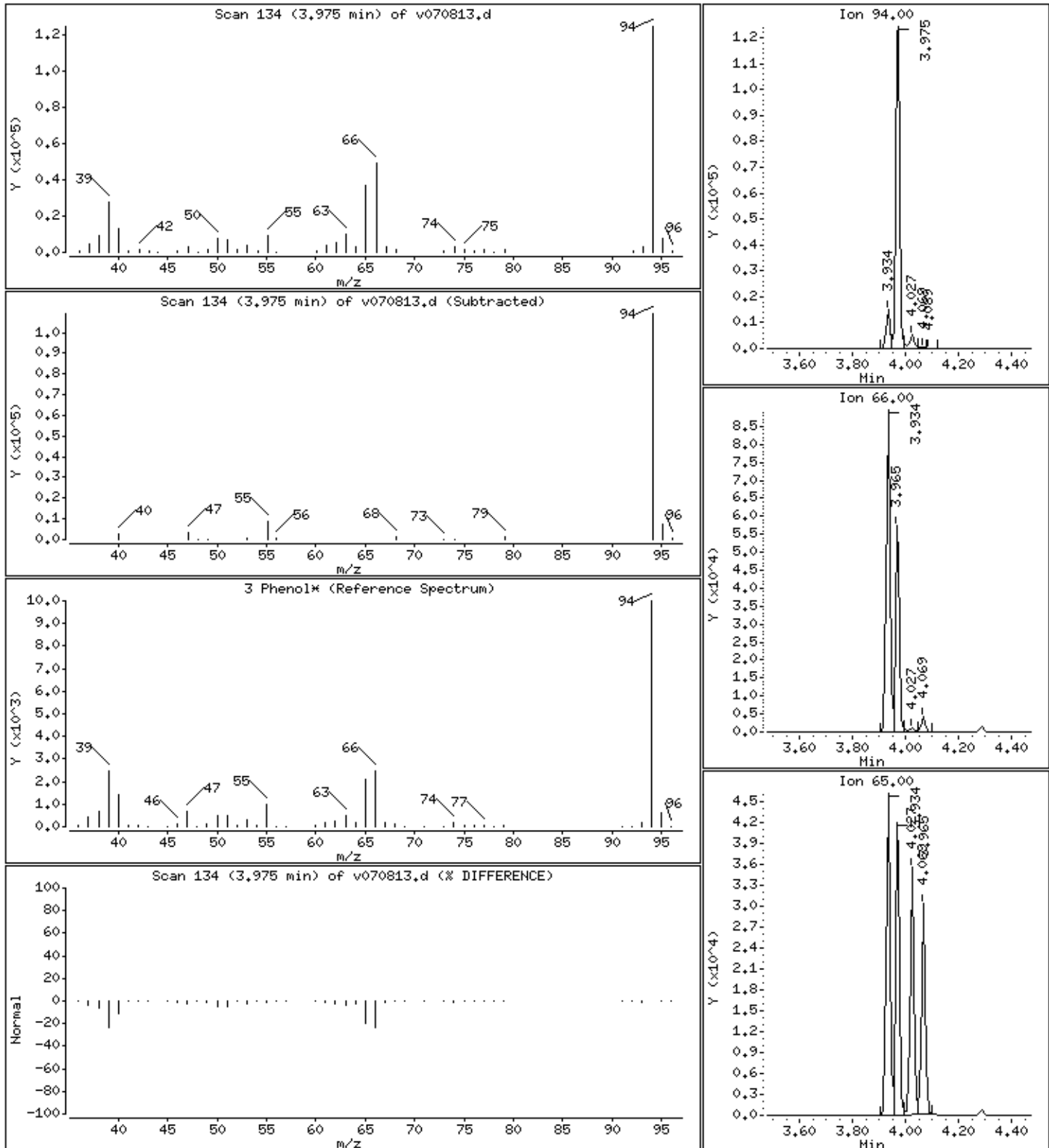
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

3 Phenol*

Concentration: 46.20 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

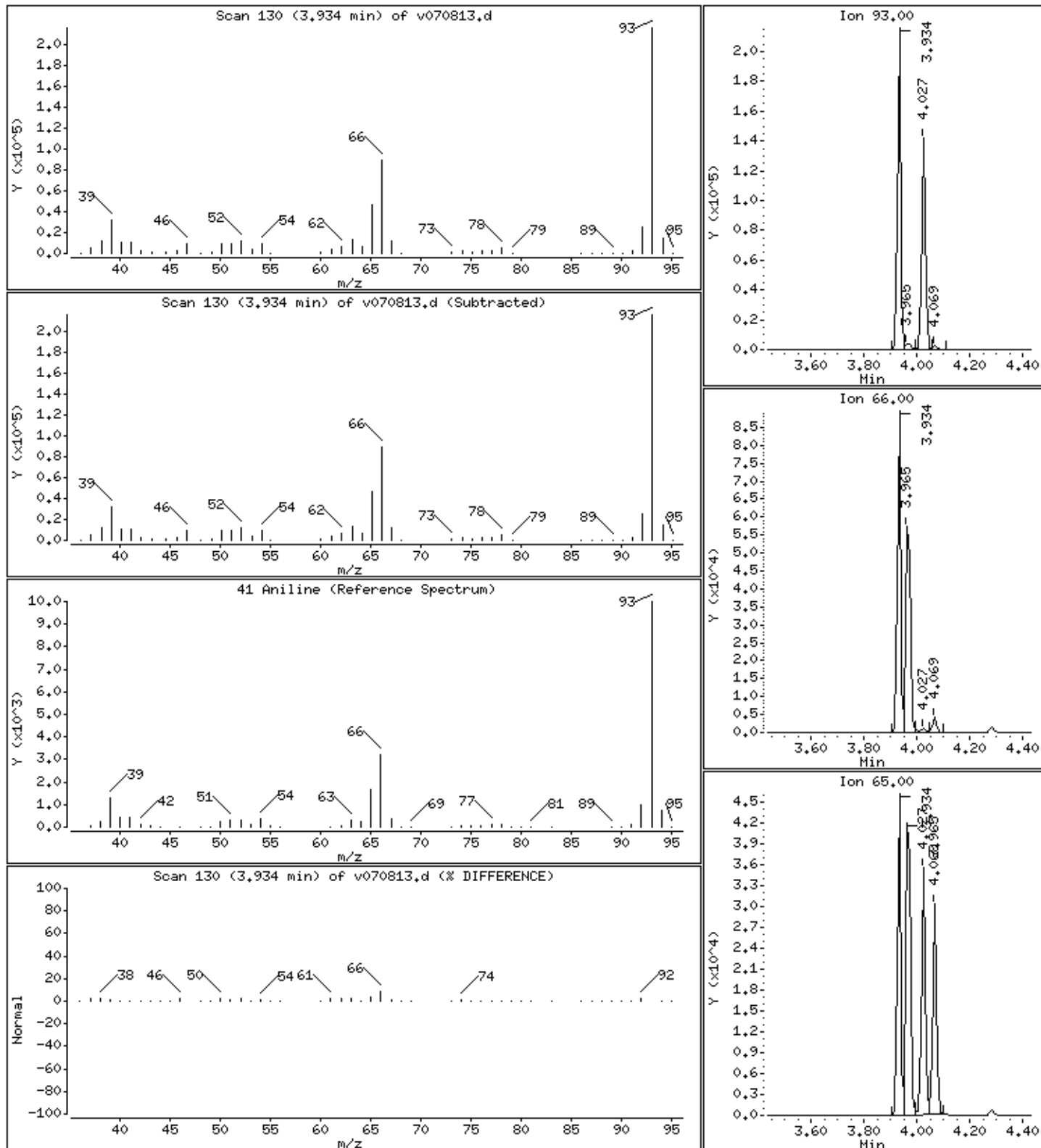
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

41 Aniline

Concentration: 48.01 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

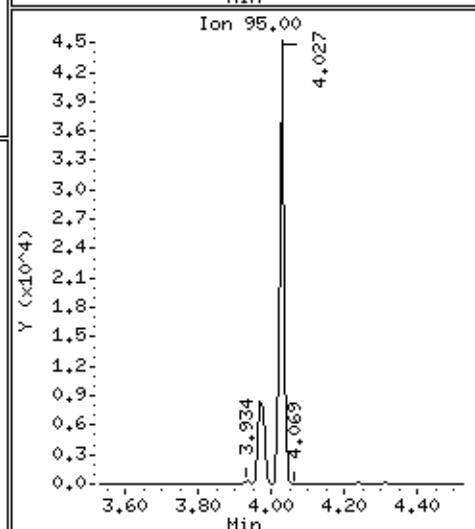
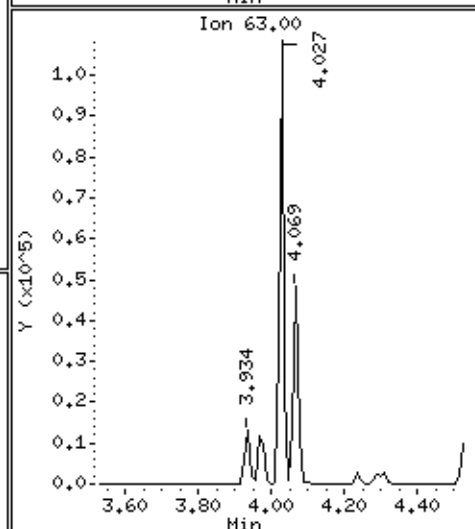
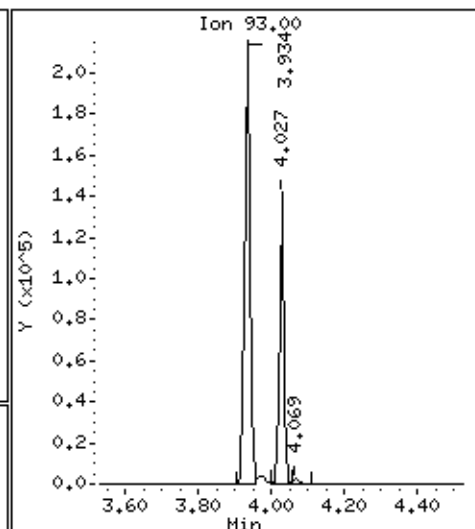
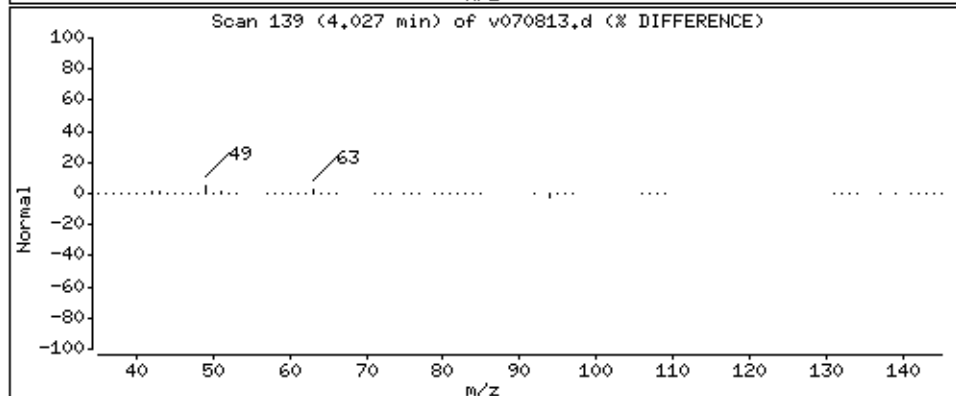
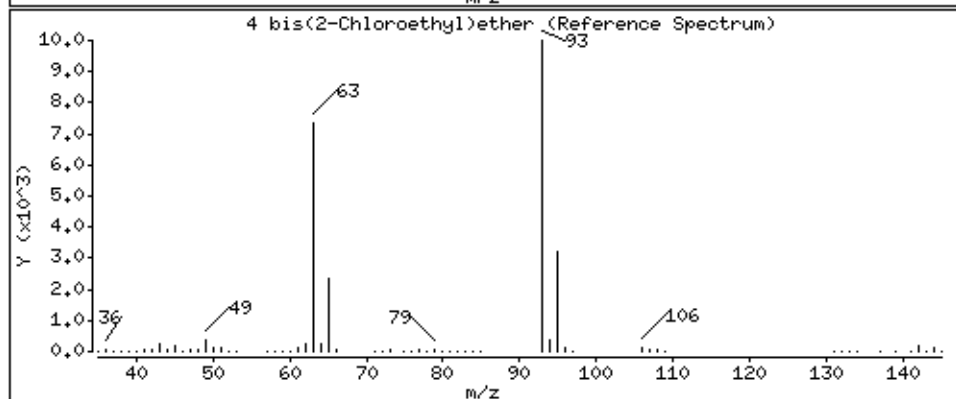
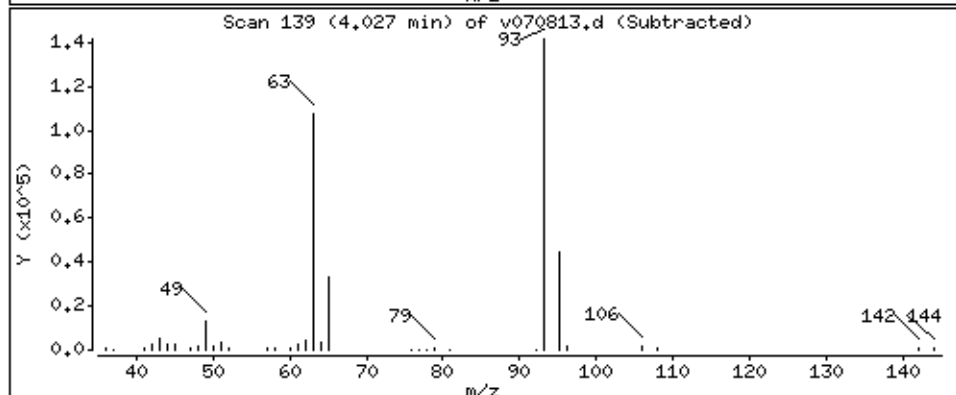
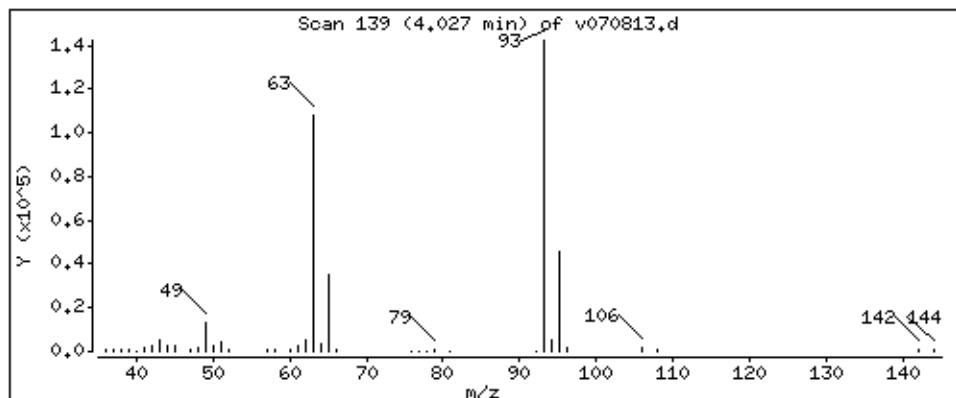
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

4 bis(2-Chloroethyl)ether

Concentration: 46.12 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

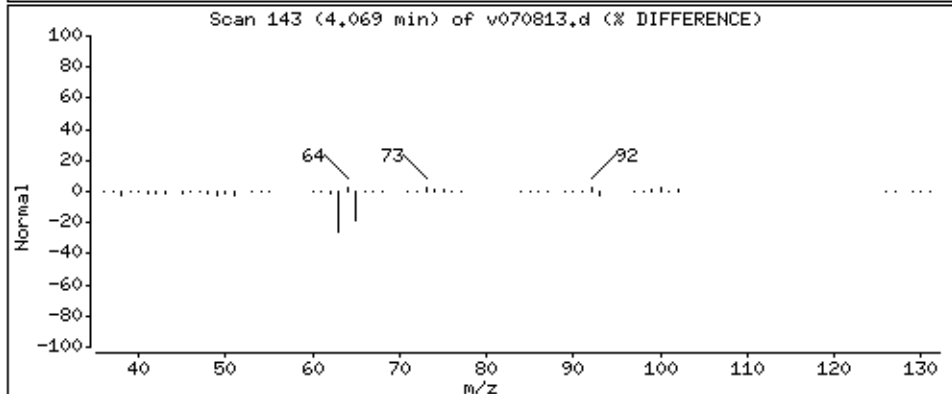
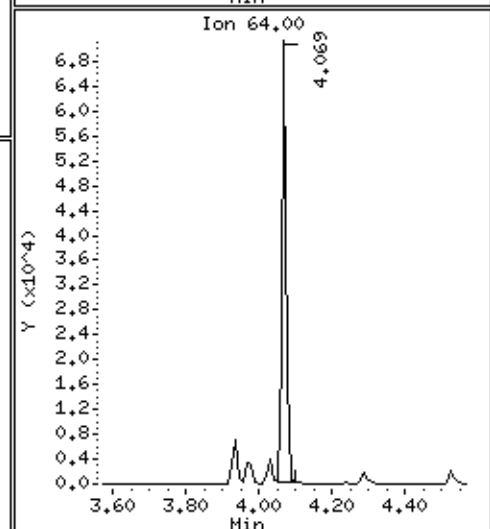
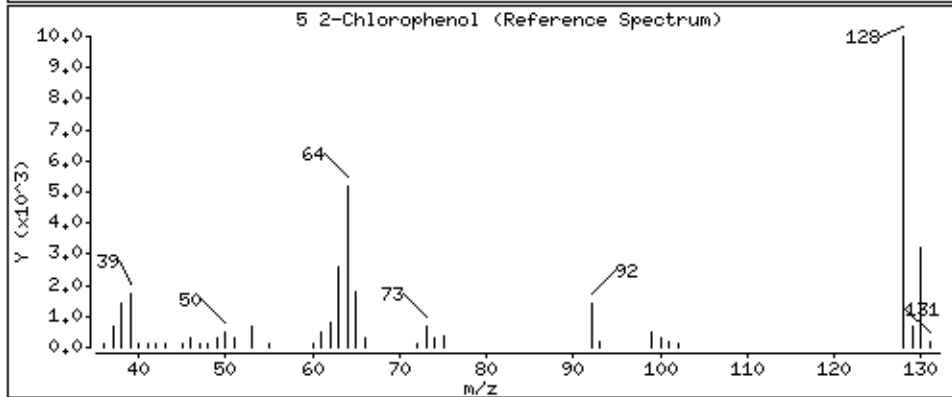
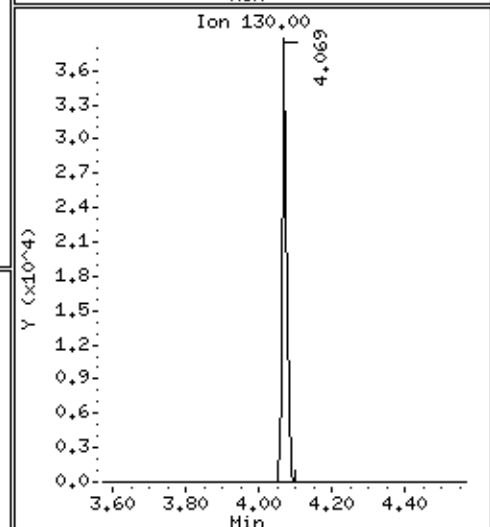
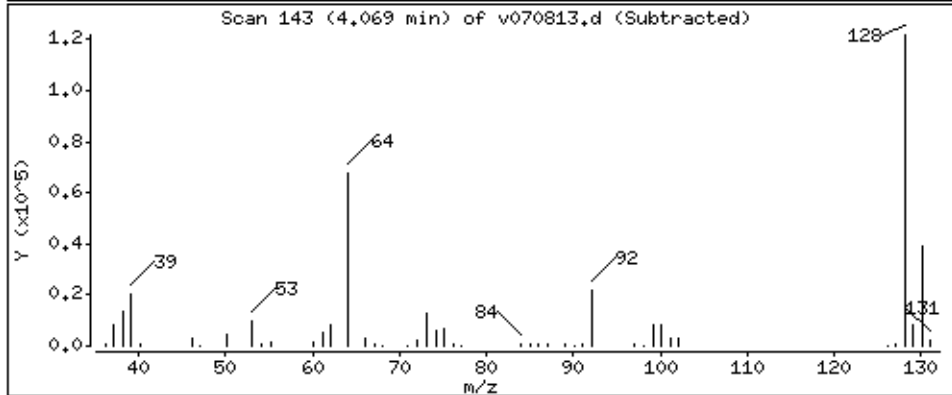
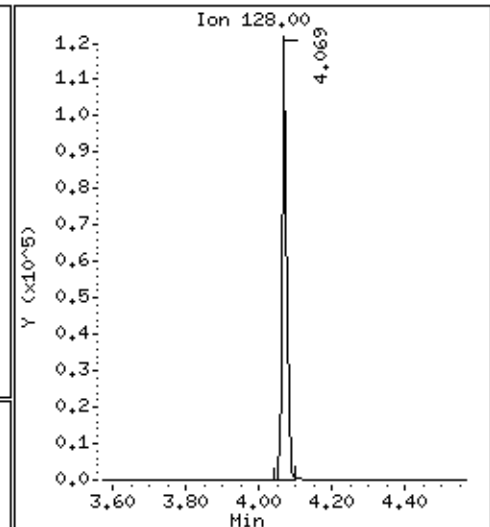
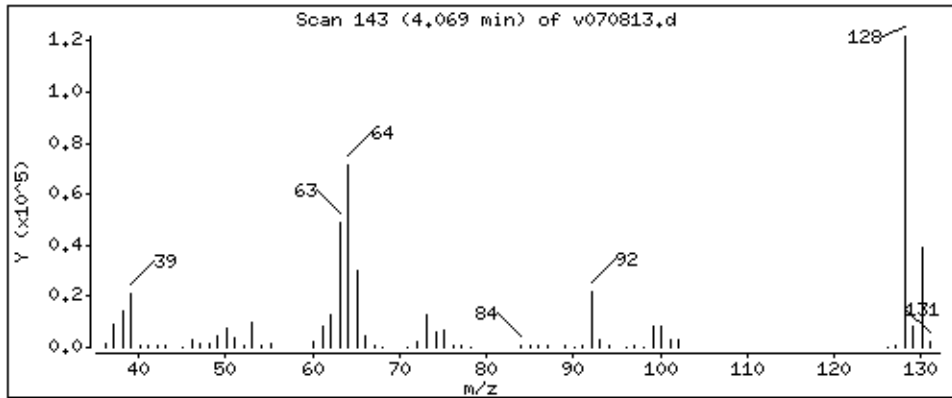
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

5 2-Chlorophenol

Concentration: 46.10 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

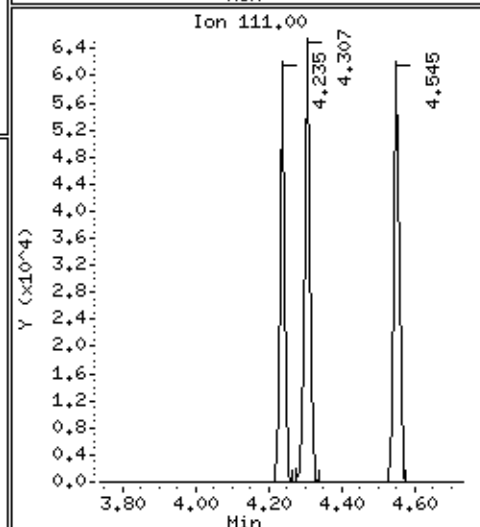
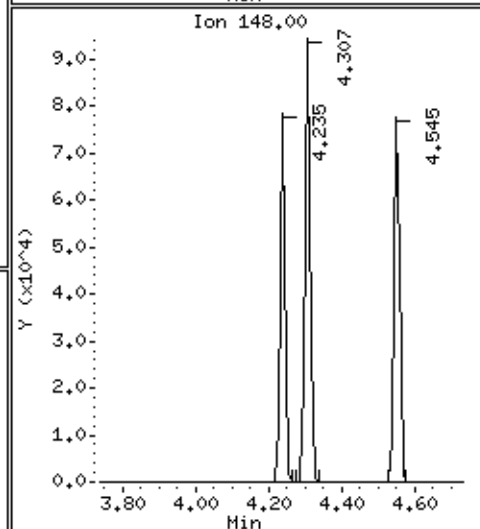
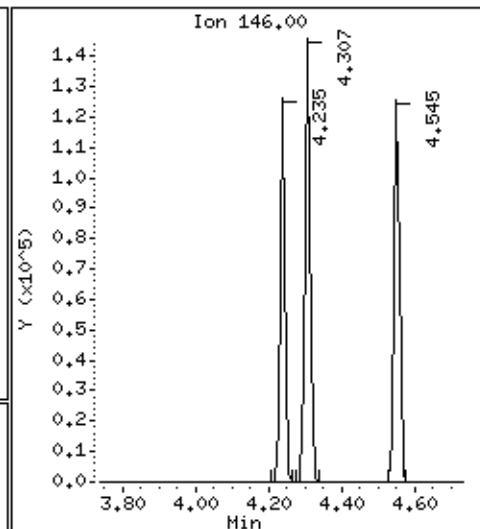
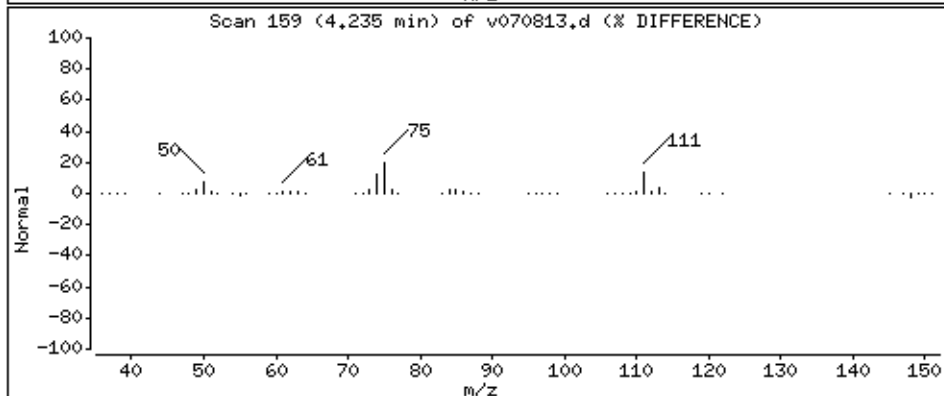
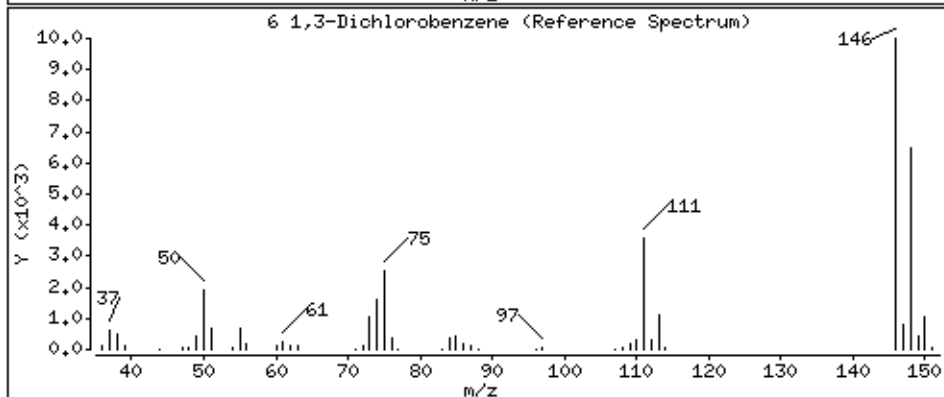
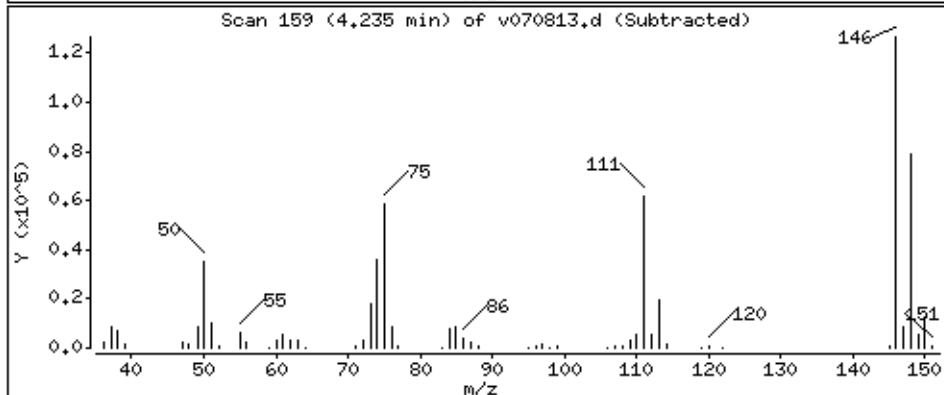
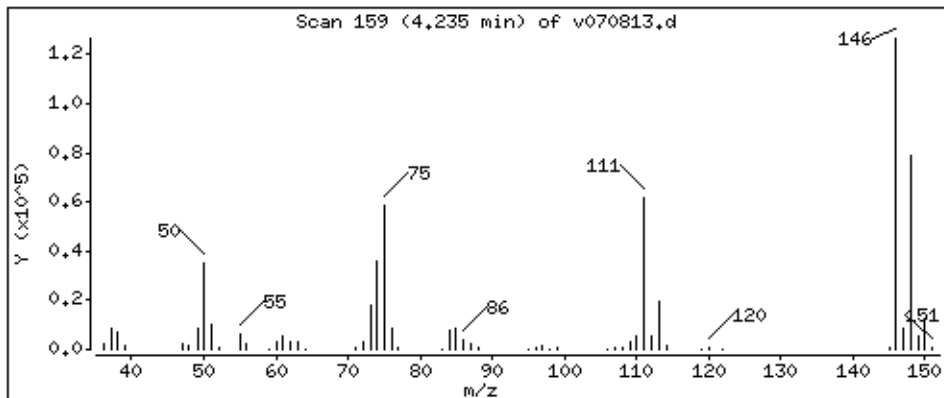
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

6 1,3-Dichlorobenzene

Concentration: 48.32 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

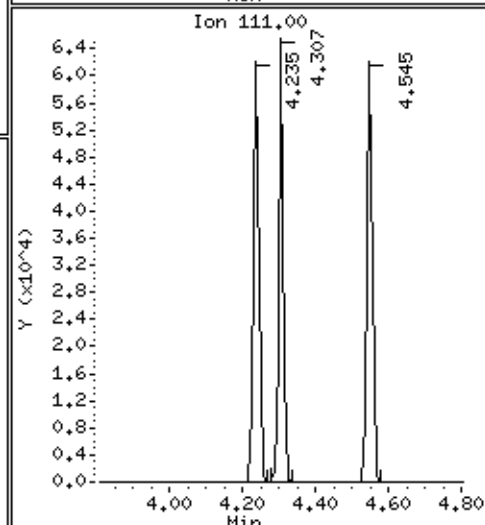
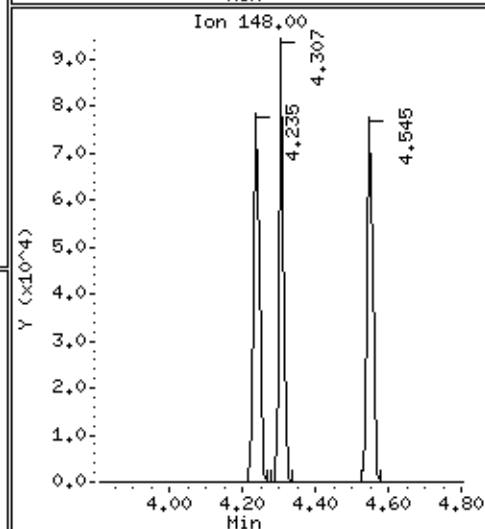
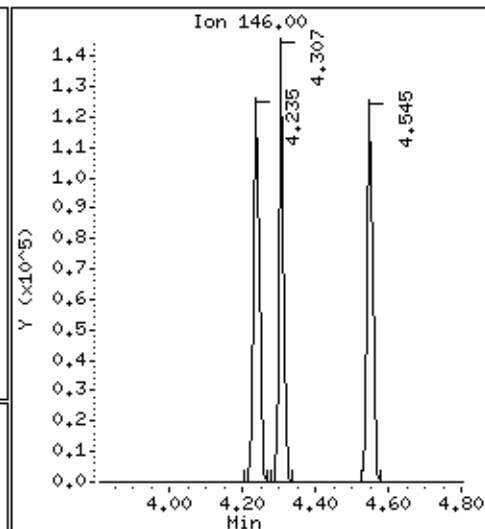
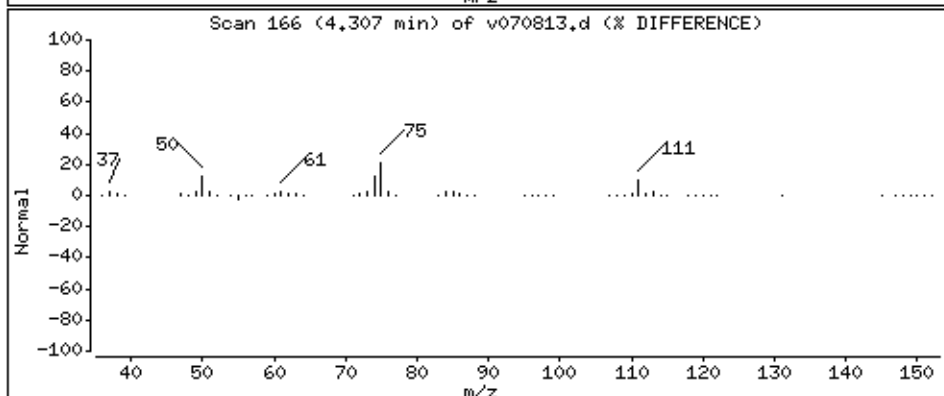
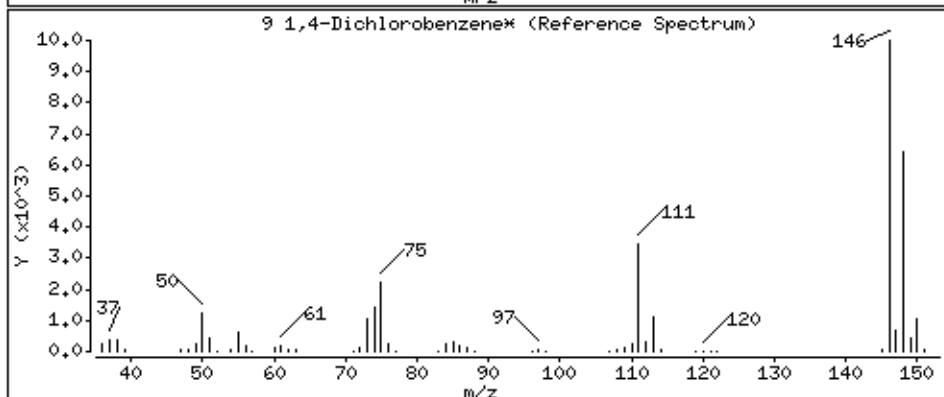
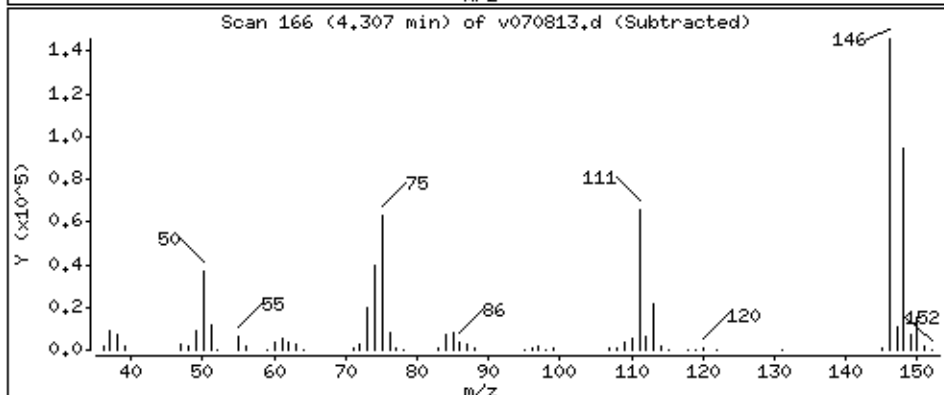
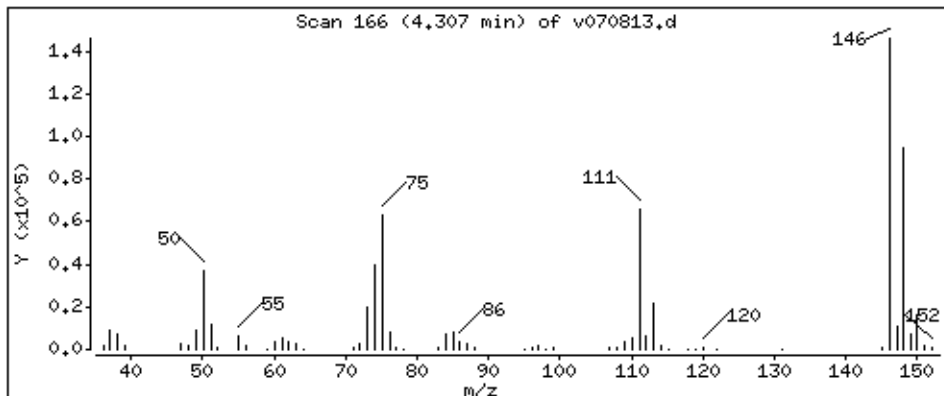
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

9 1,4-Dichlorobenzene*

Concentration: 46.80 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

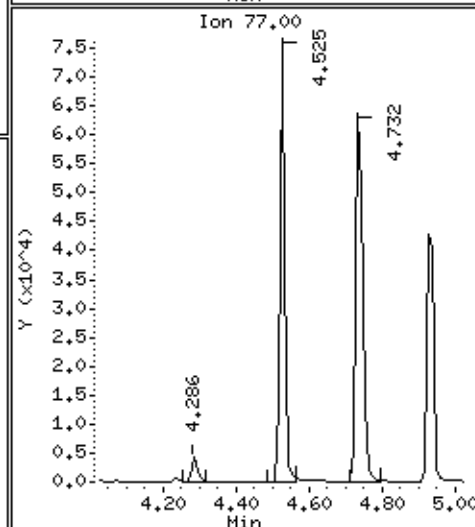
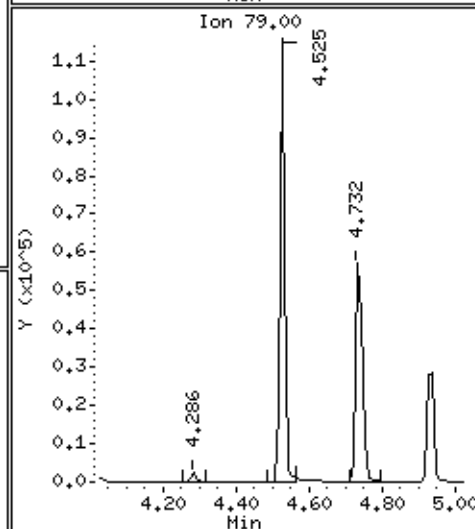
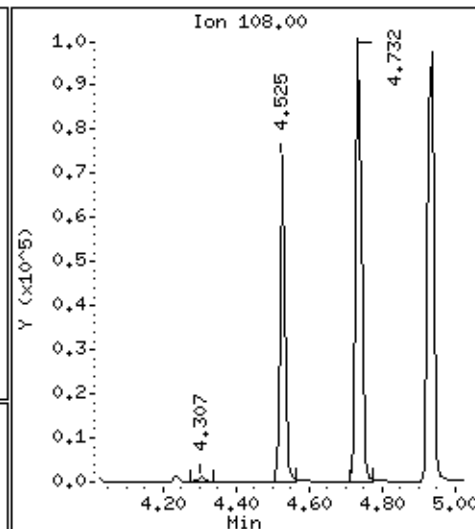
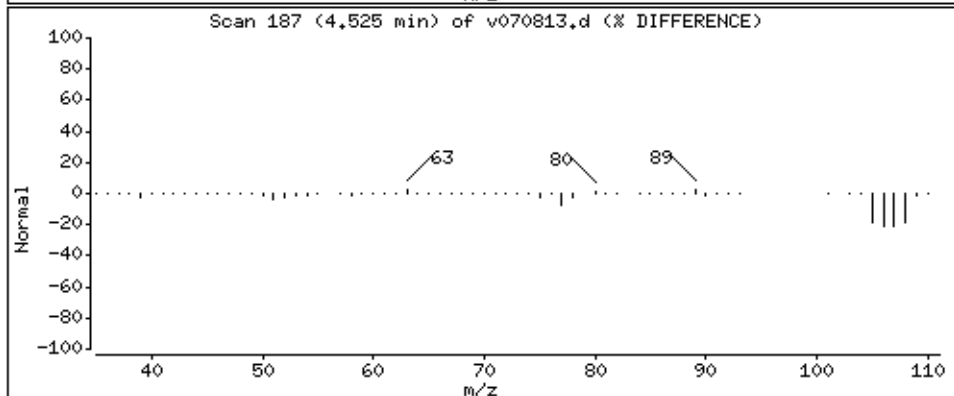
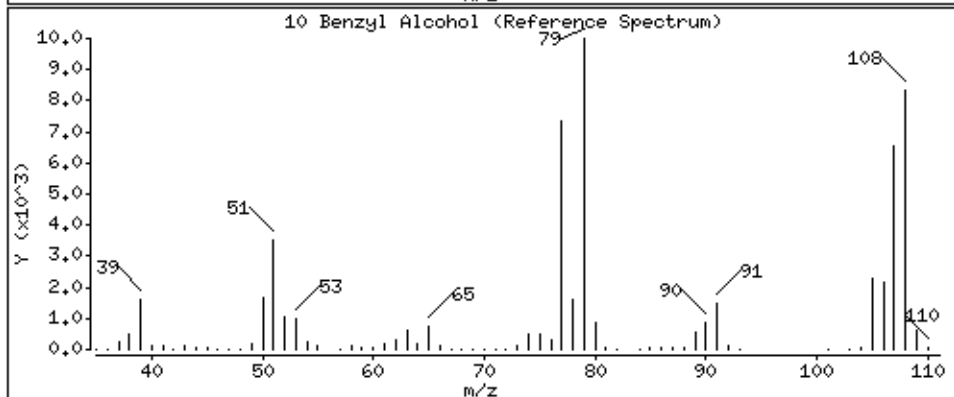
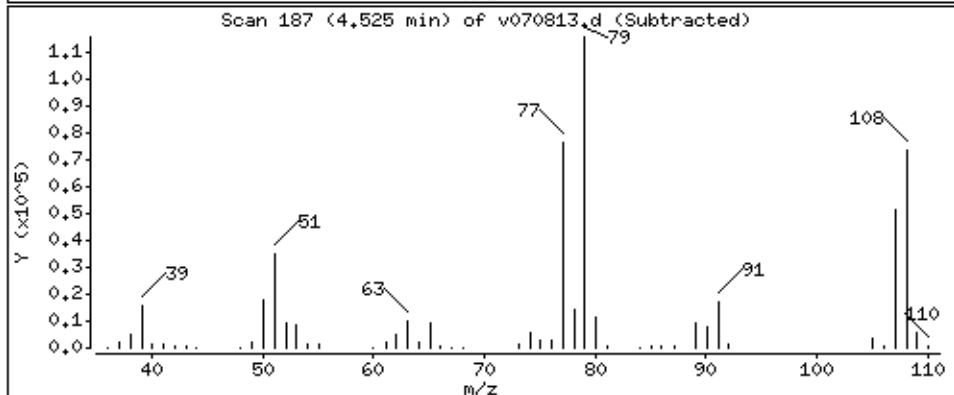
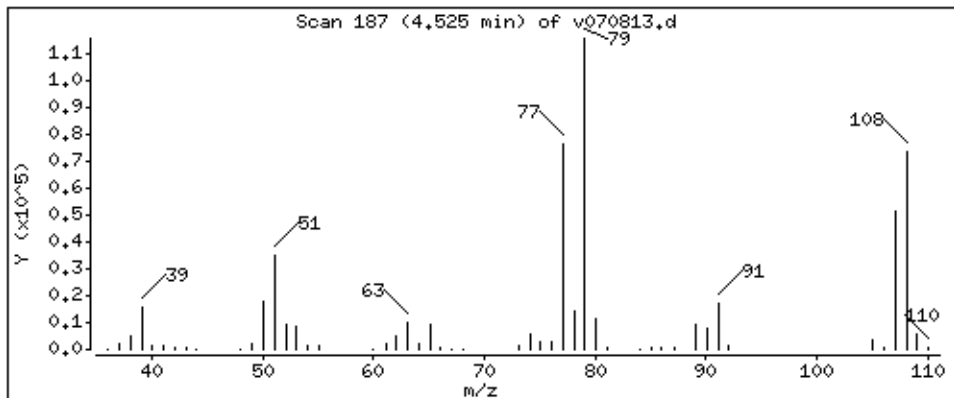
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

10 Benzyl Alcohol

Concentration: 48.44 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

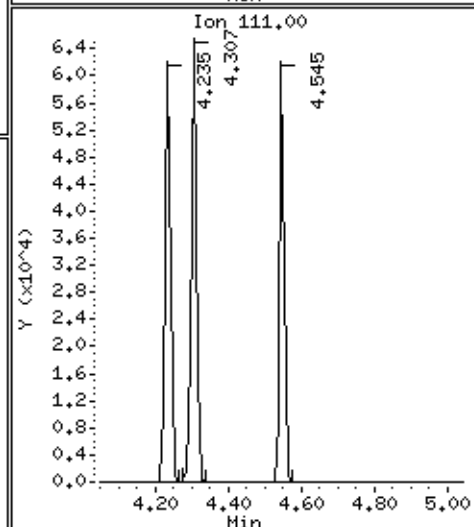
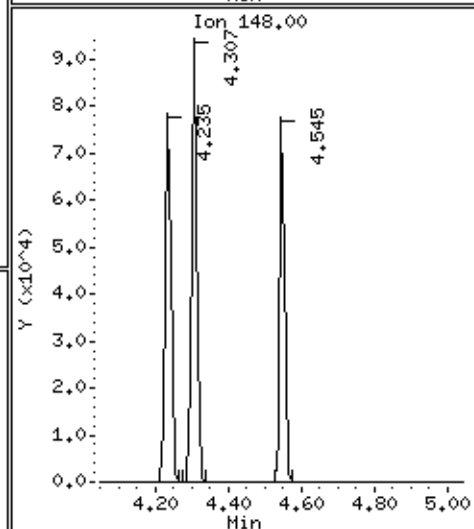
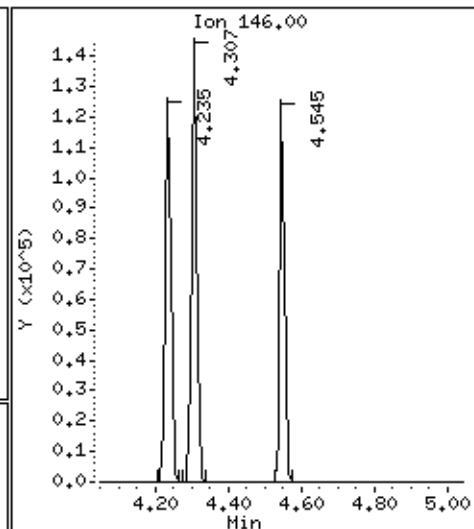
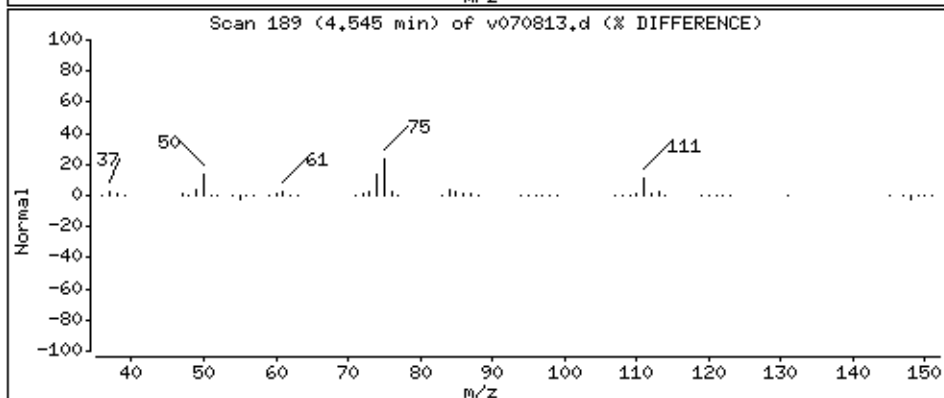
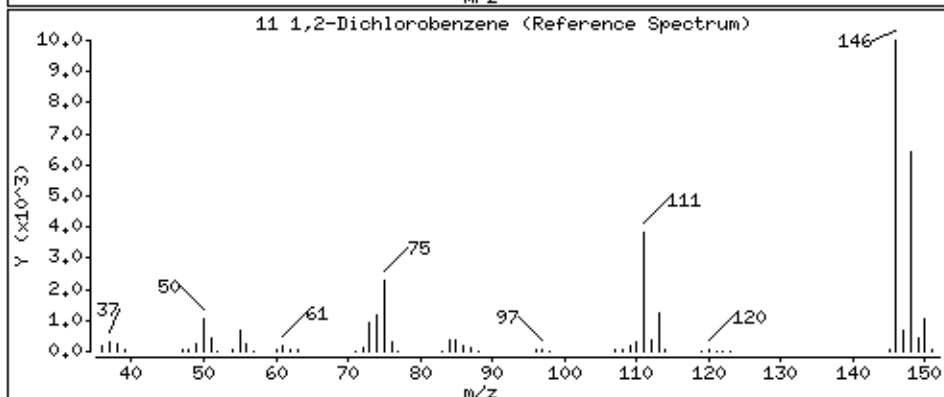
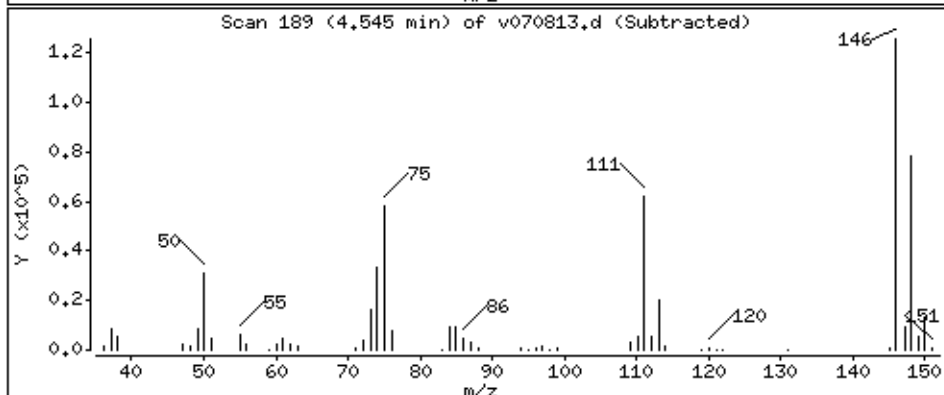
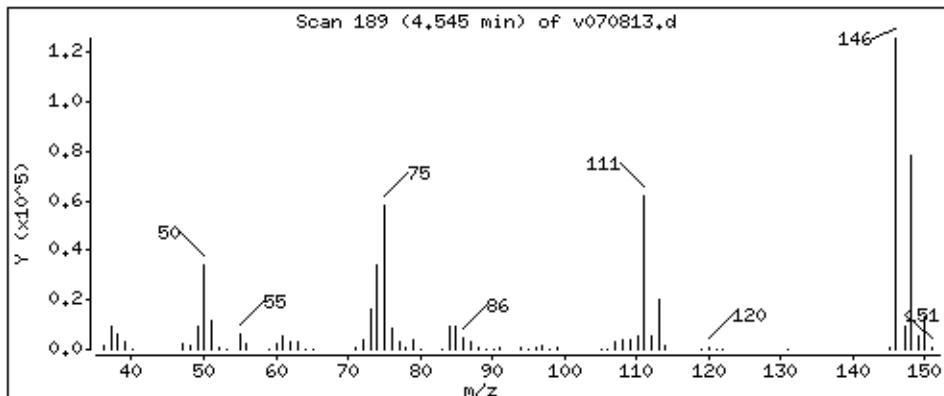
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

11 1,2-Dichlorobenzene

Concentration: 49.02 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

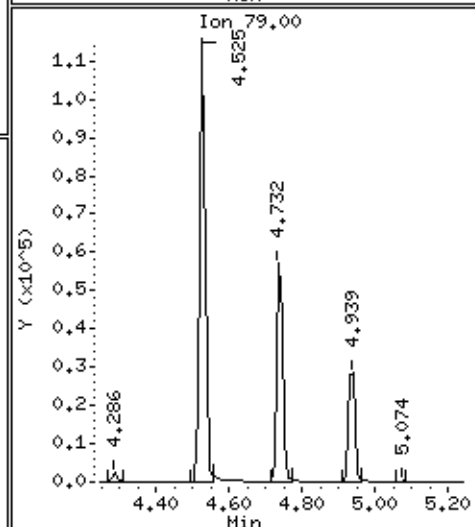
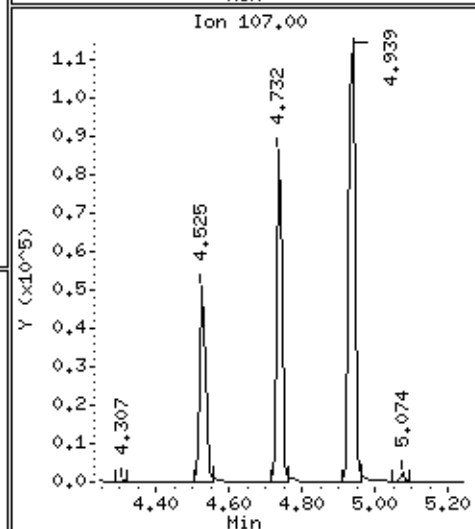
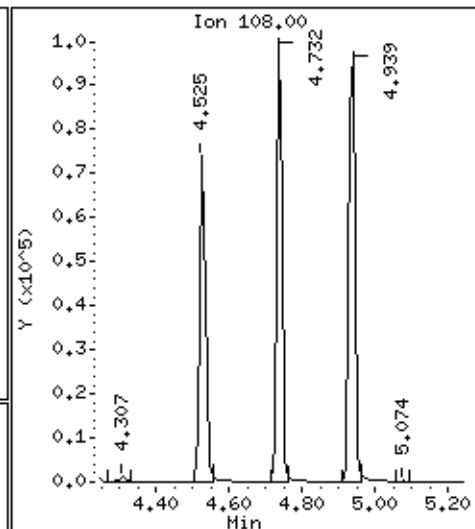
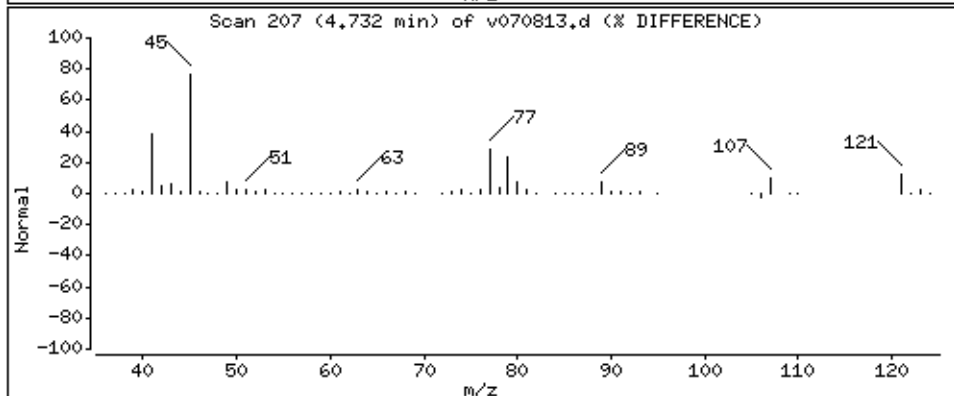
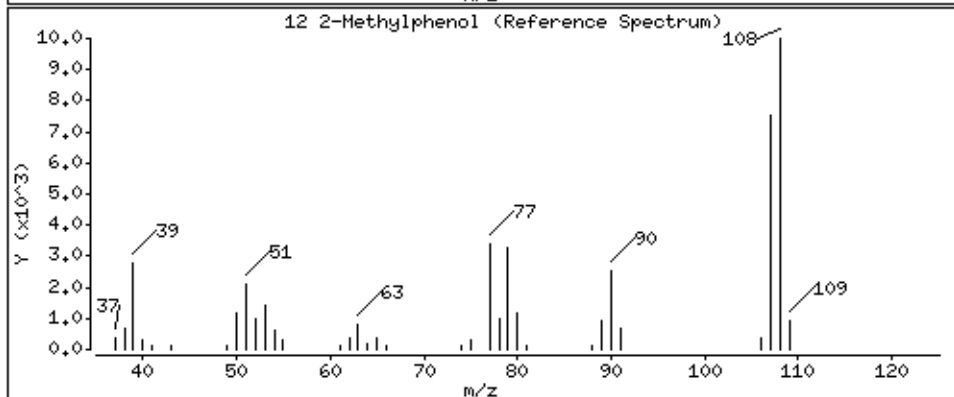
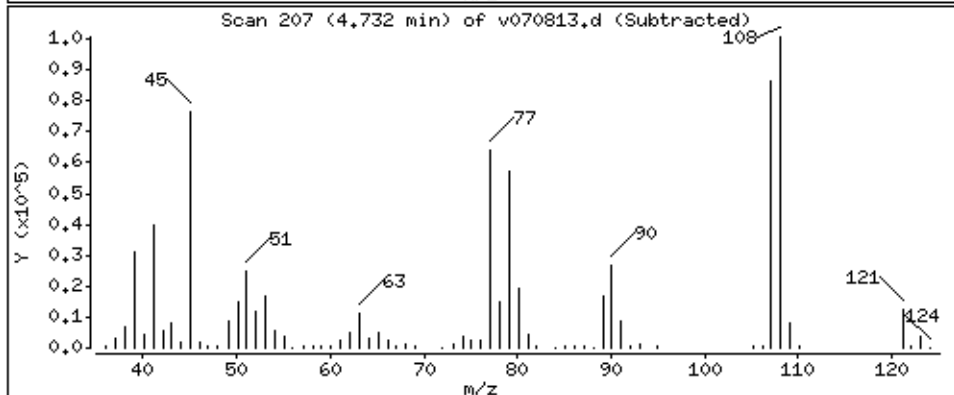
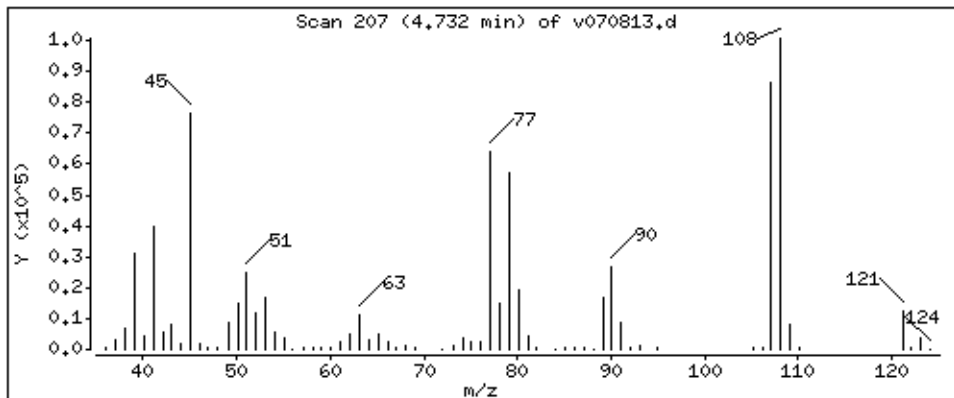
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

12 2-Methylphenol

Concentration: 46.07 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

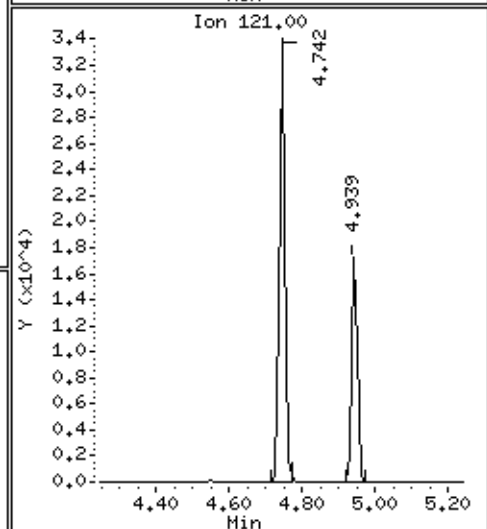
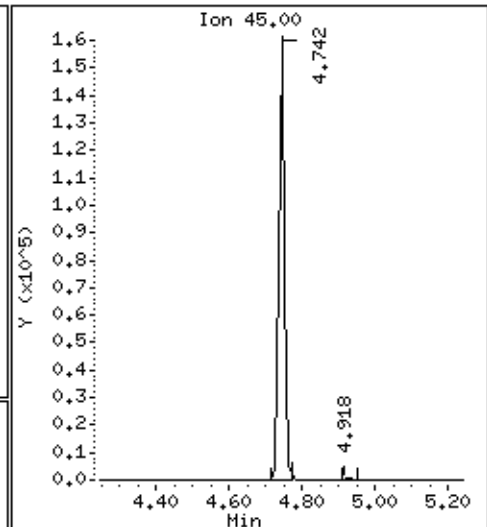
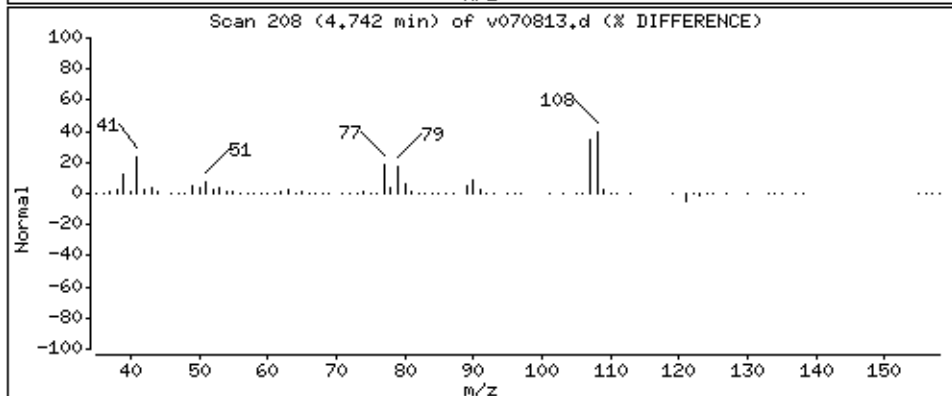
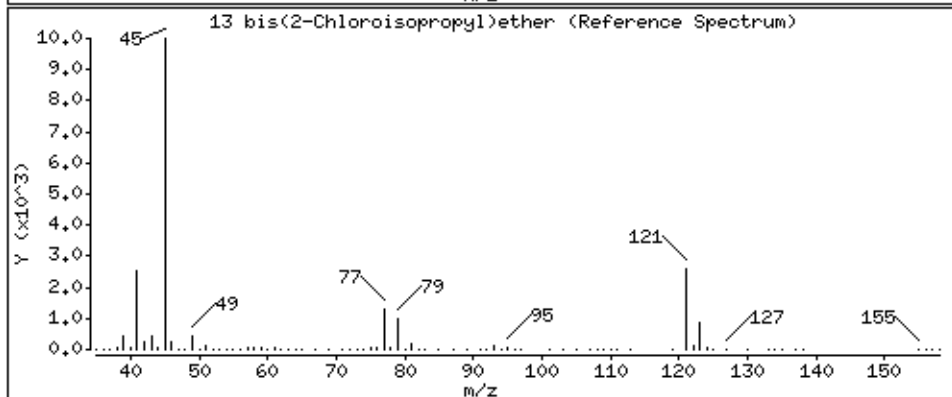
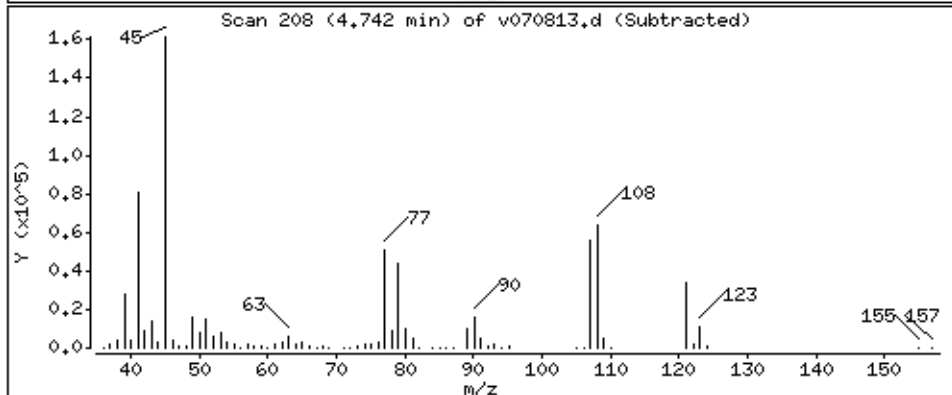
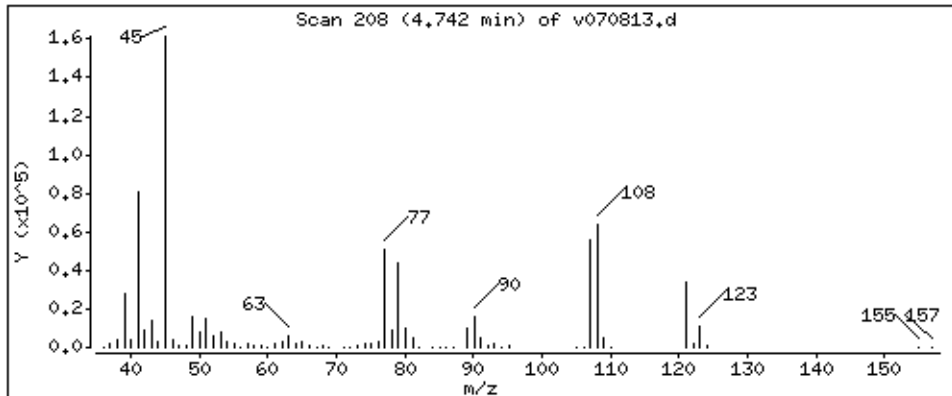
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

13 bis(2-Chloroisopropyl)ether

Concentration: 44.27 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

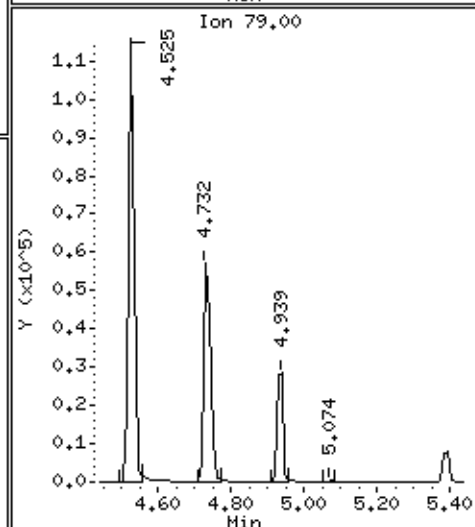
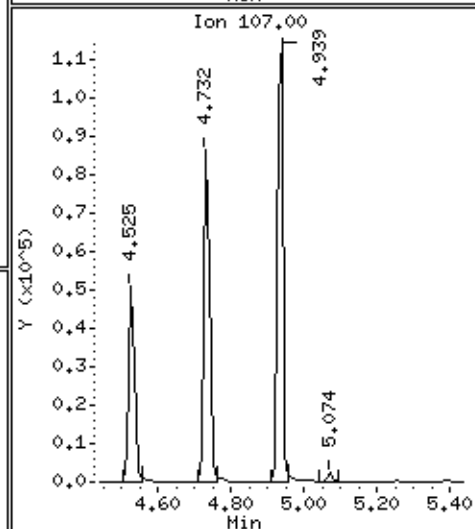
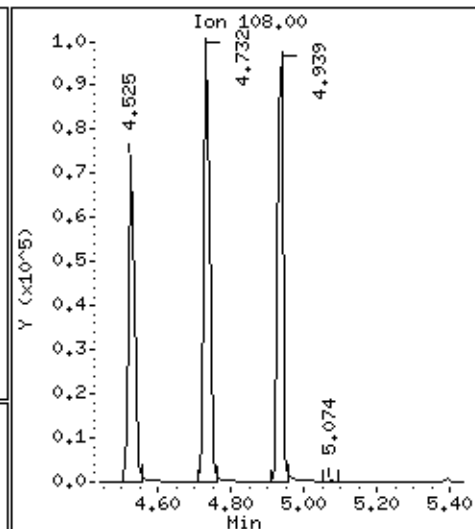
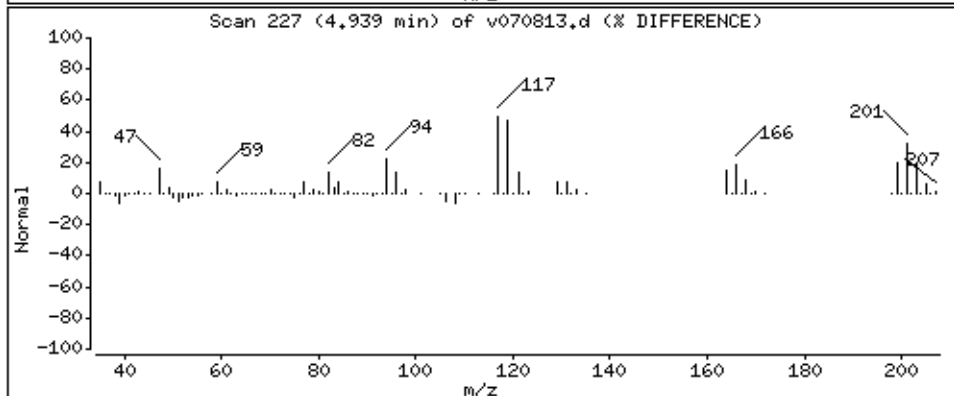
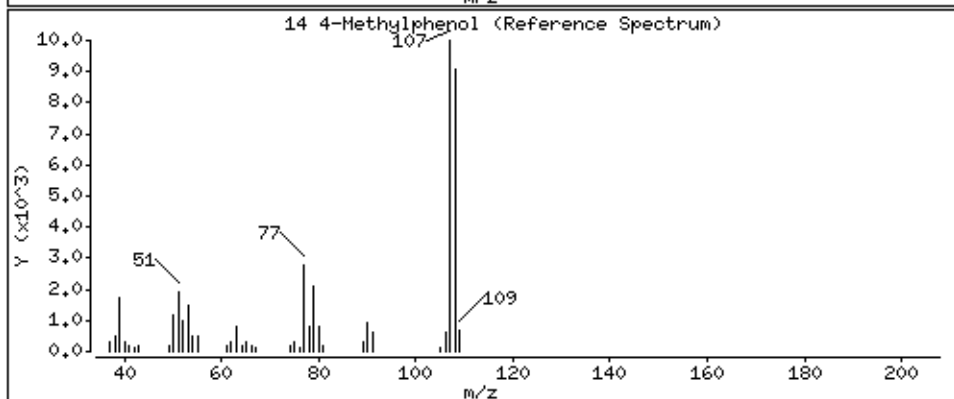
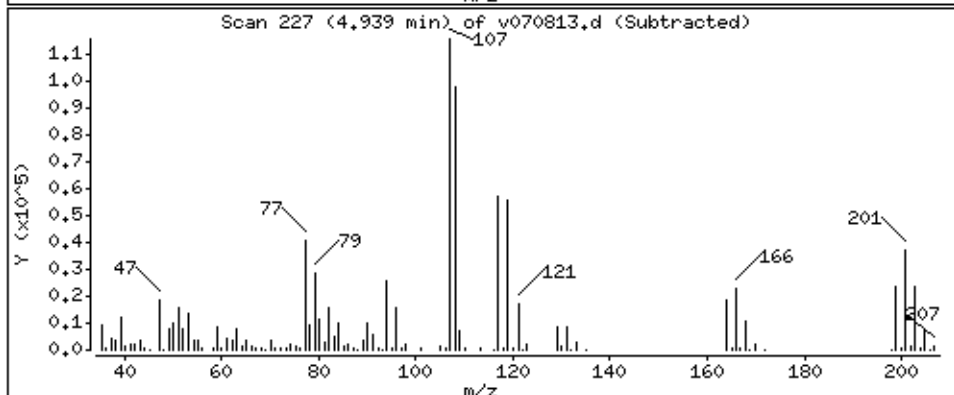
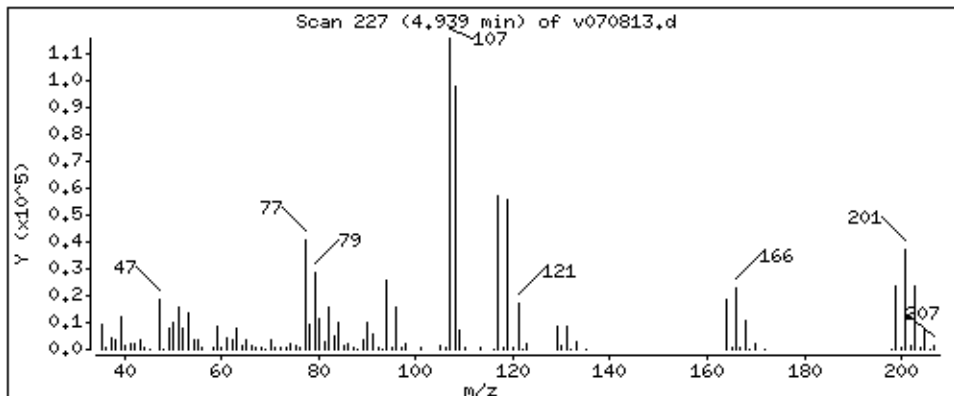
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

14 4-Methylphenol

Concentration: 47.22 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

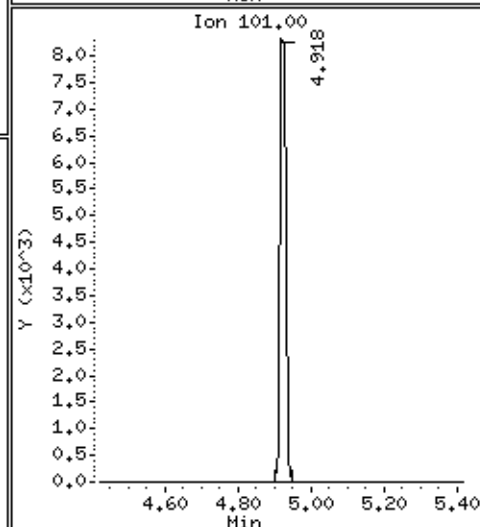
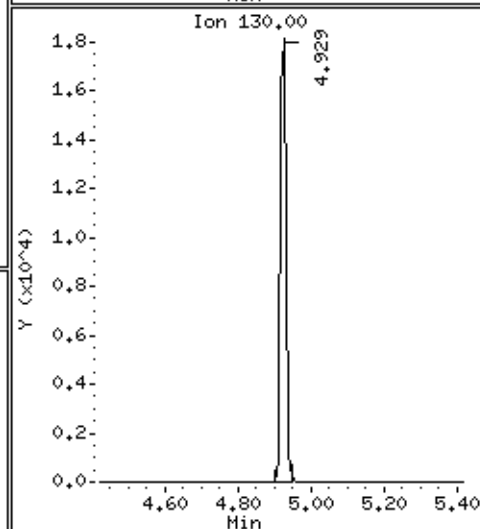
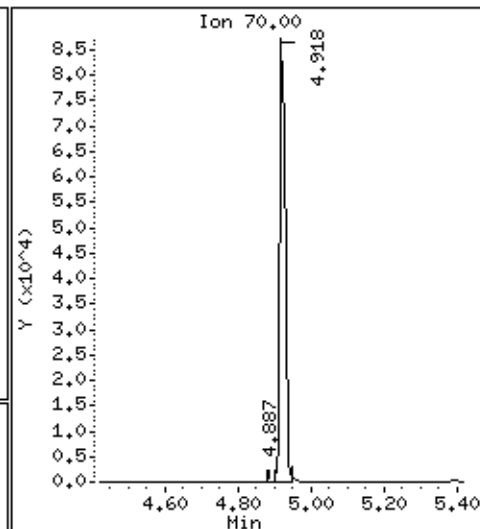
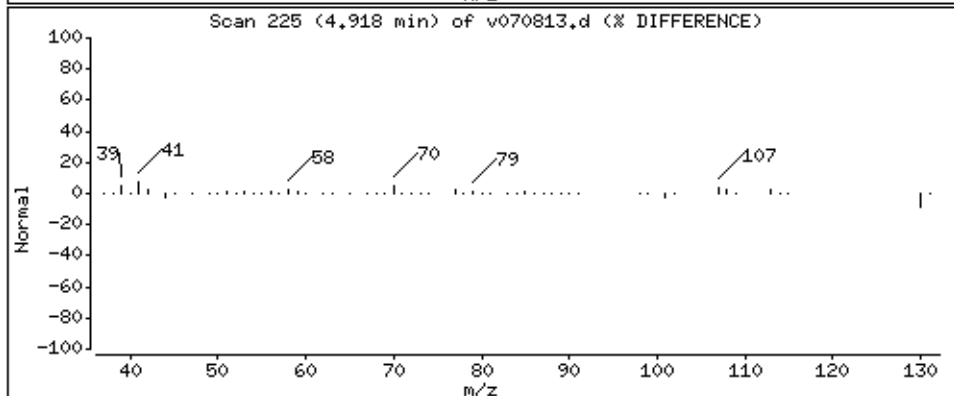
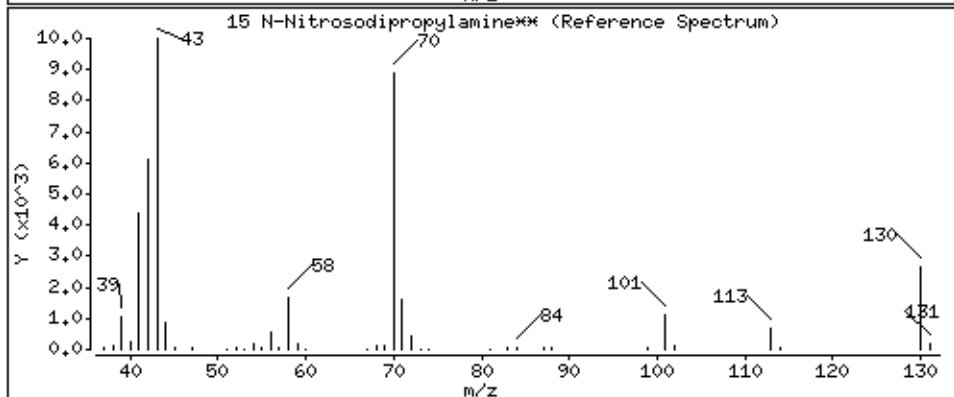
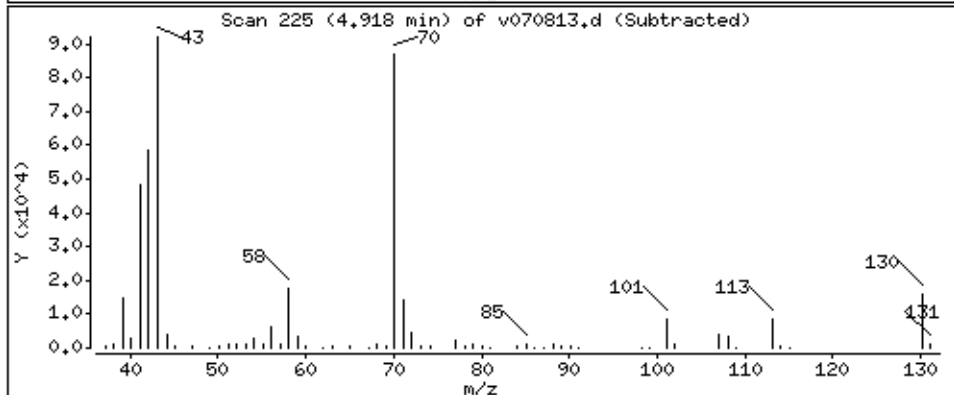
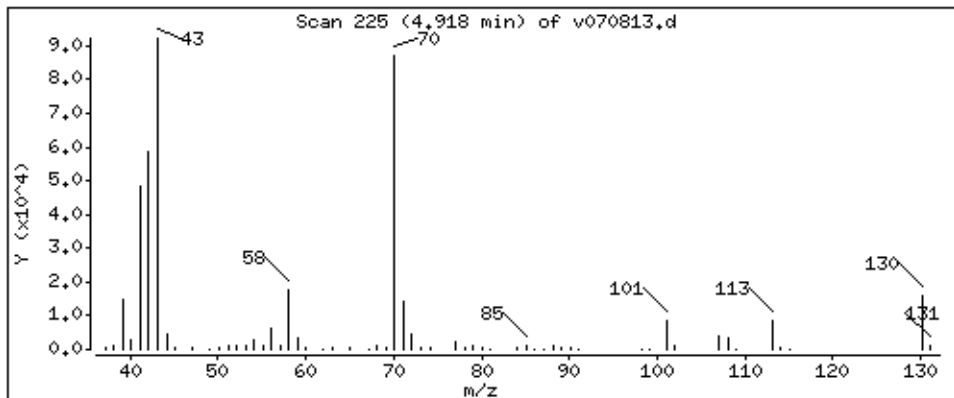
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

15 N-Nitrosodipropylamine**

Concentration: 46.24 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

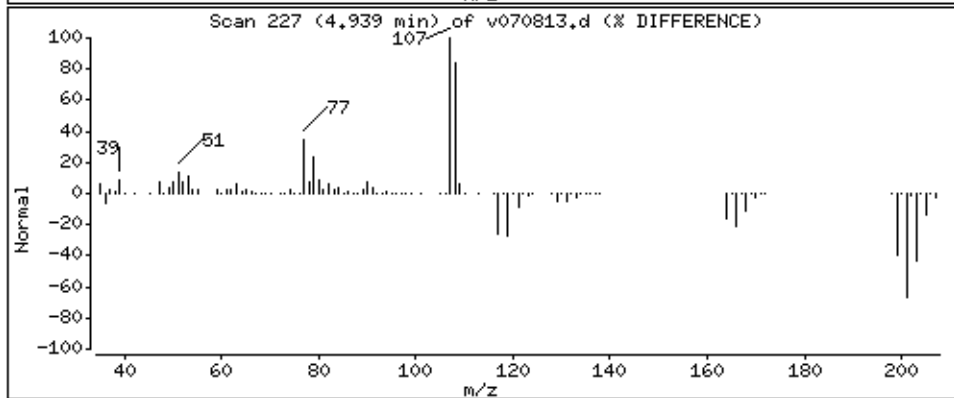
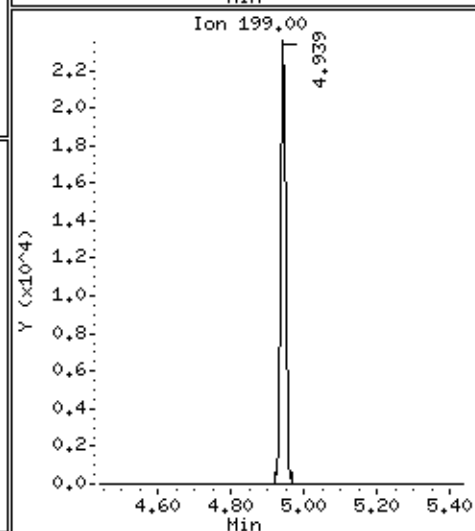
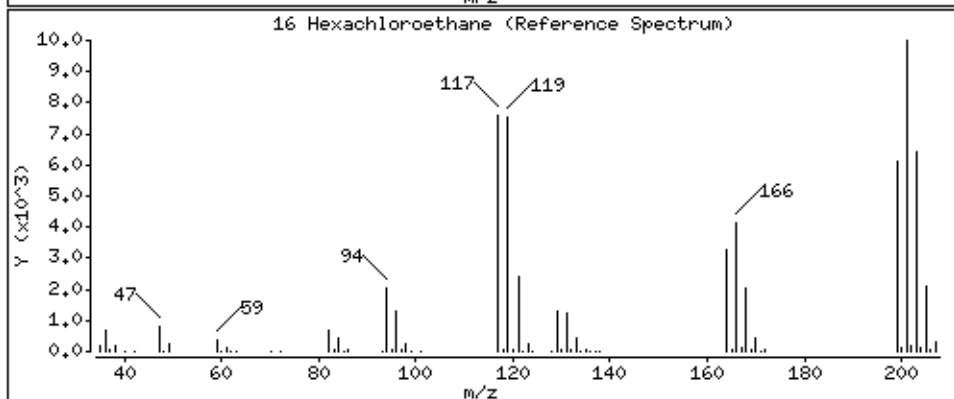
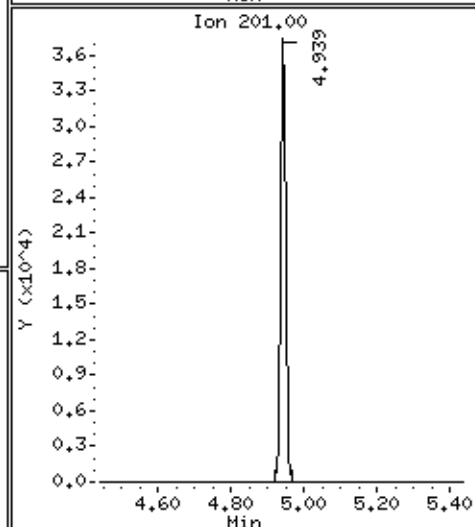
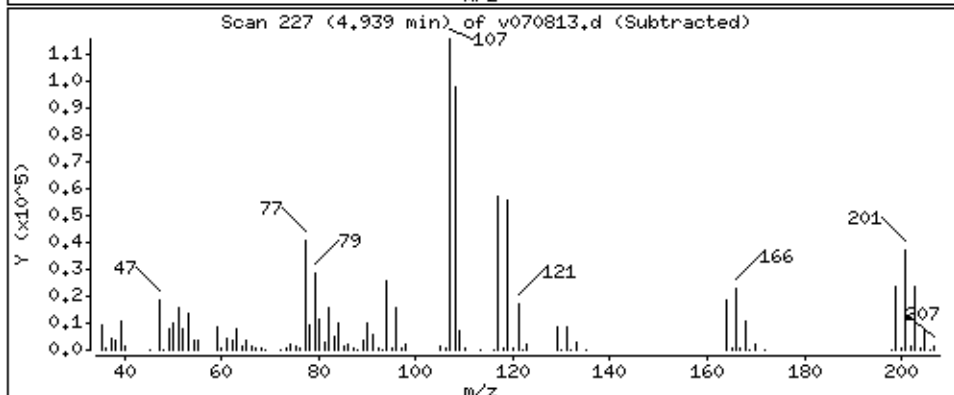
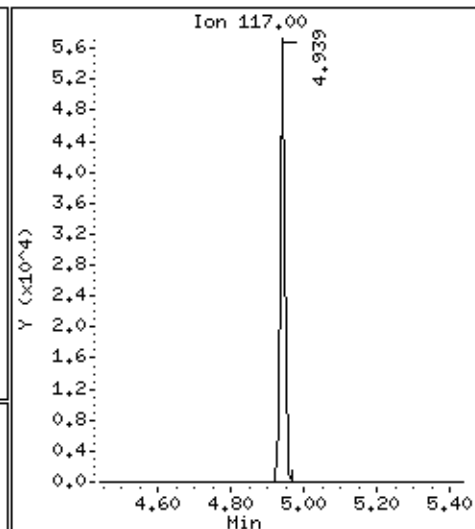
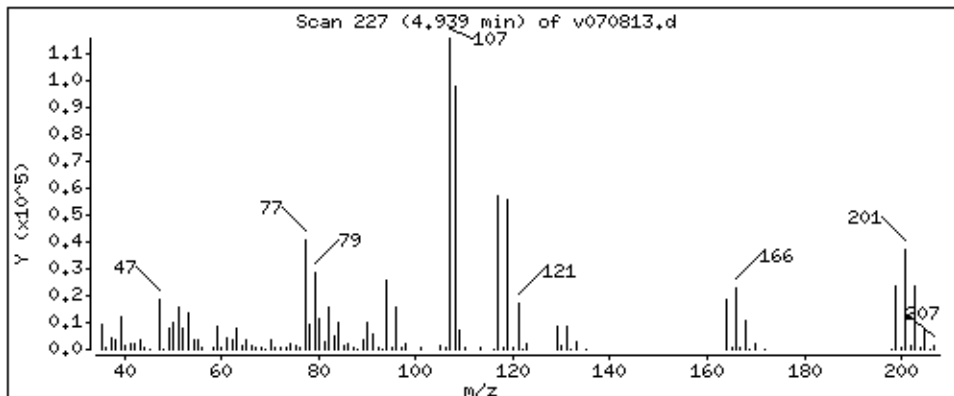
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

16 Hexachloroethane

Concentration: 49.03 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

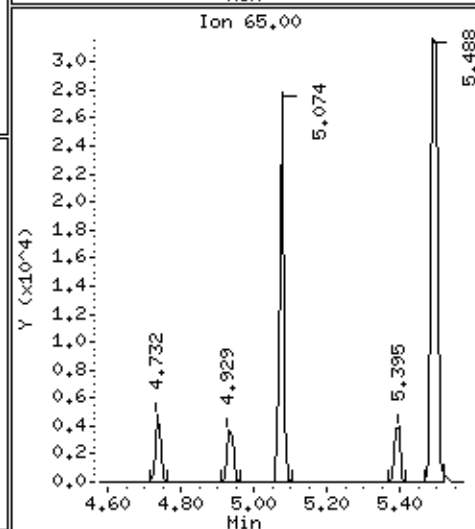
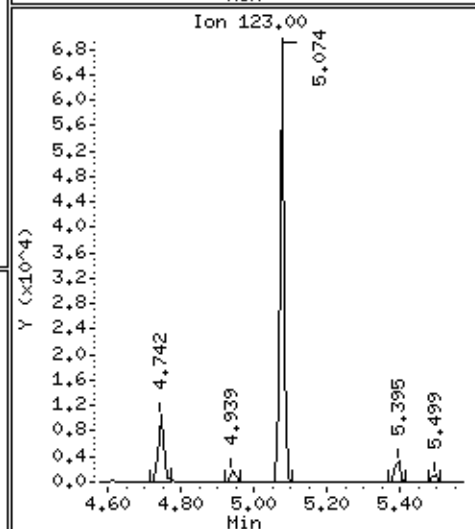
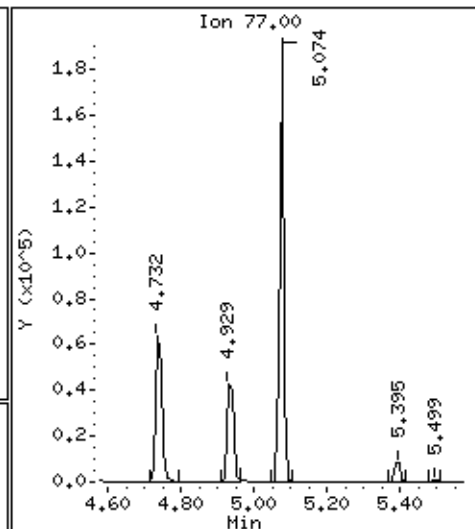
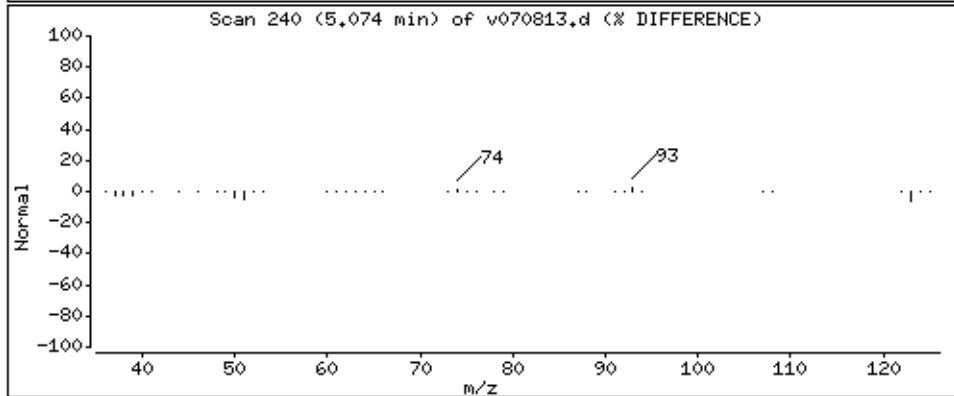
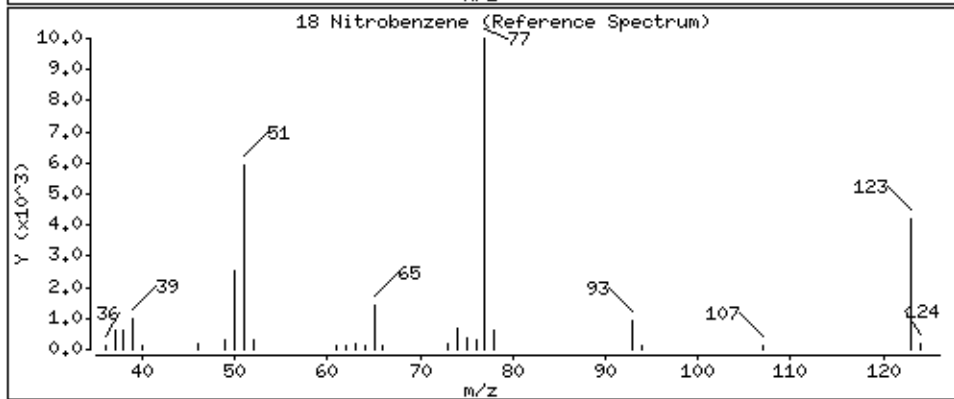
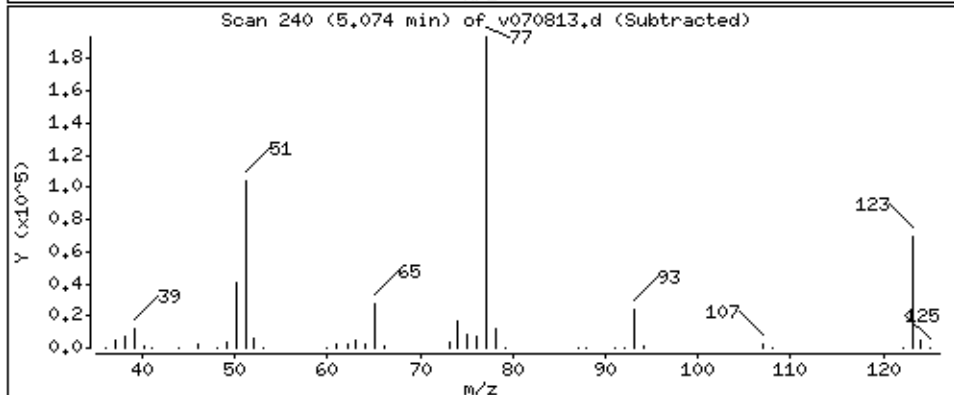
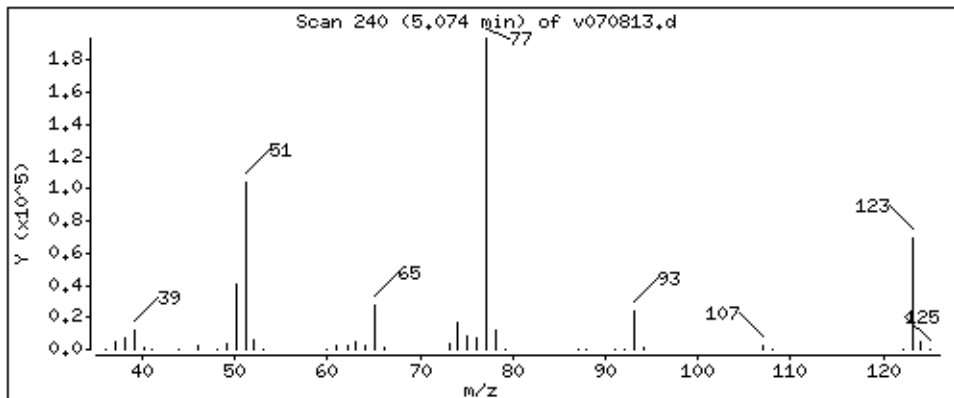
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

18 Nitrobenzene

Concentration: 50.20 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

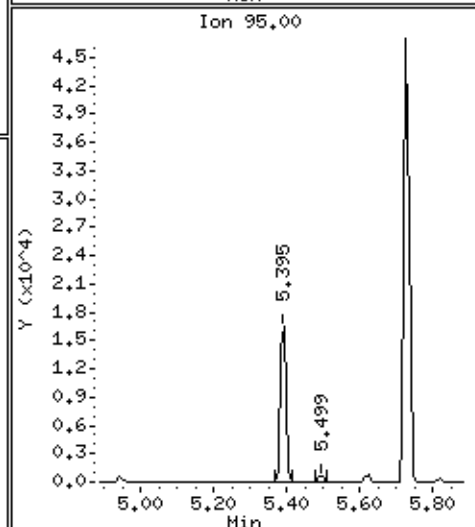
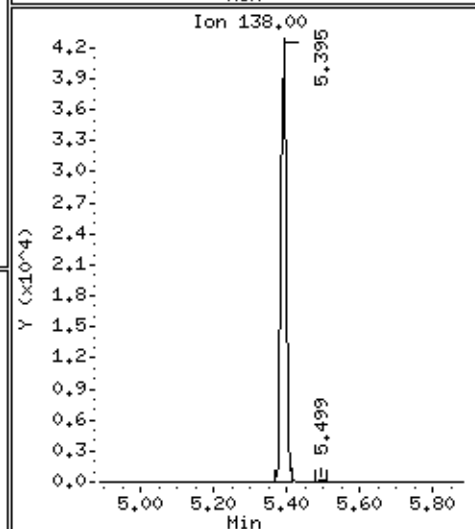
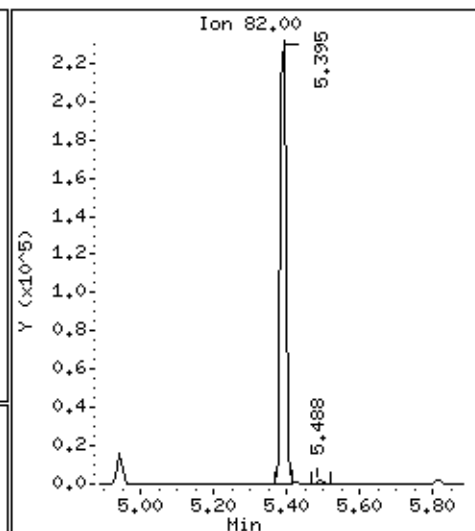
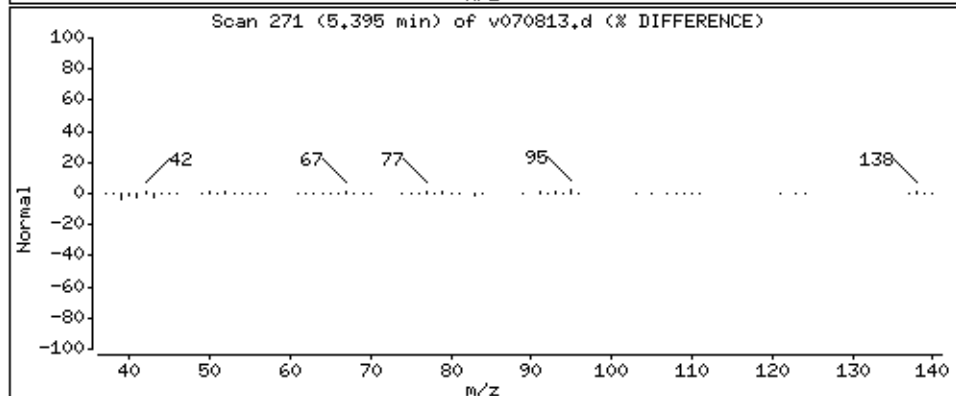
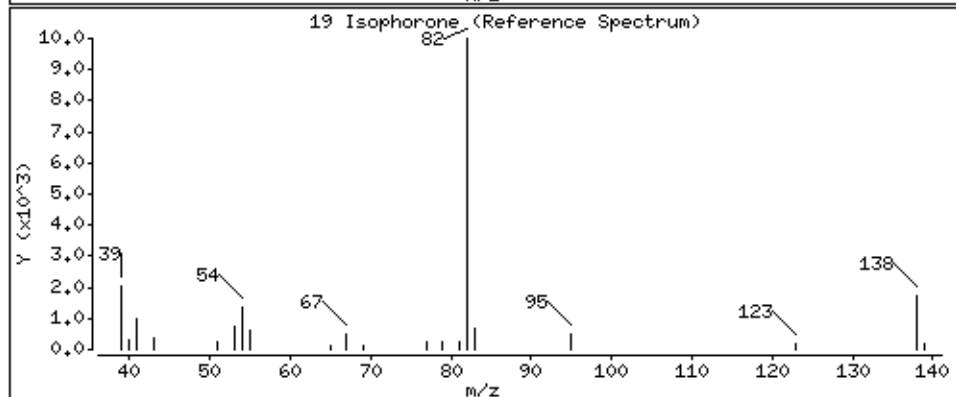
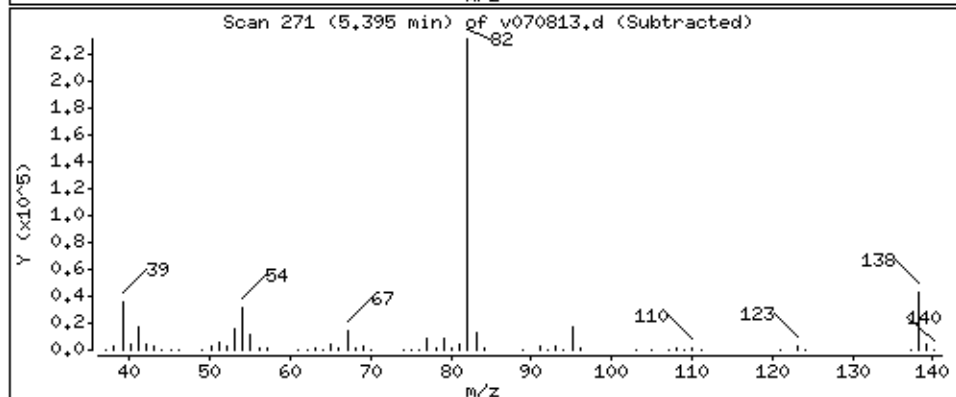
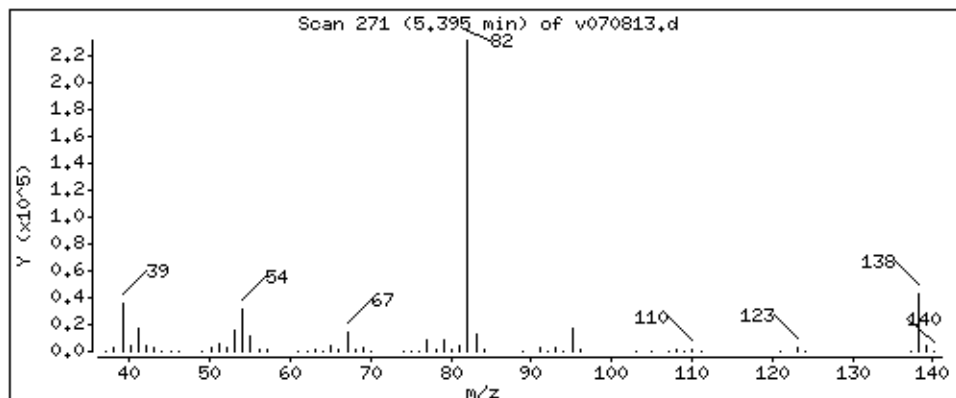
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

19 Isophorone

Concentration: 49.28 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

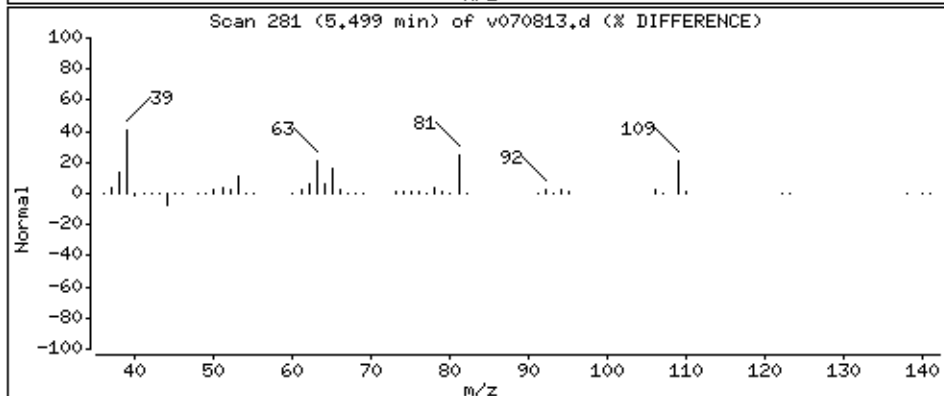
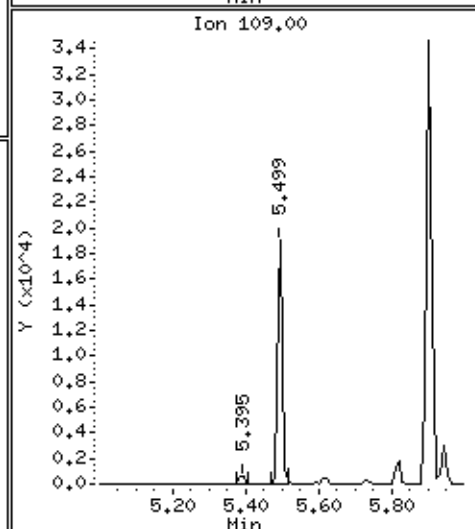
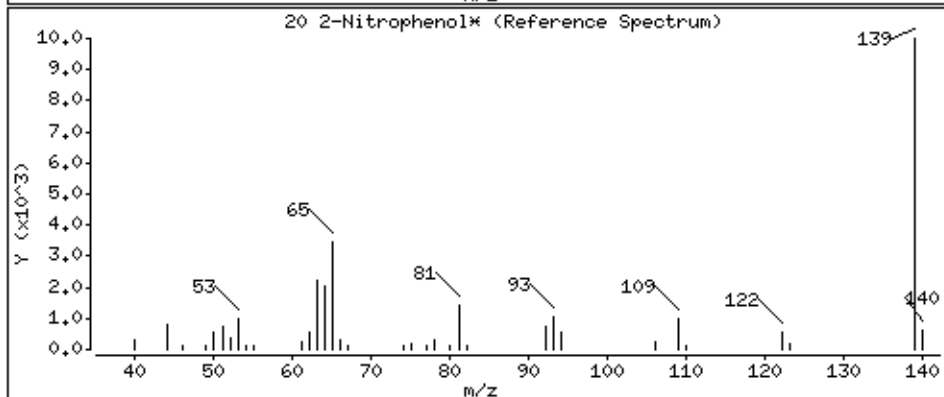
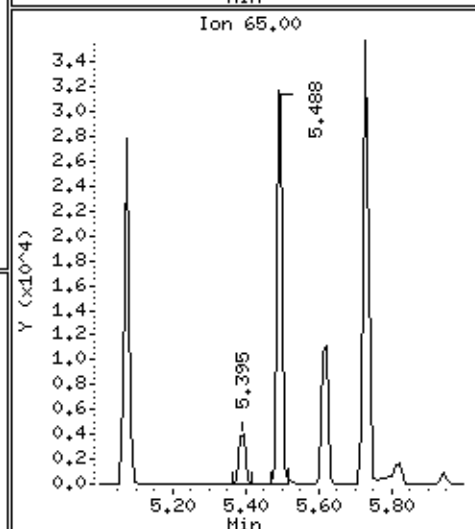
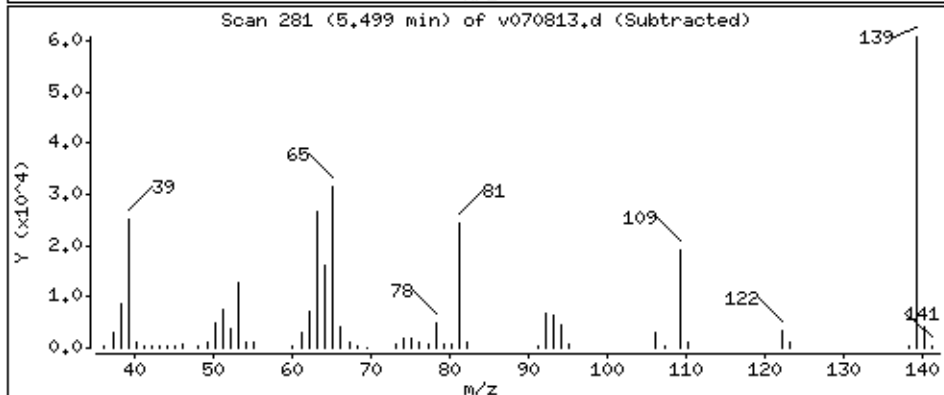
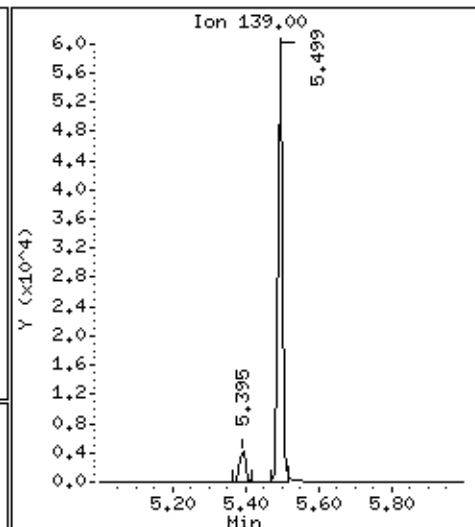
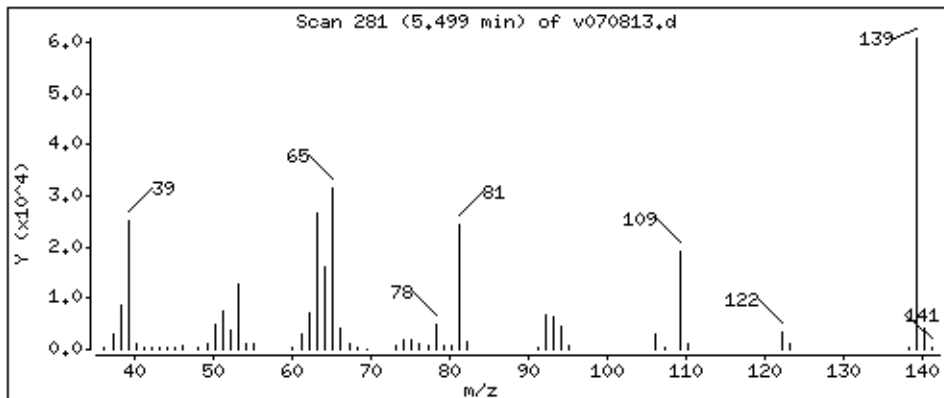
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

20 2-Nitrophenol*

Concentration: 48.55 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

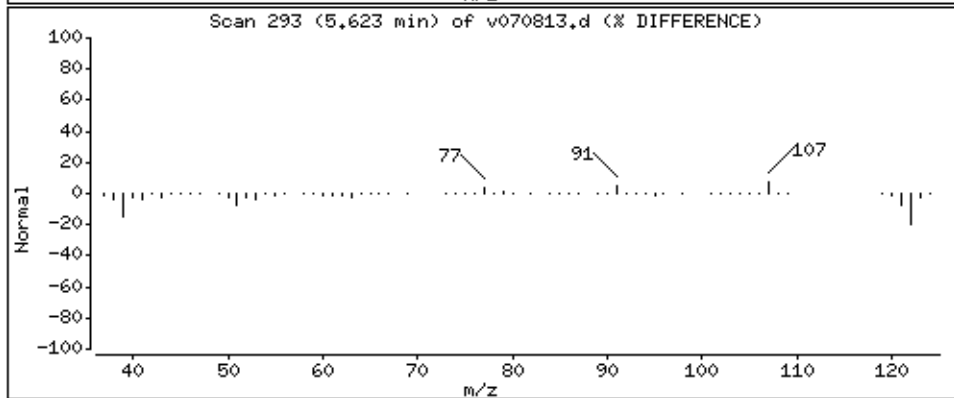
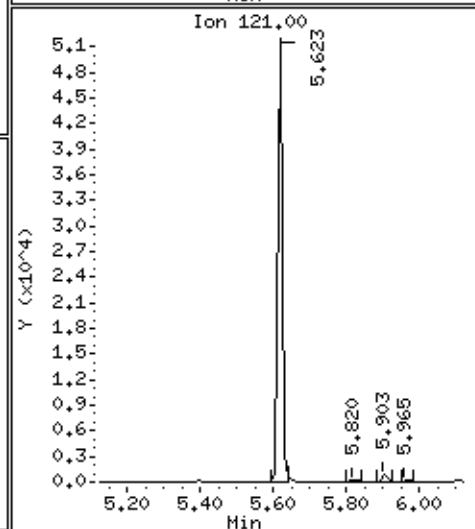
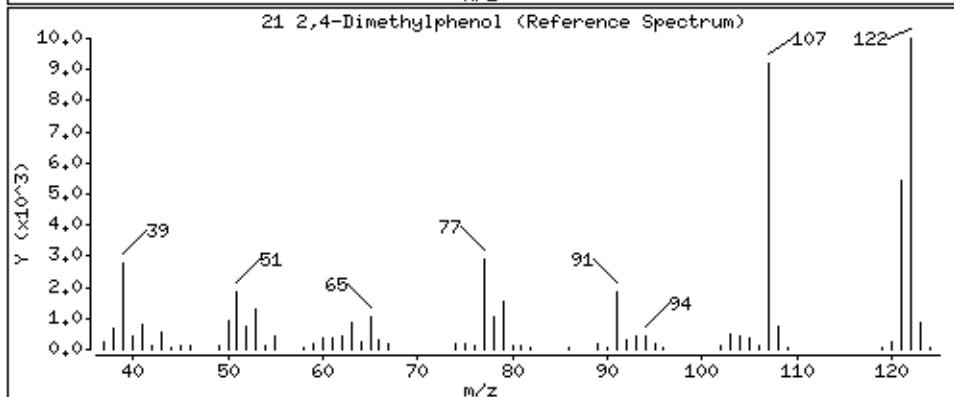
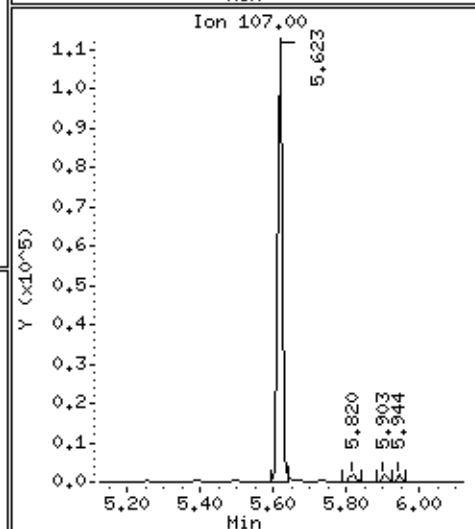
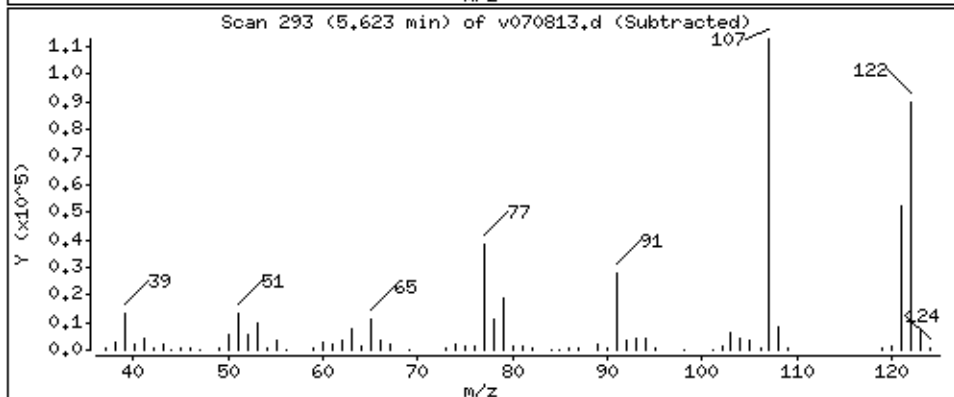
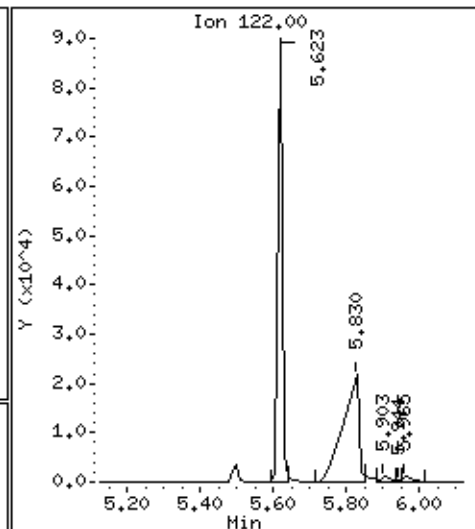
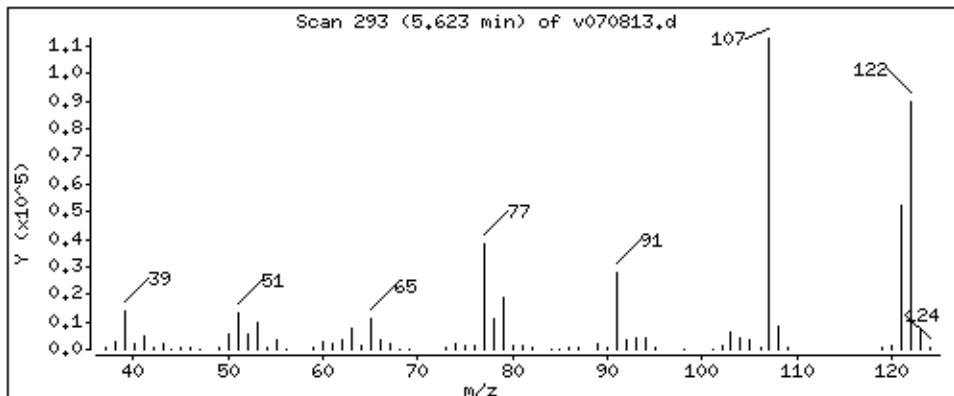
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

21 2,4-Dimethylphenol

Concentration: 45.54 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

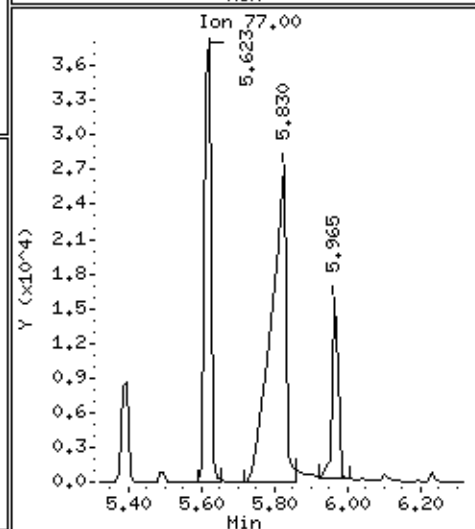
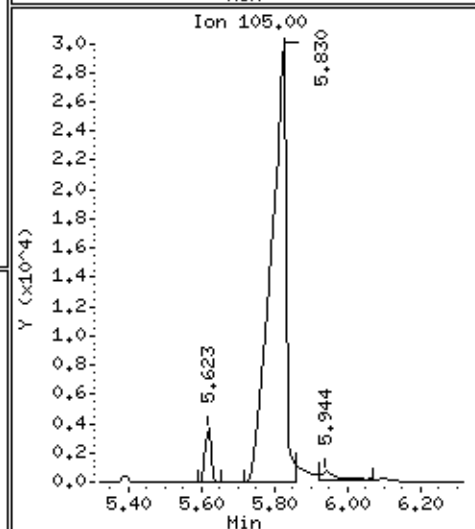
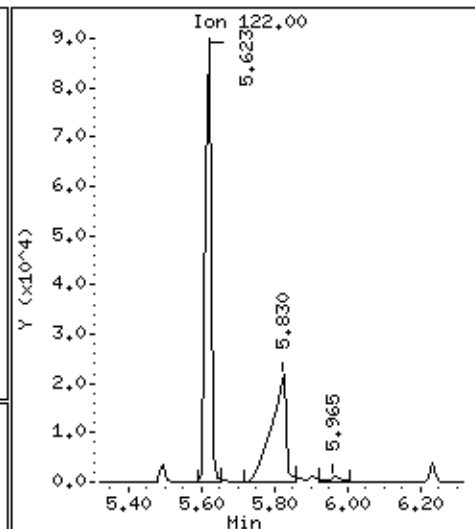
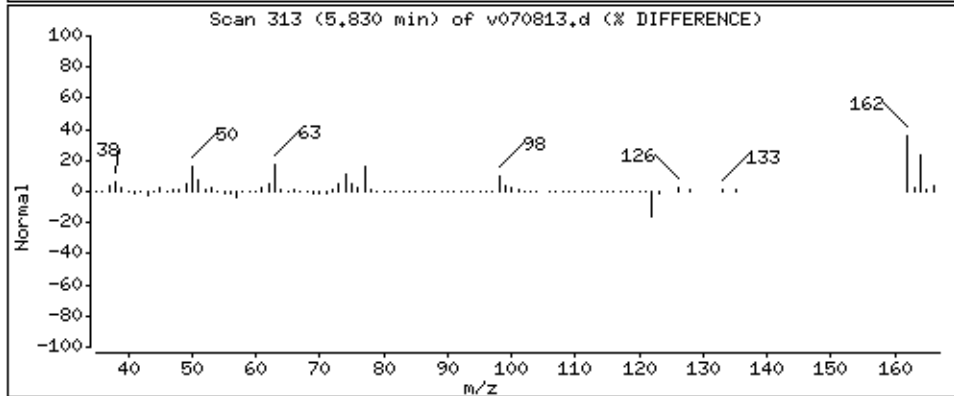
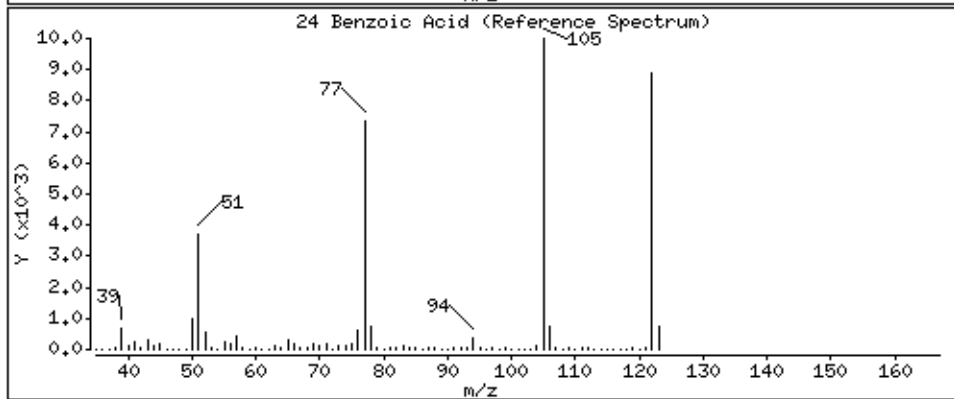
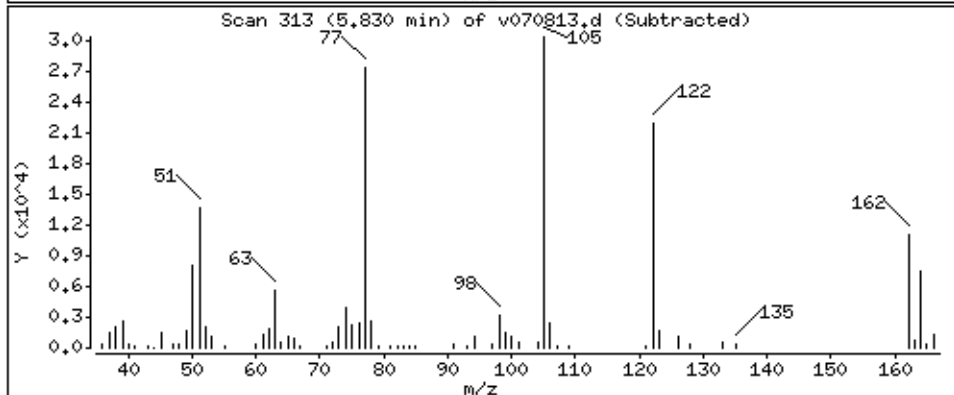
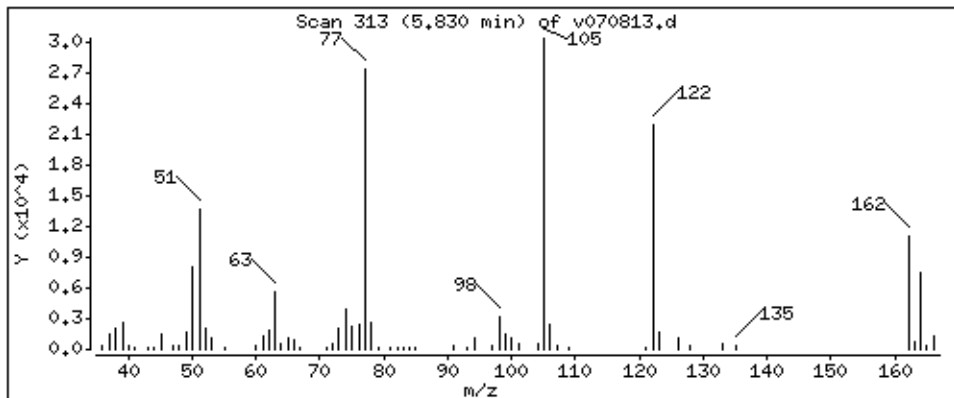
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

24 Benzoic Acid

Concentration: 48.39 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

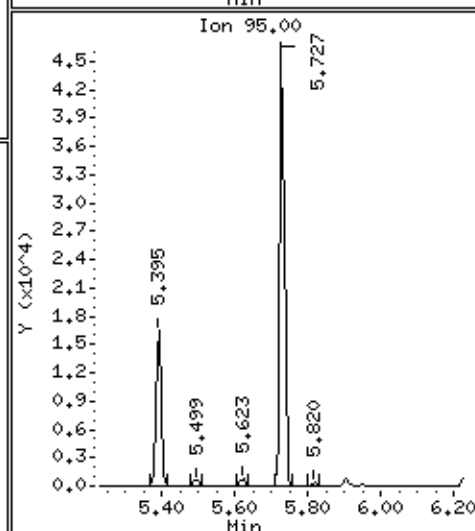
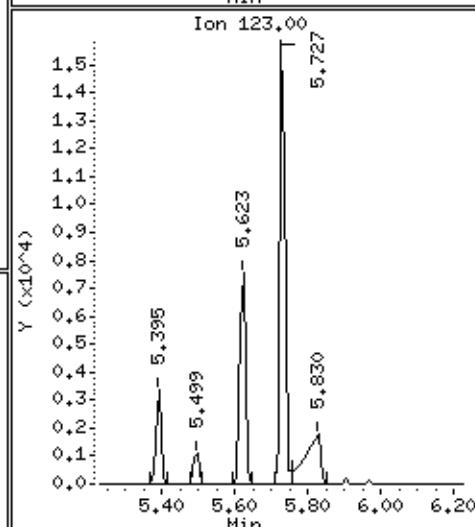
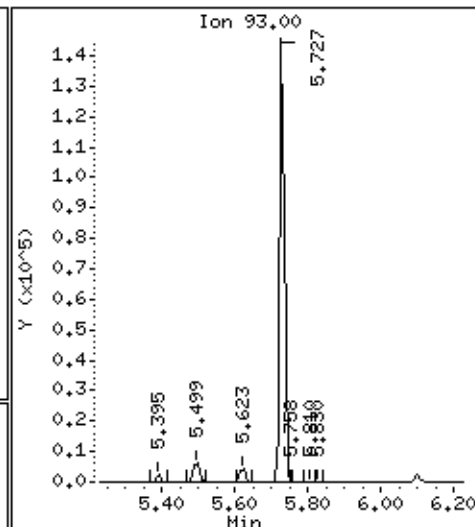
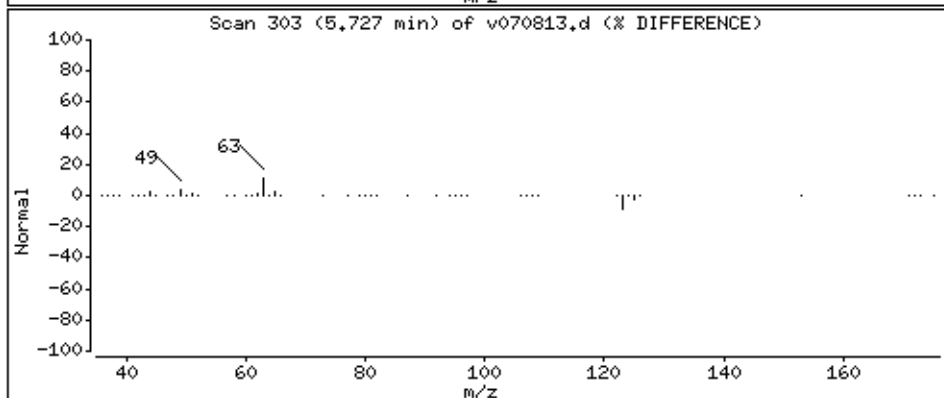
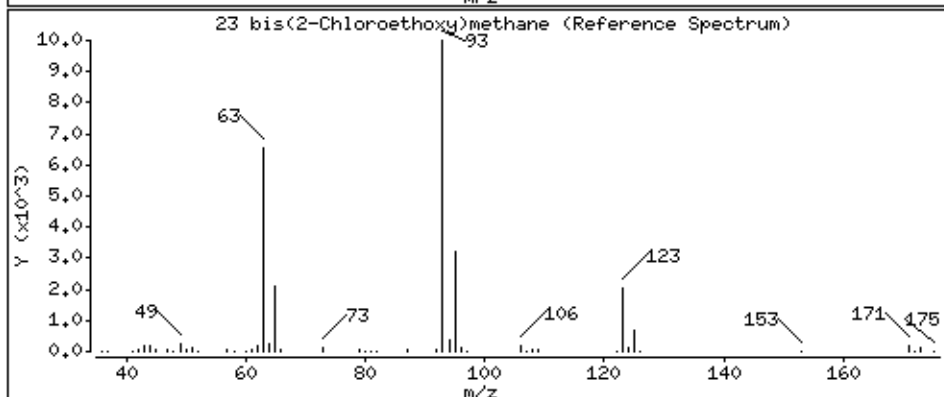
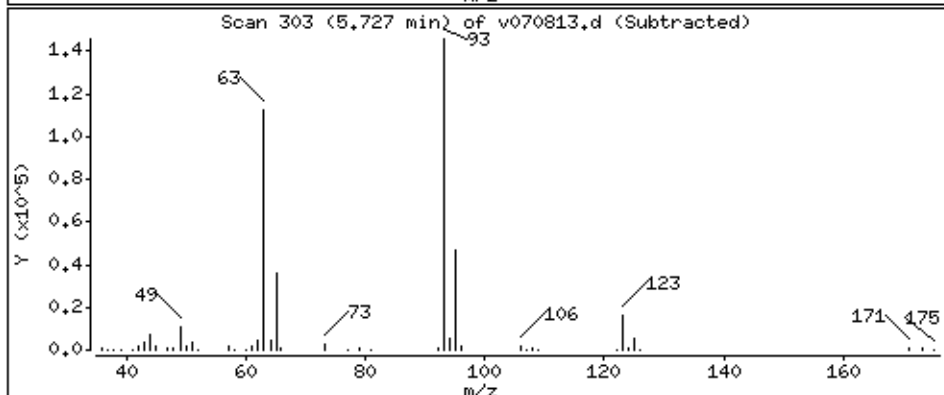
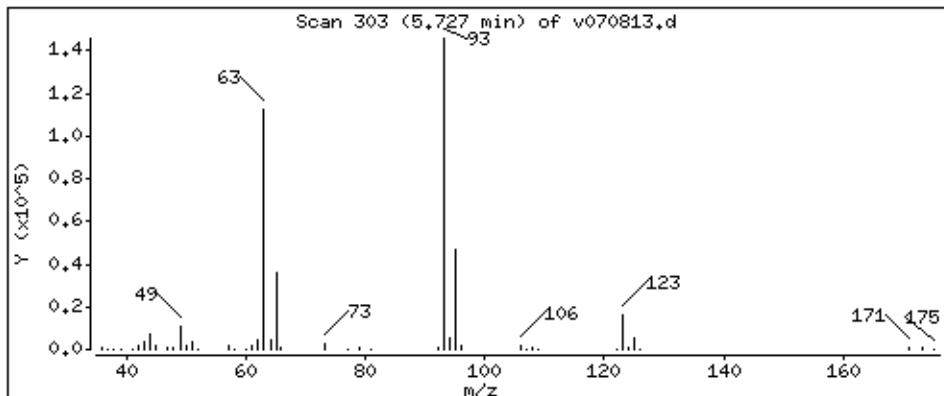
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

23 bis(2-Chloroethoxy)methane

Concentration: 45.06 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

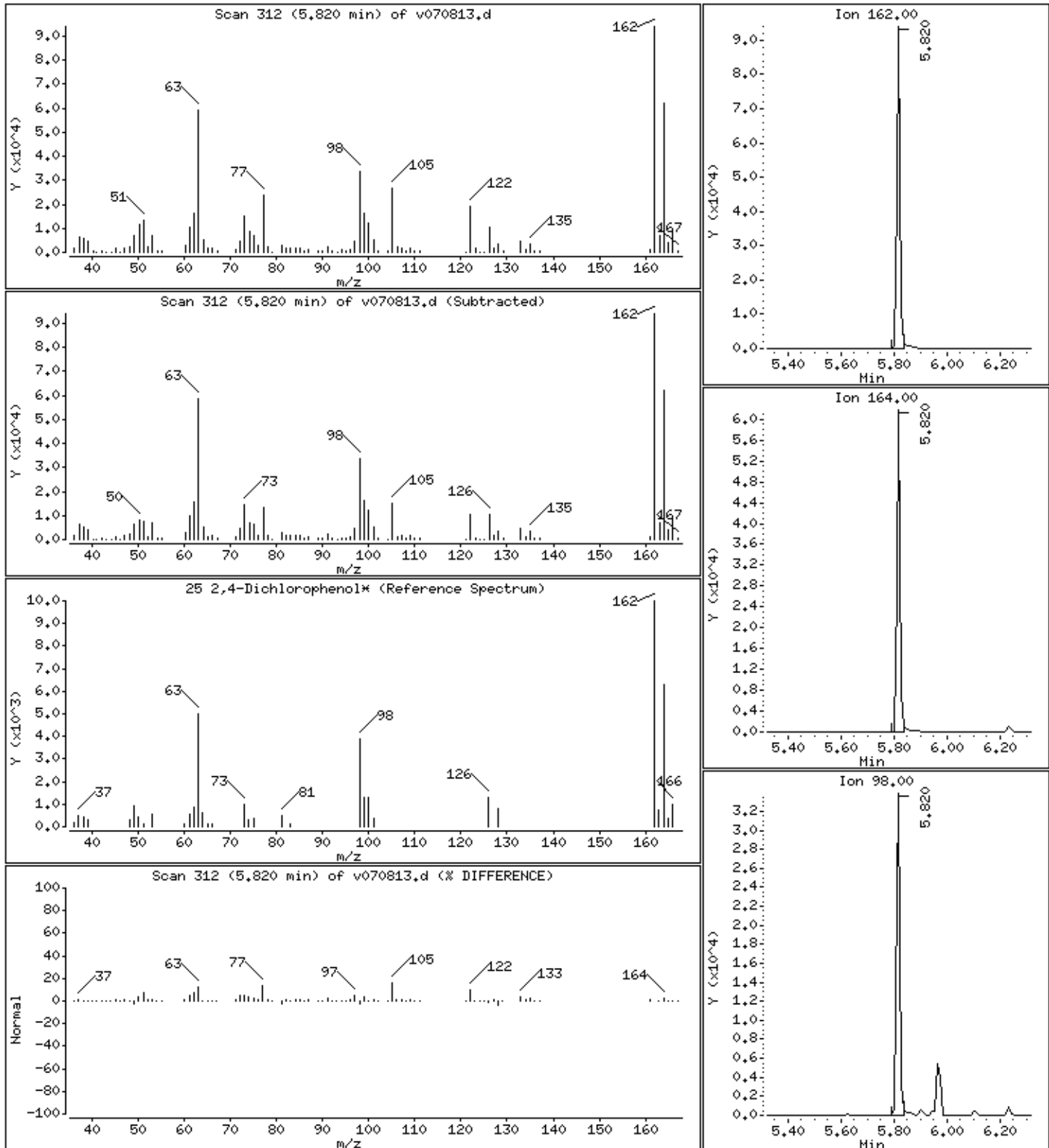
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

25 2,4-Dichlorophenol*

Concentration: 46.90 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

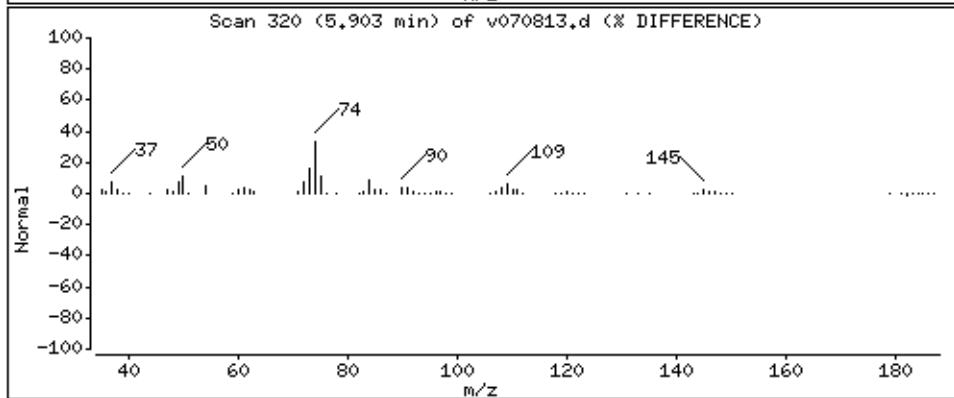
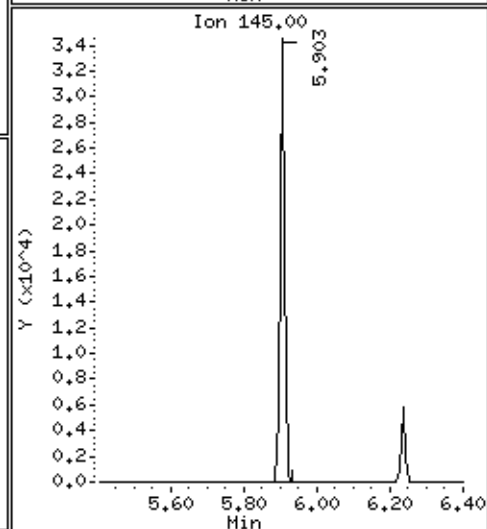
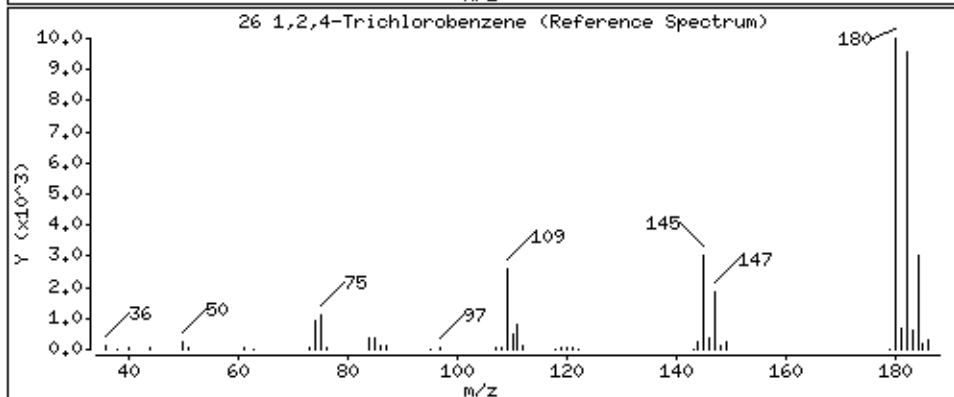
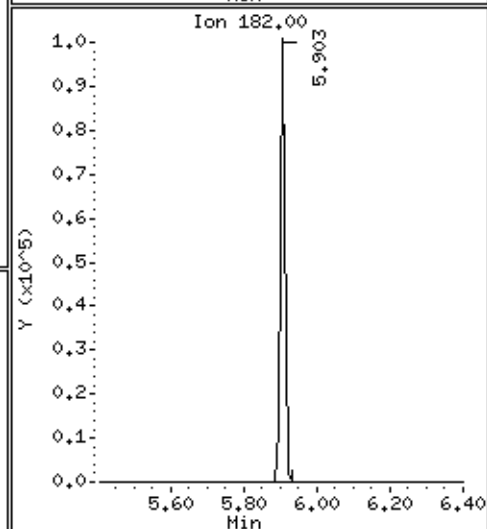
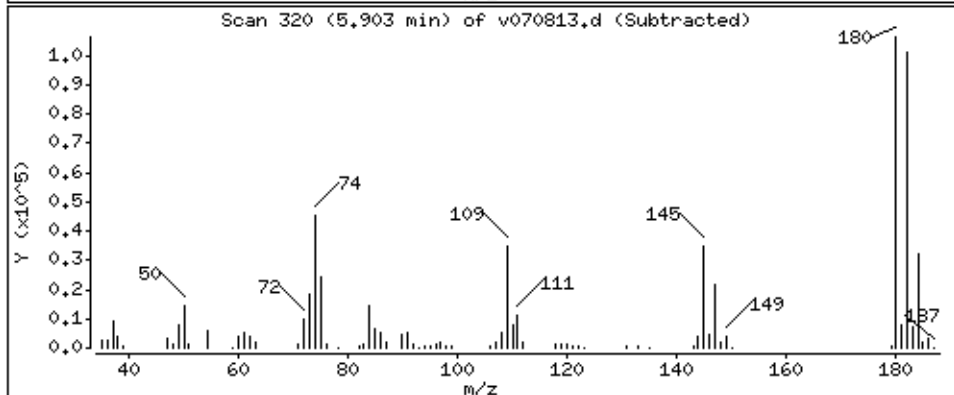
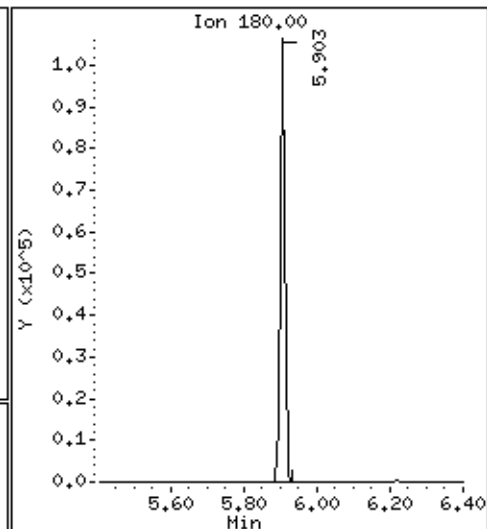
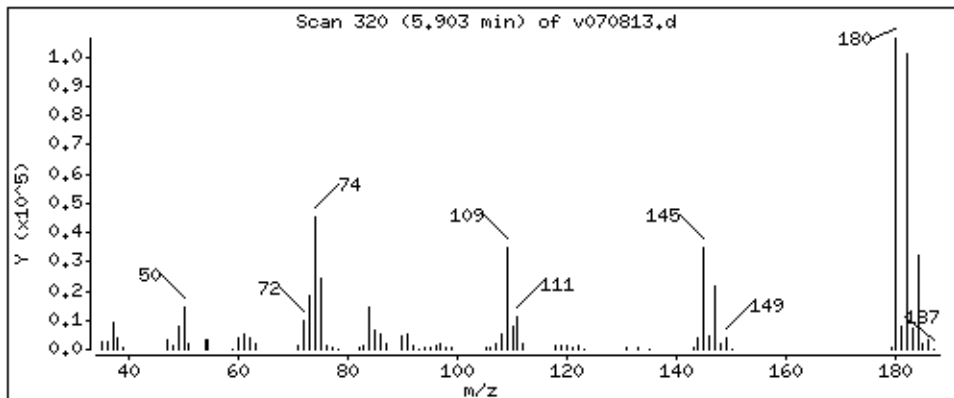
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 47.11 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

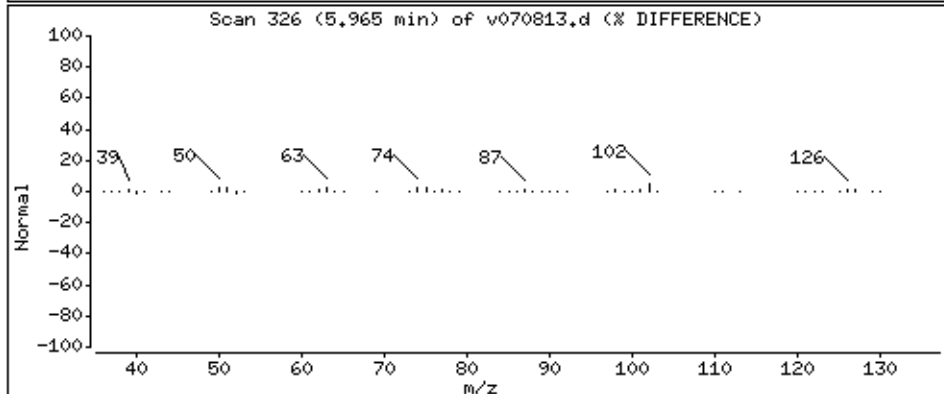
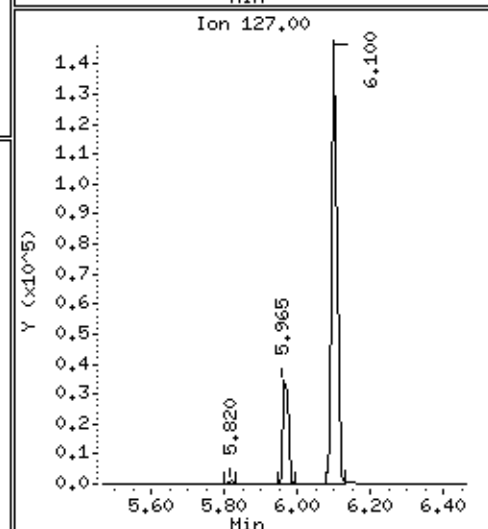
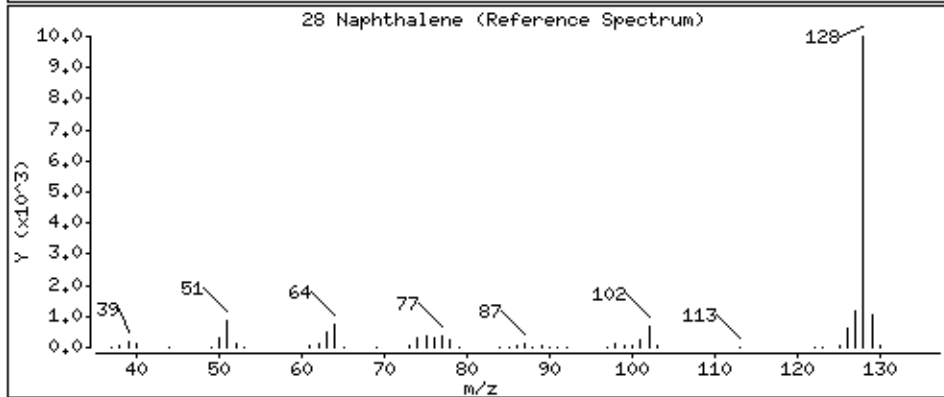
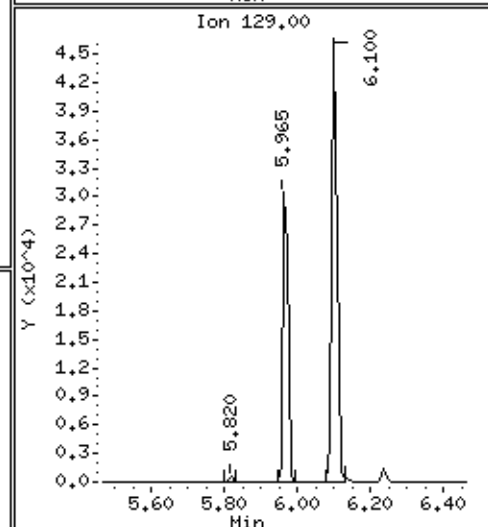
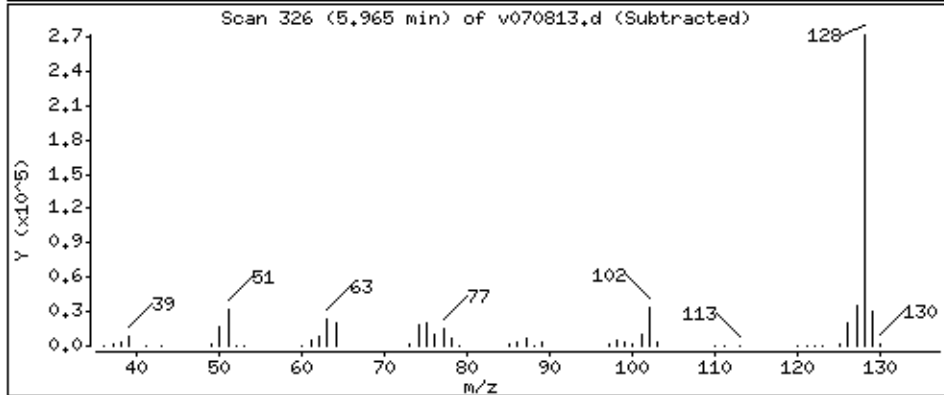
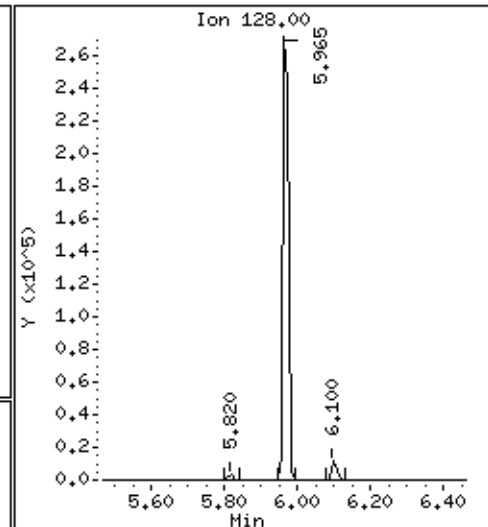
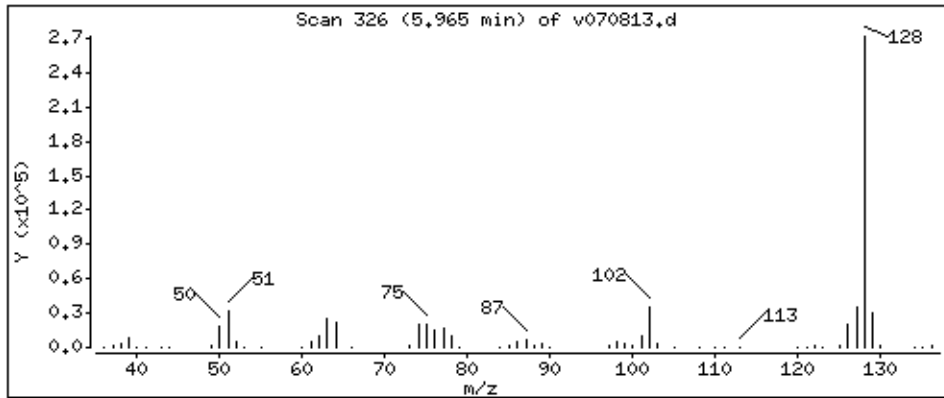
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

28 Naphthalene

Concentration: 45.26 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

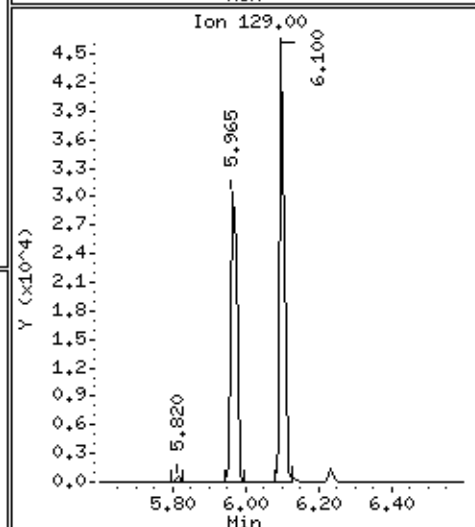
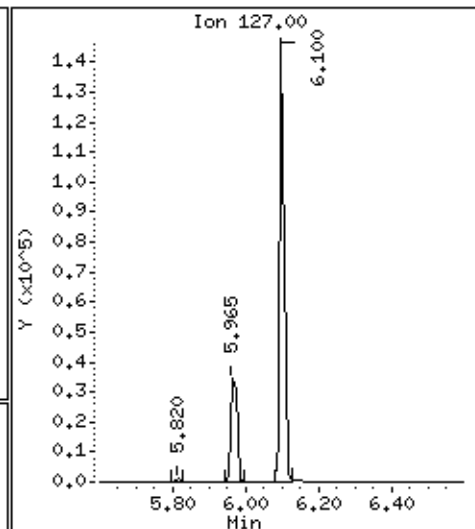
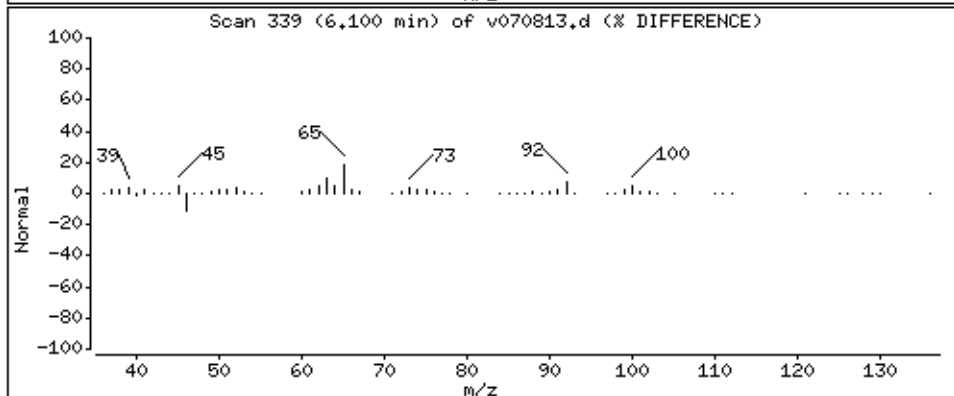
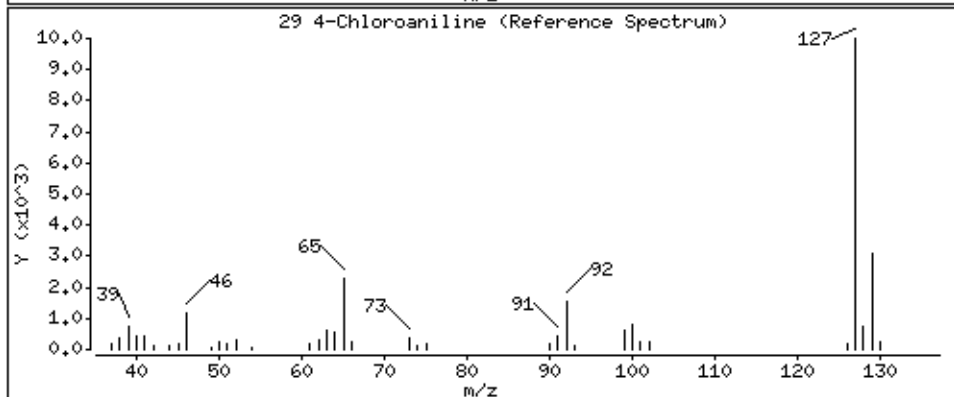
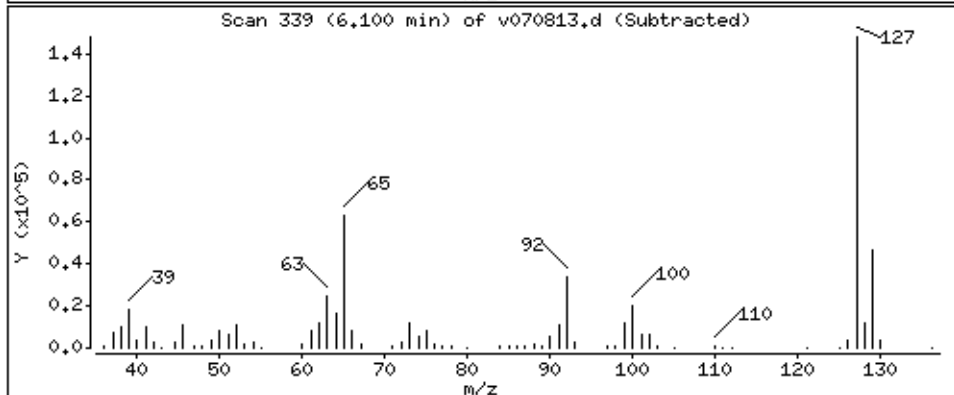
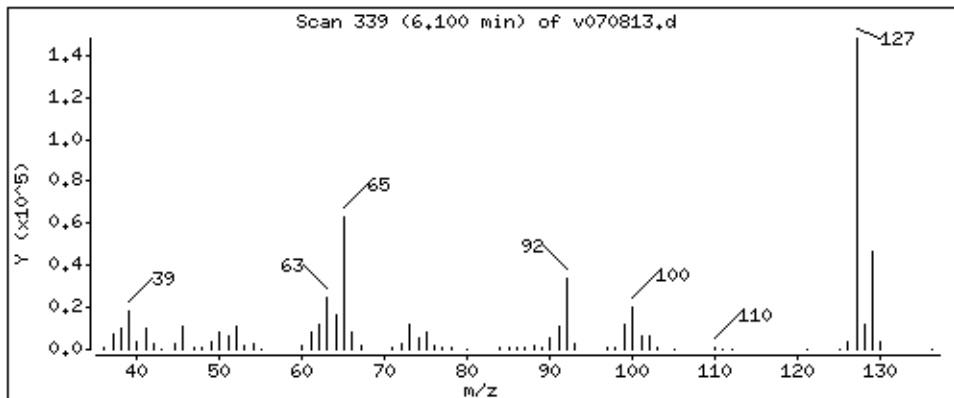
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

29 4-Chloroaniline

Concentration: 46.86 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

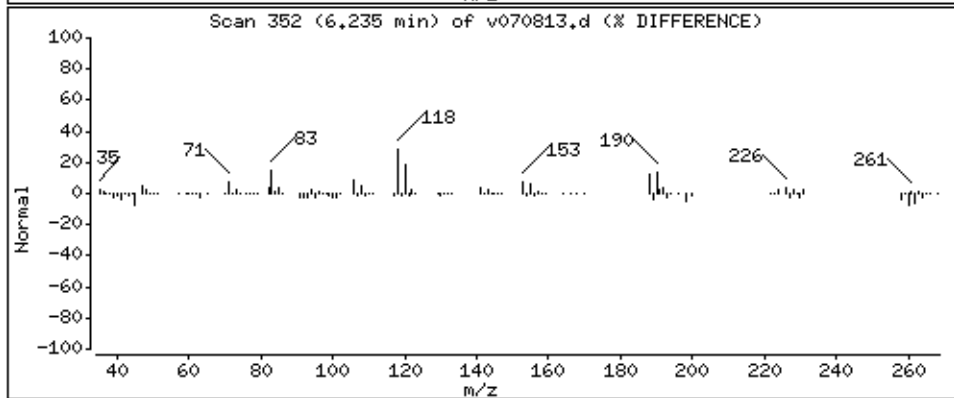
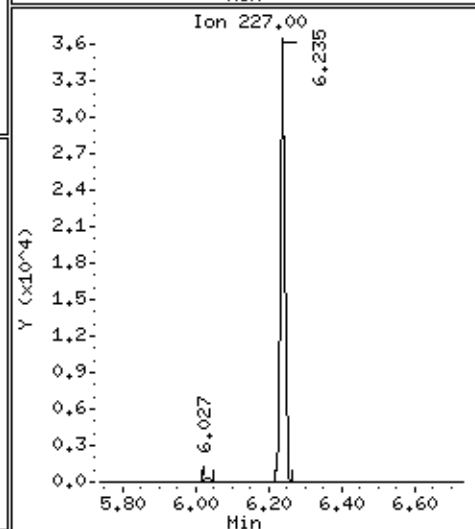
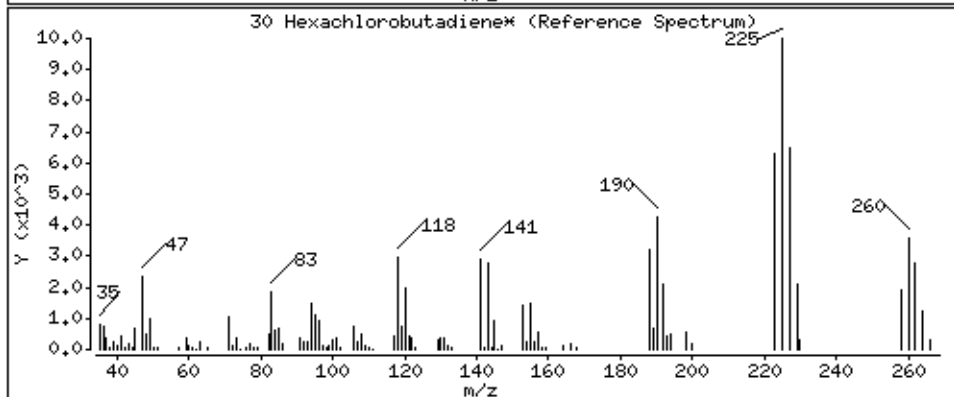
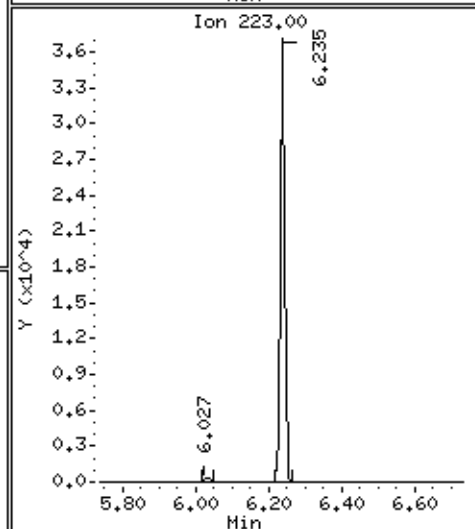
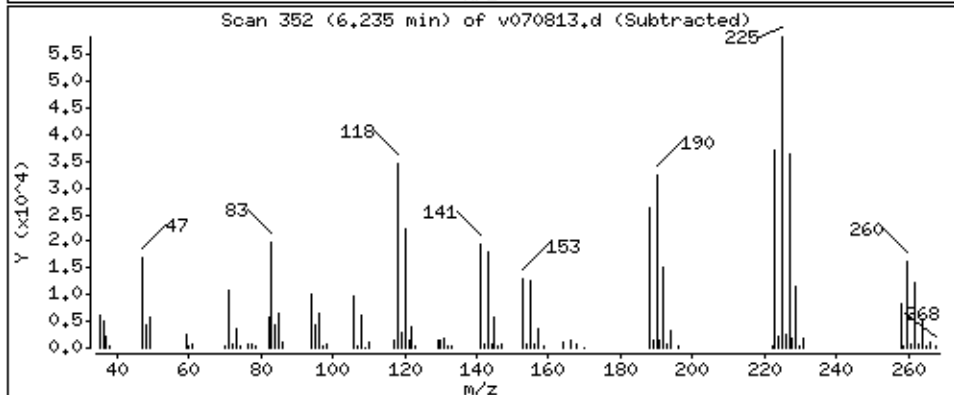
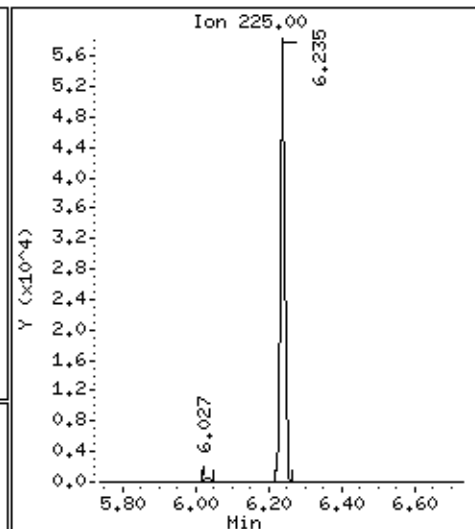
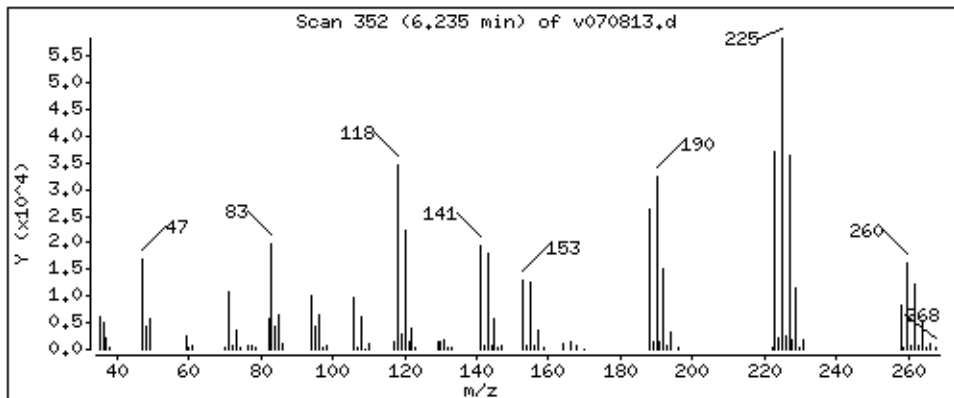
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

30 Hexachlorobutadiene*

Concentration: 48.12 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

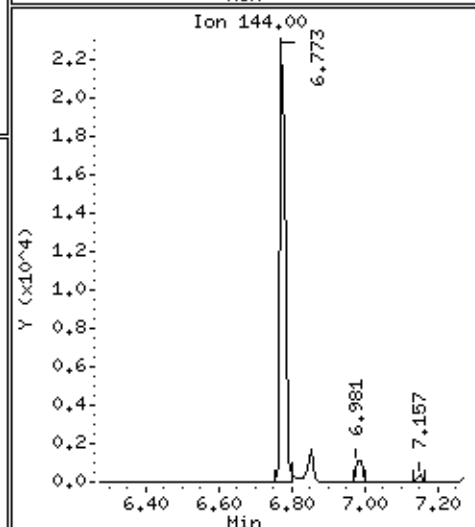
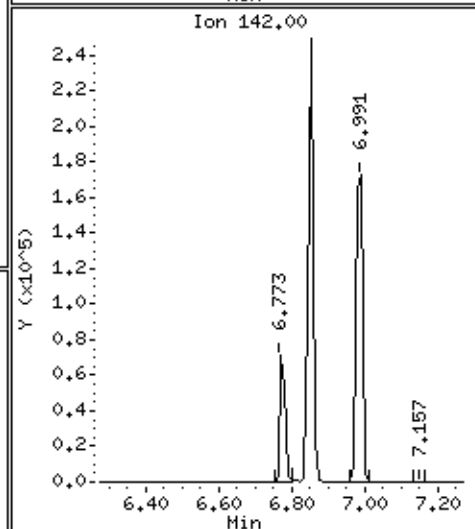
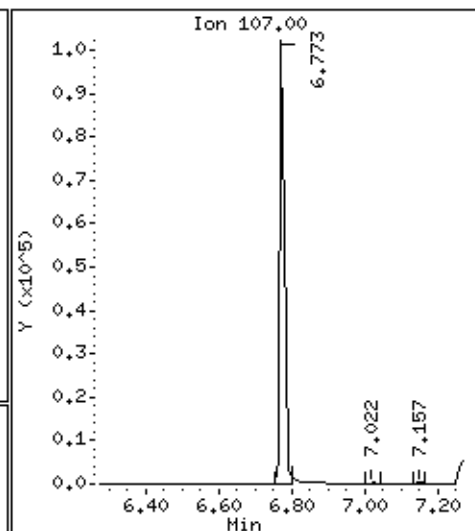
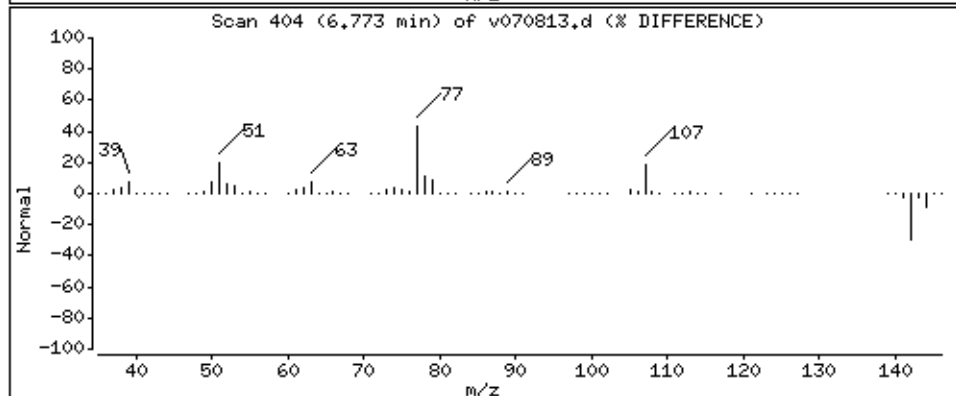
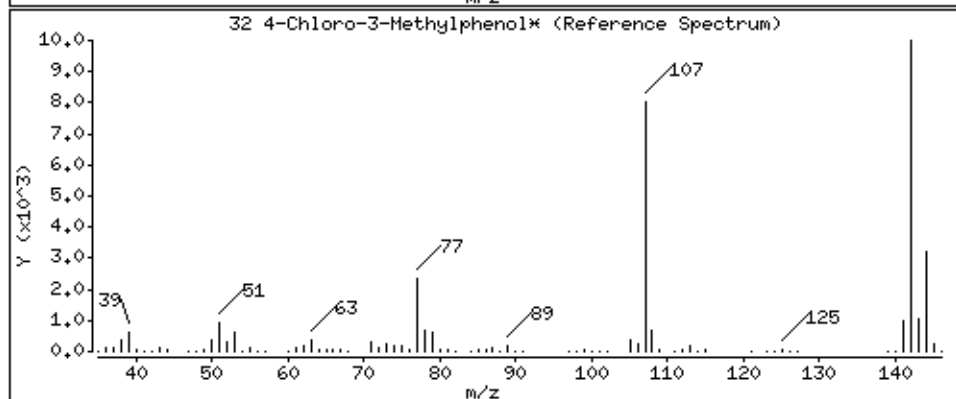
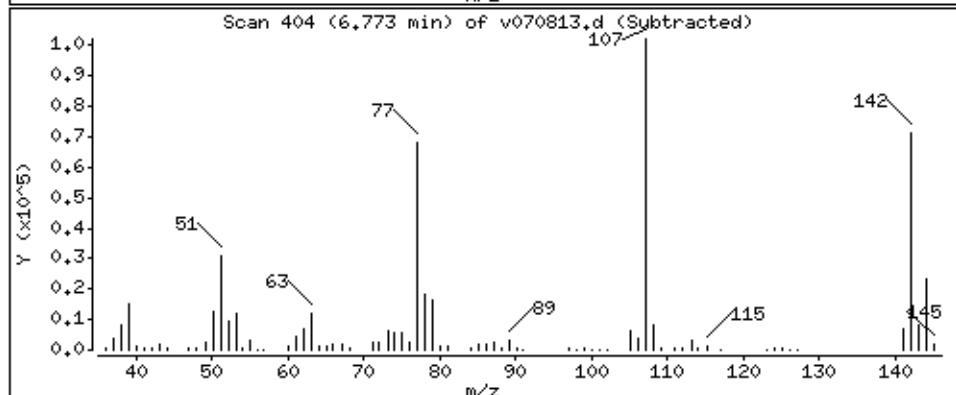
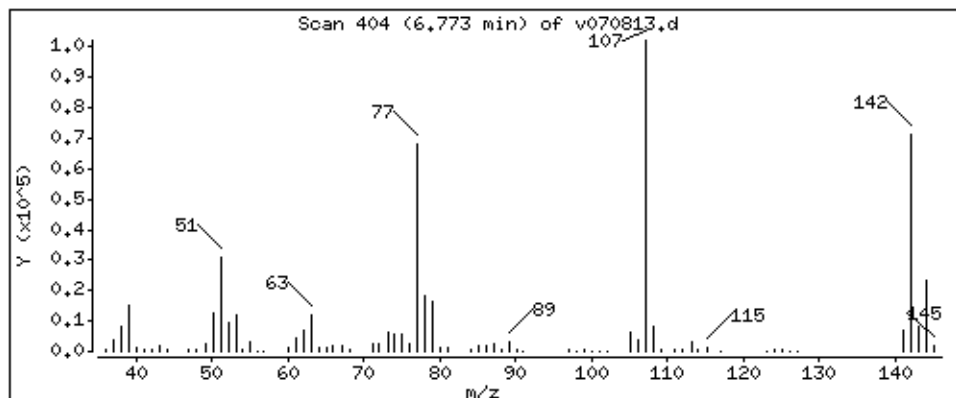
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

32 4-Chloro-3-Methylphenol*

Concentration: 45.09 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

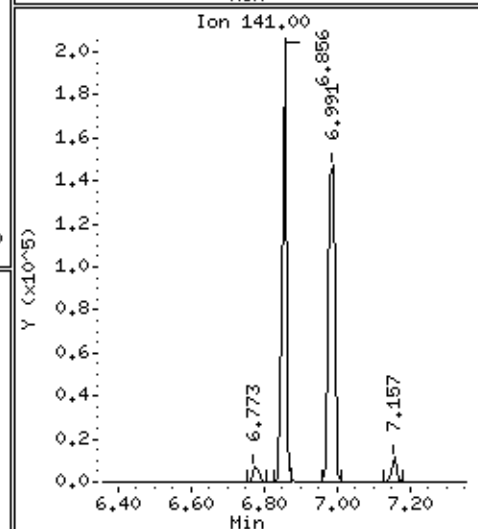
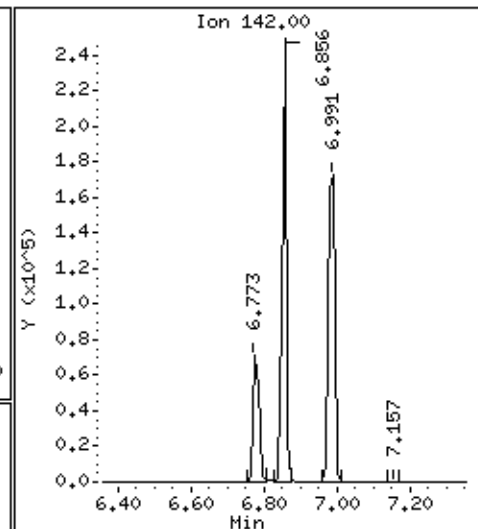
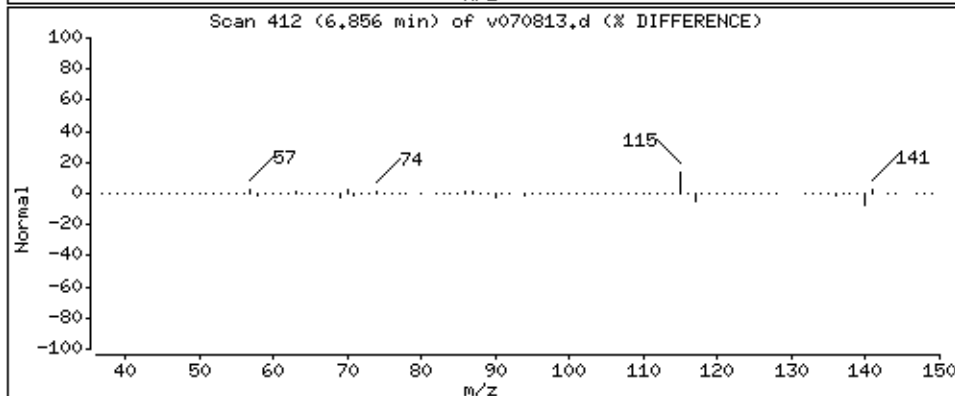
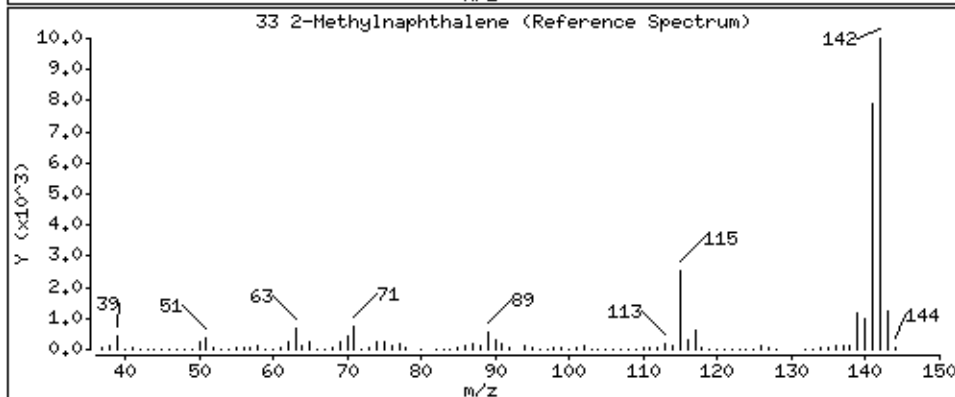
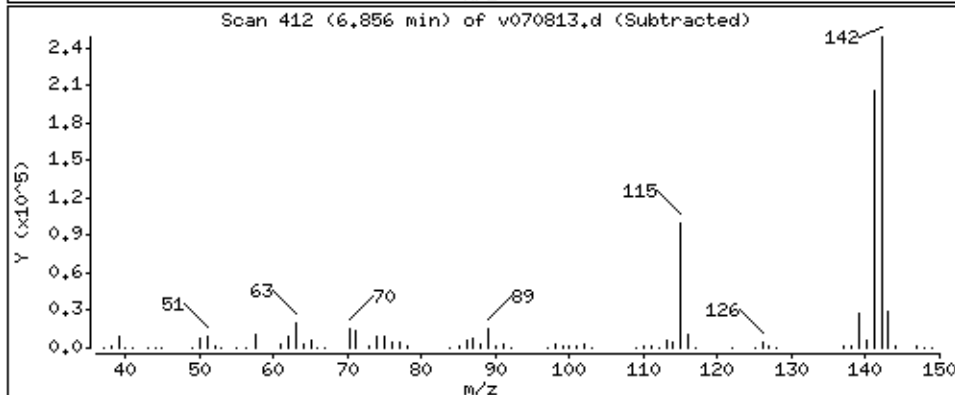
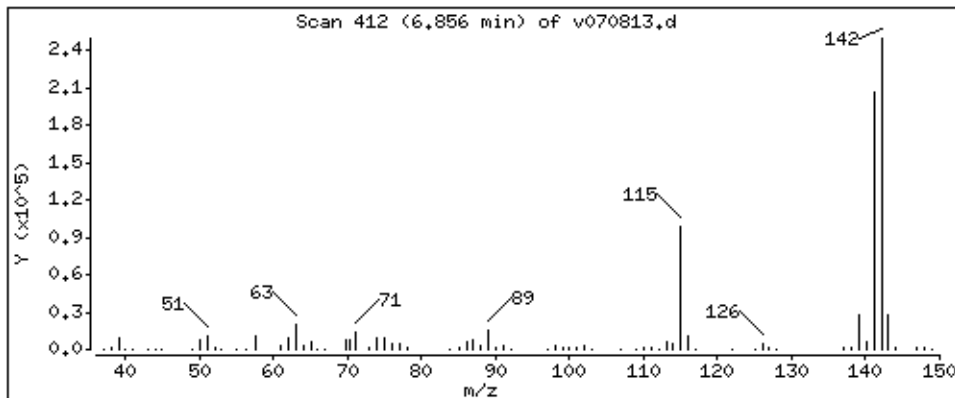
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

33 2-Methylnaphthalene

Concentration: 46.66 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

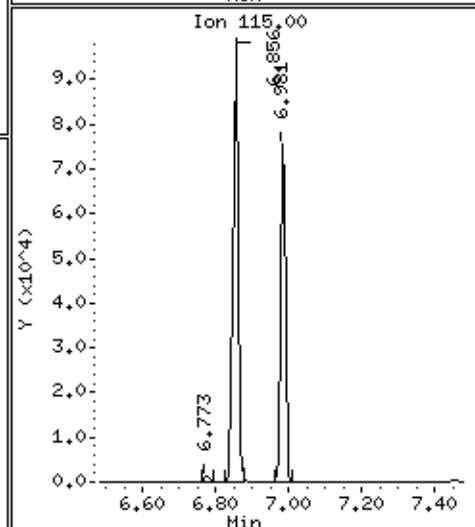
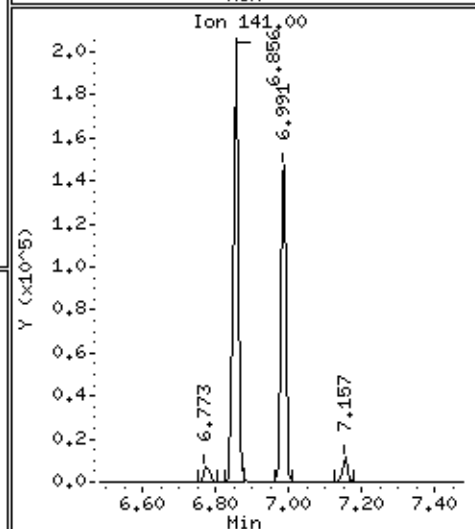
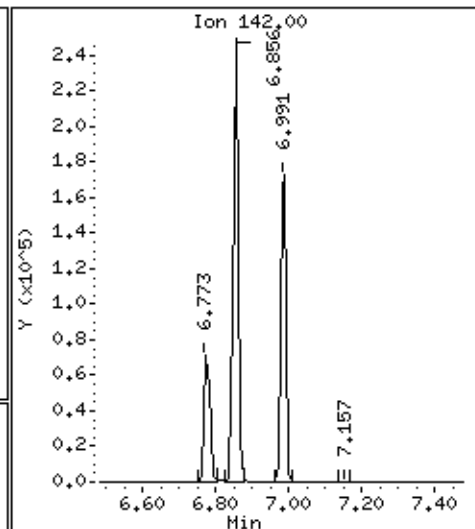
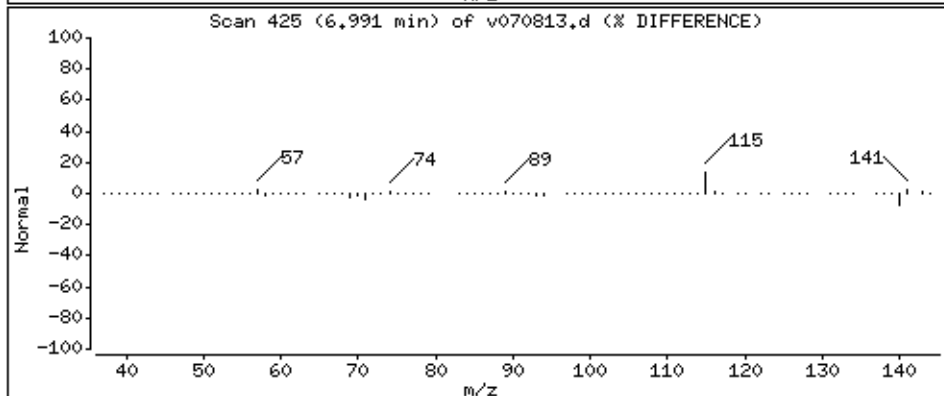
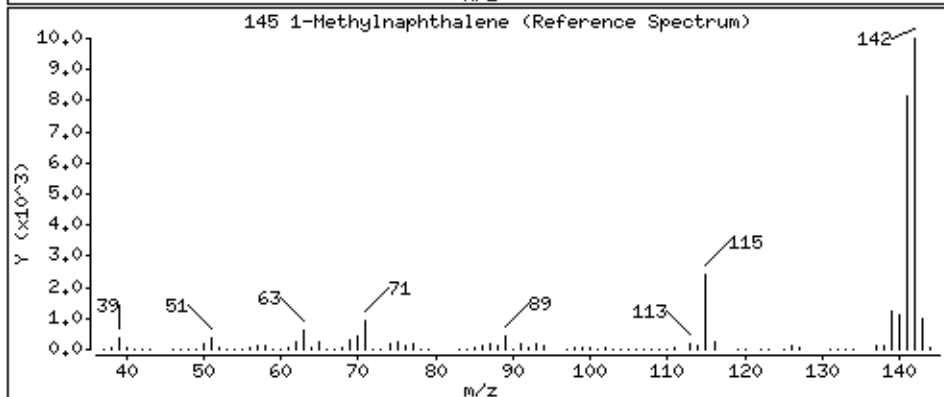
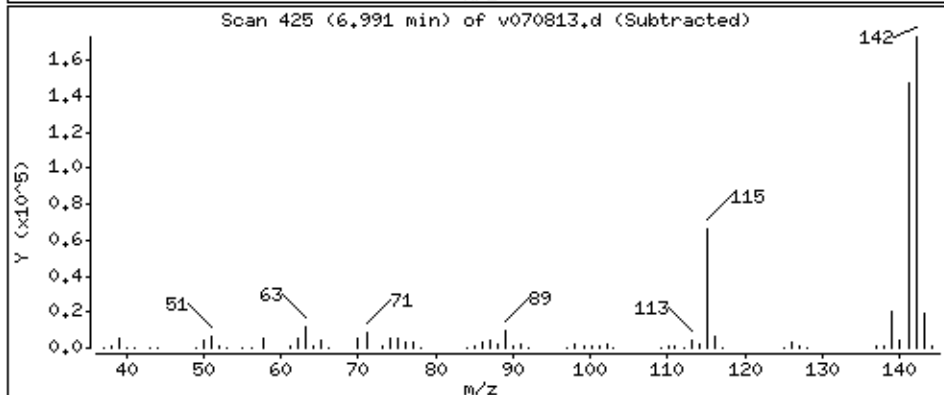
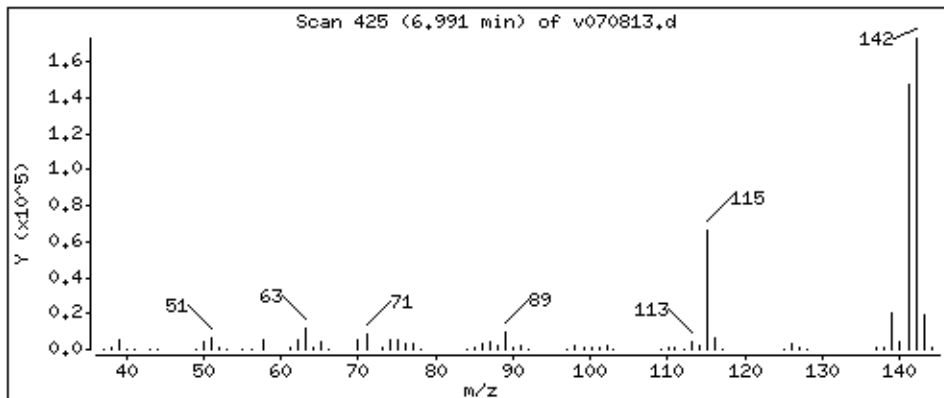
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

145 1-Methylnaphthalene

Concentration: 45.68 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

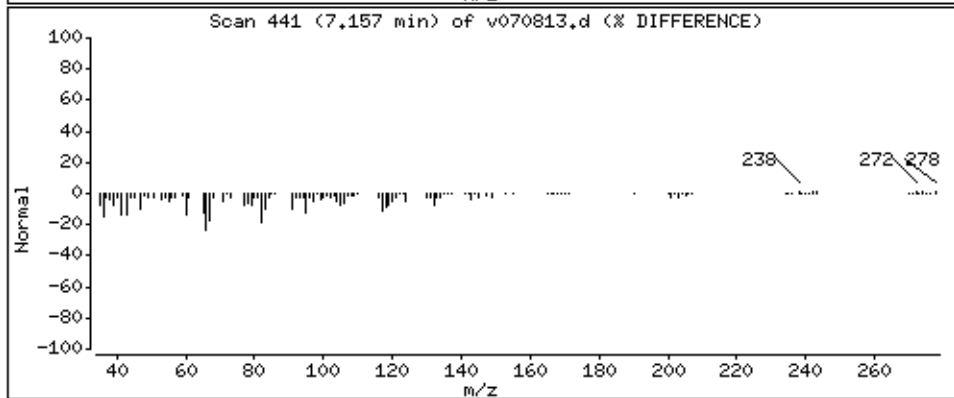
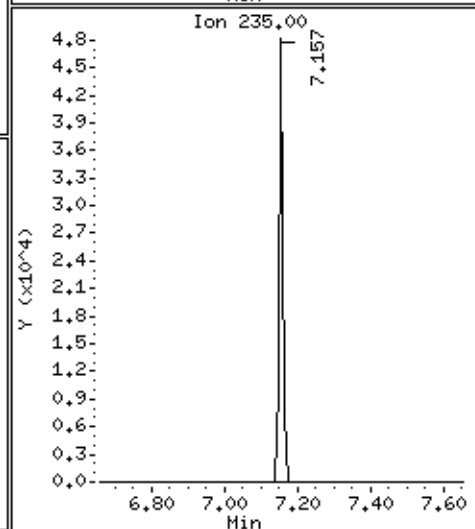
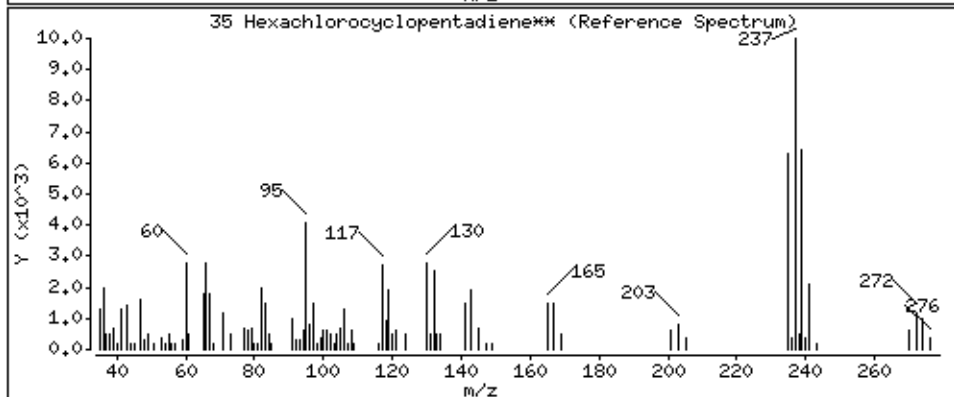
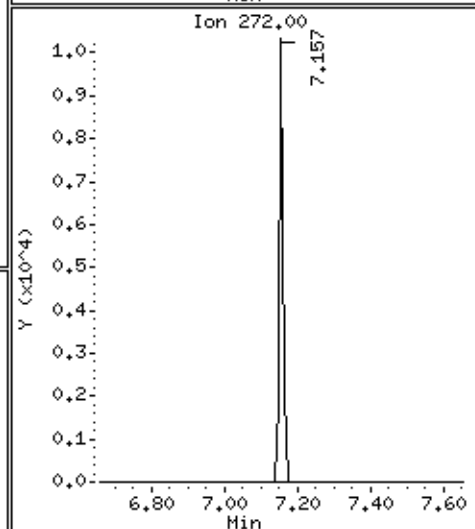
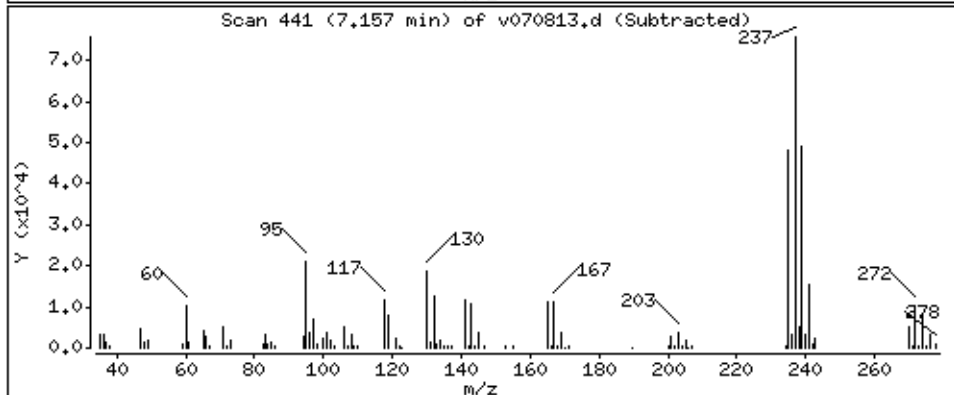
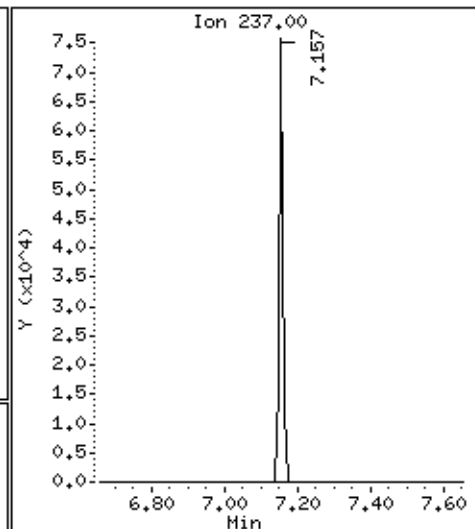
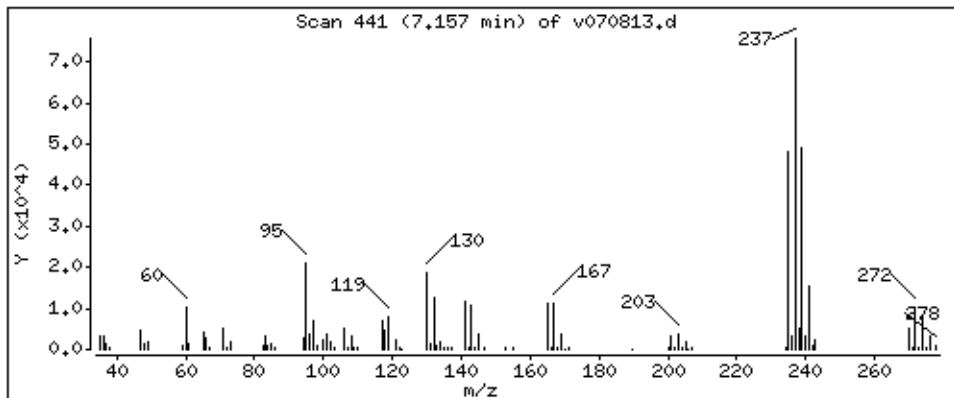
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

35 Hexachlorocyclopentadiene**

Concentration: 53.64 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

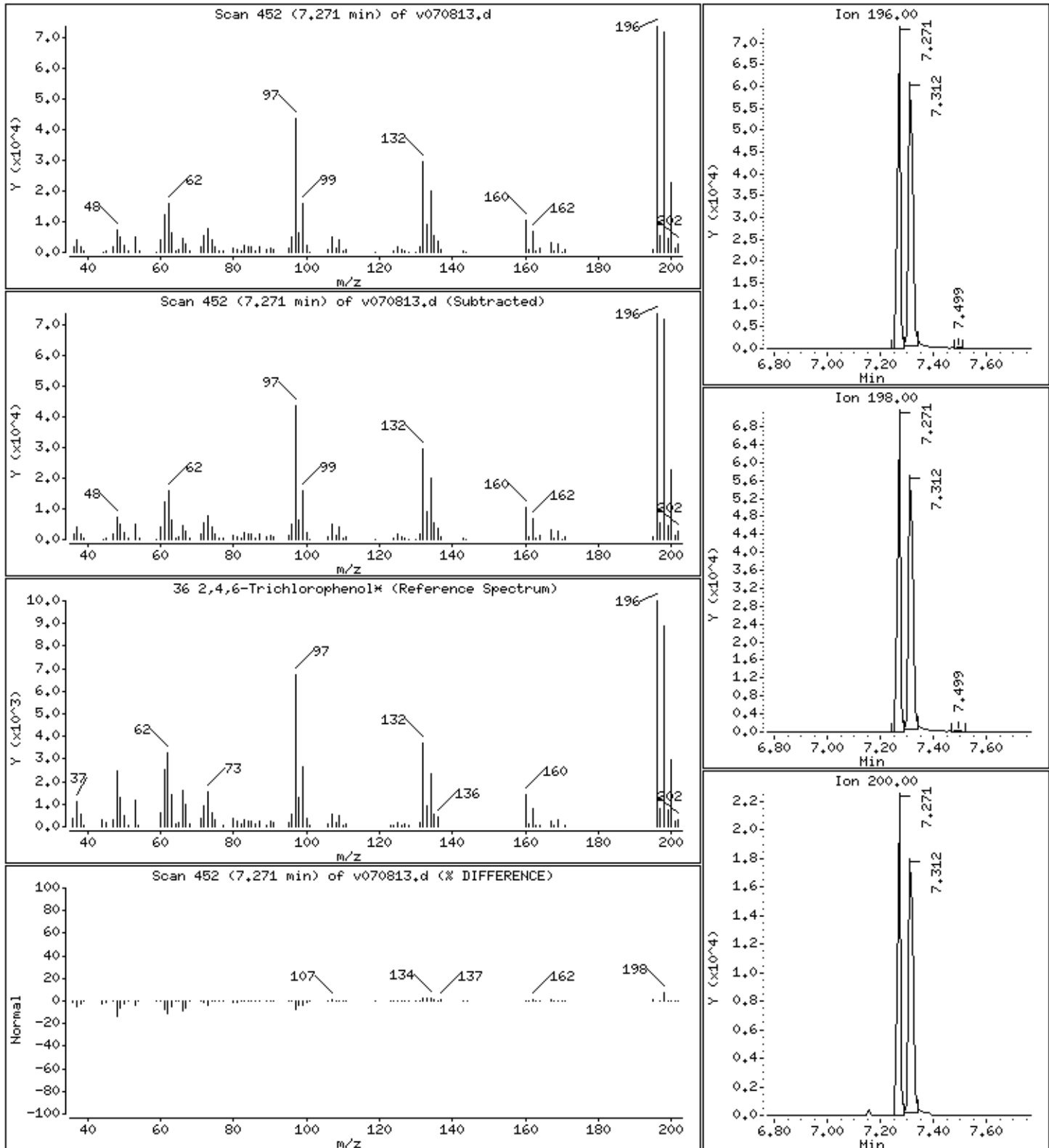
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

36 2,4,6-Trichlorophenol*

Concentration: 48.48 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

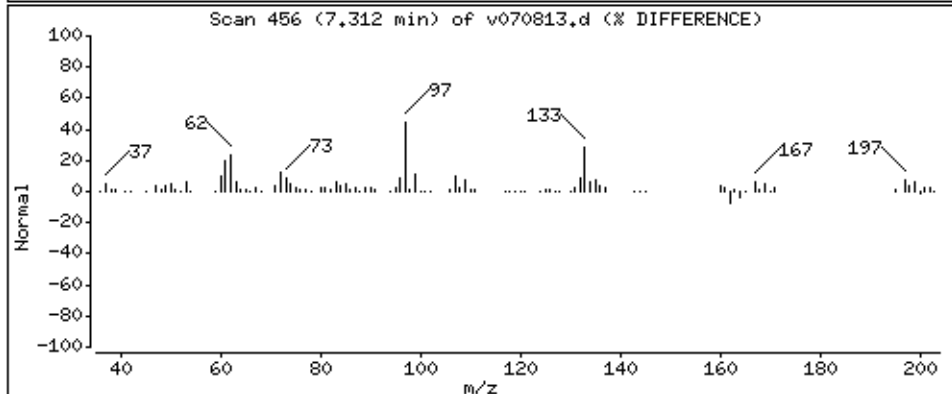
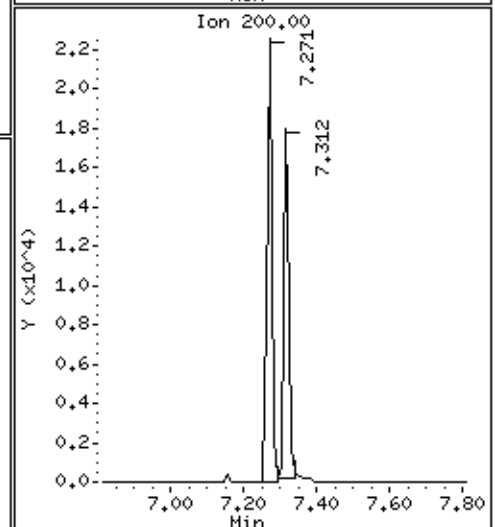
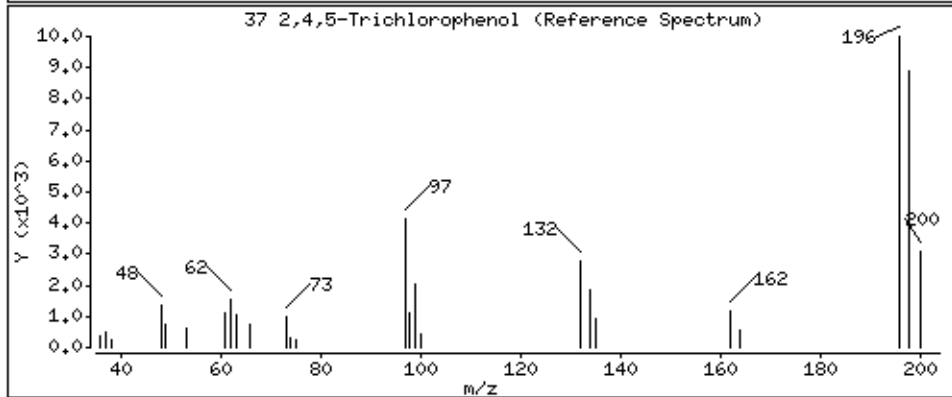
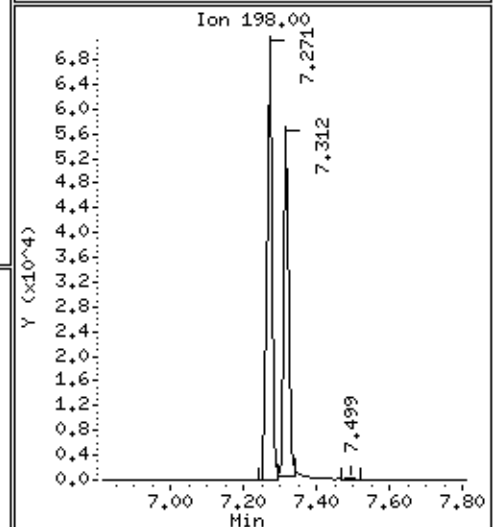
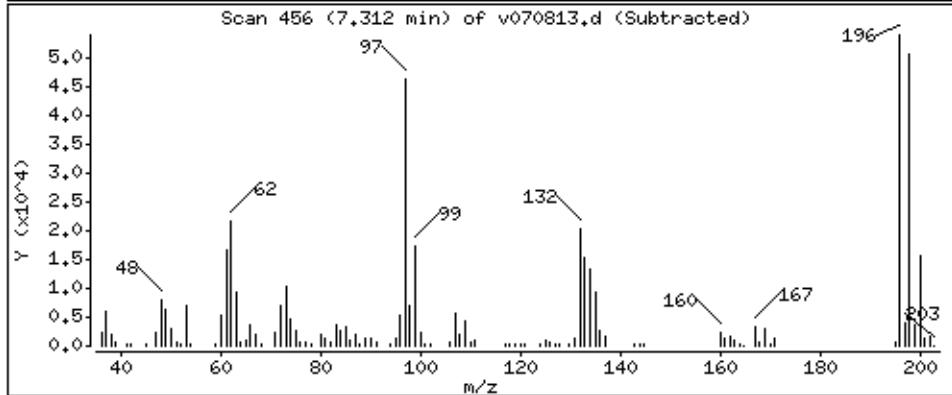
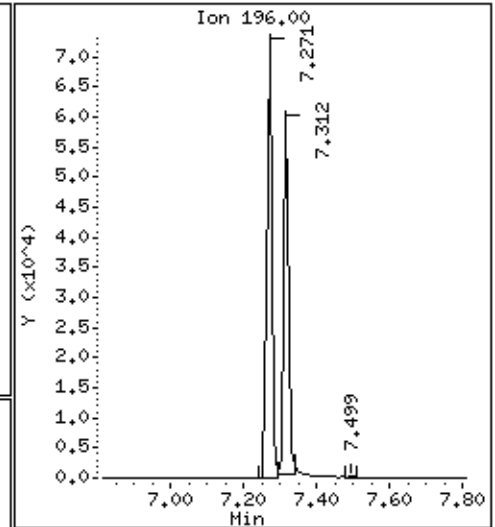
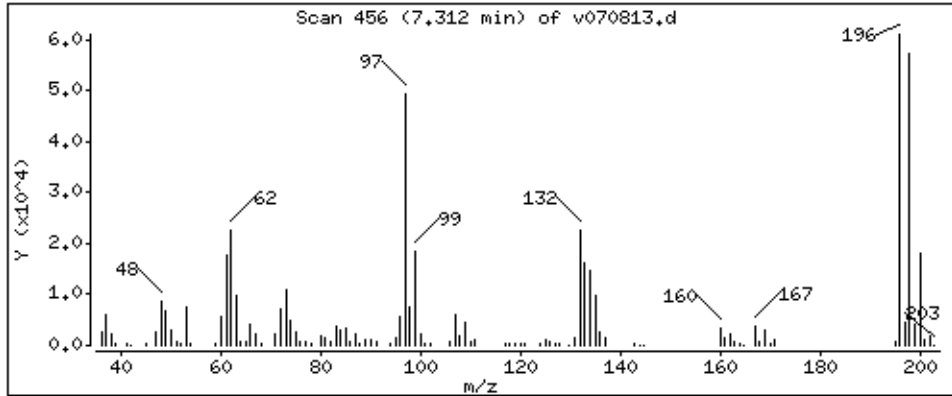
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

37 2,4,5-Trichlorophenol

Concentration: 48.03 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

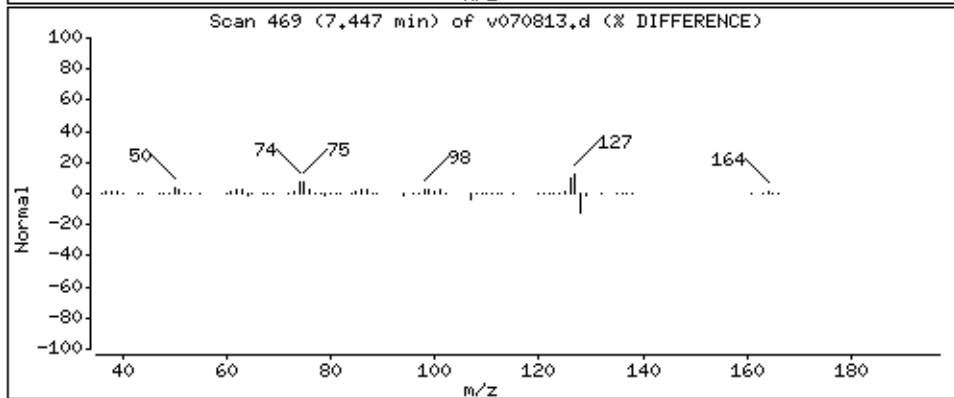
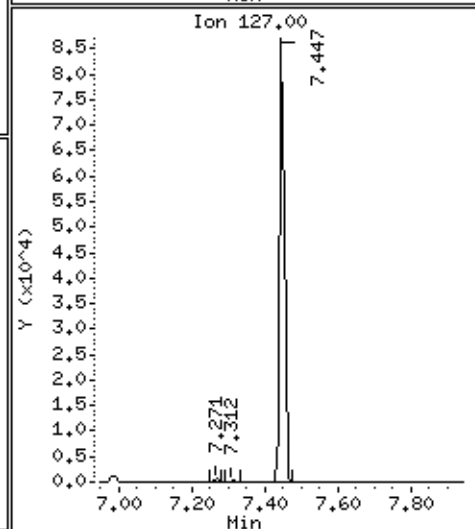
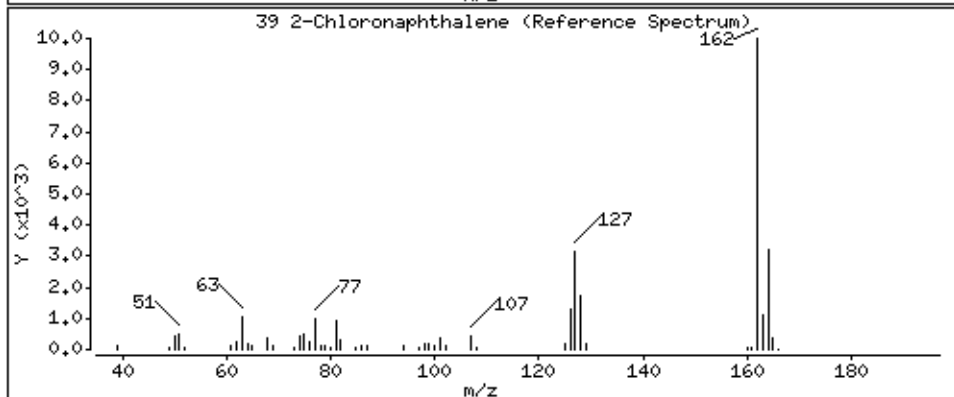
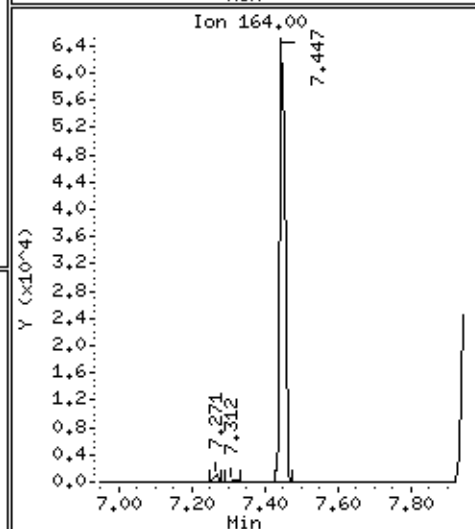
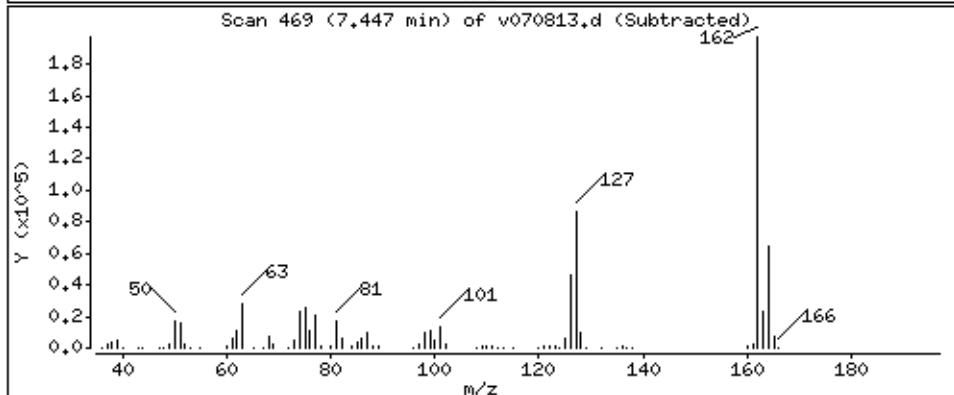
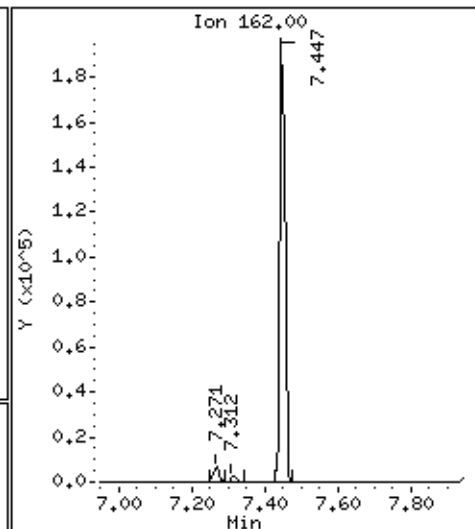
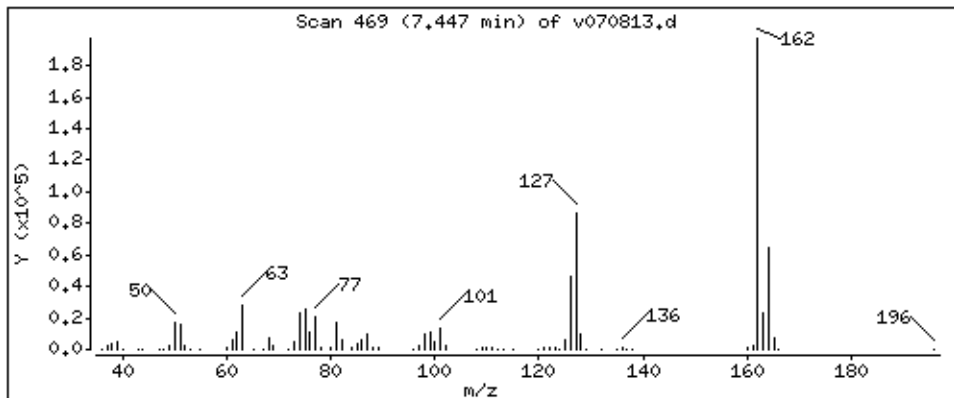
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

39 2-Chloronaphthalene

Concentration: 50.10 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

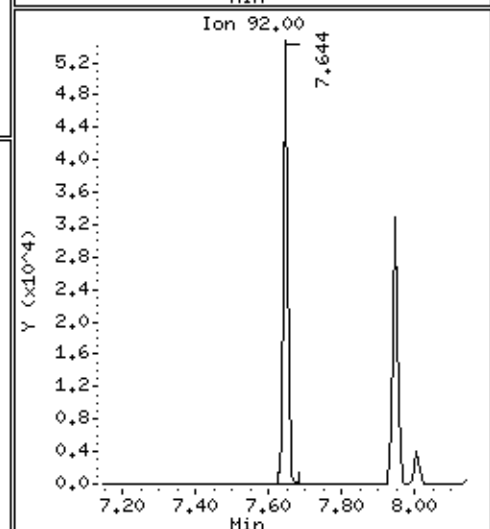
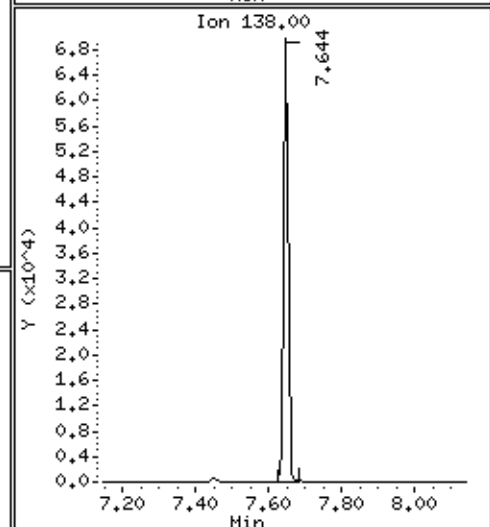
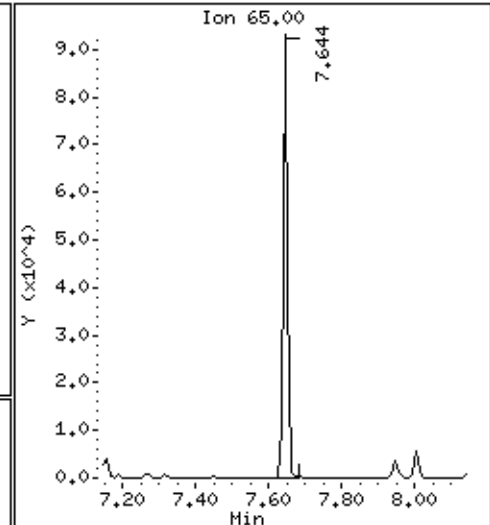
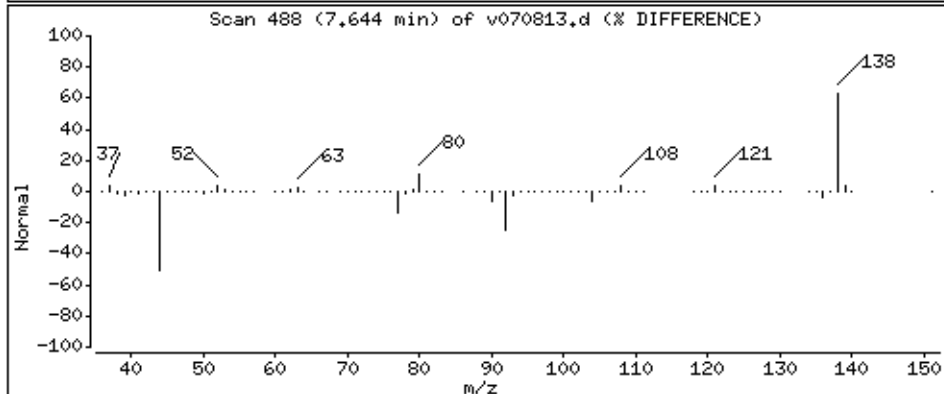
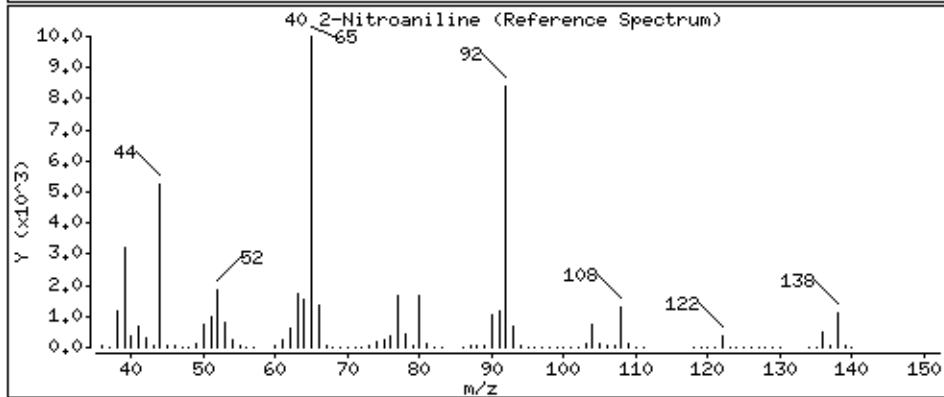
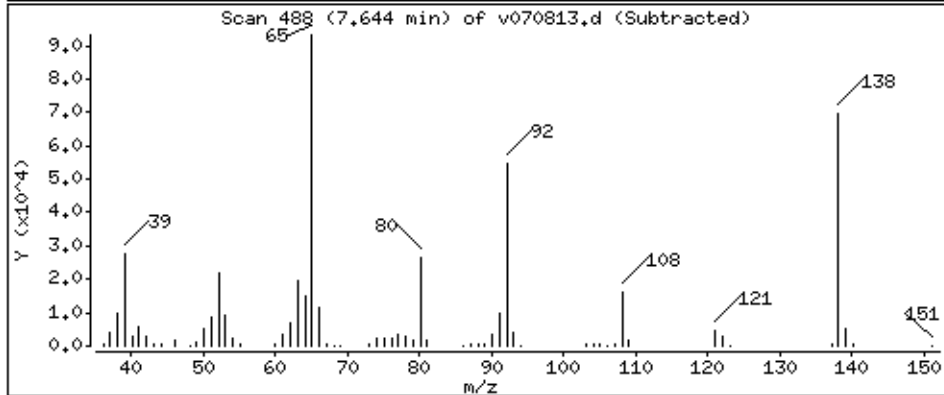
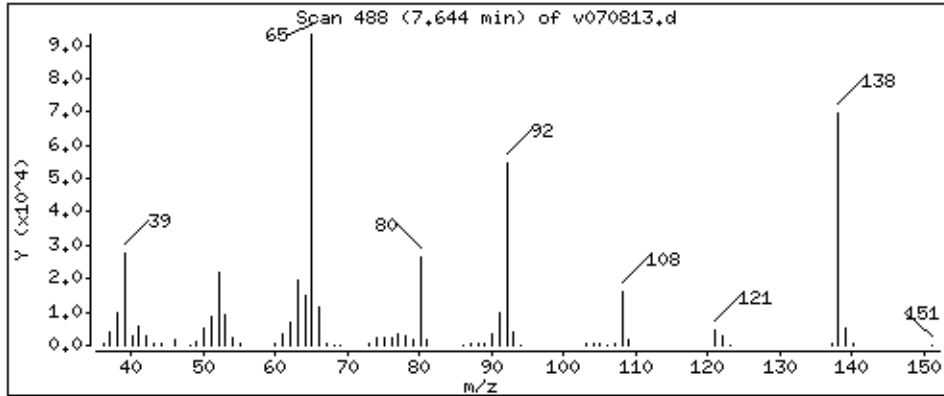
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

40 2-Nitroaniline

Concentration: 48.96 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

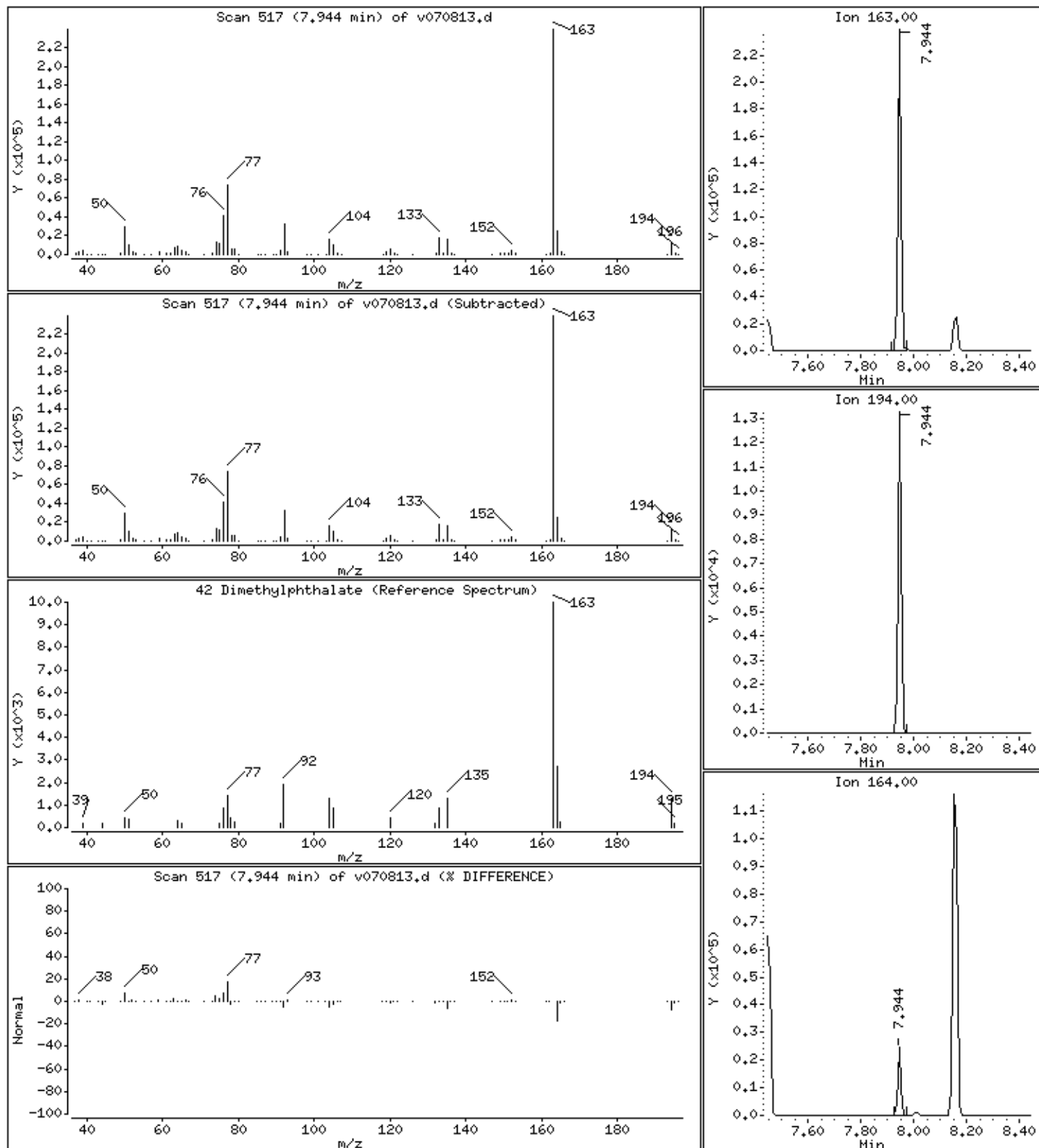
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

42 Dimethylphthalate

Concentration: 46.07 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

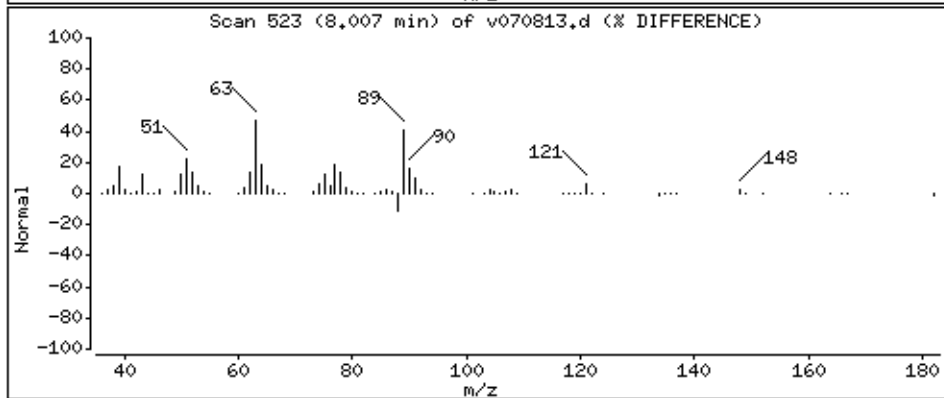
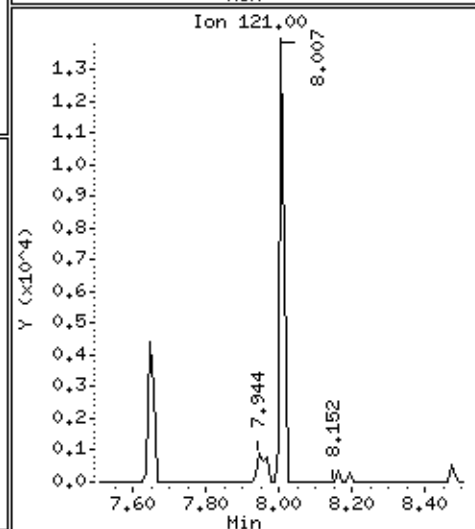
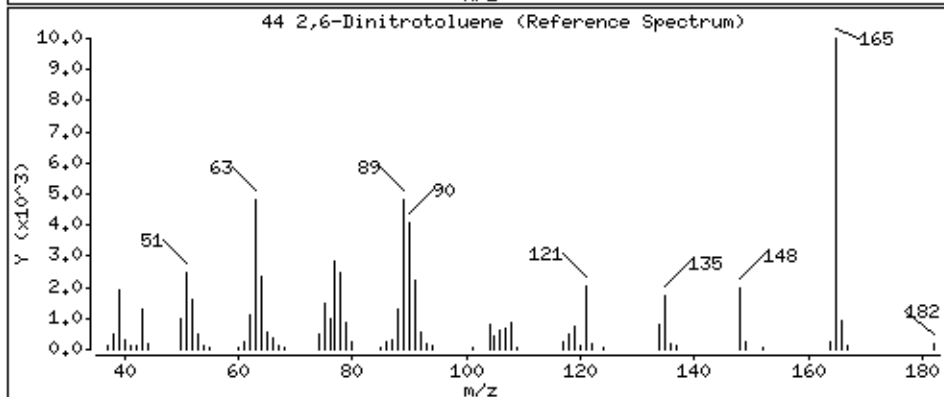
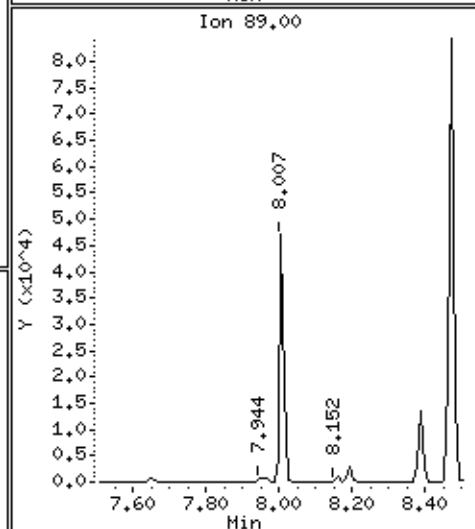
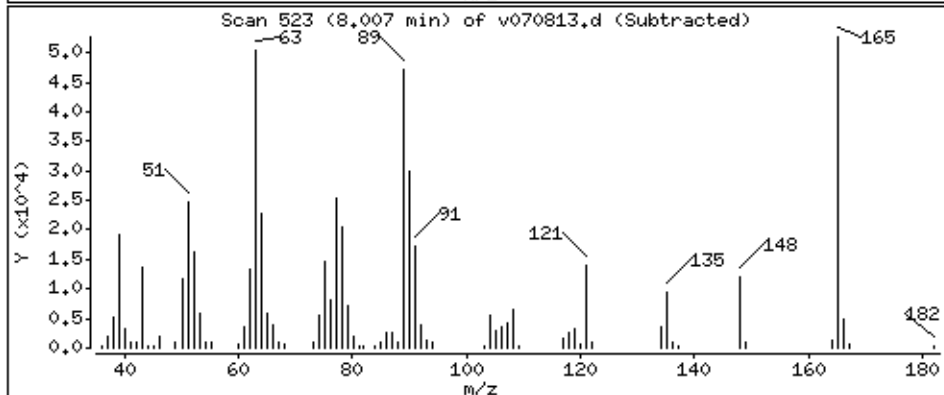
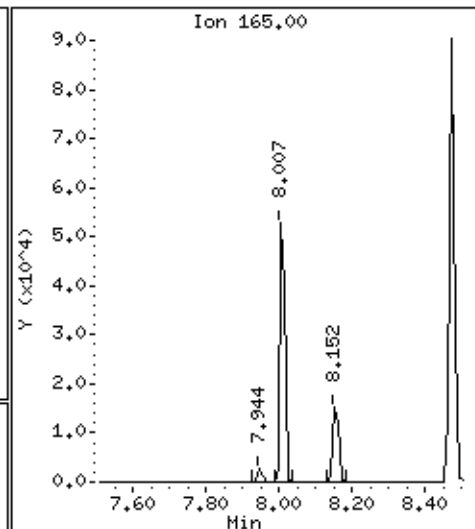
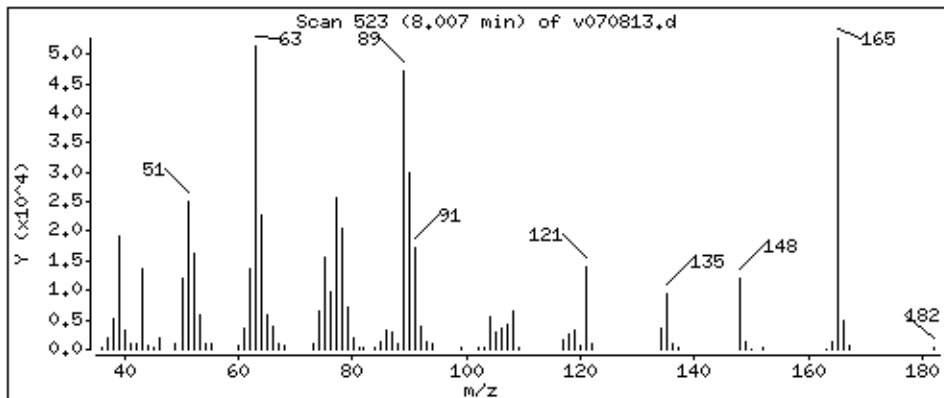
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

44 2,6-Dinitrotoluene

Concentration: 47.90 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

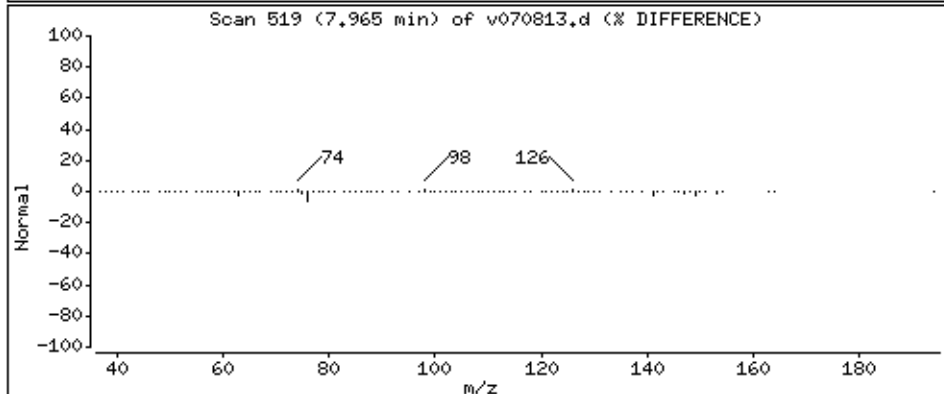
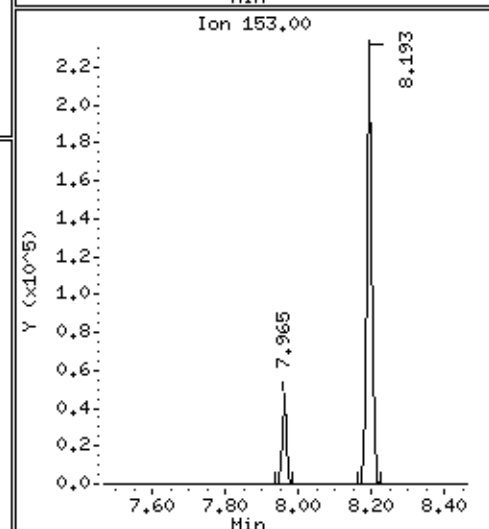
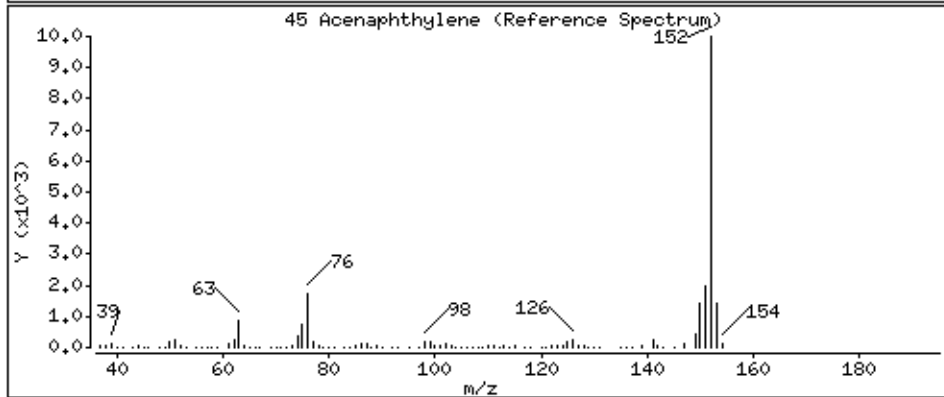
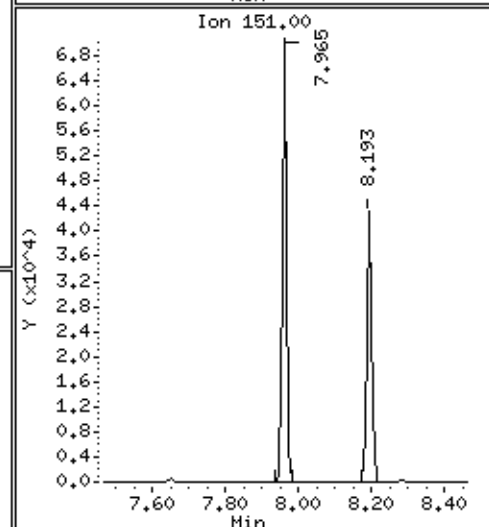
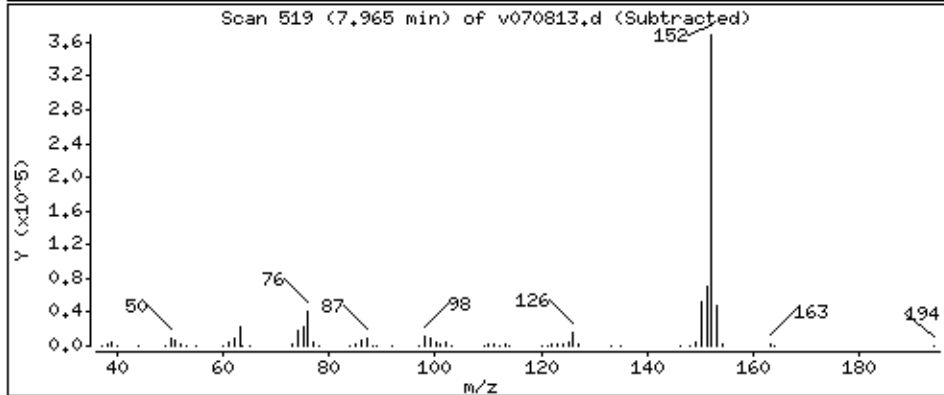
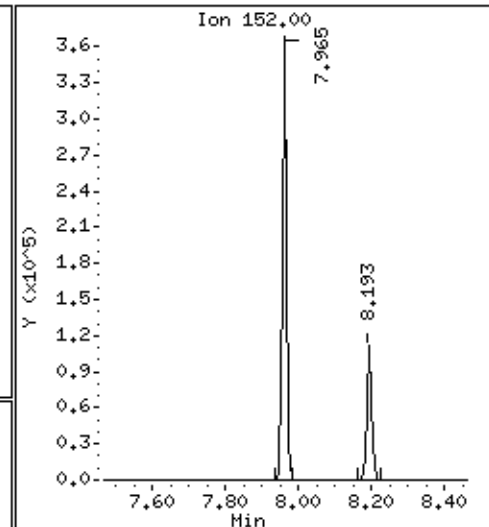
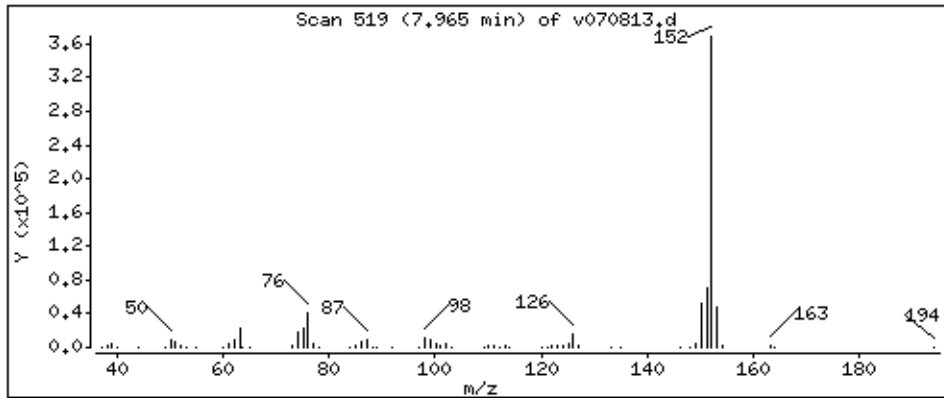
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

45 Acenaphthylene

Concentration: 48.77 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

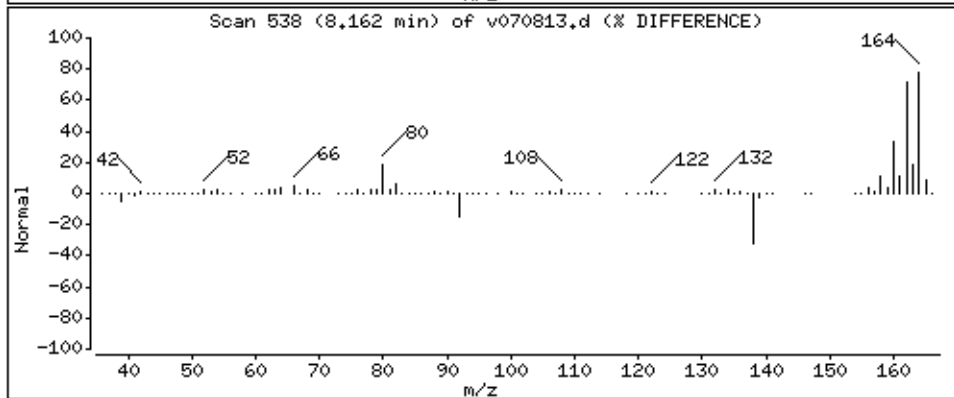
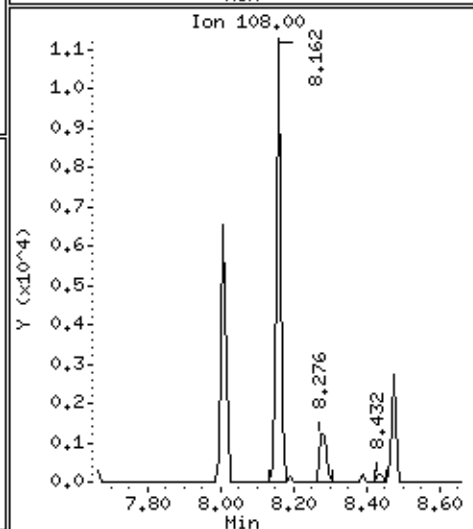
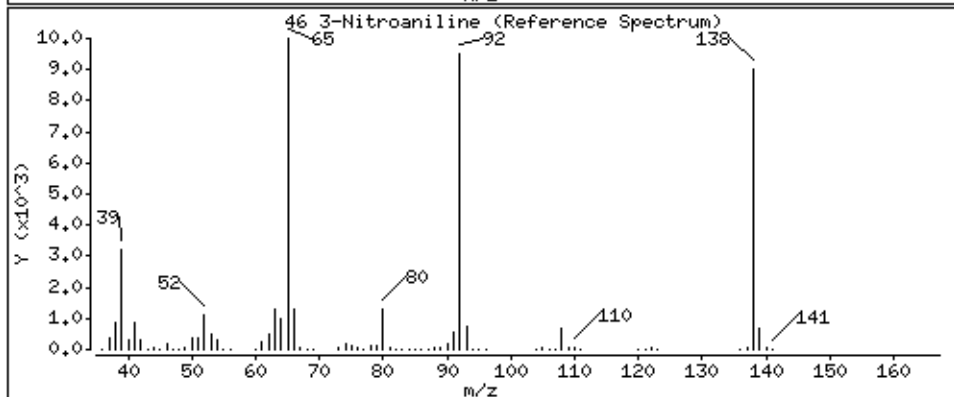
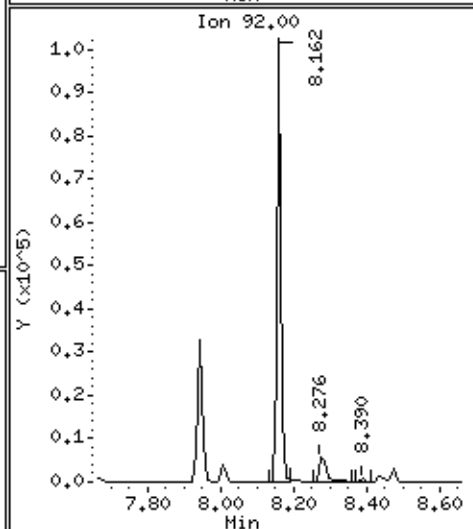
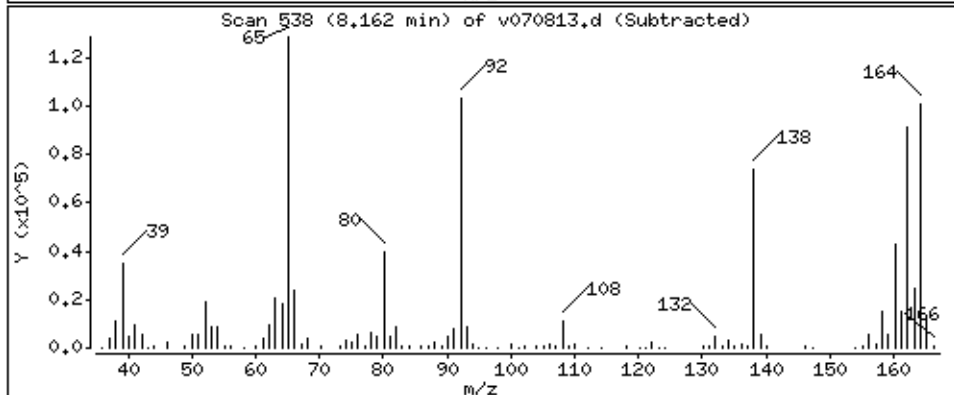
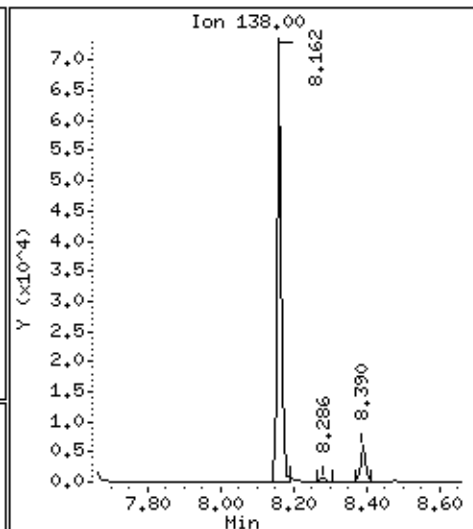
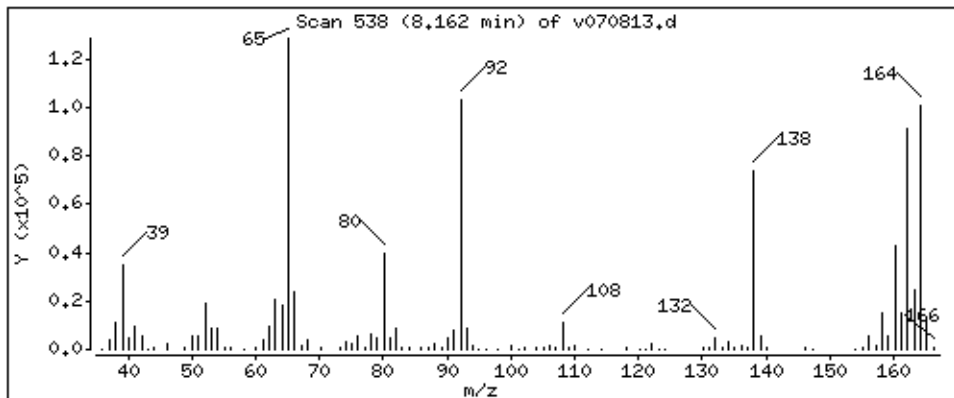
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

46 3-Nitroaniline

Concentration: 47.32 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

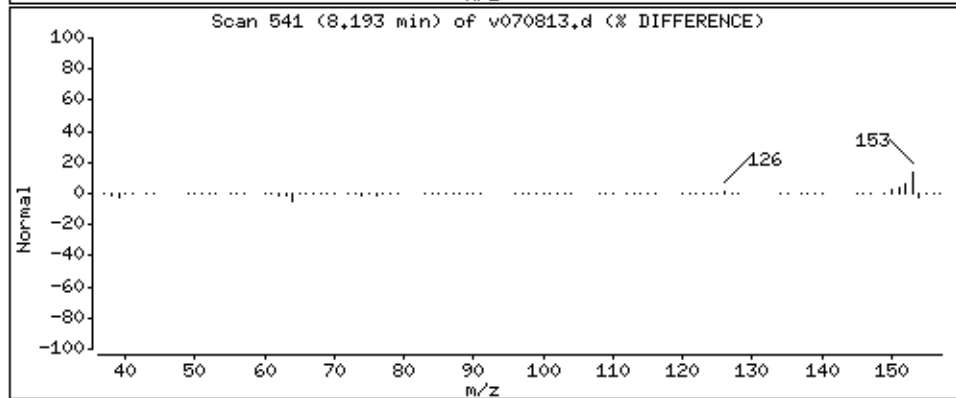
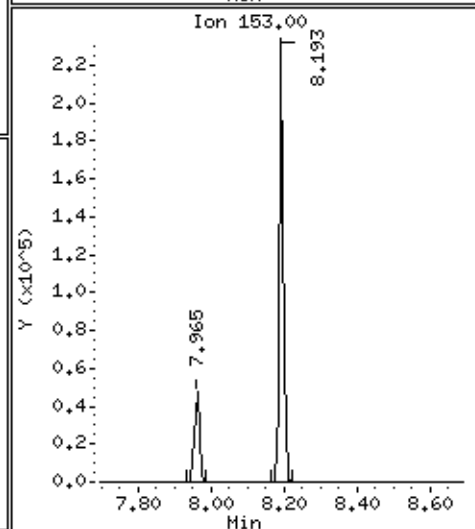
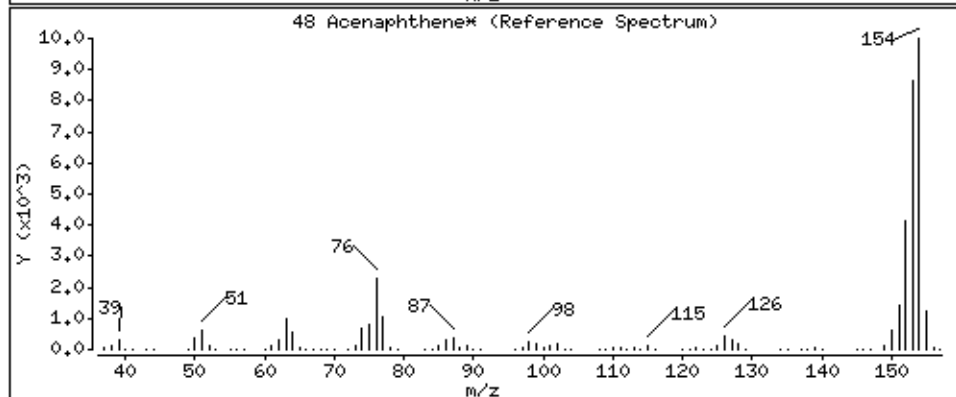
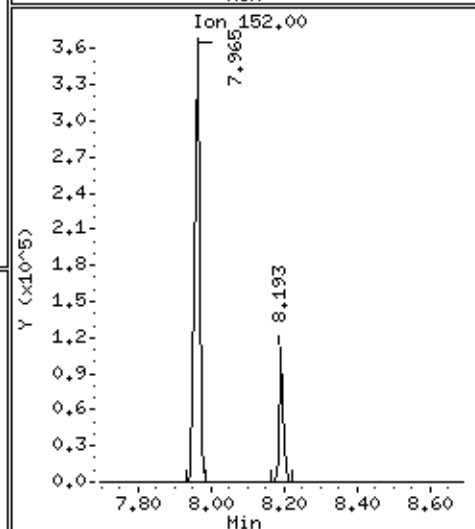
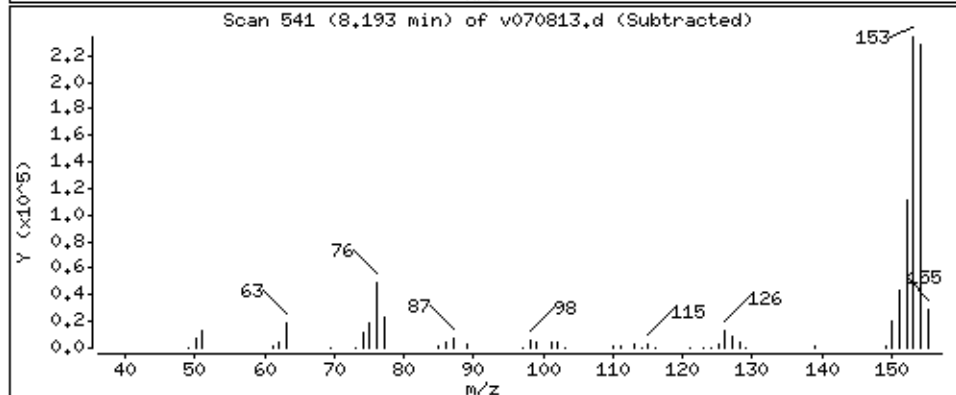
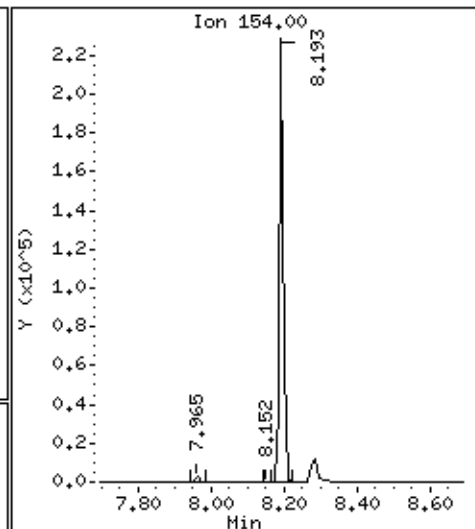
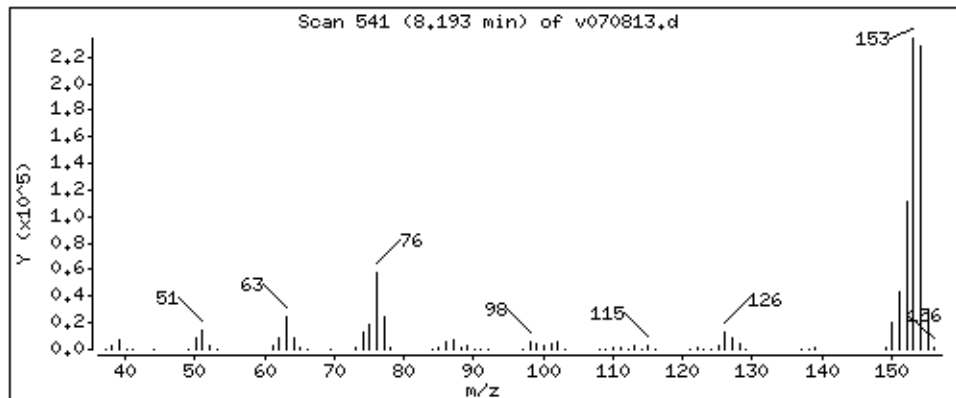
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

48 Acenaphthene*

Concentration: 45.57 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

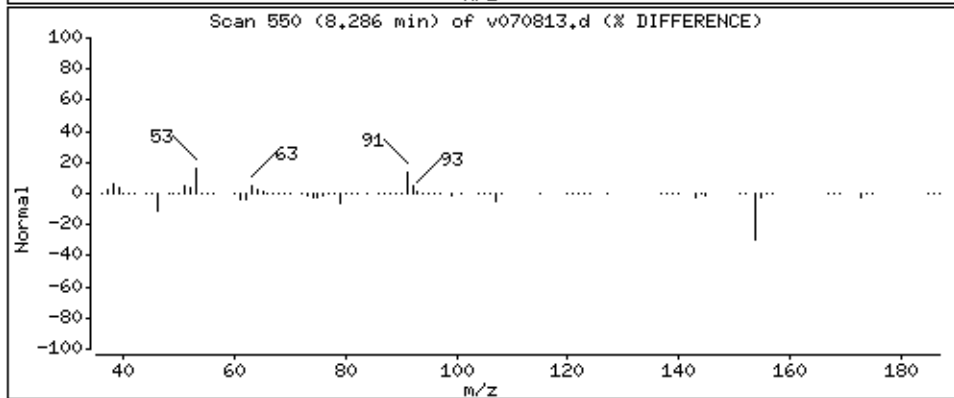
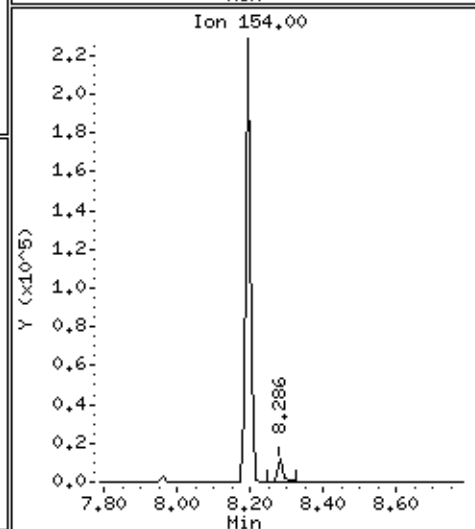
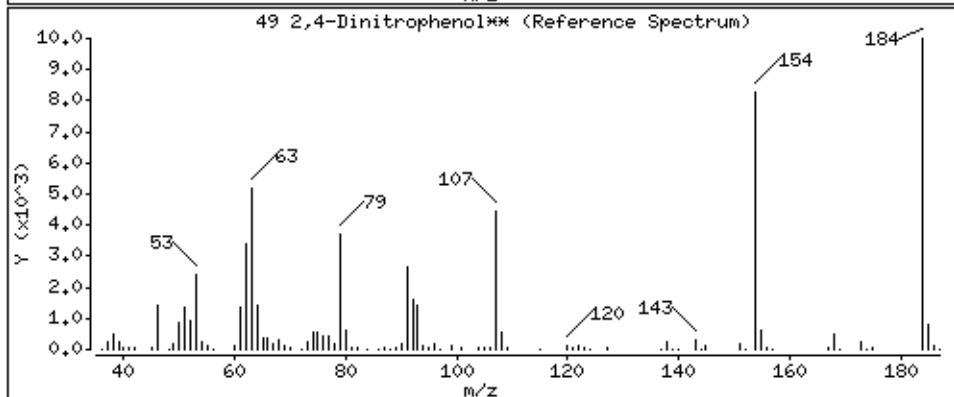
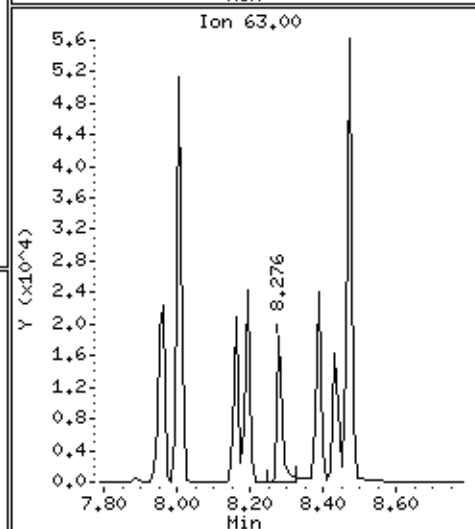
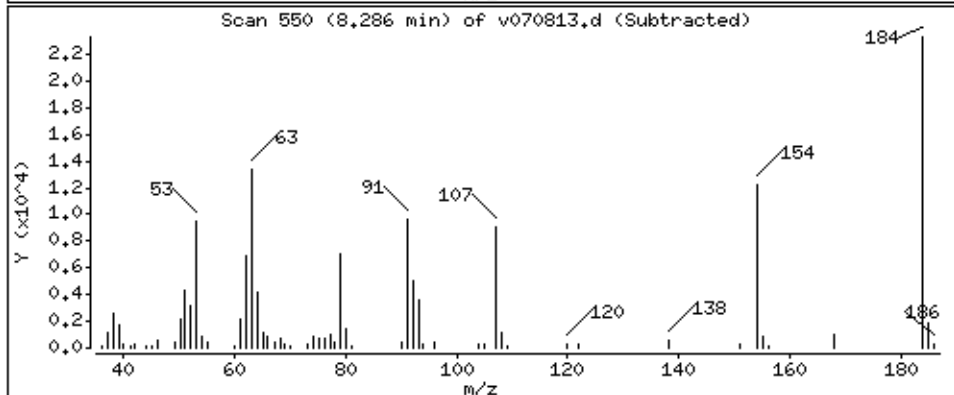
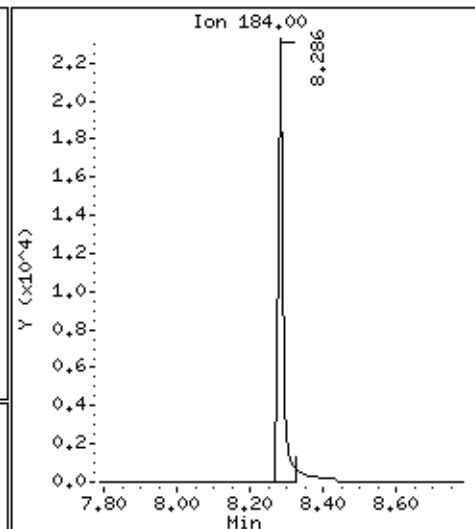
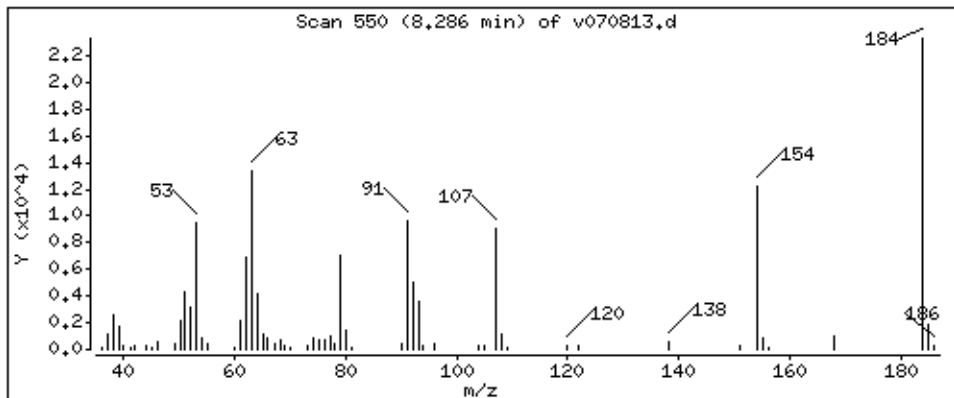
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

49 2,4-Dinitrophenol**

Concentration: 42.06 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

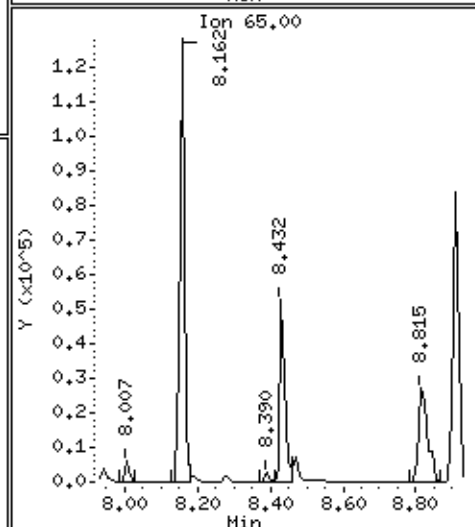
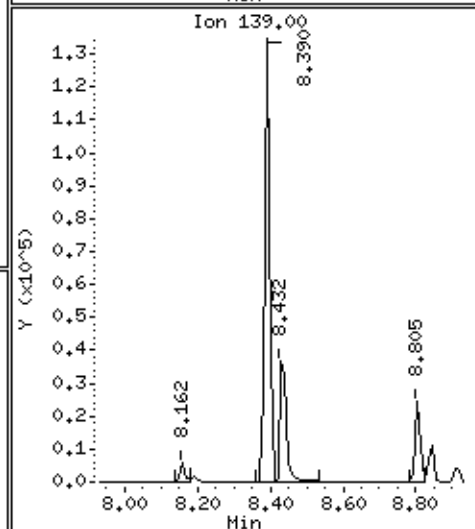
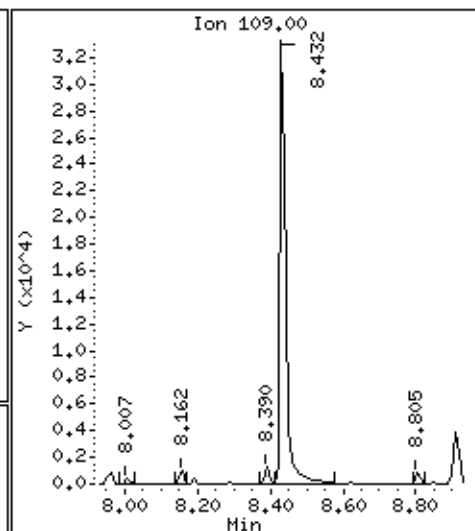
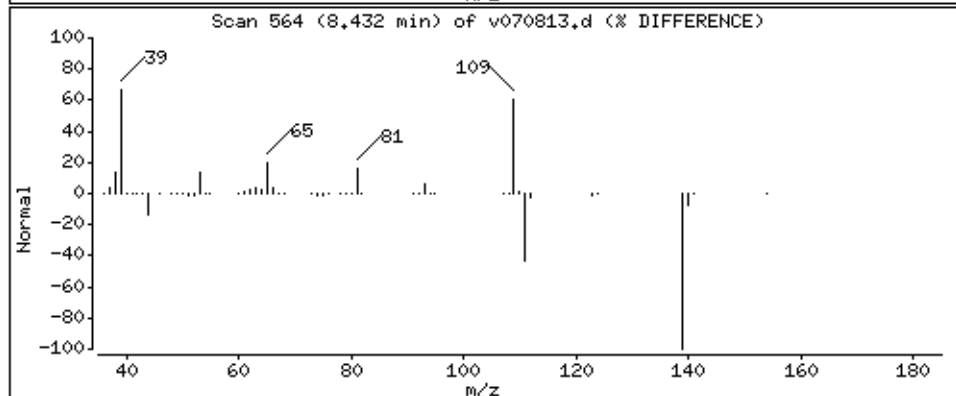
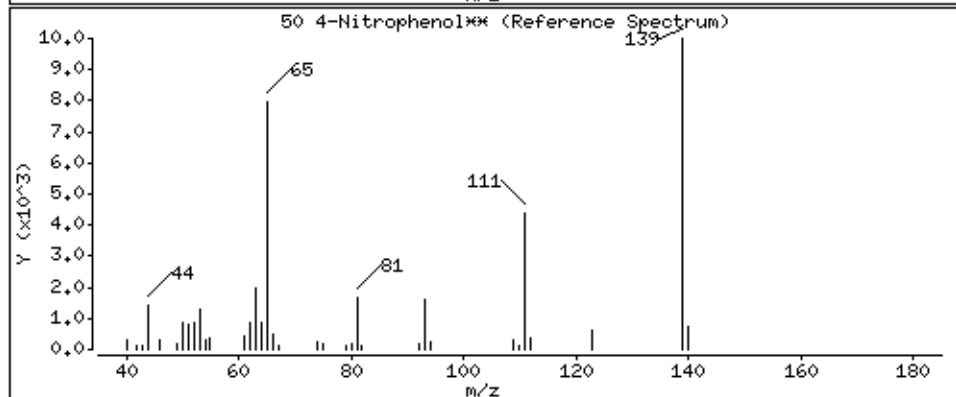
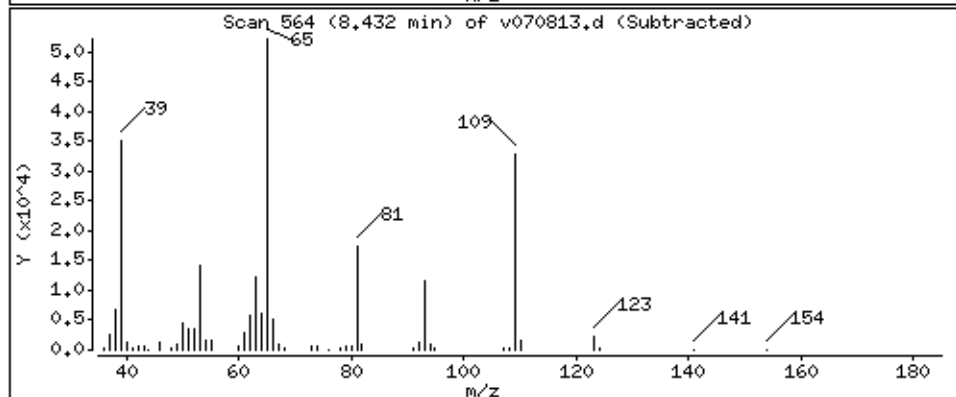
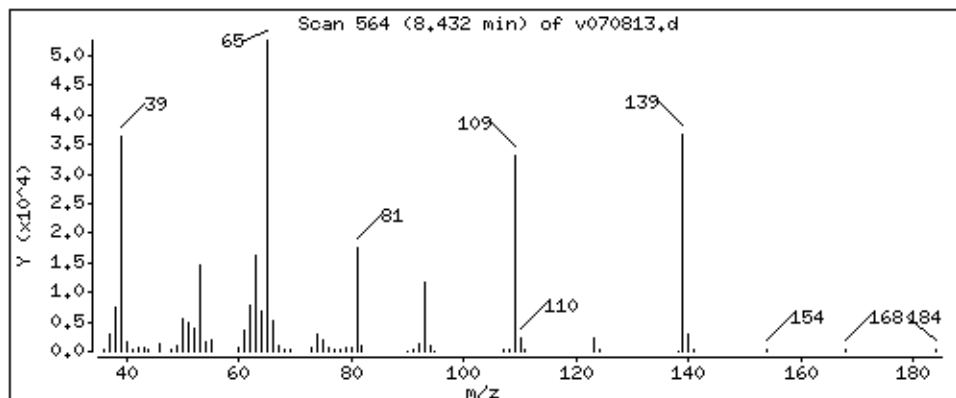
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

50 4-Nitrophenol**

Concentration: 46.50 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

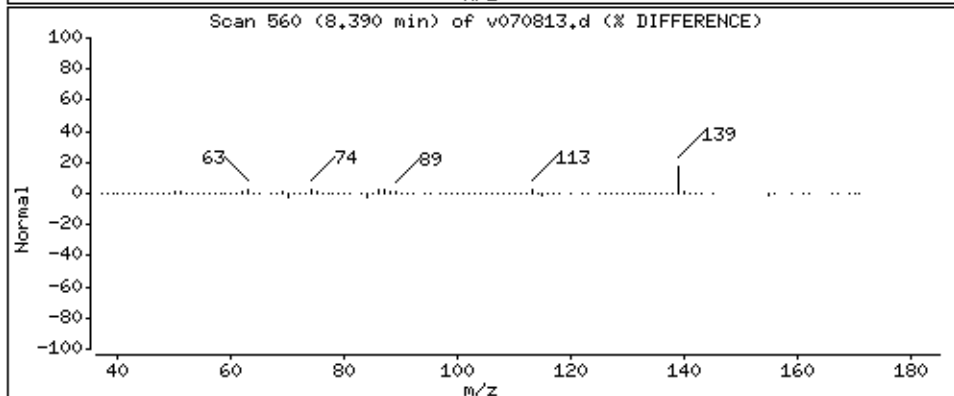
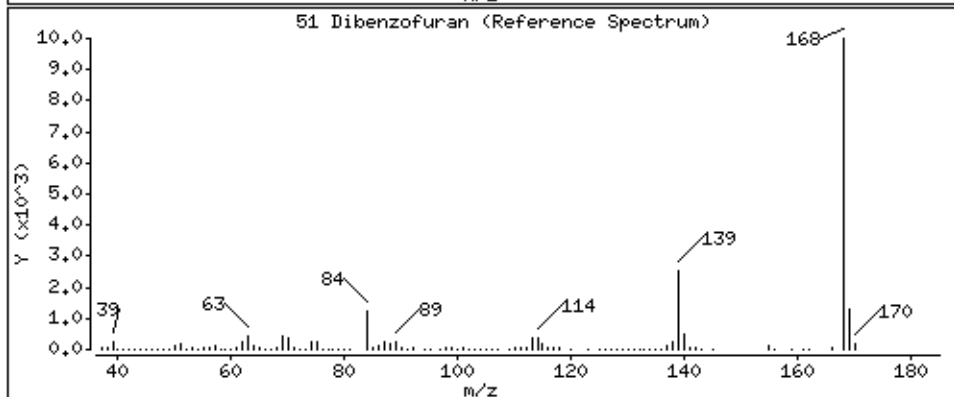
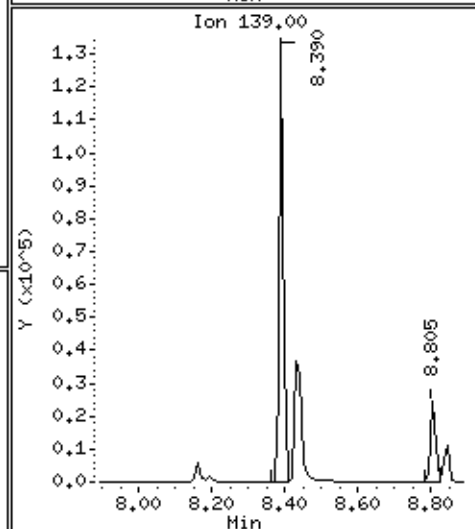
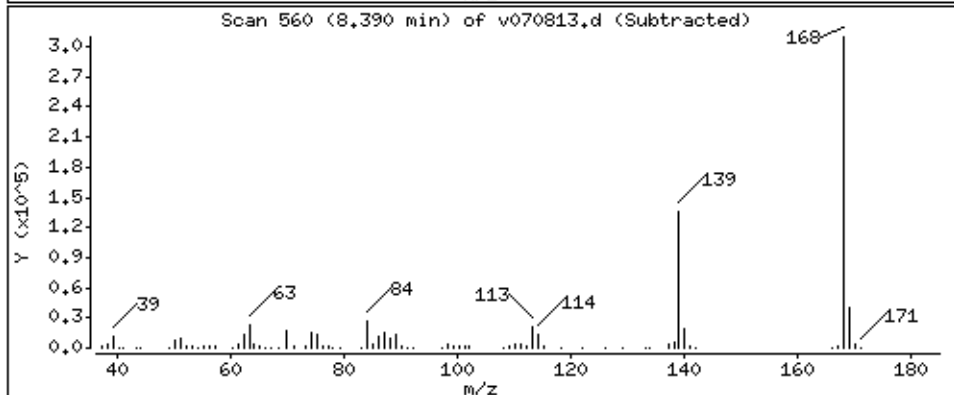
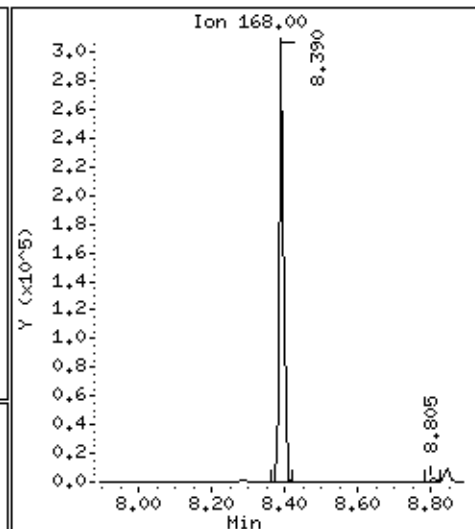
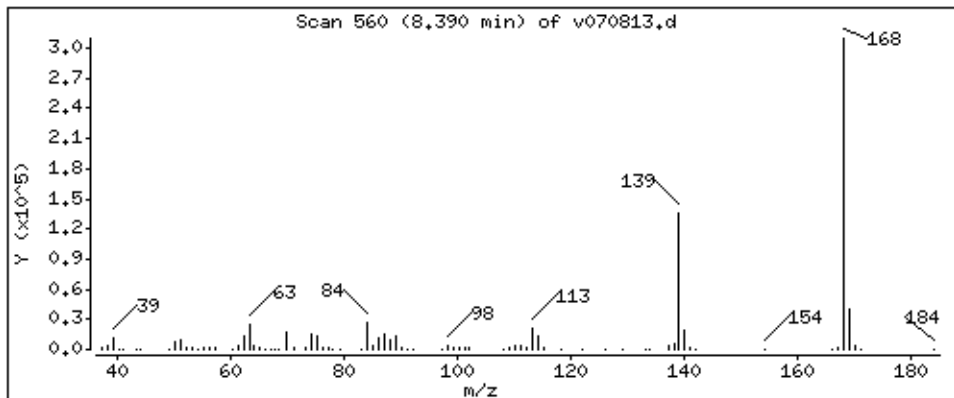
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

51 Dibenzofuran

Concentration: 45.98 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

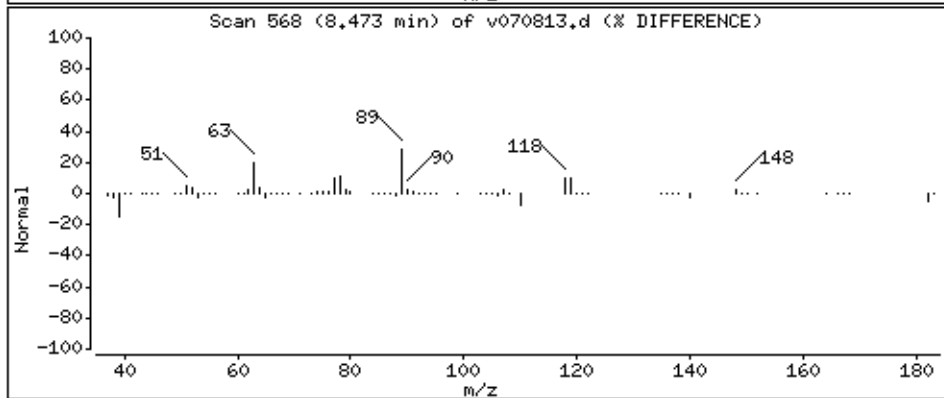
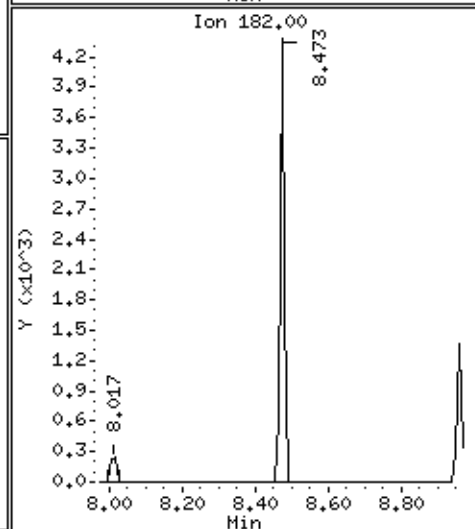
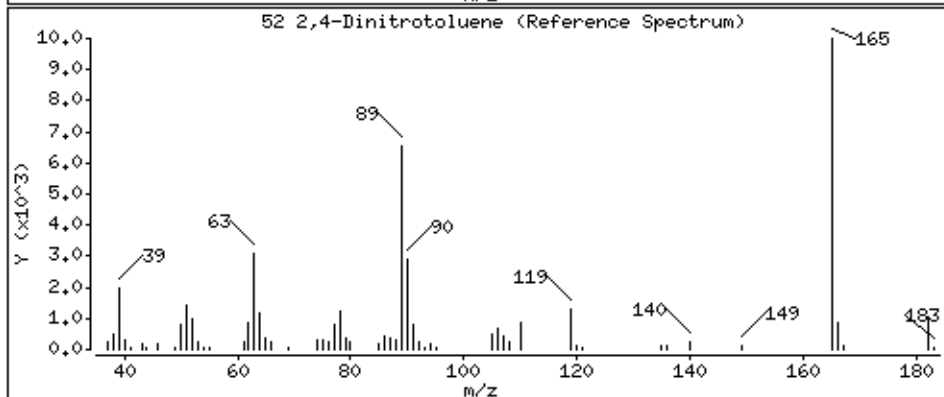
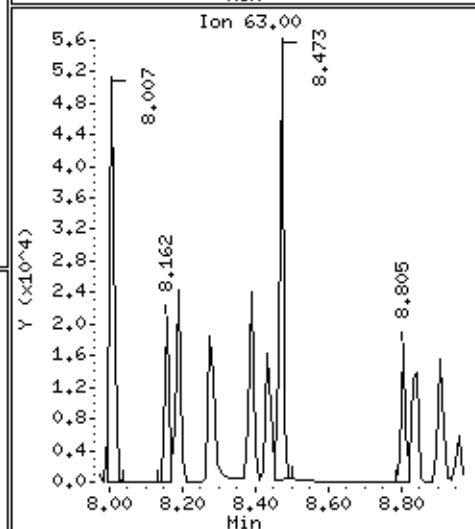
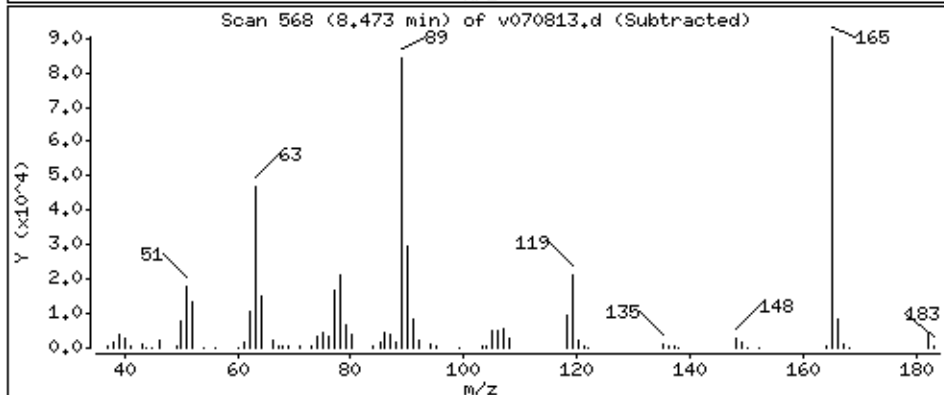
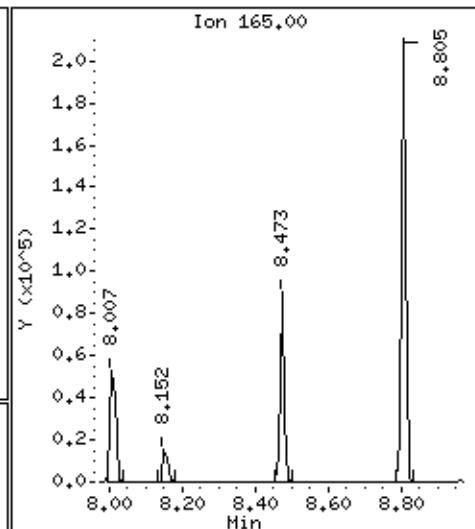
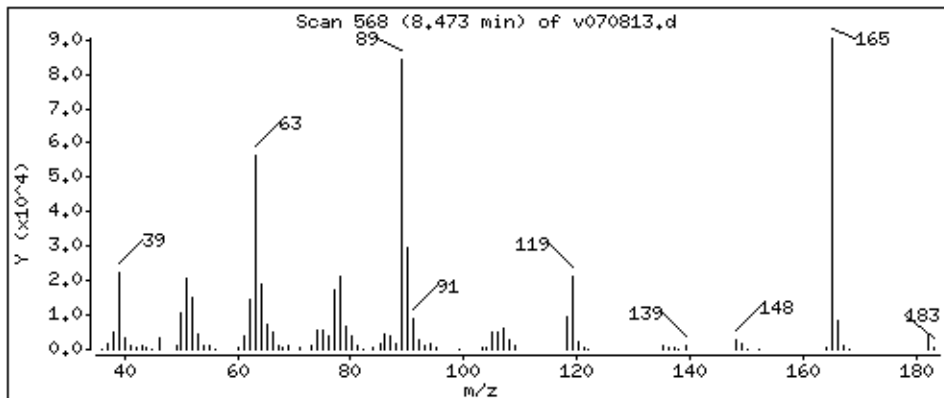
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

52 2,4-Dinitrotoluene

Concentration: 50.39 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

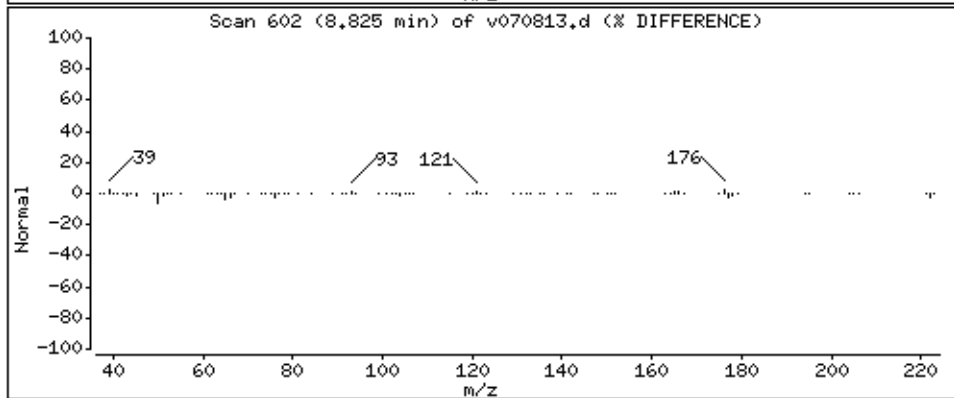
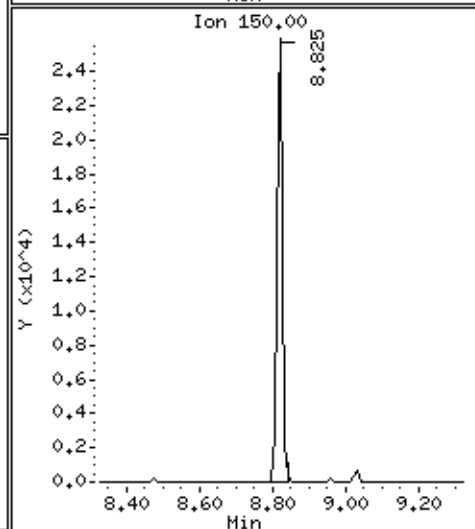
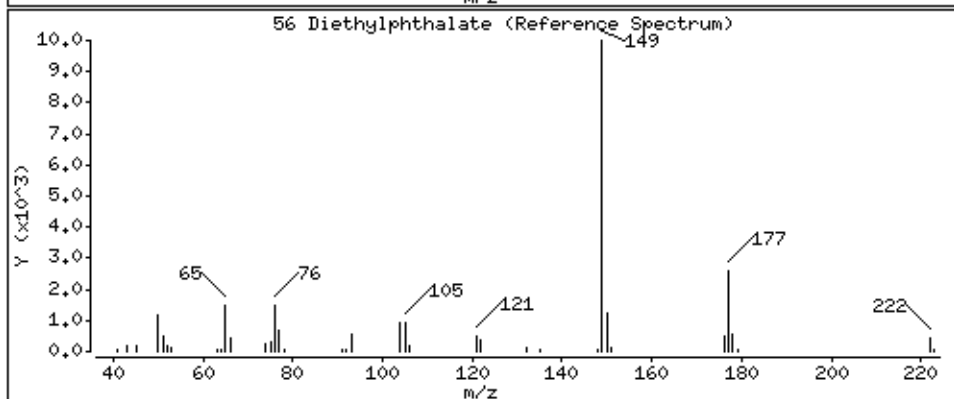
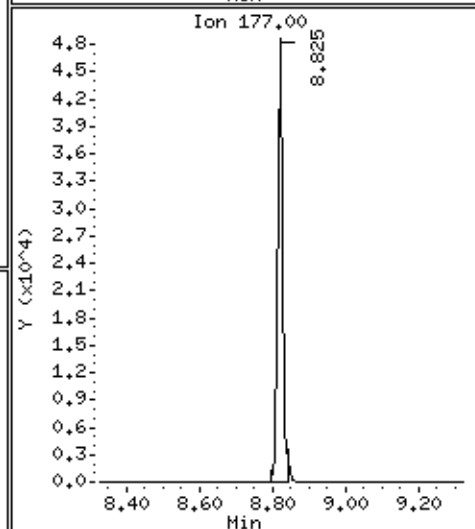
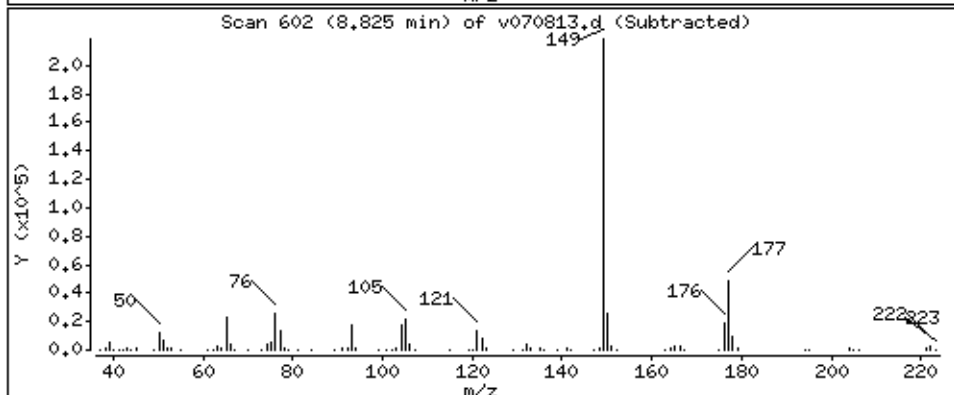
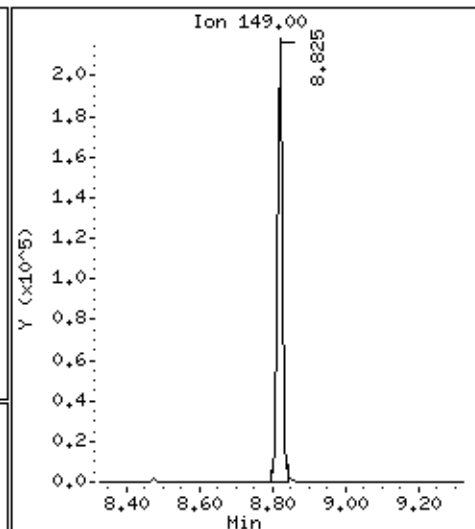
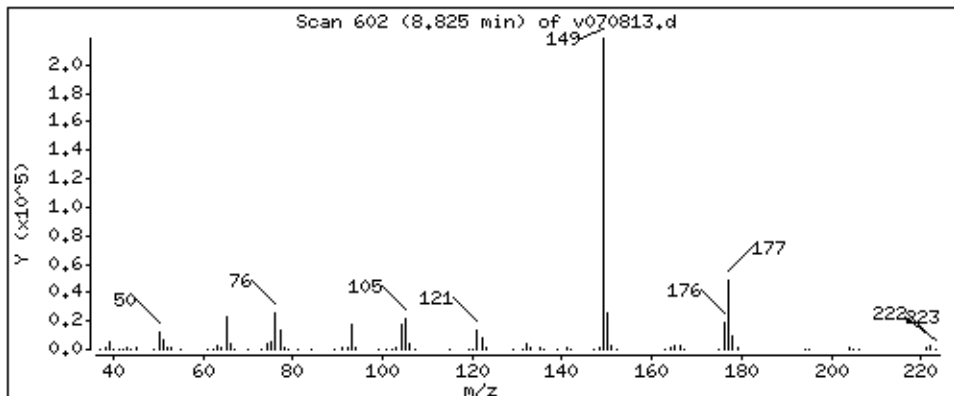
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

56 Diethylphthalate

Concentration: 47.50 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

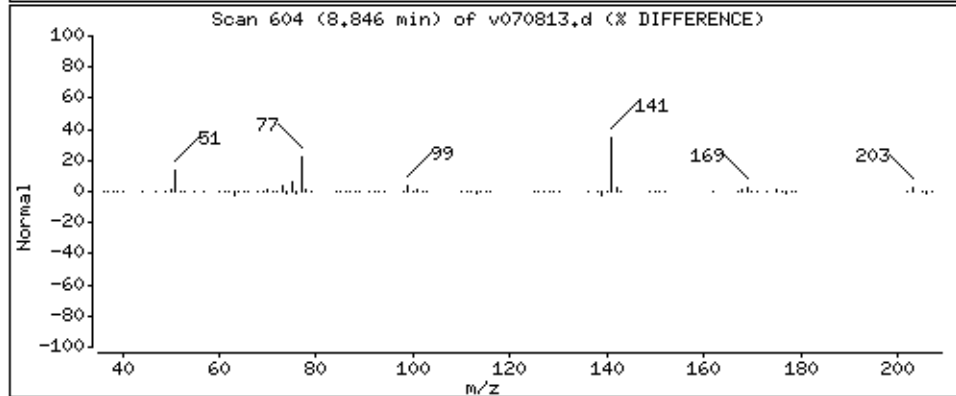
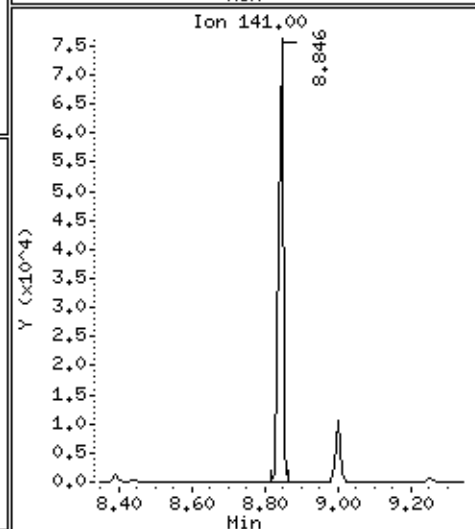
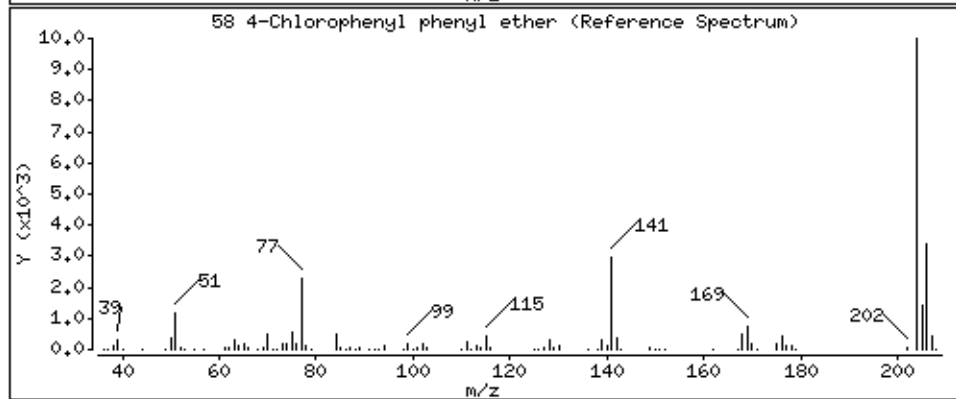
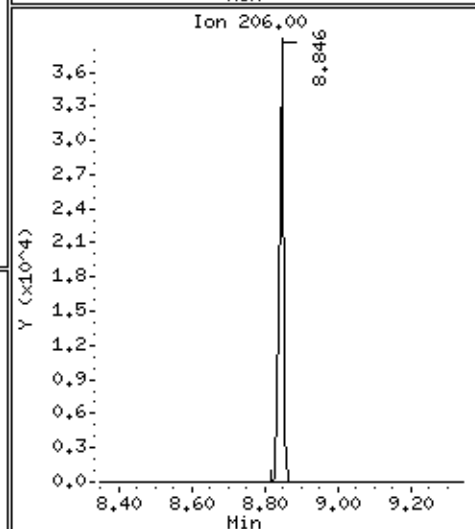
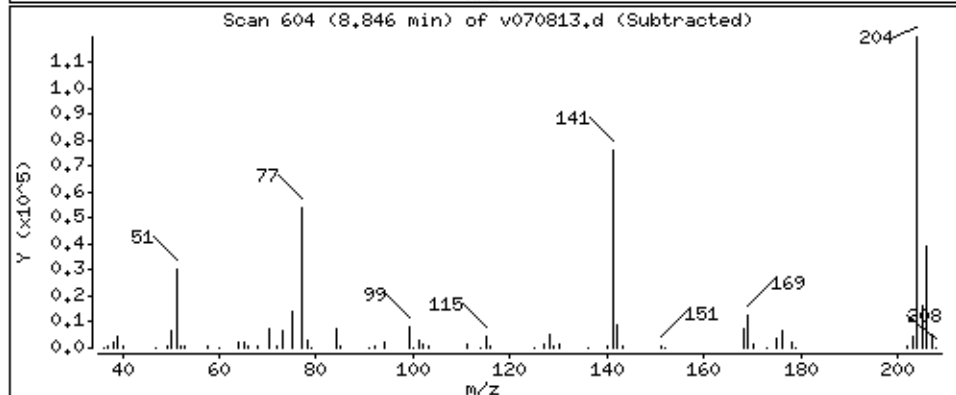
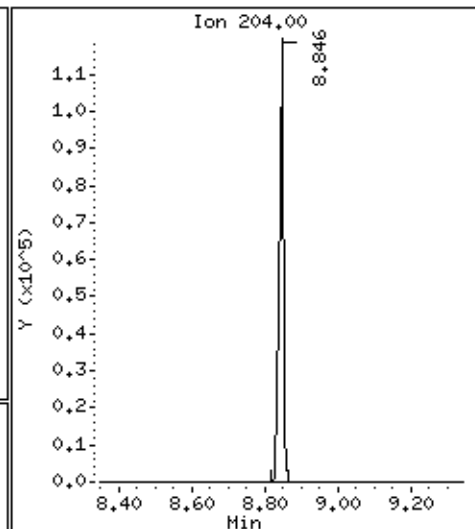
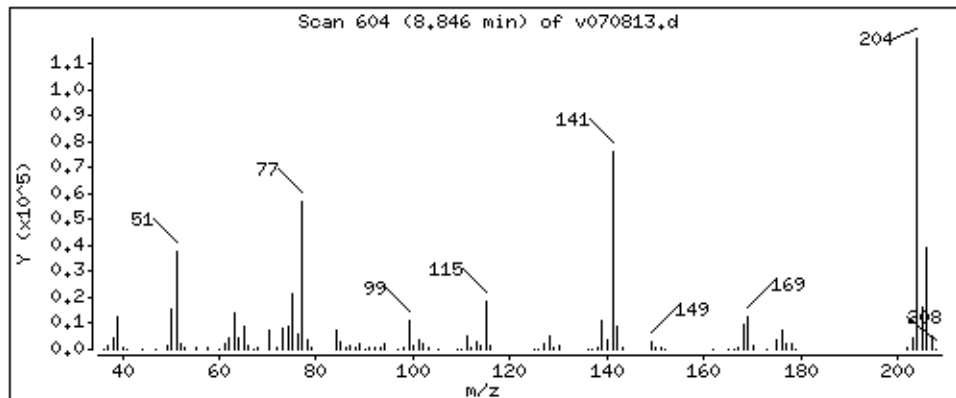
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

58 4-Chlorophenyl phenyl ether

Concentration: 45.53 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

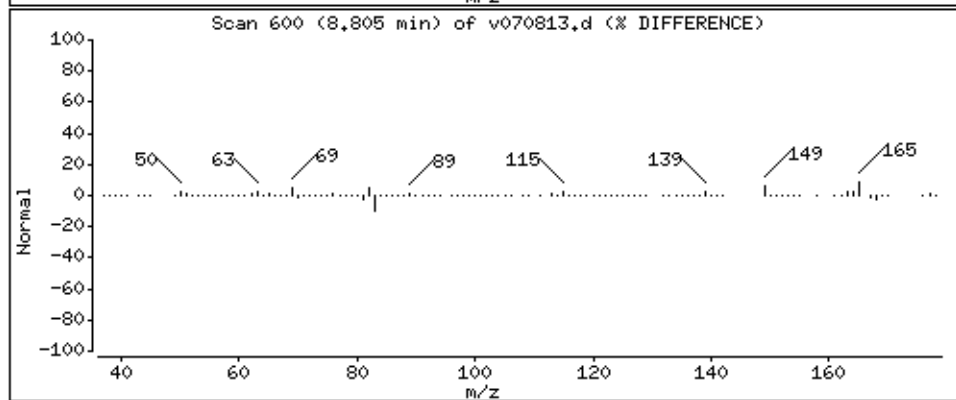
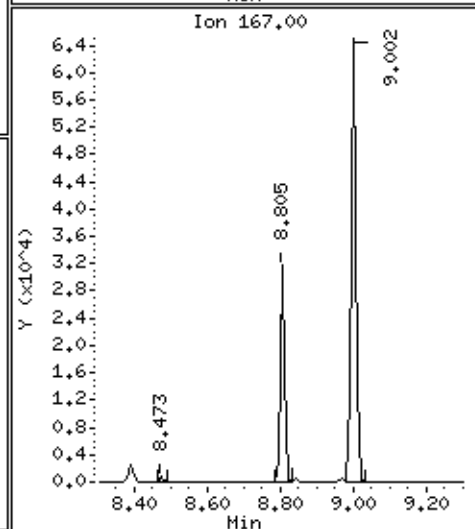
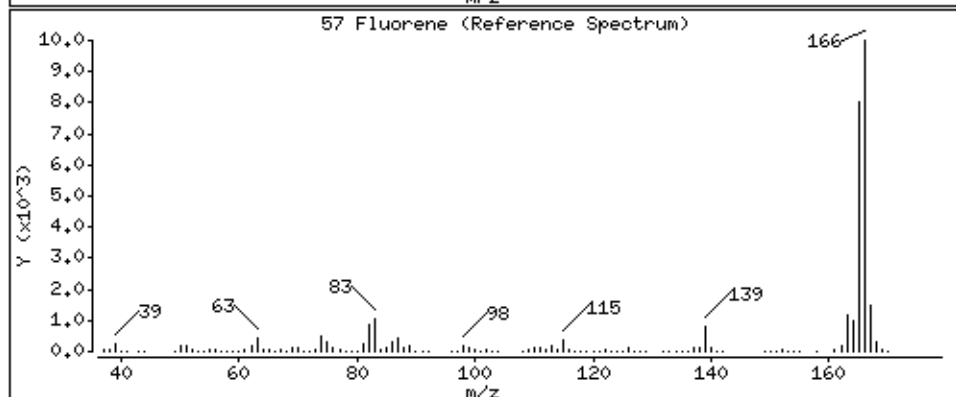
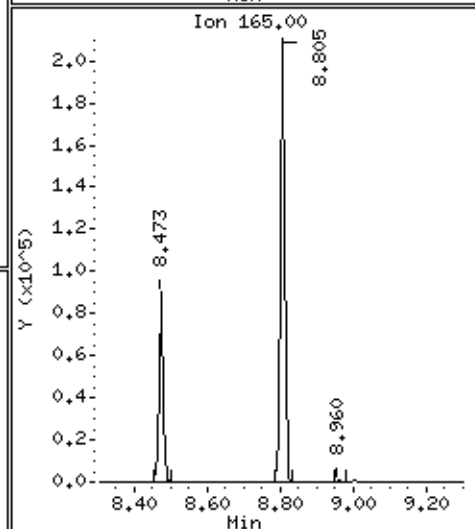
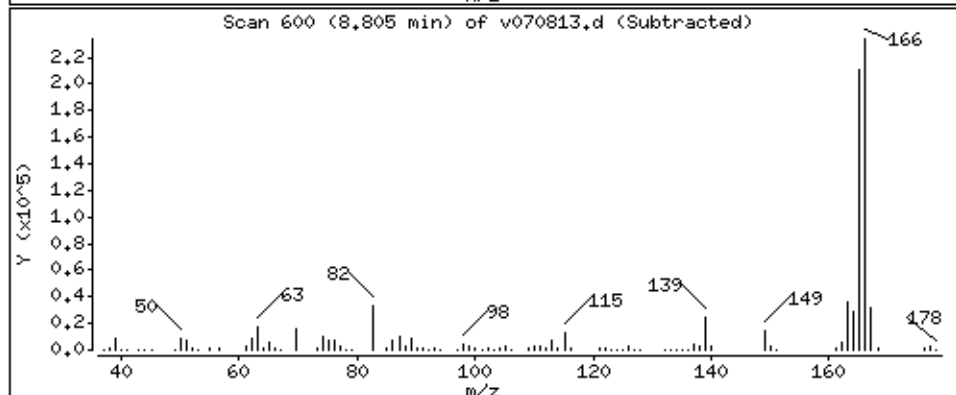
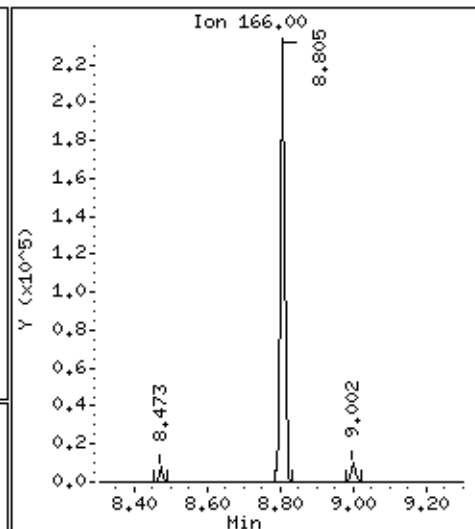
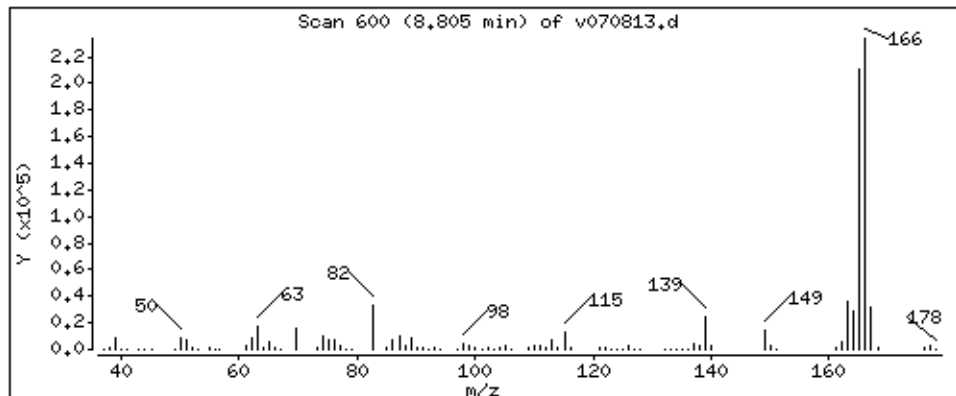
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

57 Fluorene

Concentration: 45.26 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

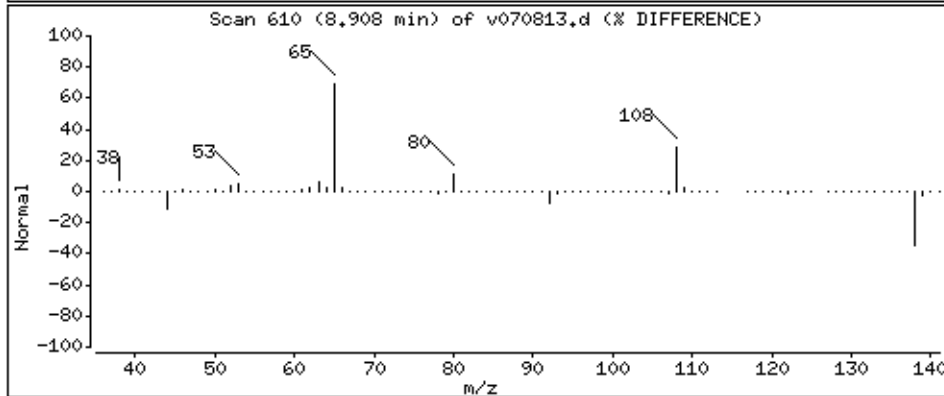
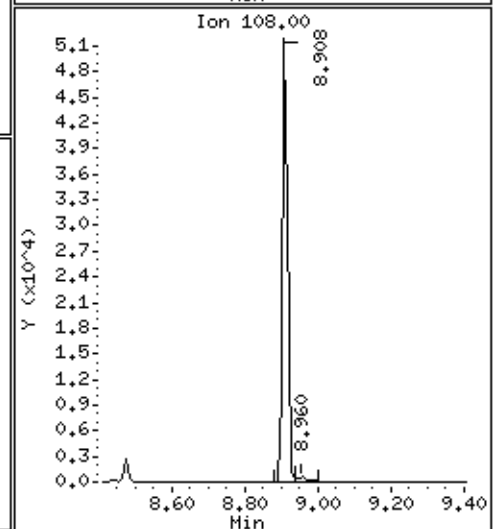
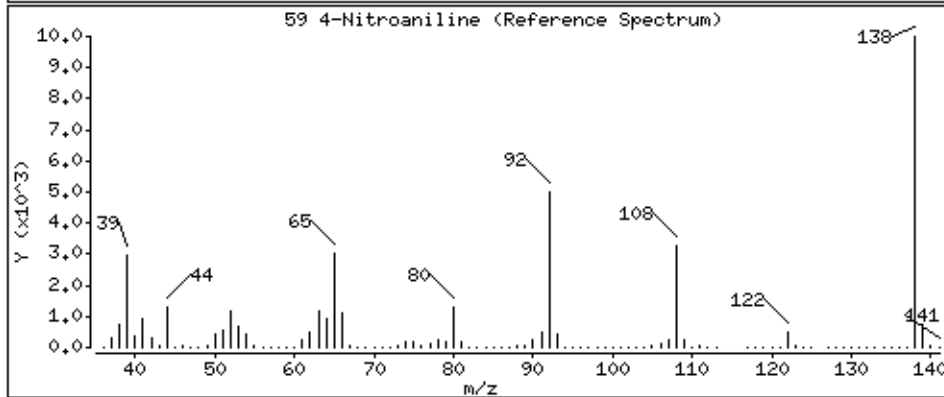
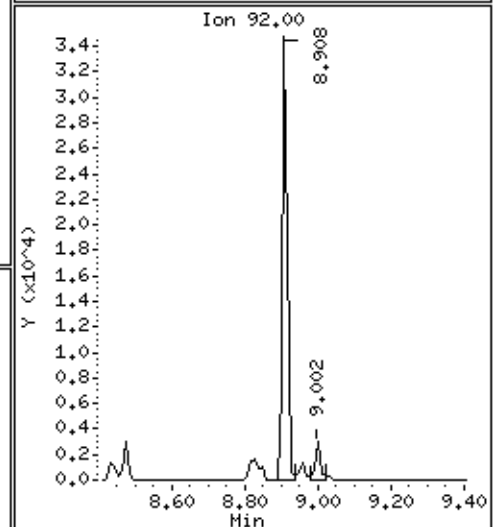
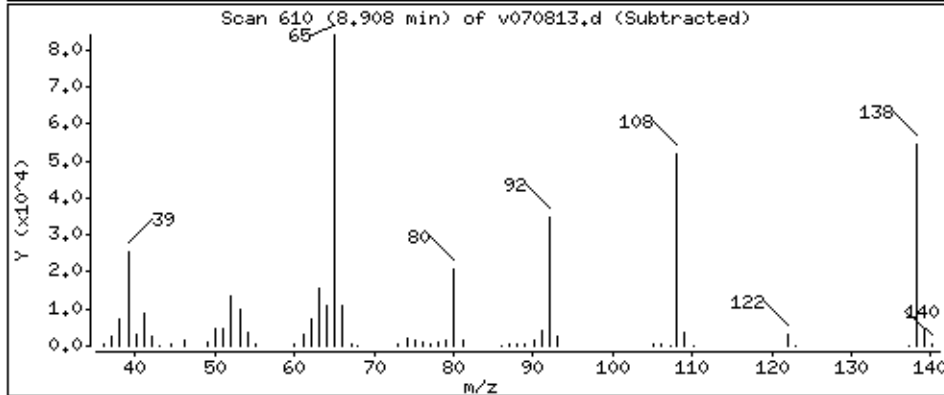
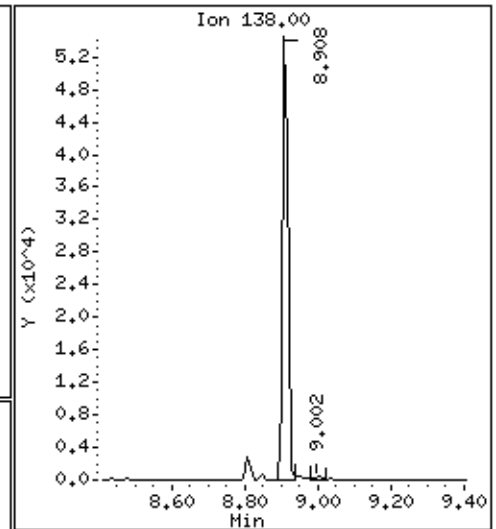
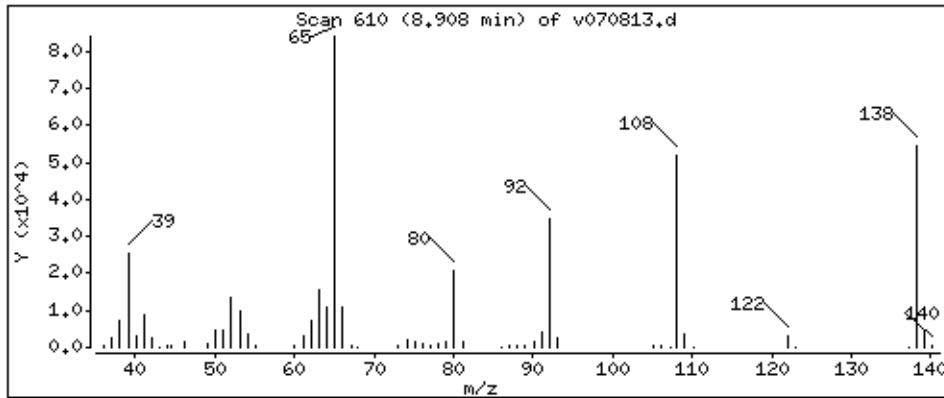
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

59 4-Nitroaniline

Concentration: 47.55 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

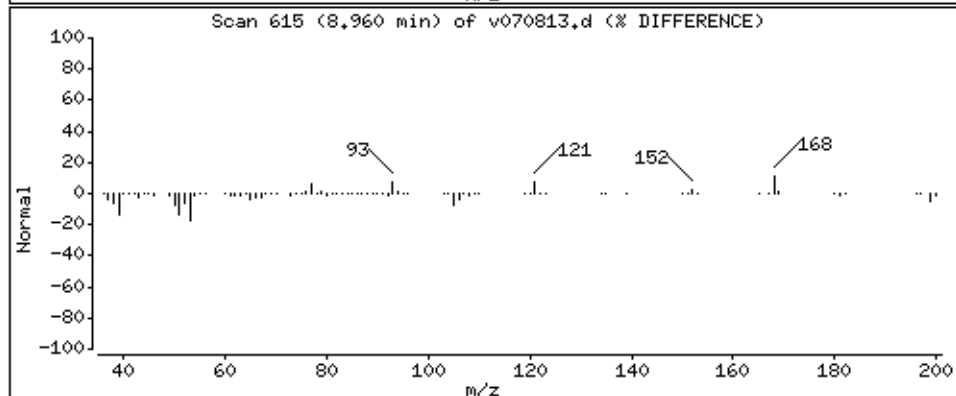
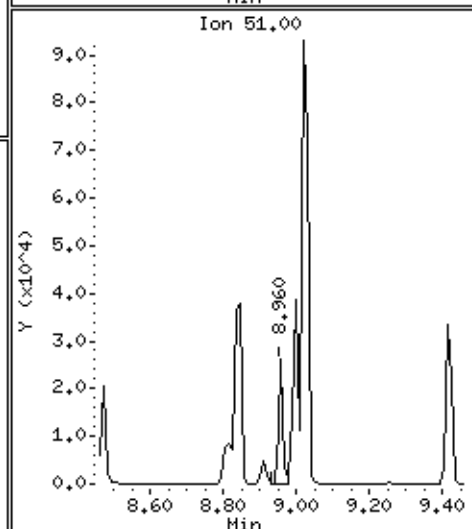
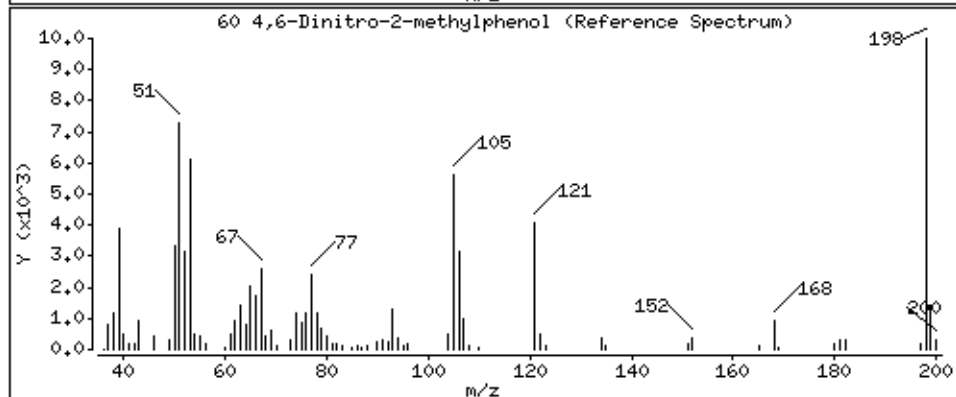
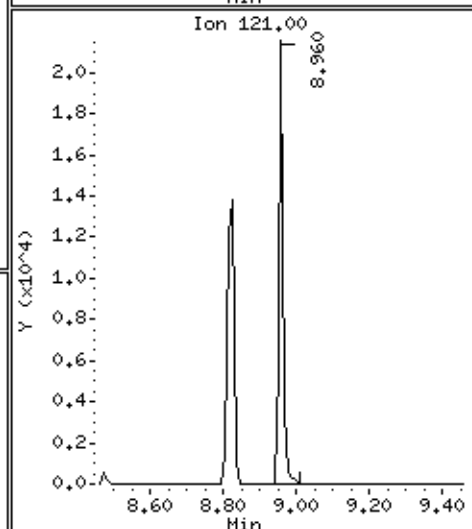
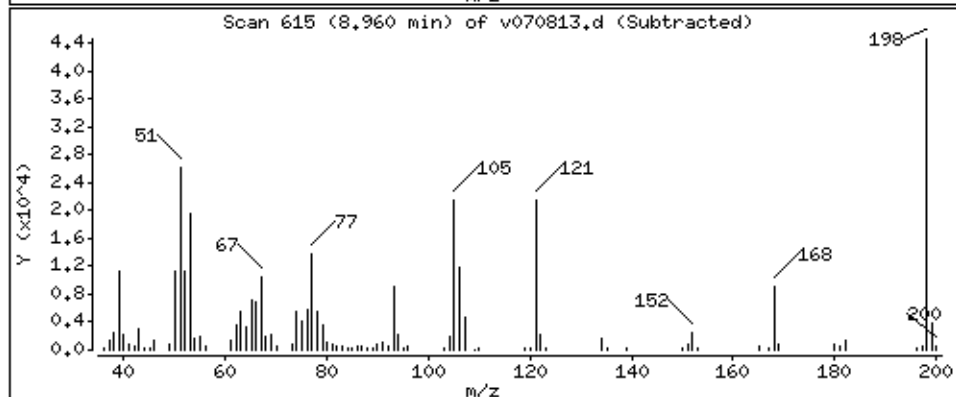
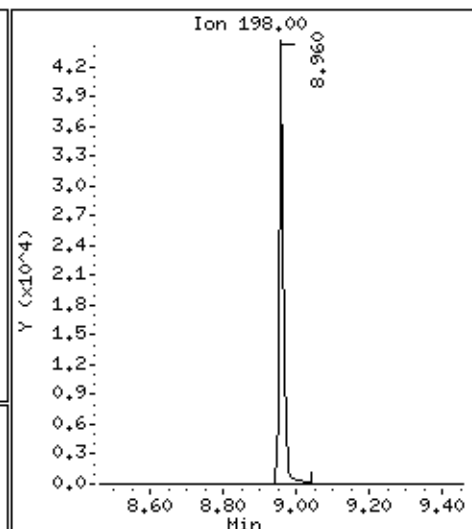
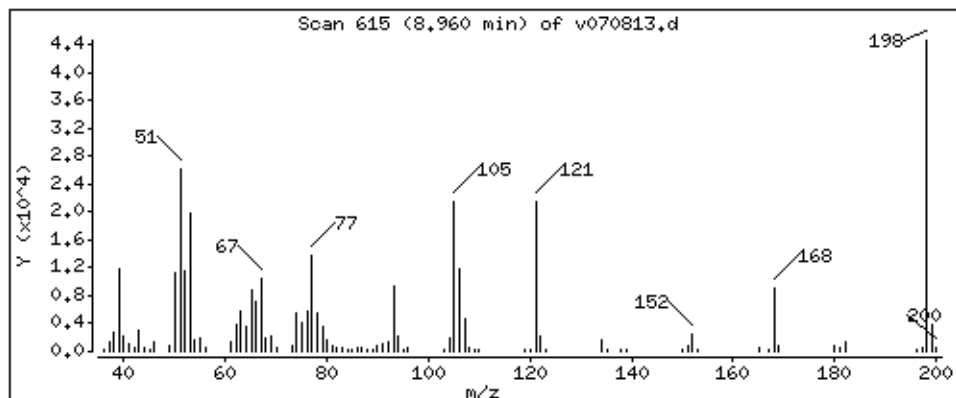
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

60 4,6-Dinitro-2-methylphenol

Concentration: 48.54 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

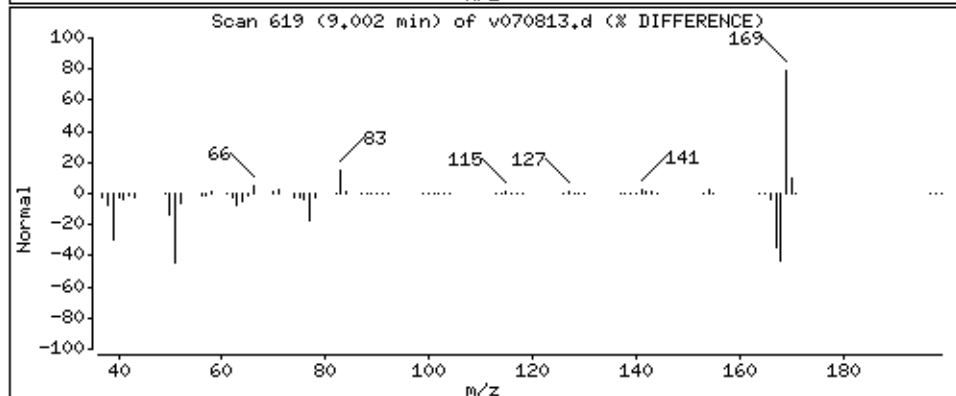
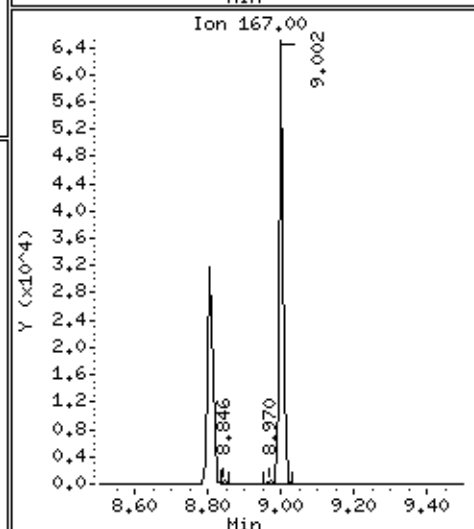
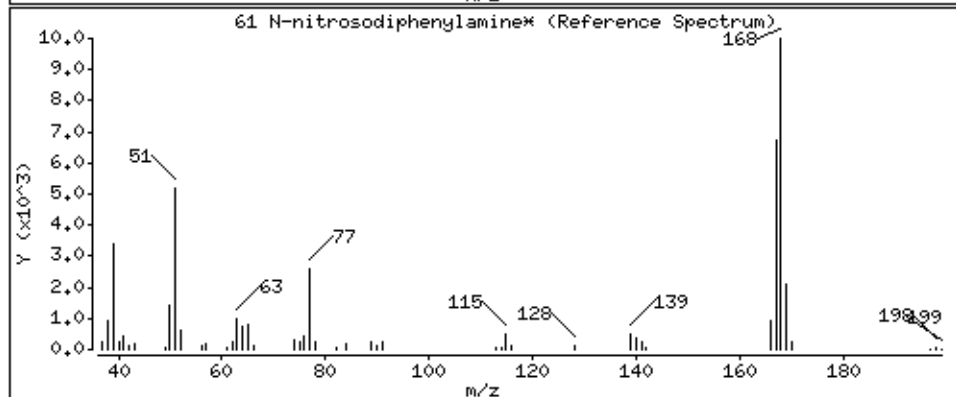
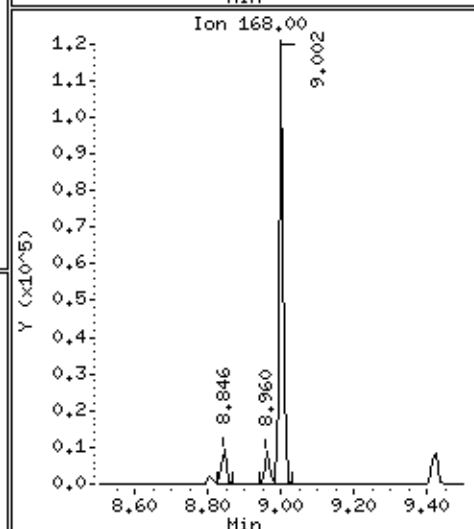
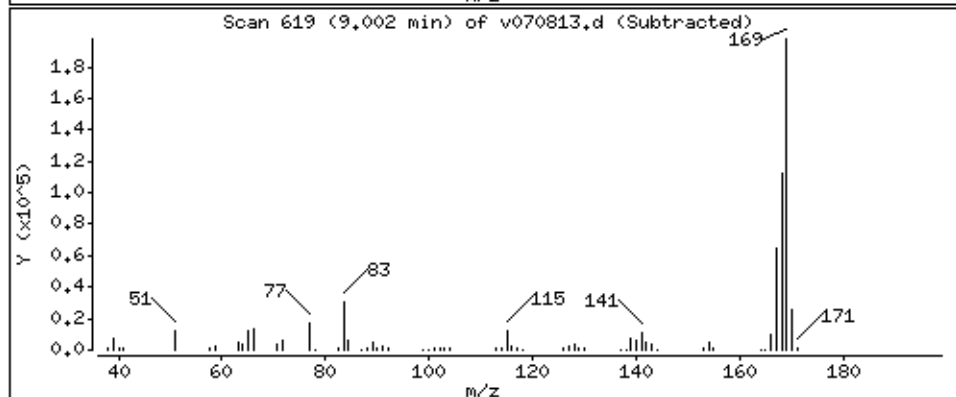
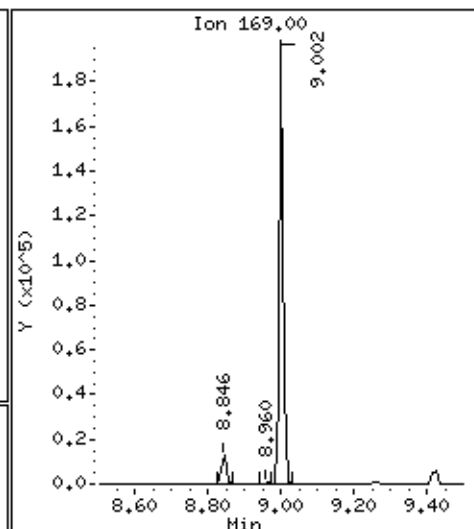
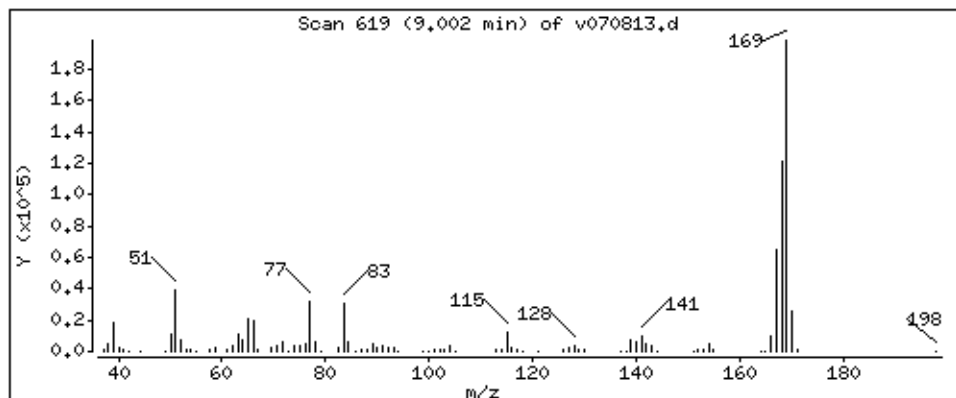
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

61 N-nitrosodiphenylamine*

Concentration: 38.19 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

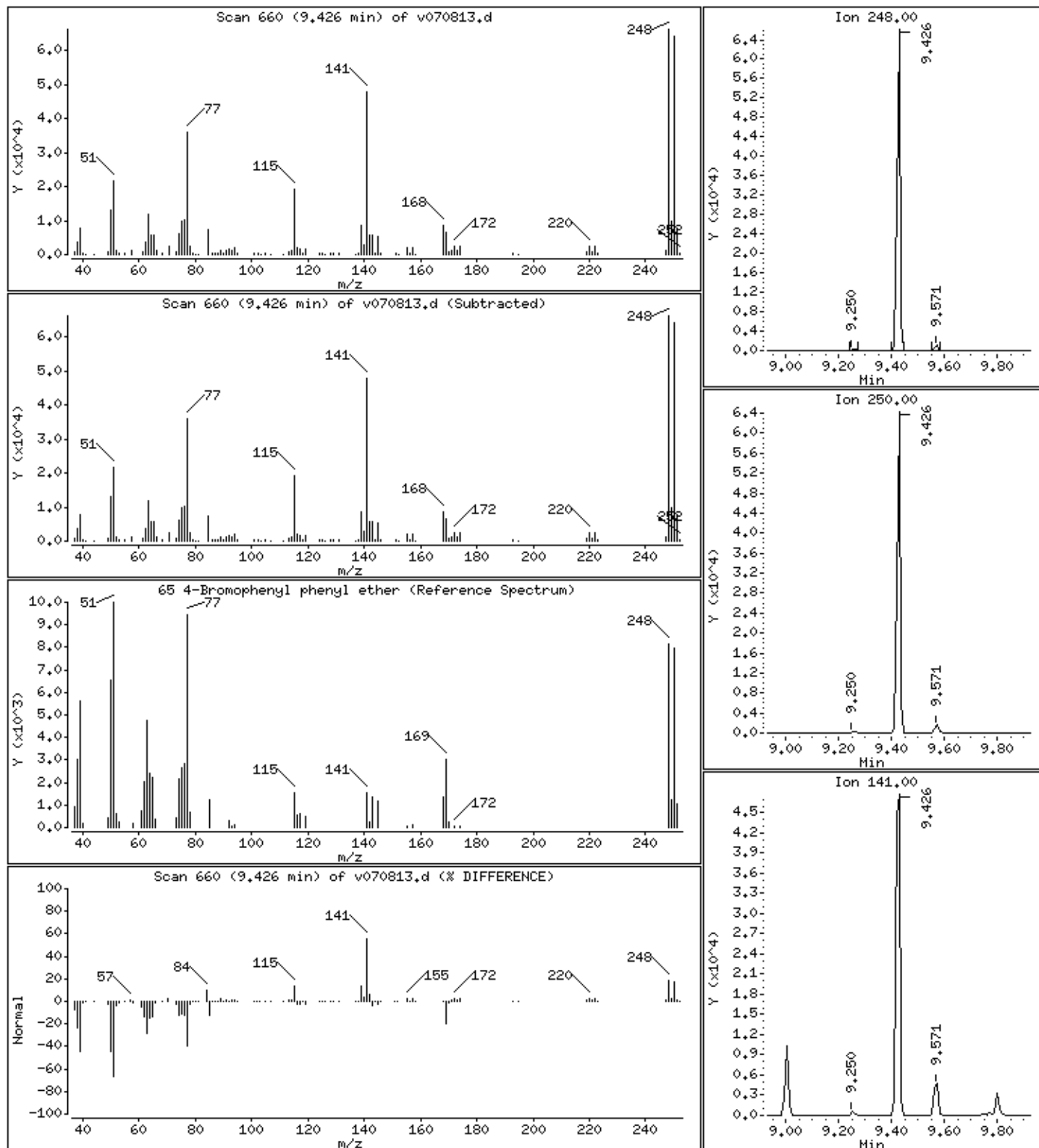
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

65 4-Bromophenyl phenyl ether

Concentration: 48.52 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

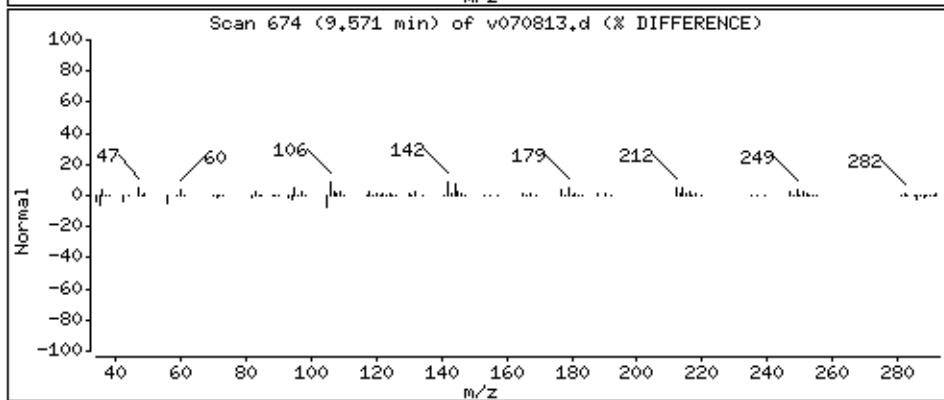
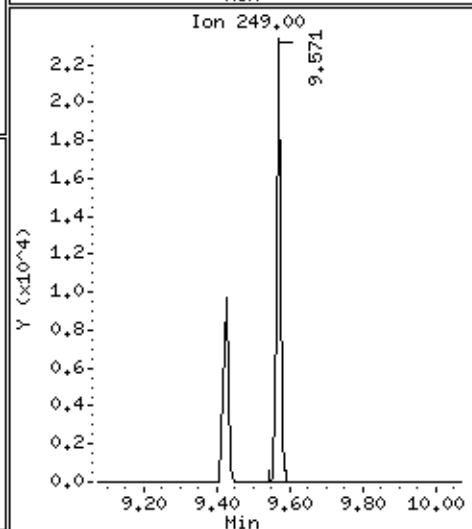
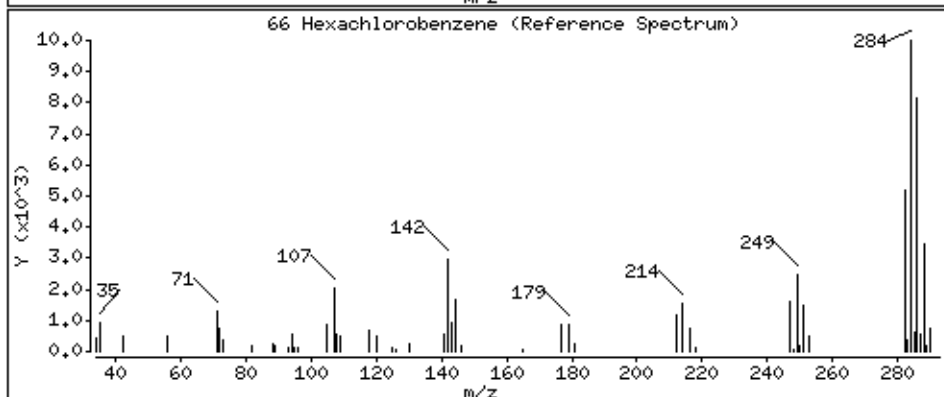
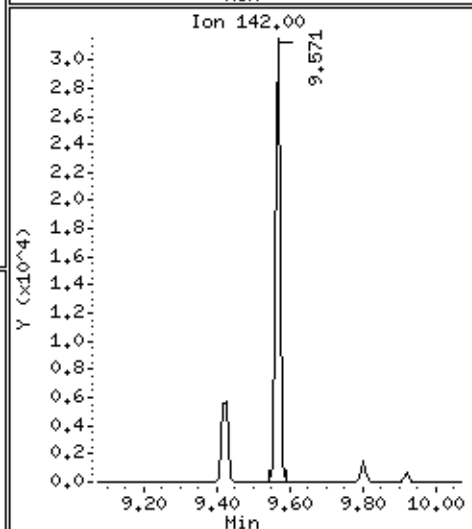
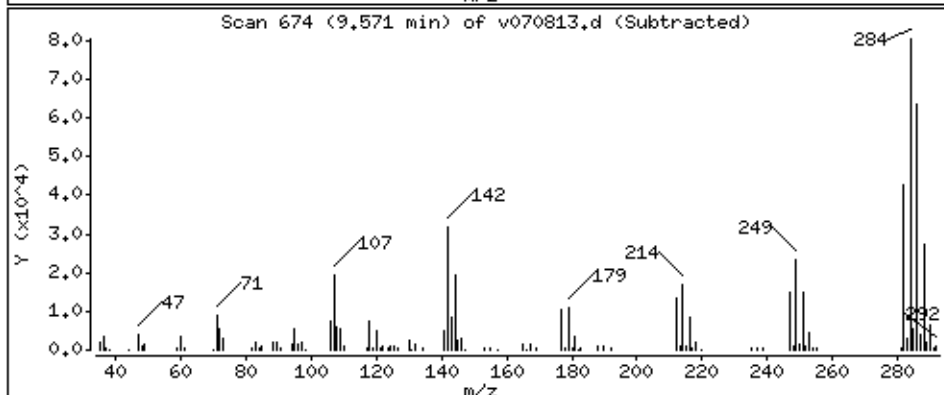
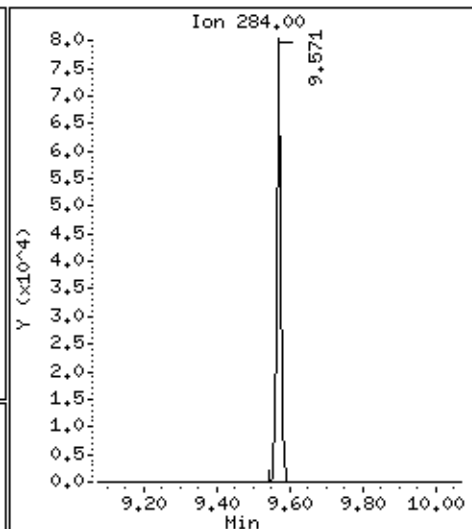
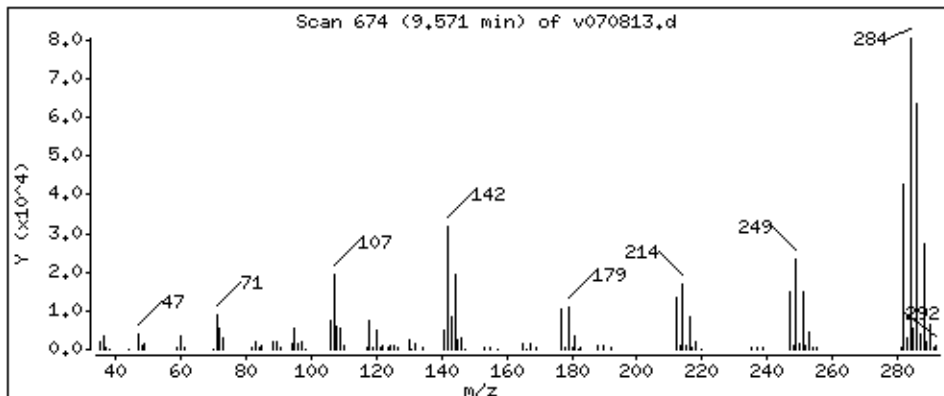
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

66 Hexachlorobenzene

Concentration: 50.03 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

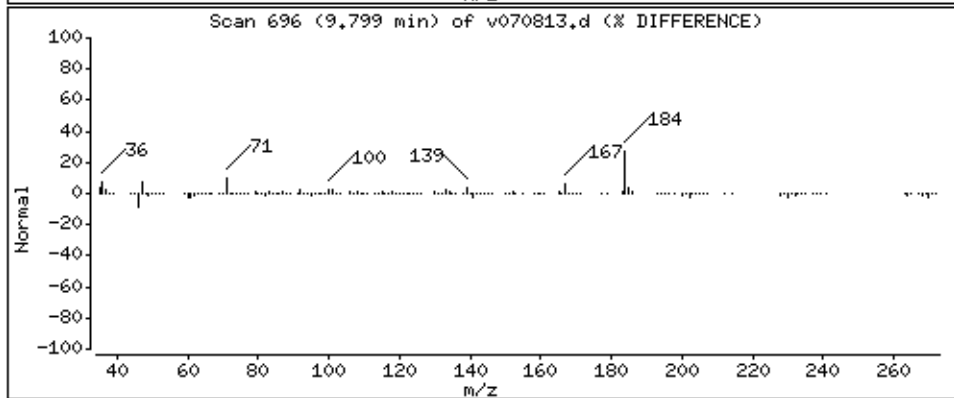
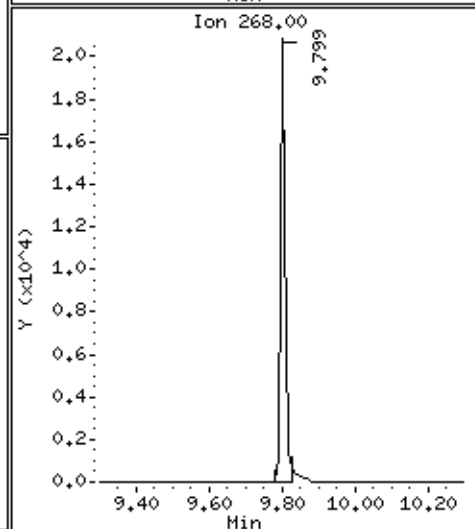
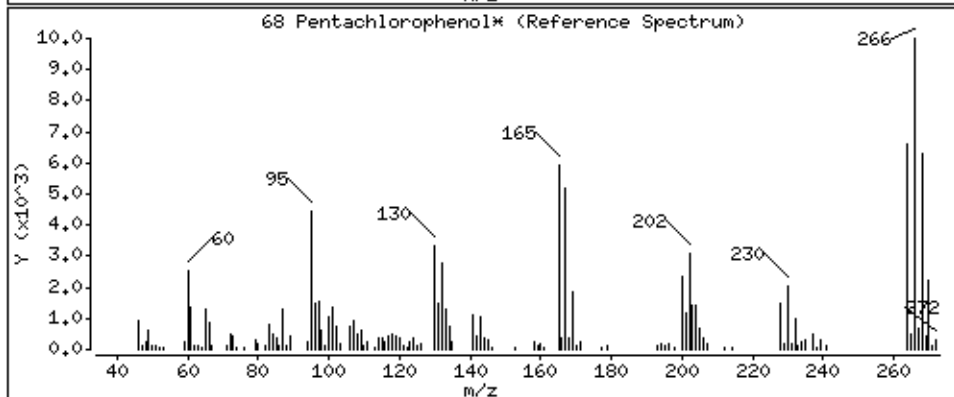
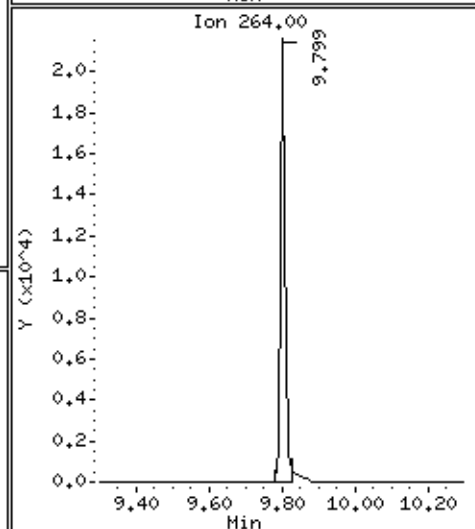
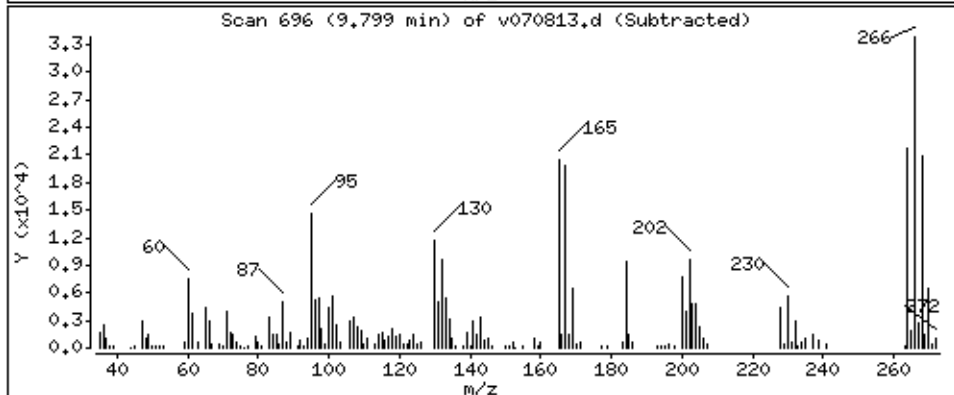
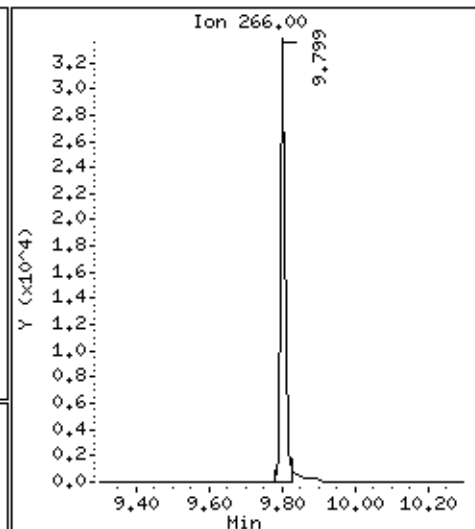
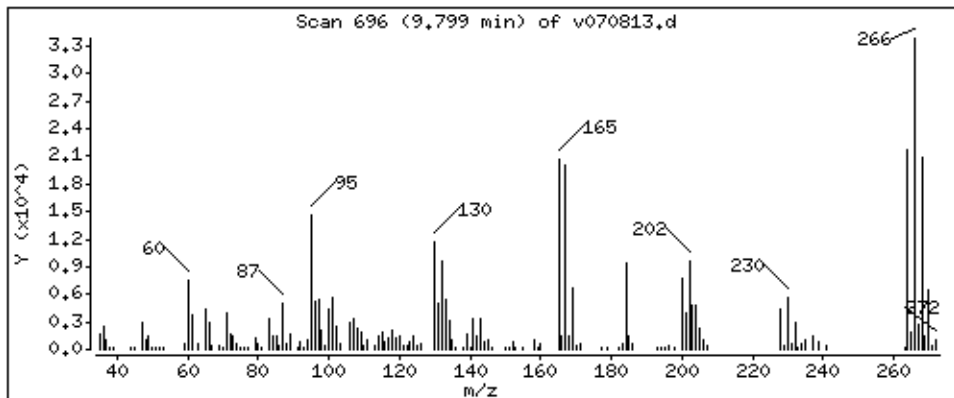
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

68 Pentachlorophenol*

Concentration: 44.60 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

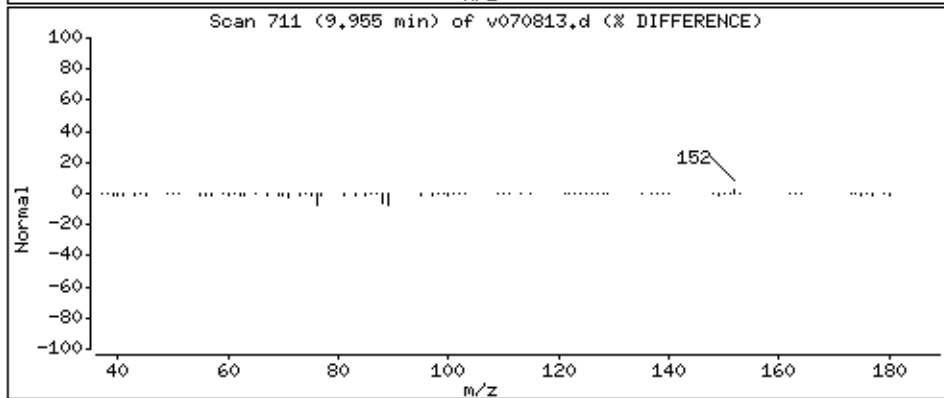
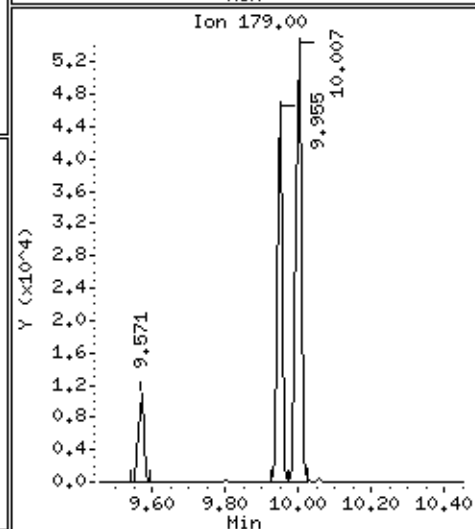
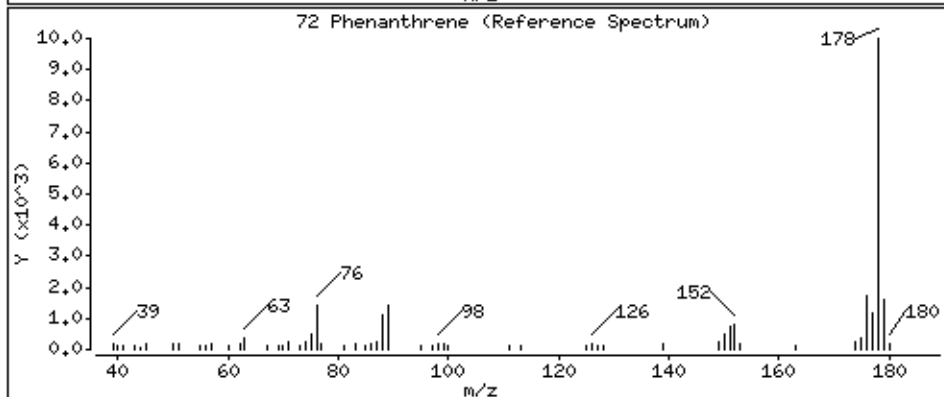
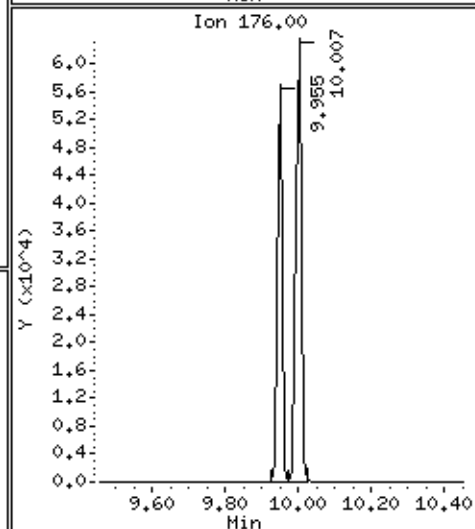
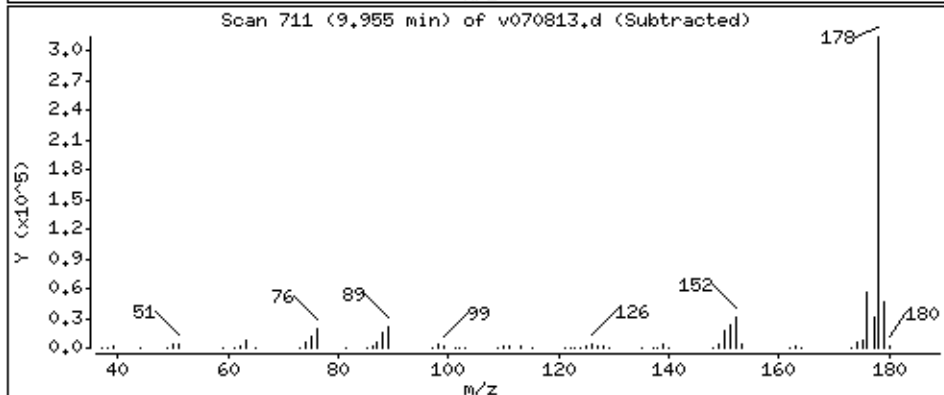
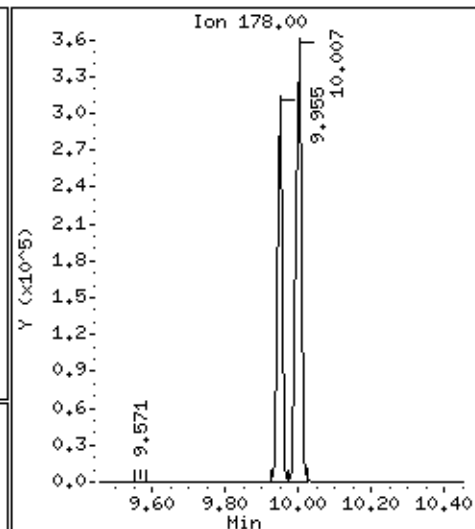
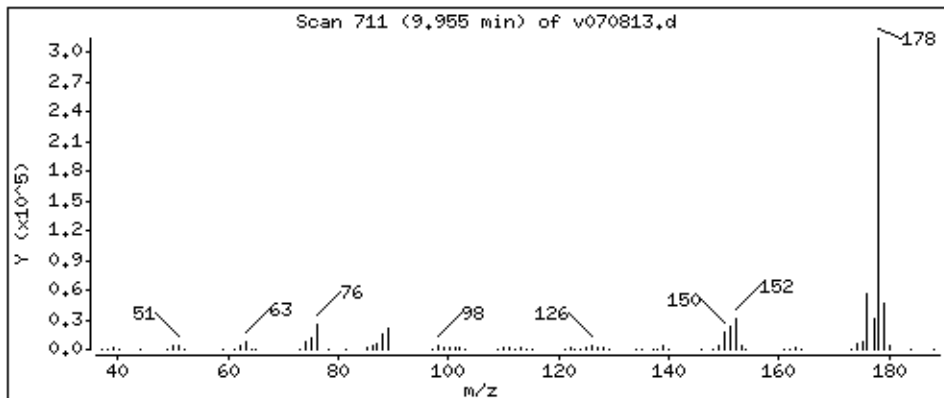
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

72 Phenanthrene

Concentration: 46.58 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

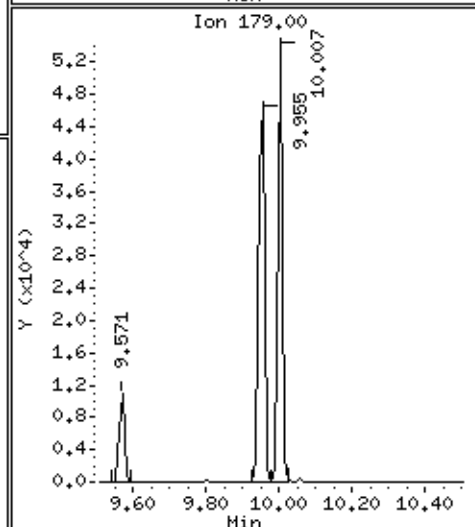
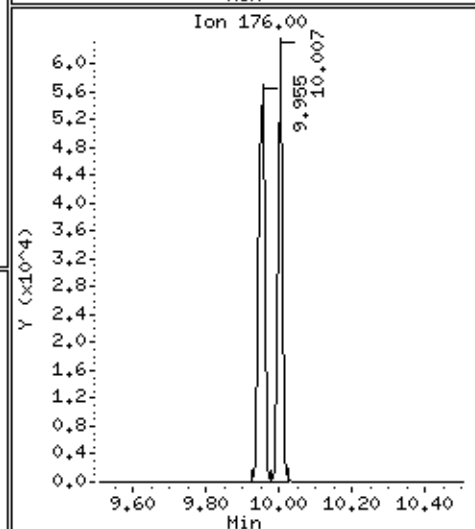
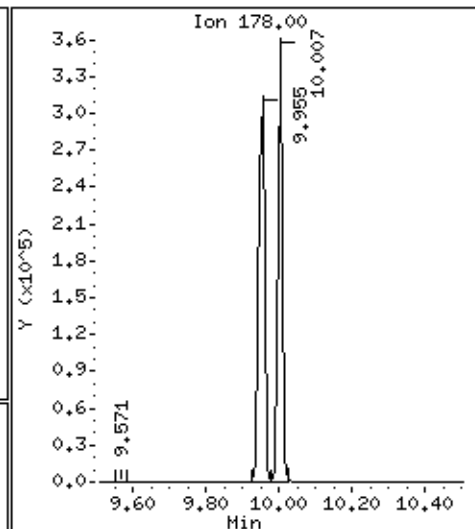
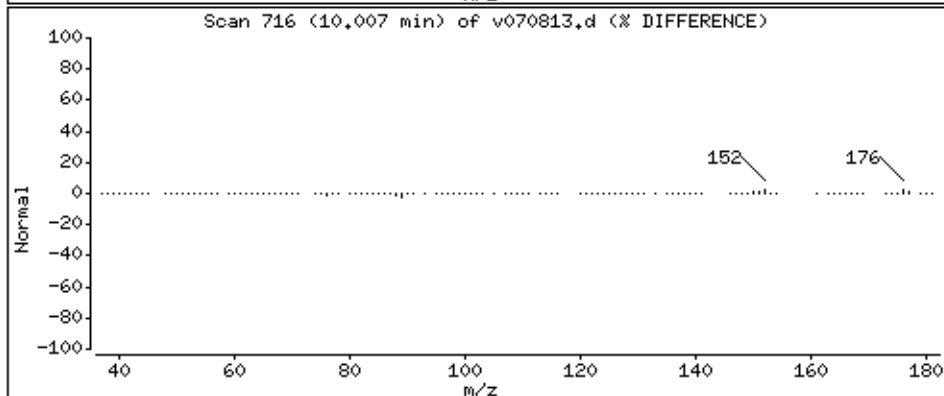
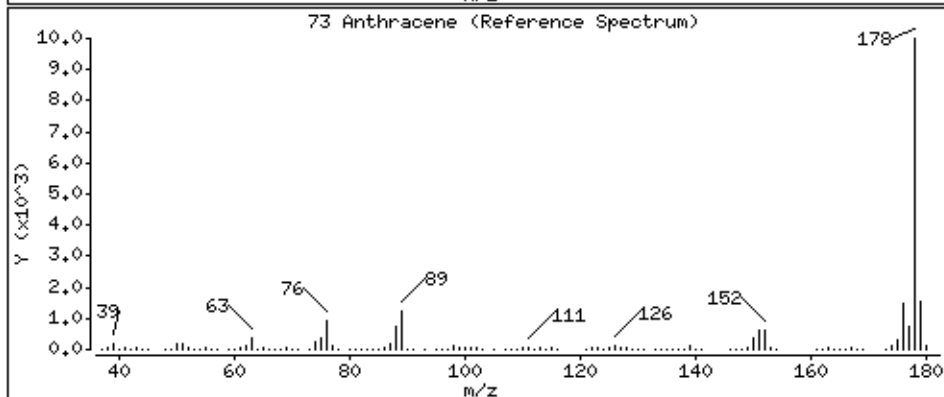
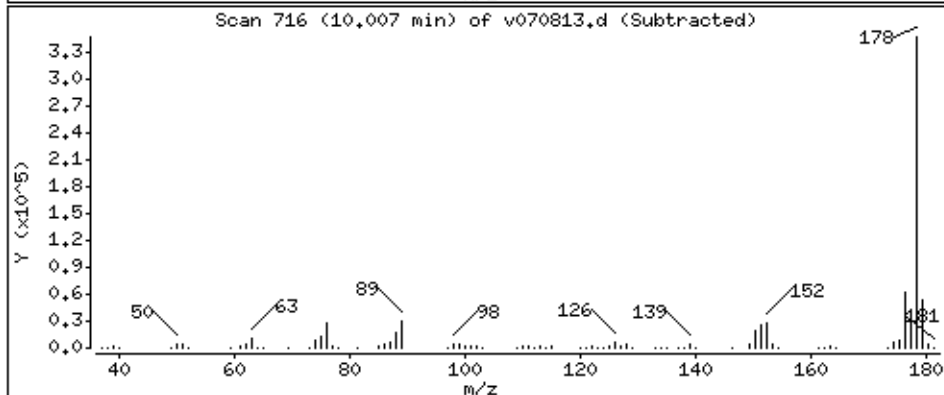
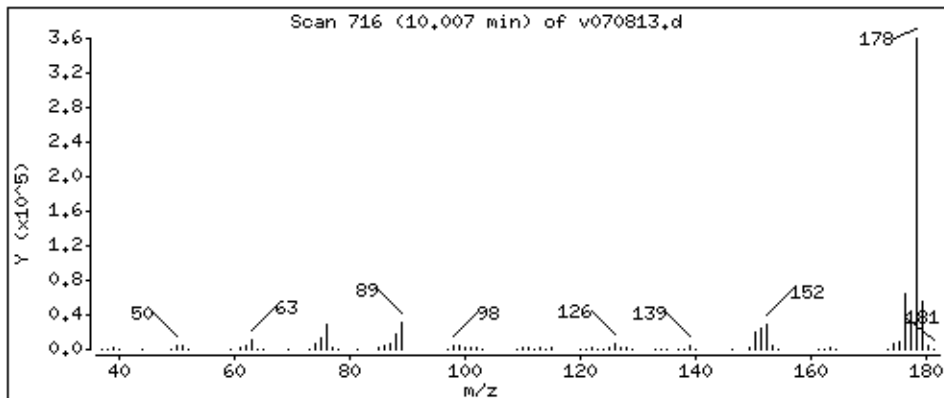
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

73 Anthracene

Concentration: 48.40 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

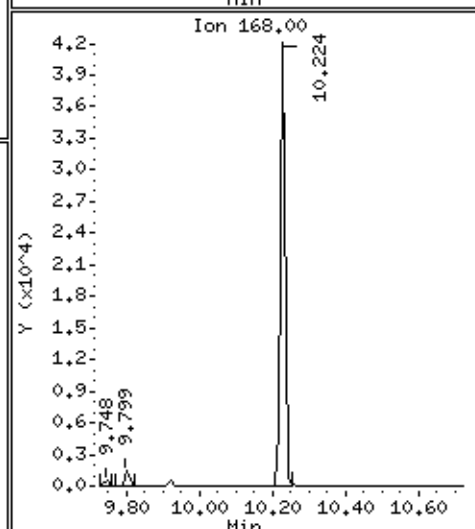
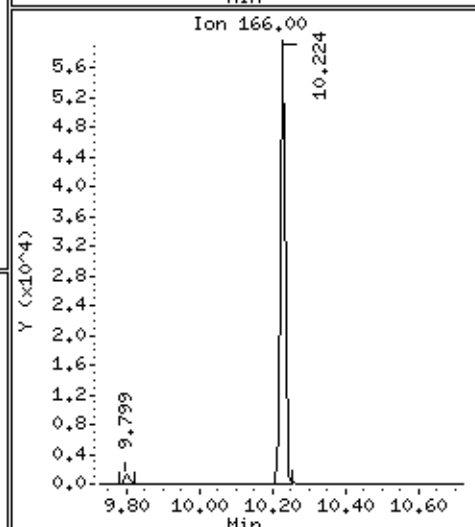
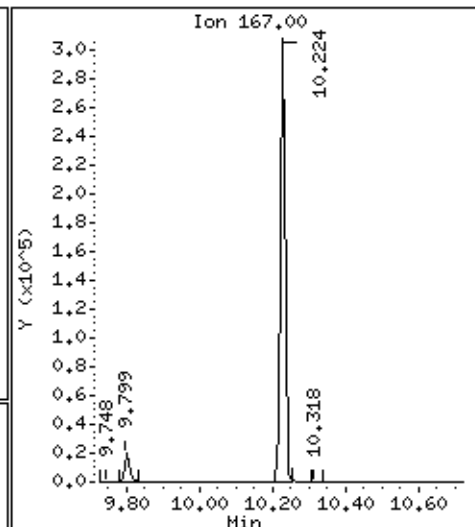
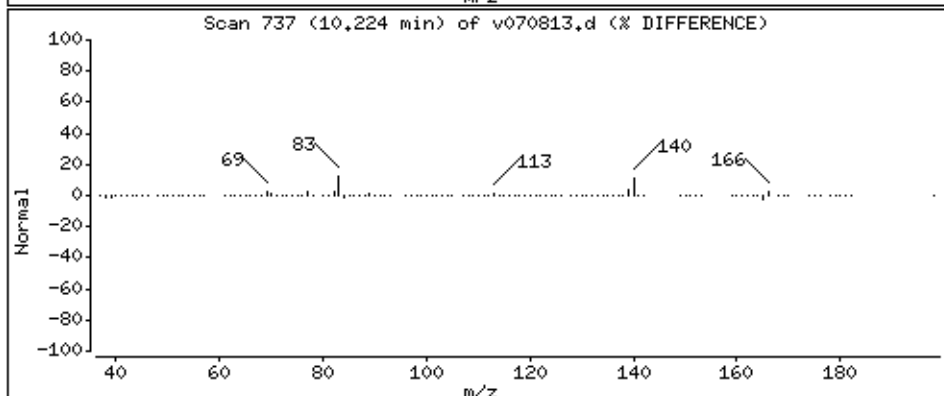
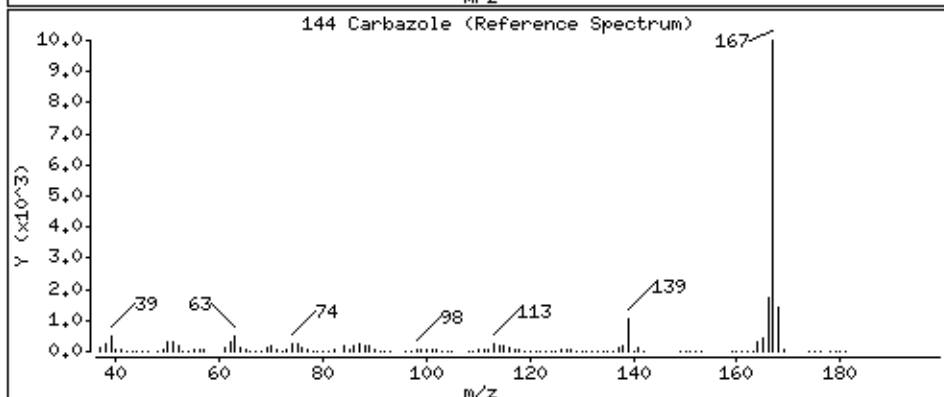
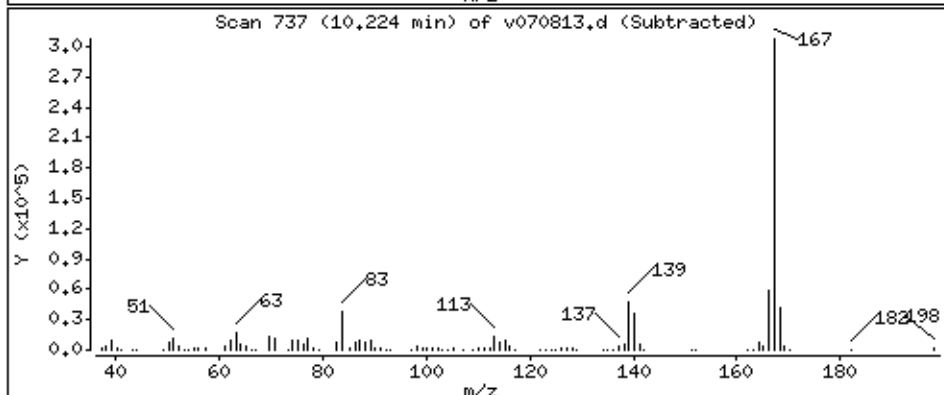
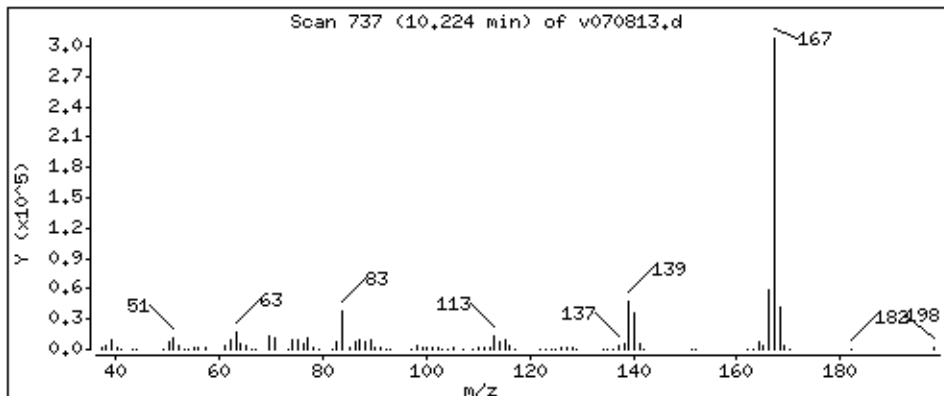
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

144 Carbazole

Concentration: 48.44 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

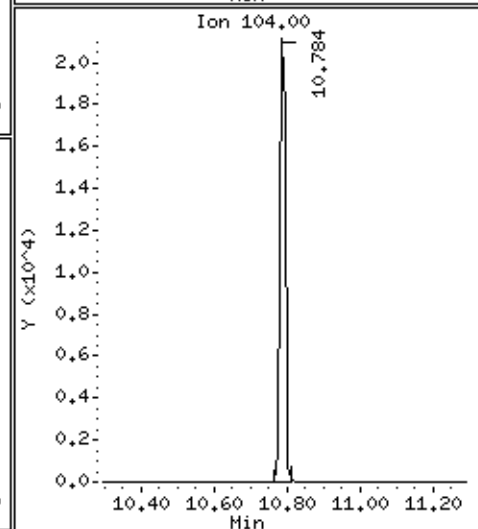
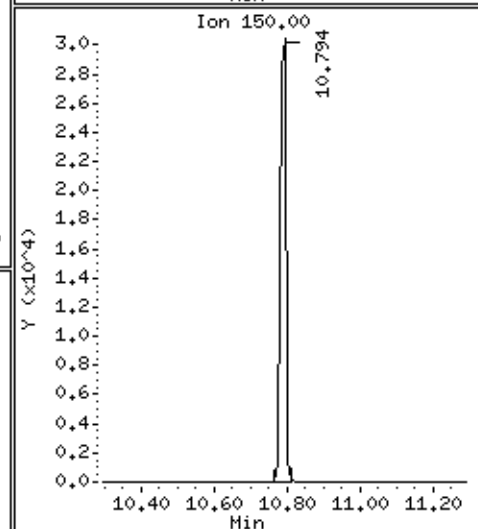
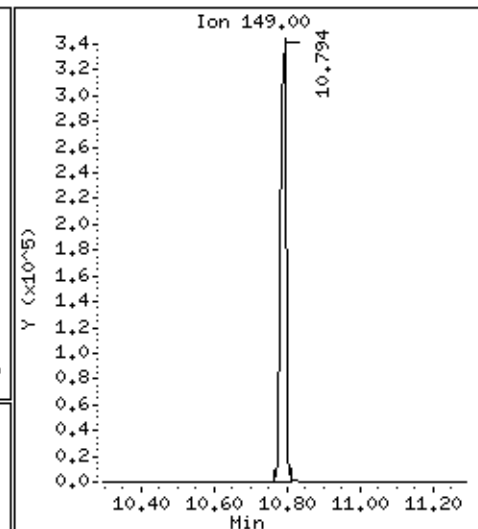
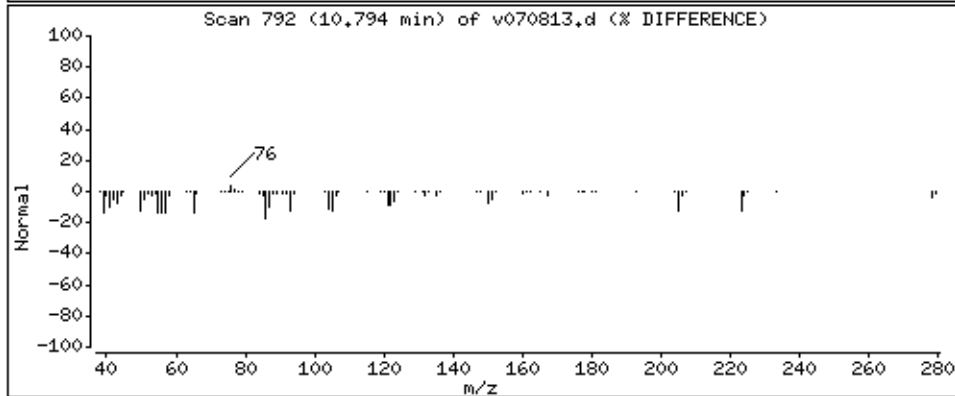
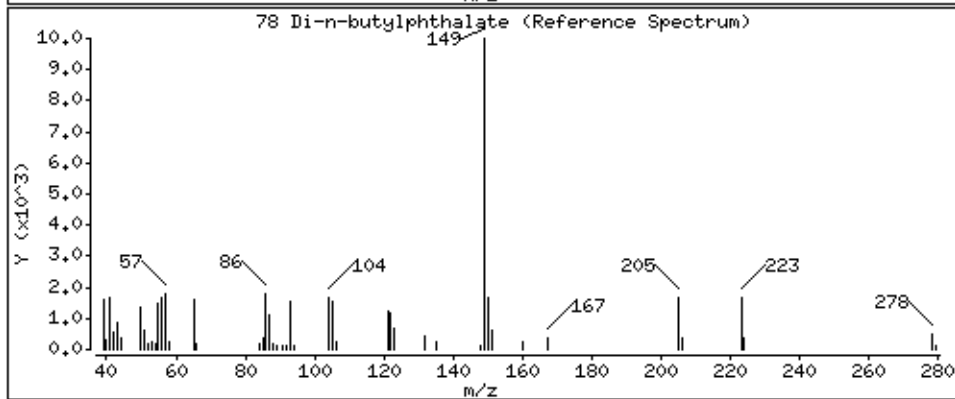
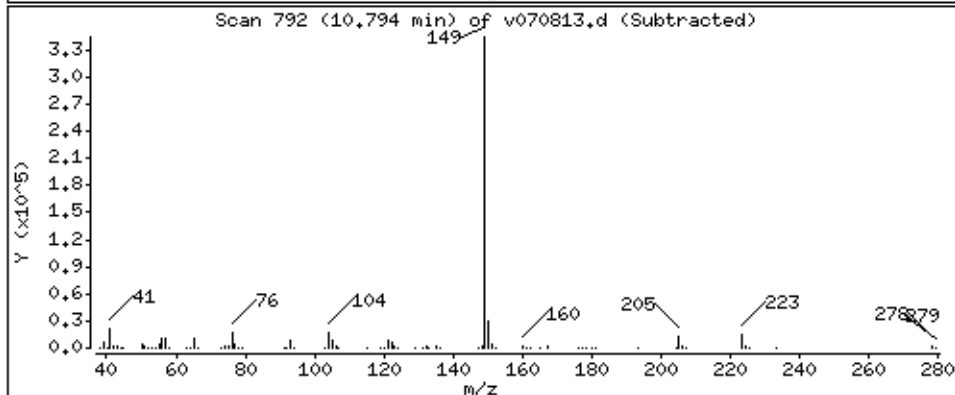
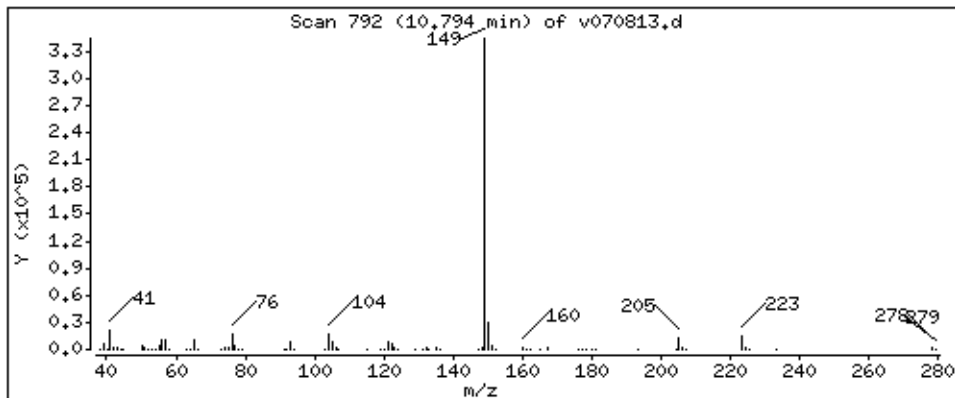
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

78 Di-n-butylphthalate

Concentration: 48.43 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

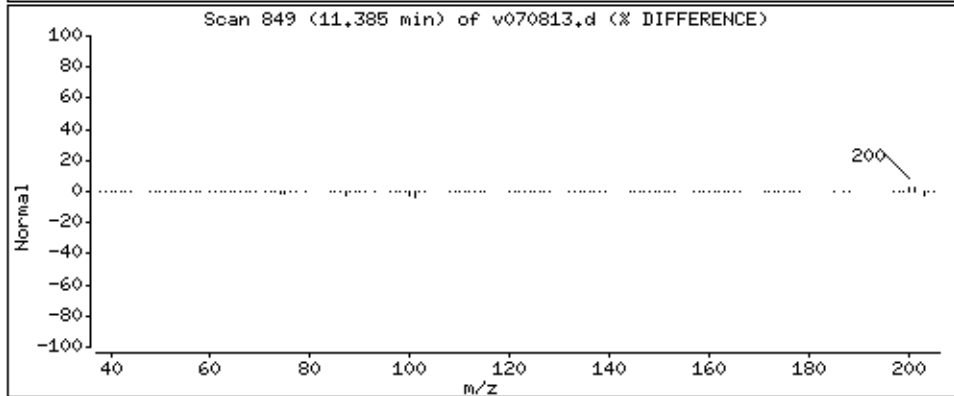
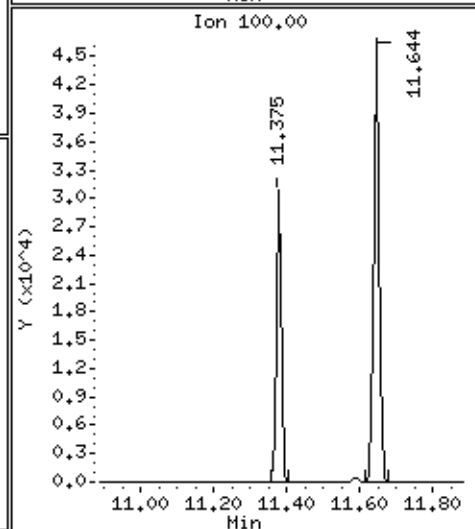
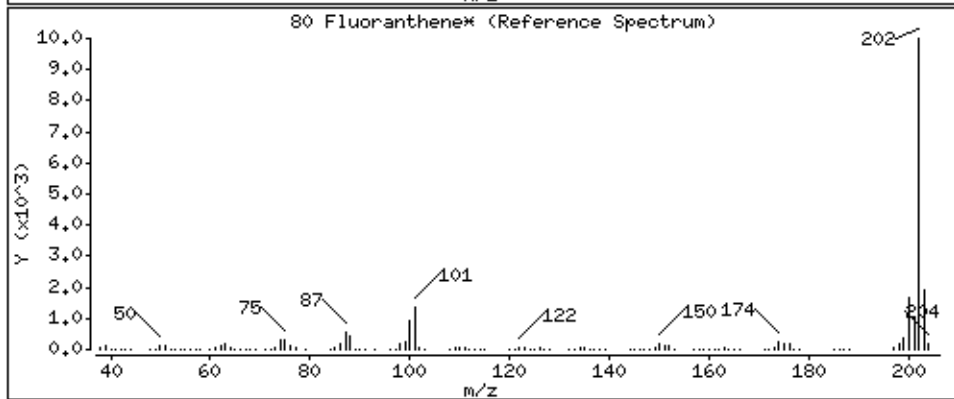
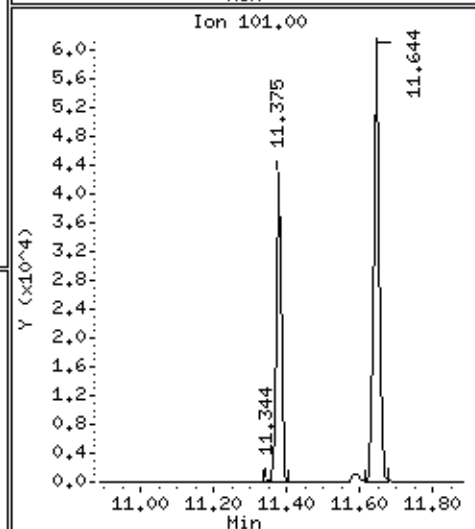
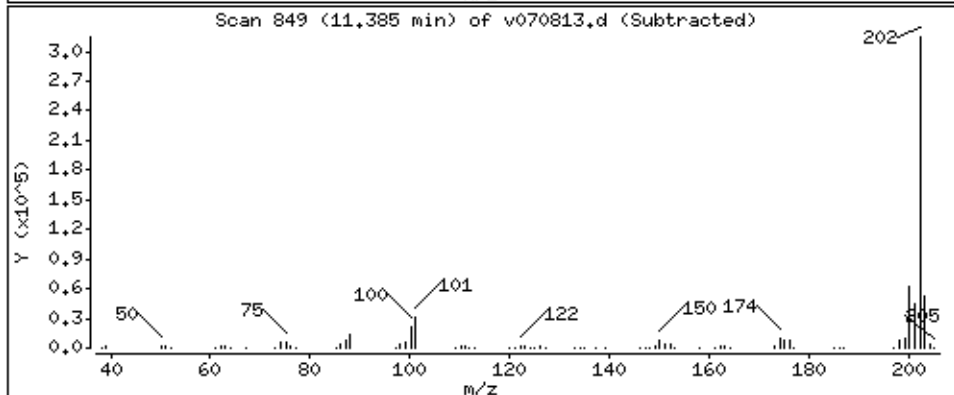
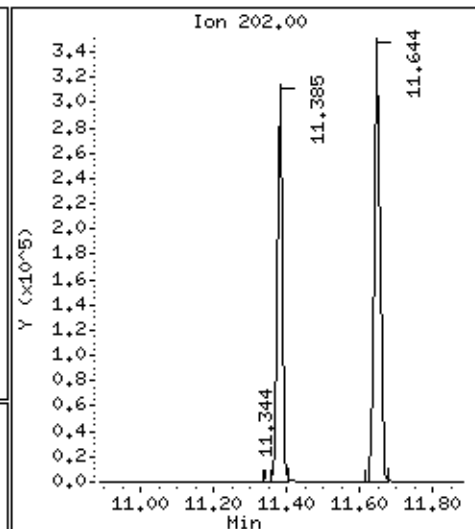
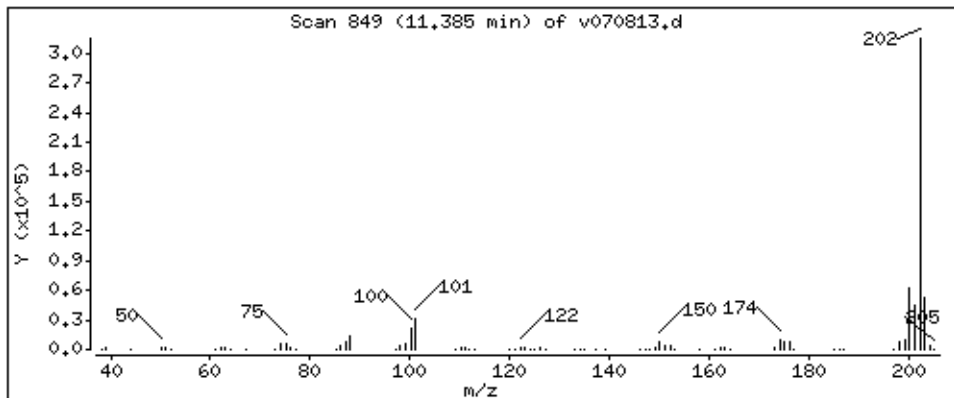
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

80 Fluoranthene*

Concentration: 49.34 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

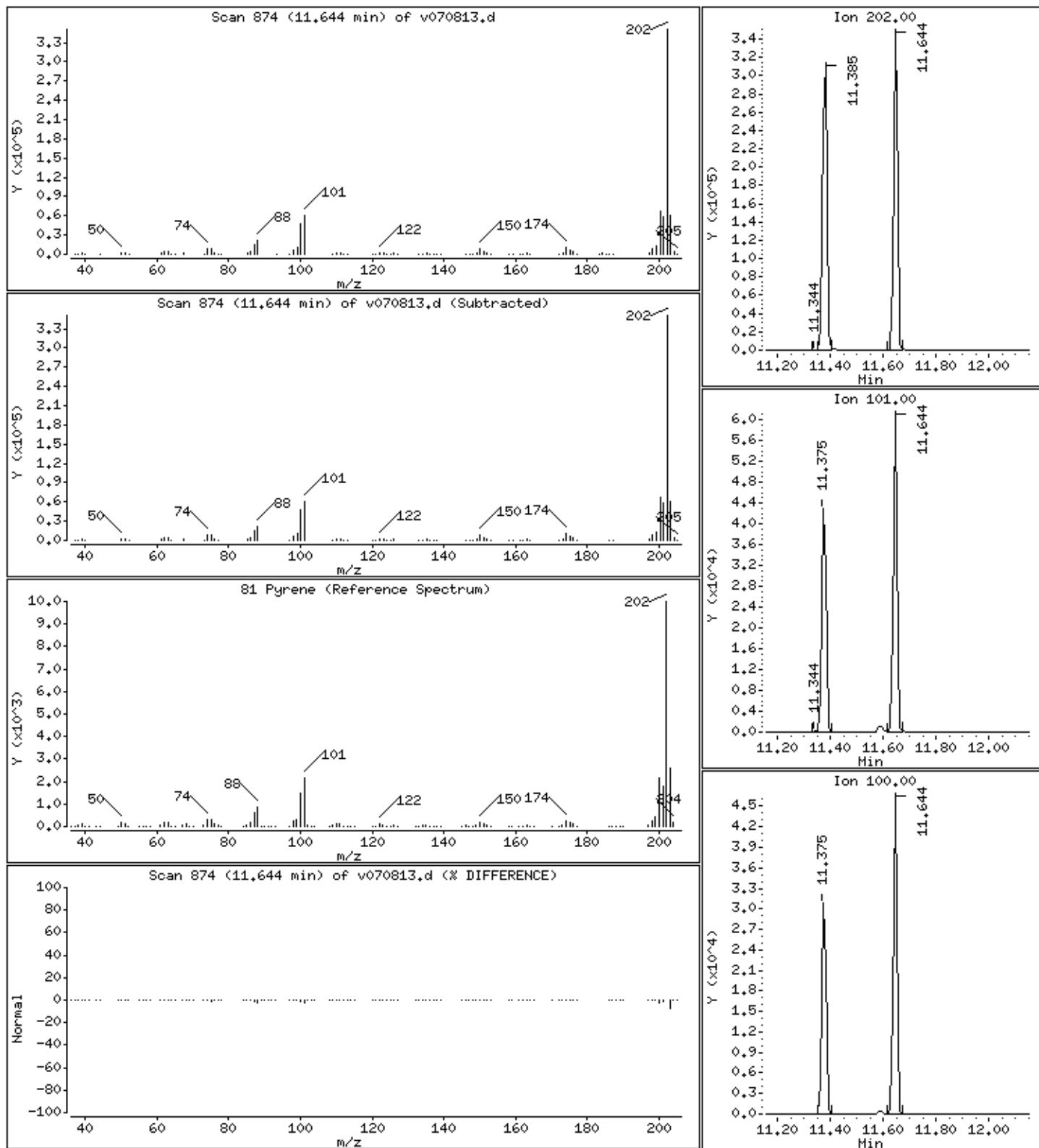
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

81 Pyrene

Concentration: 46.28 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

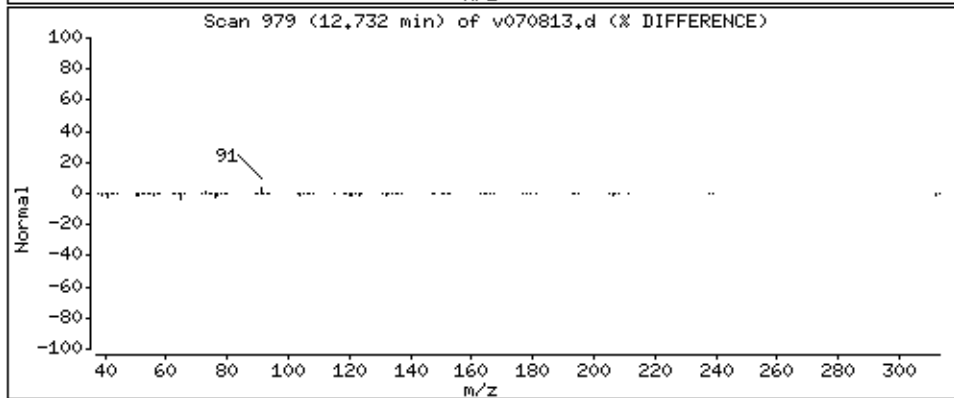
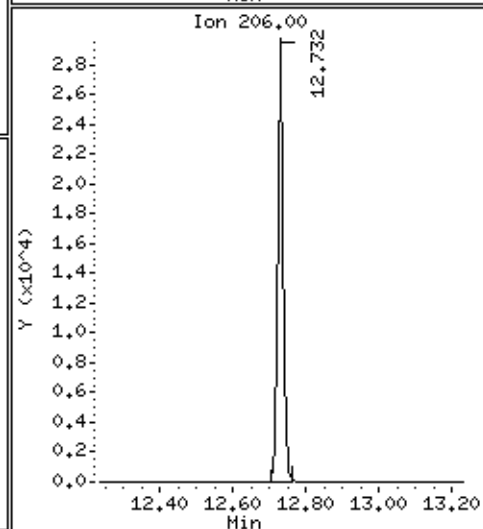
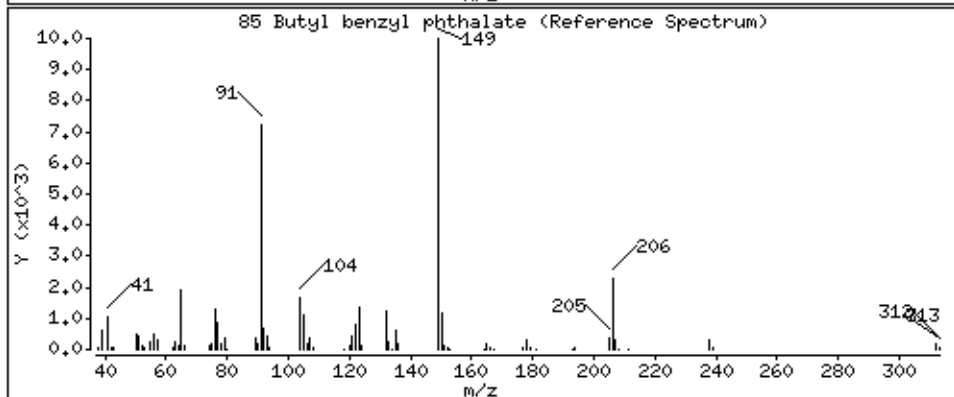
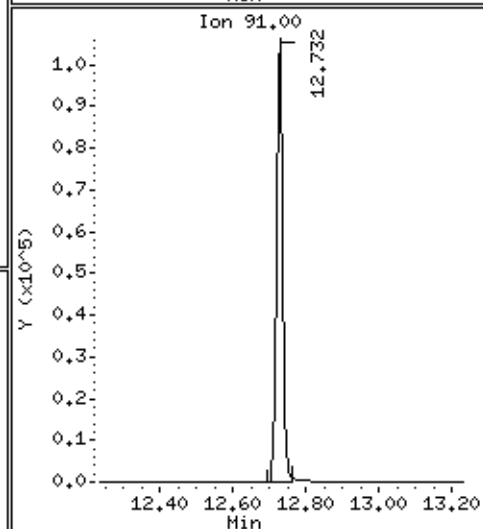
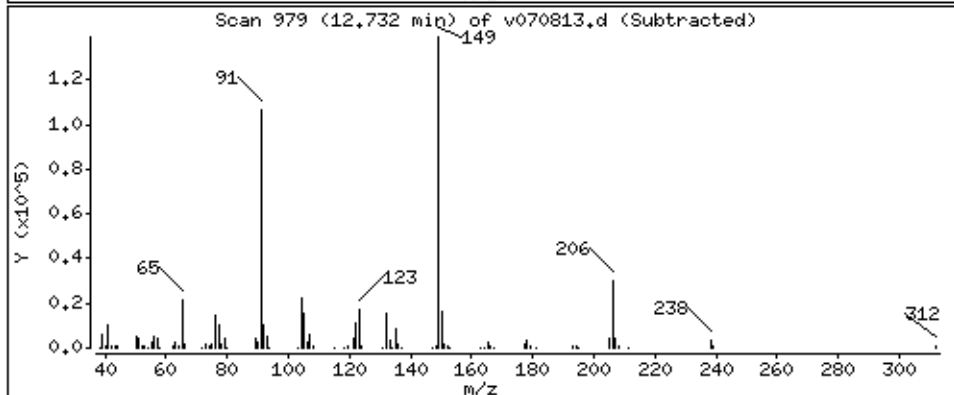
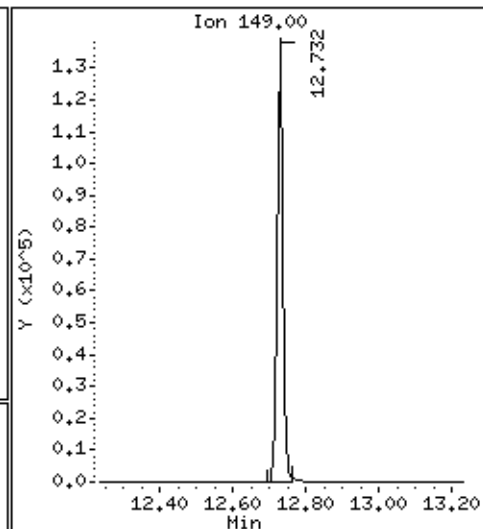
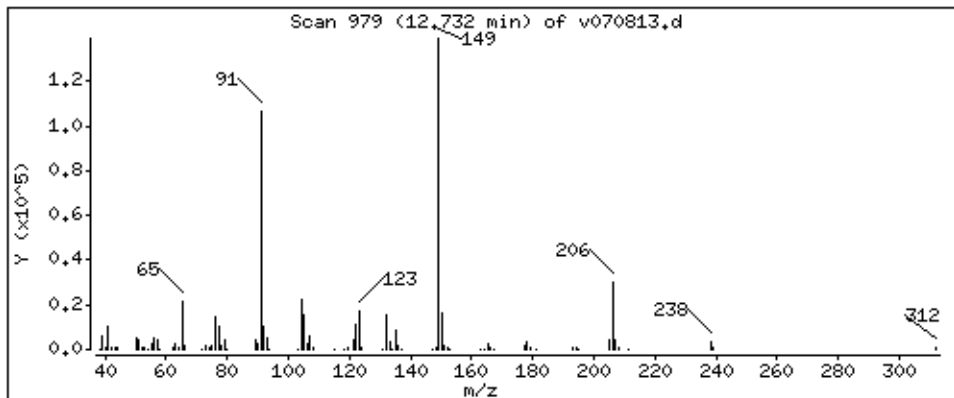
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

85 Butyl benzyl phthalate

Concentration: 49.18 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

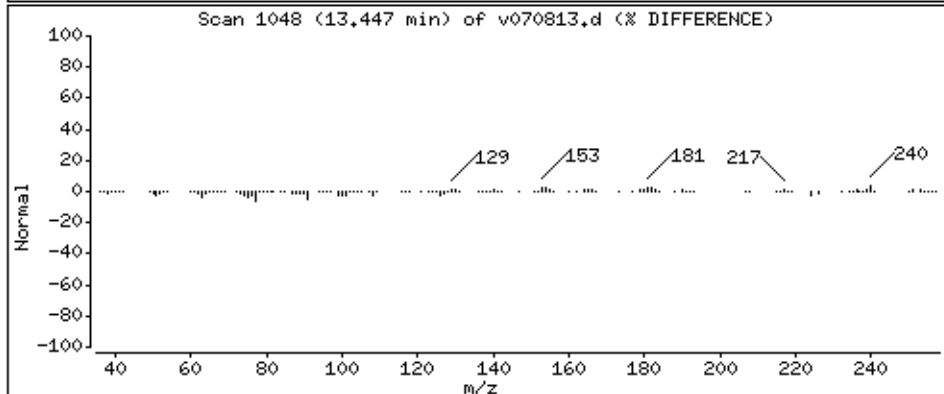
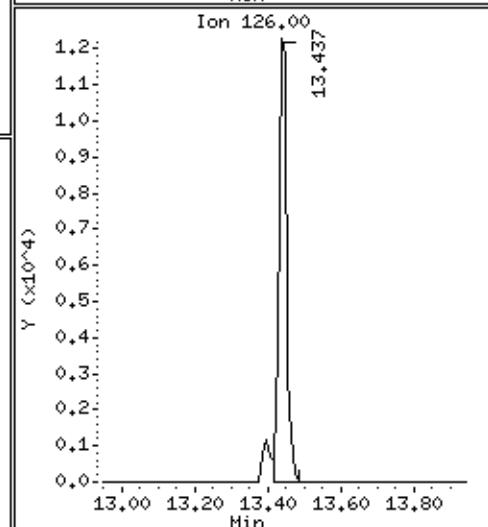
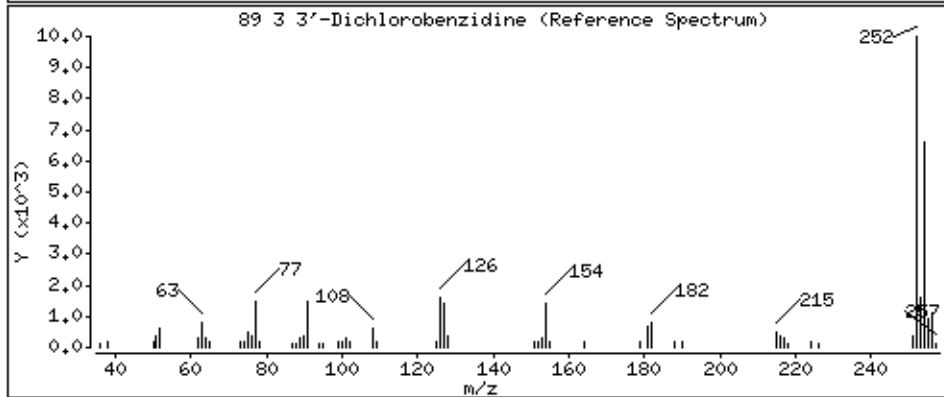
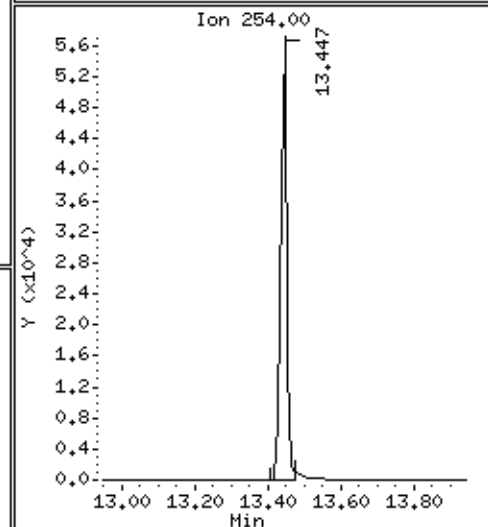
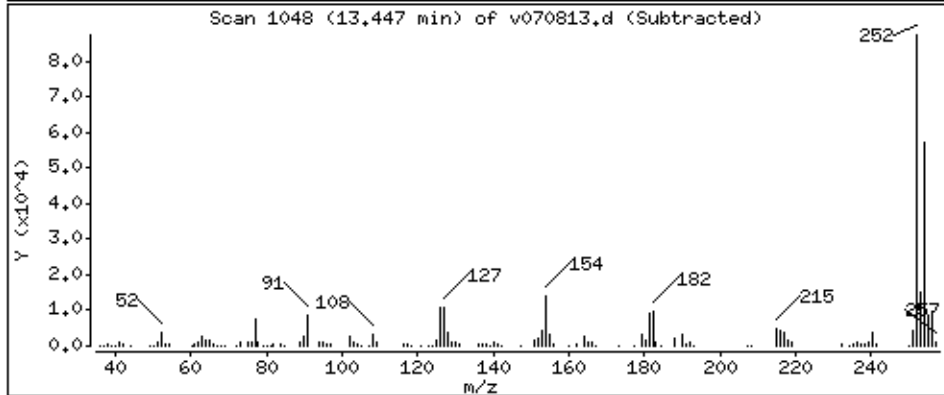
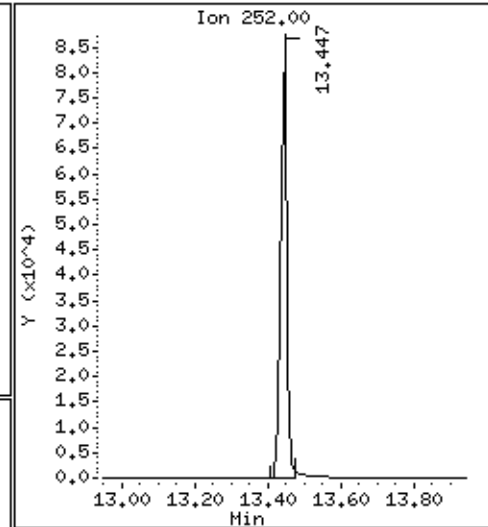
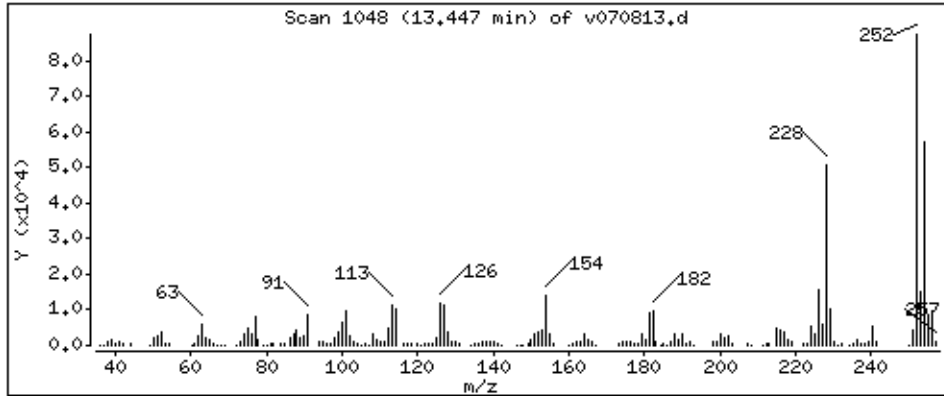
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

89 3 3'-Dichlorobenzidine

Concentration: 44.51 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

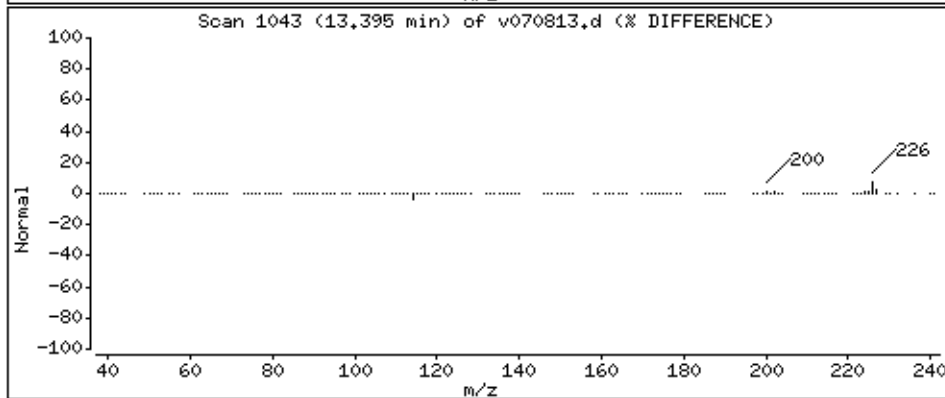
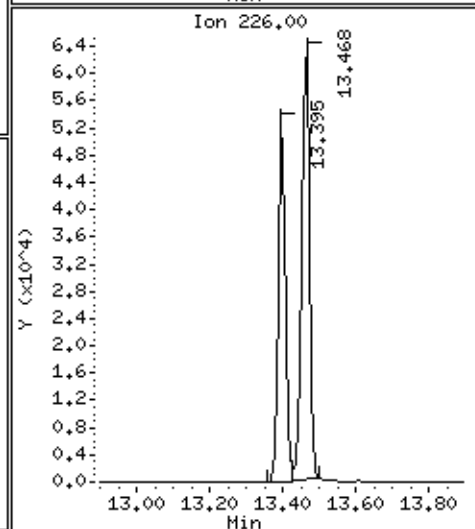
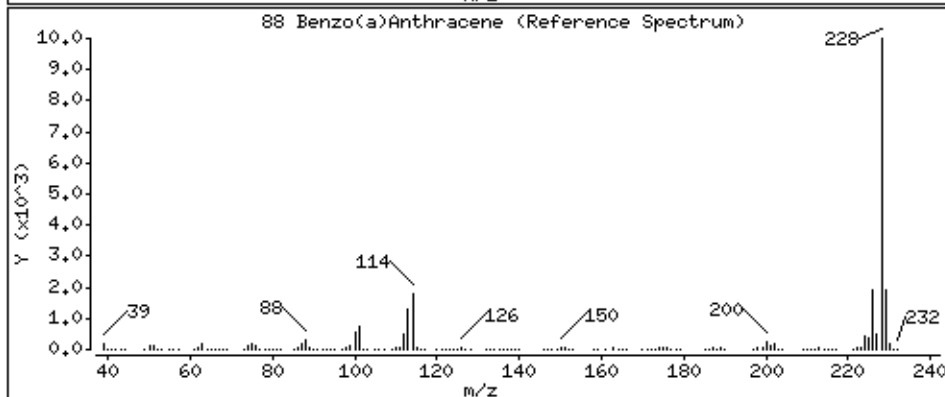
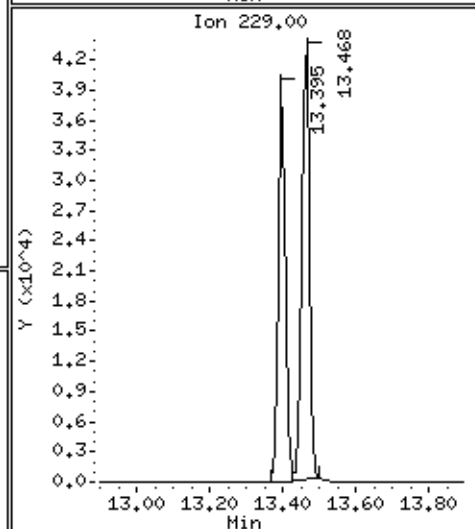
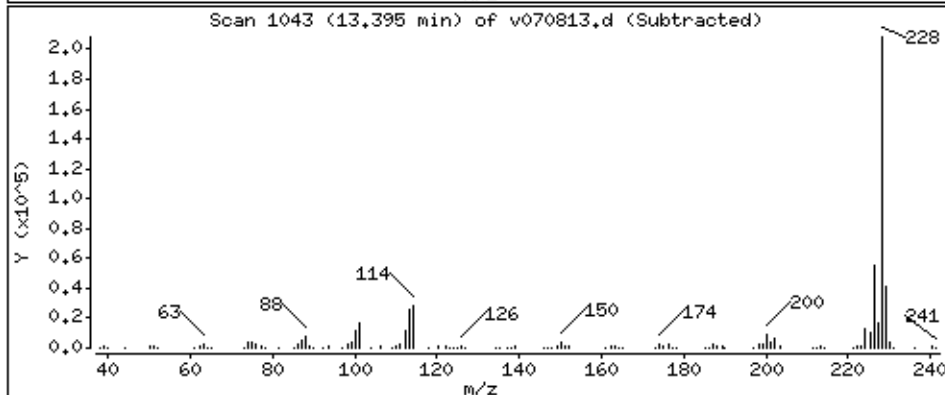
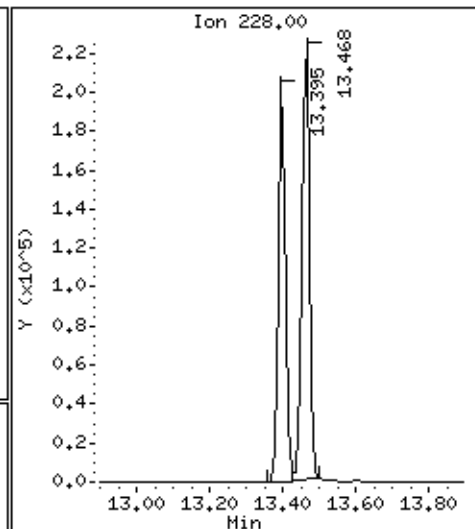
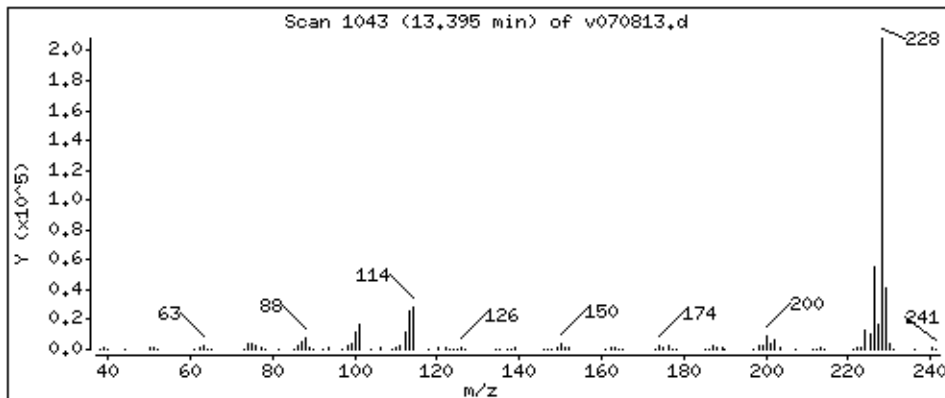
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

88 Benzo(a)Anthracene

Concentration: 45.80 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

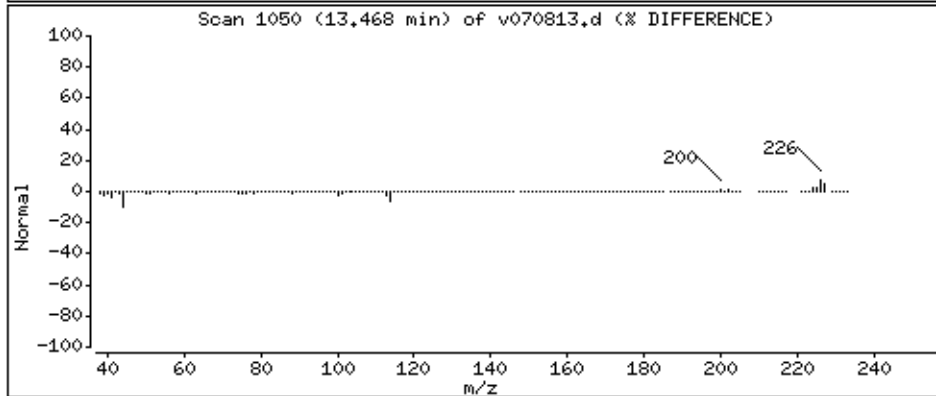
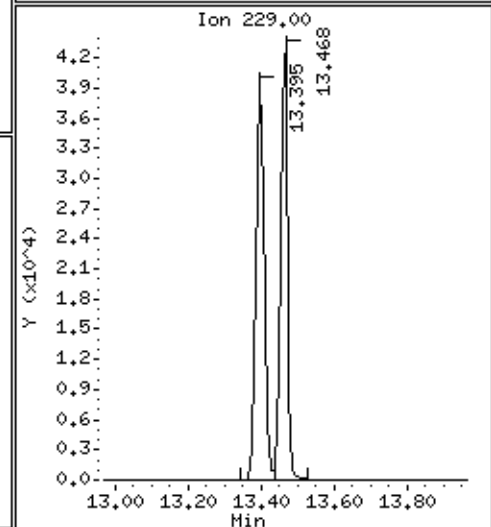
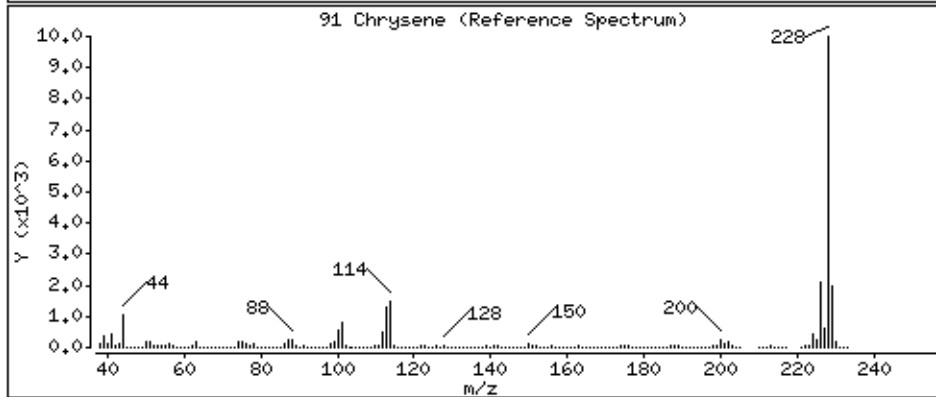
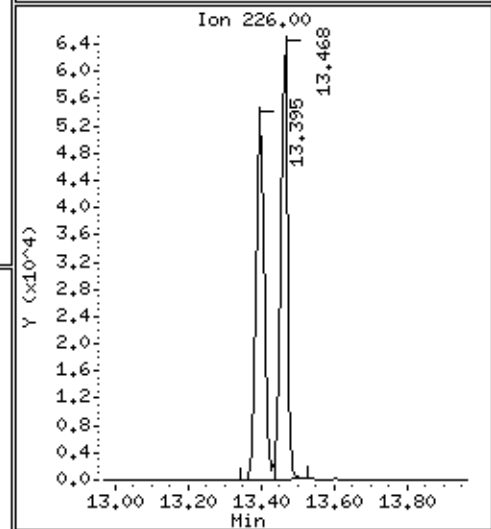
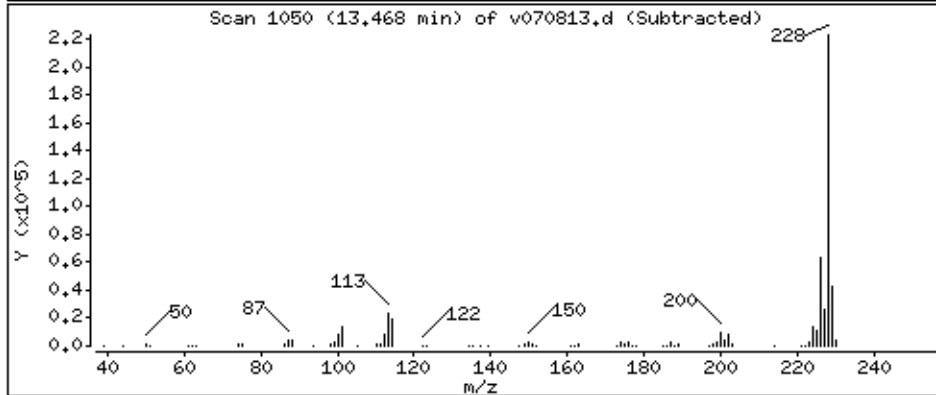
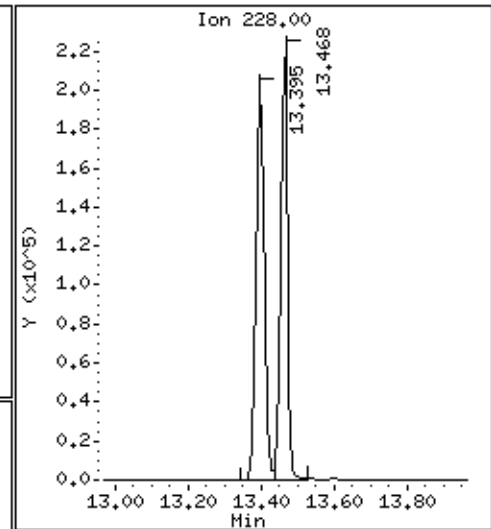
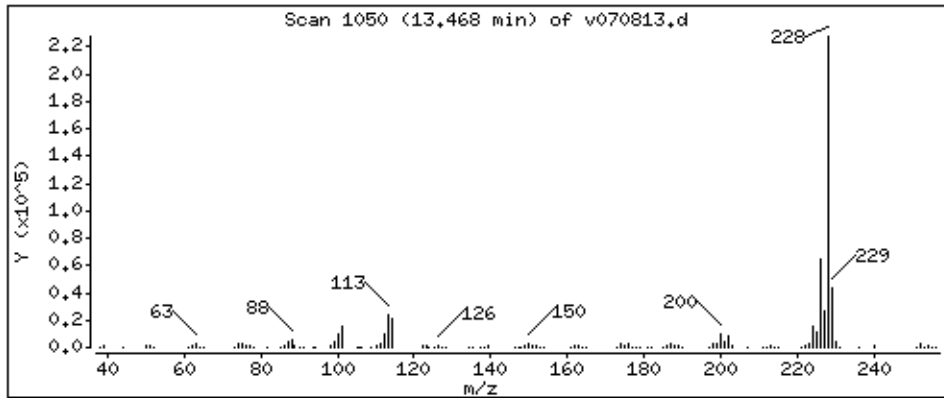
Operator: rn

Column phase: DB-5,625

Column diameter: 0.25

91 Chrysene

Concentration: 44.11 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

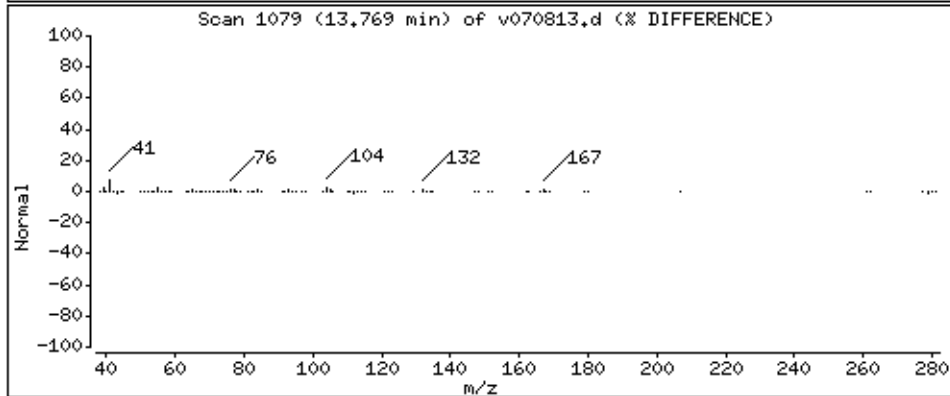
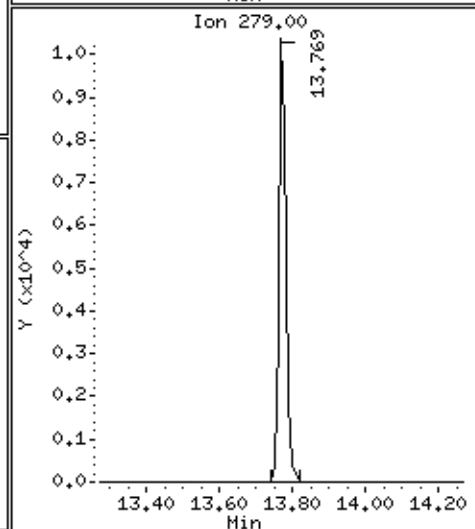
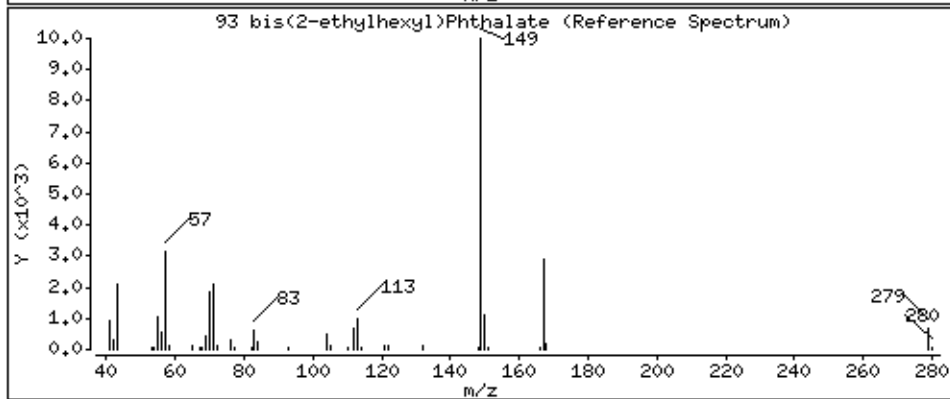
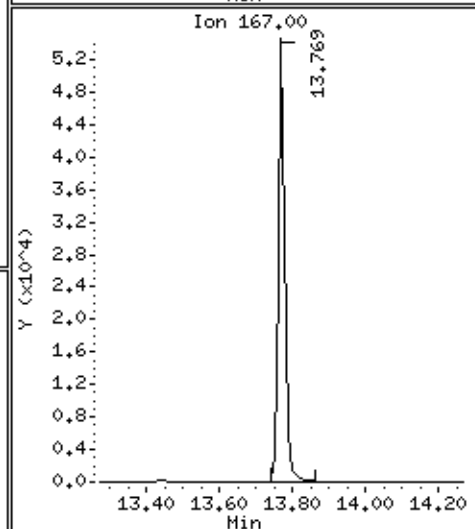
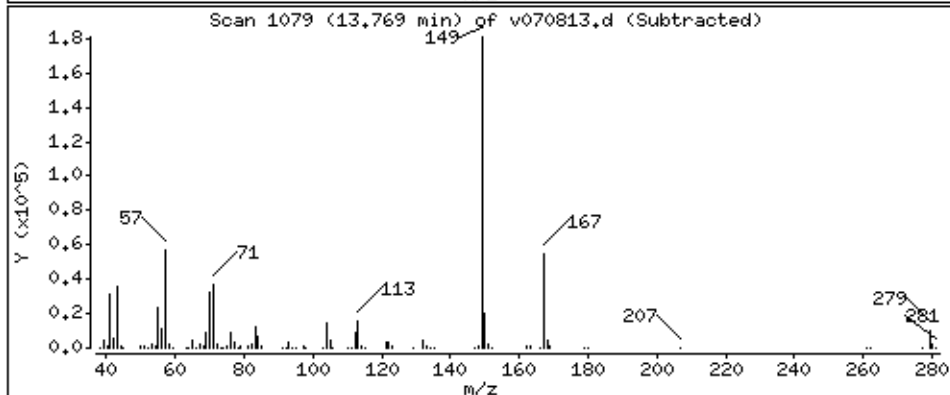
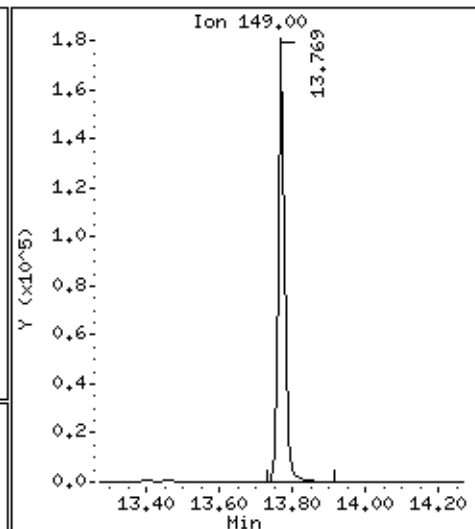
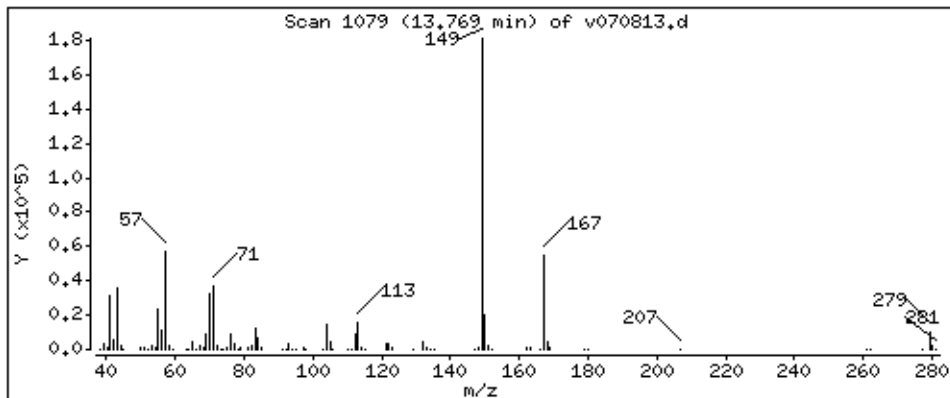
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

93 bis(2-ethylhexyl)Phthalate

Concentration: 49.29 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

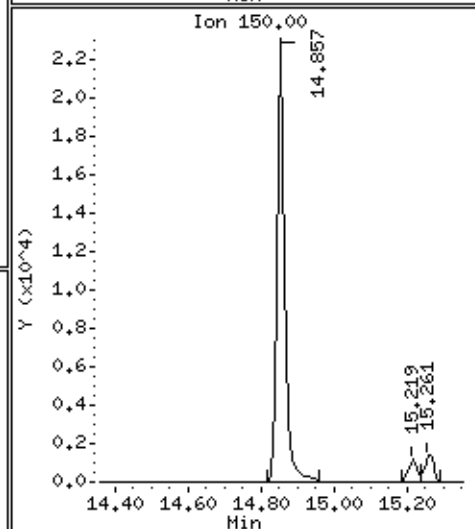
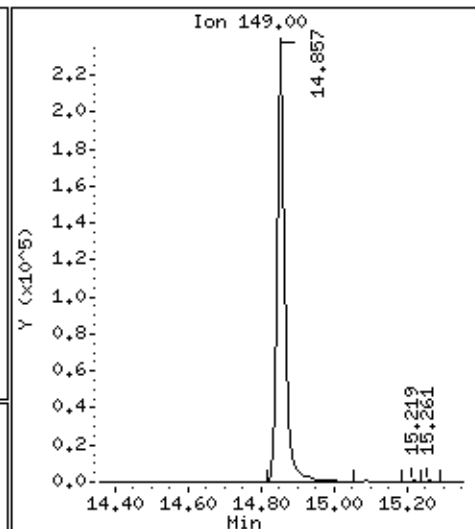
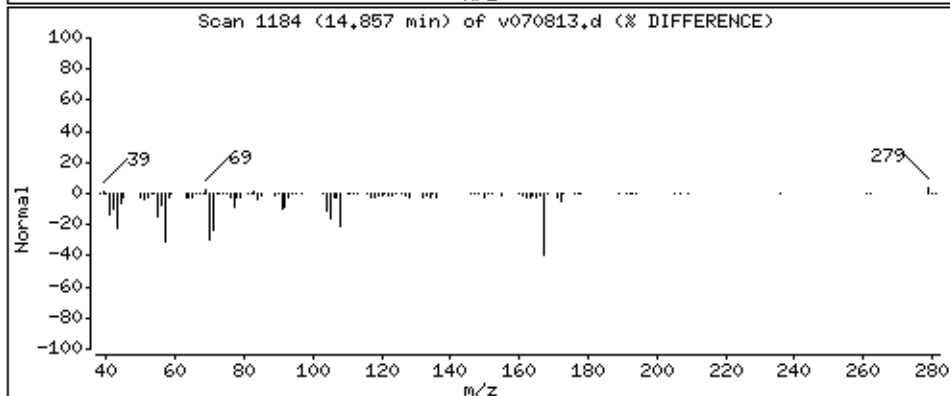
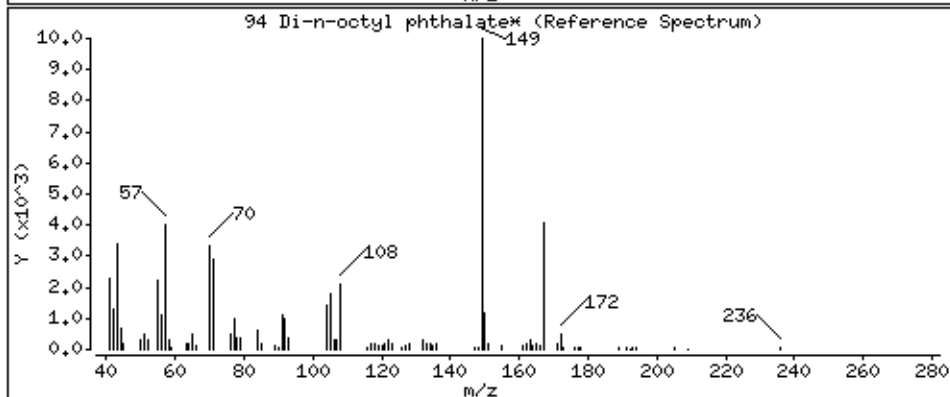
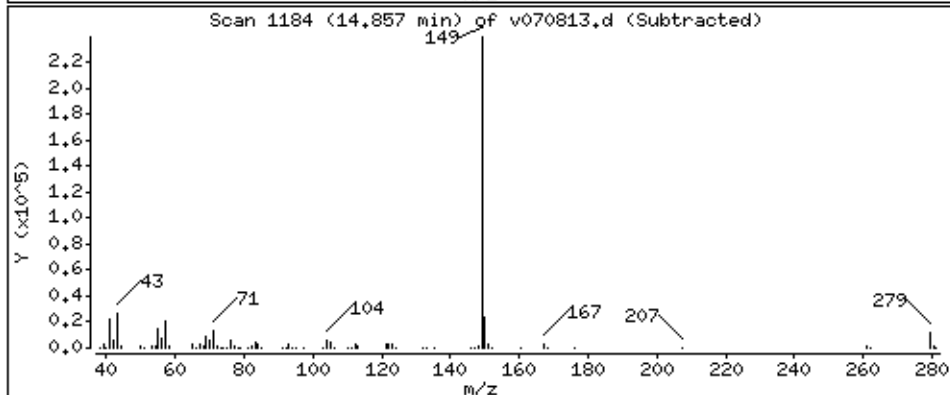
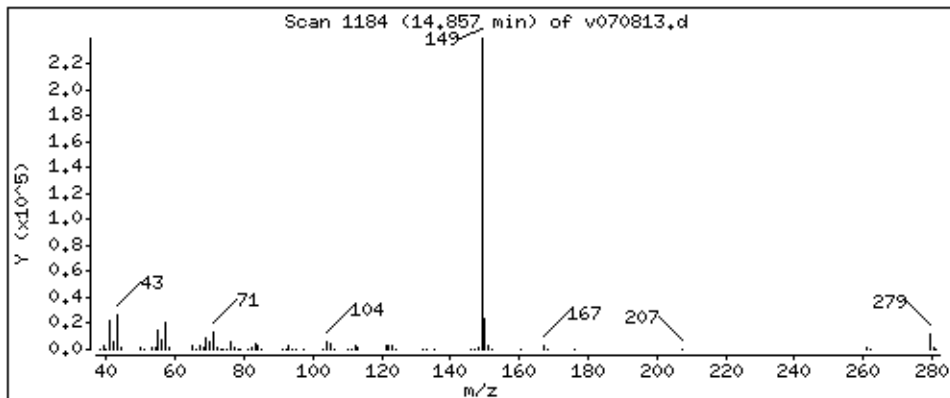
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

94 Di-n-octyl phthalate*

Concentration: 52.28 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

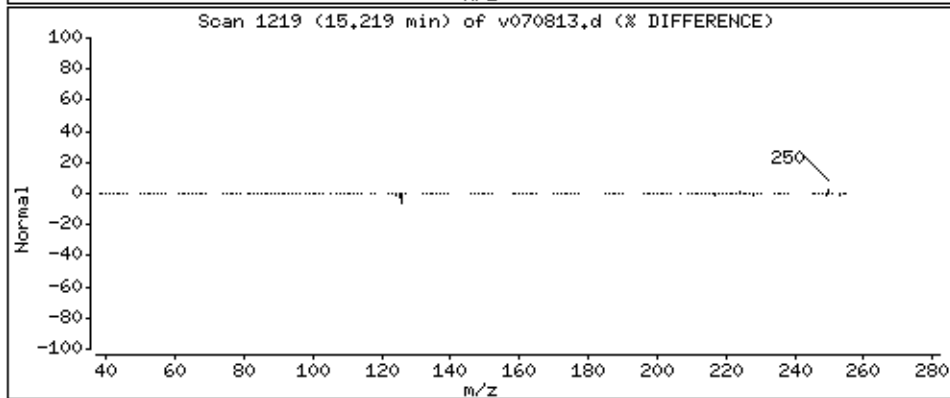
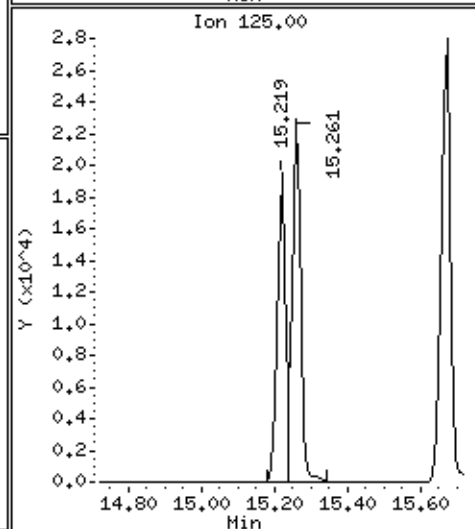
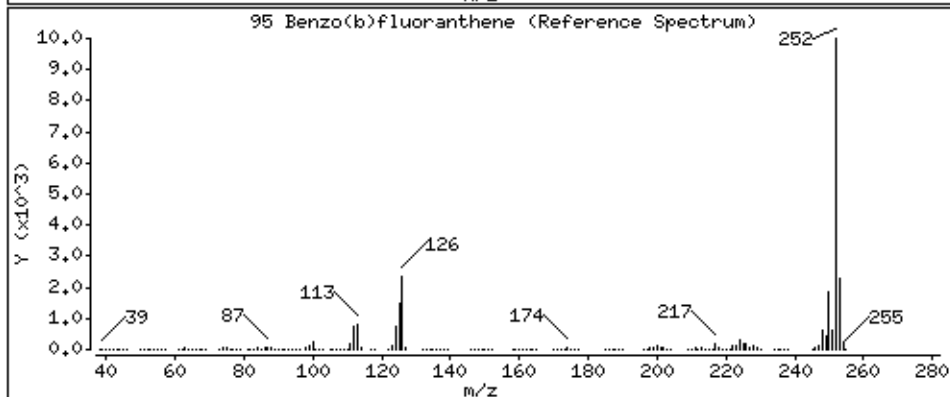
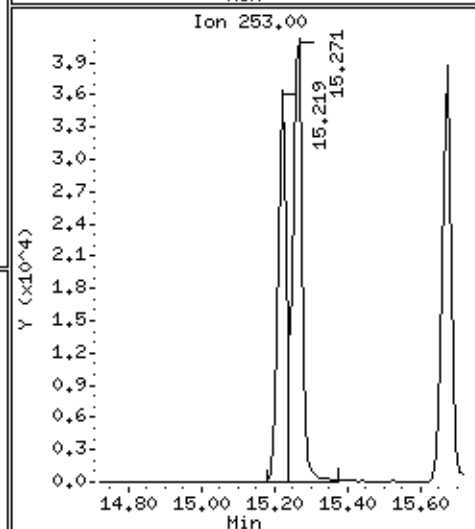
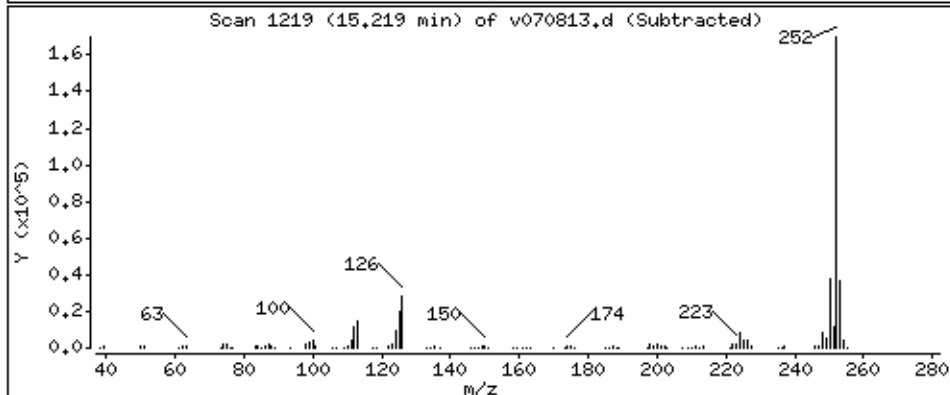
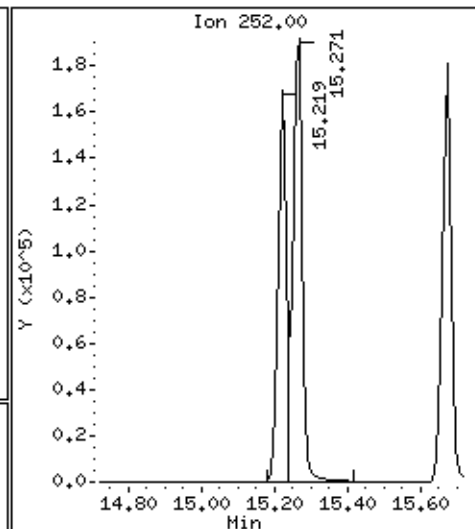
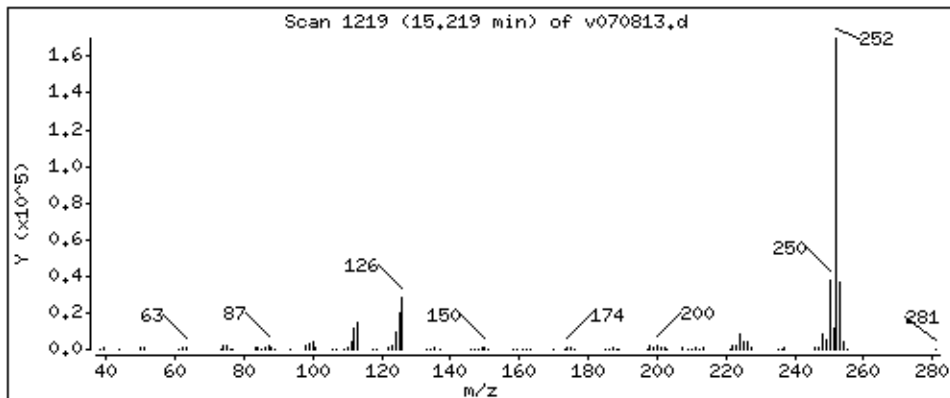
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

95 Benzo(b)fluoranthene

Concentration: 48.09 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

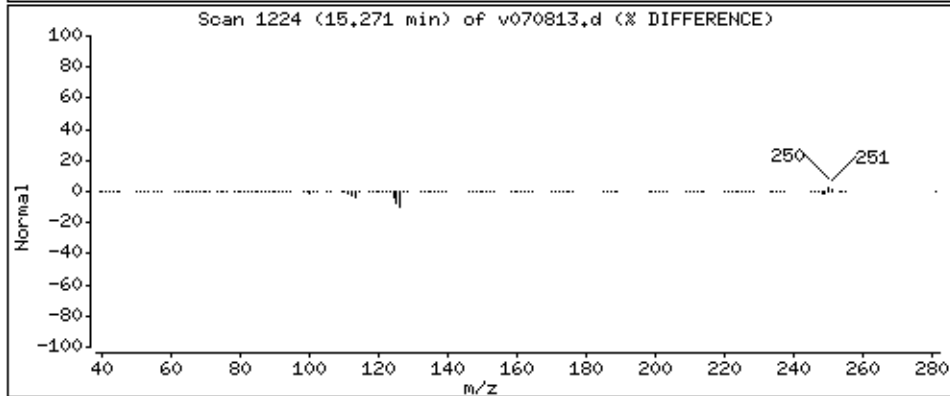
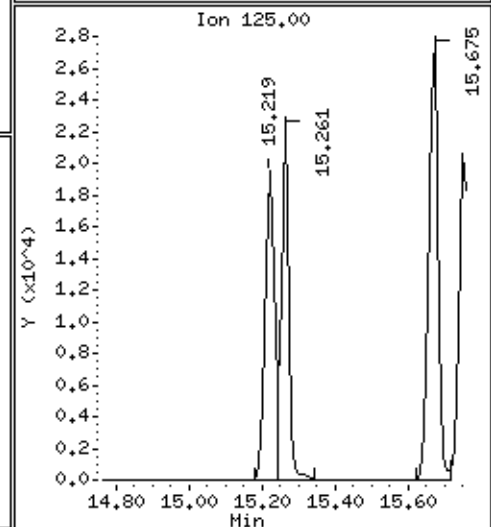
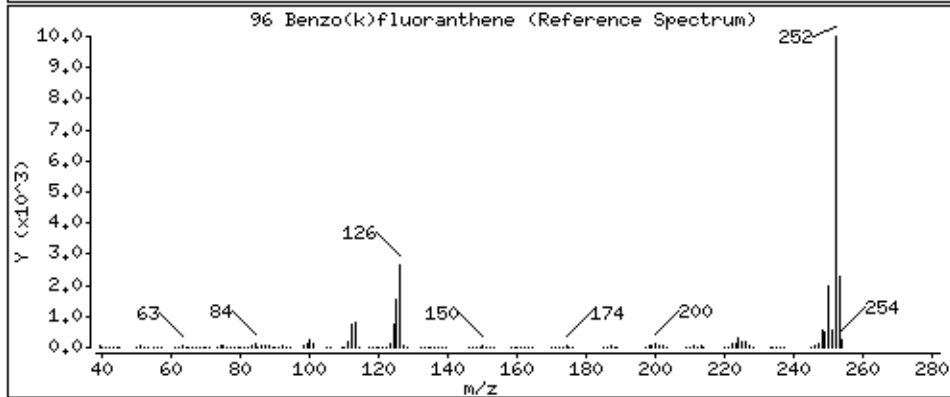
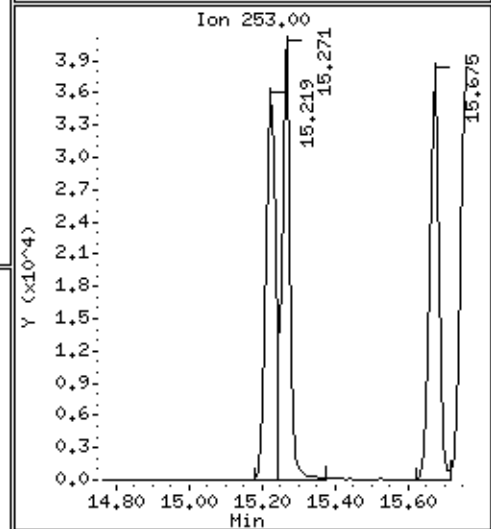
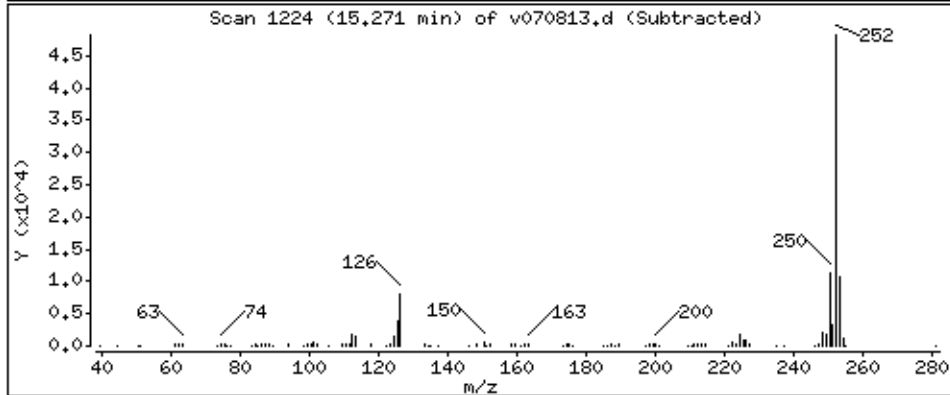
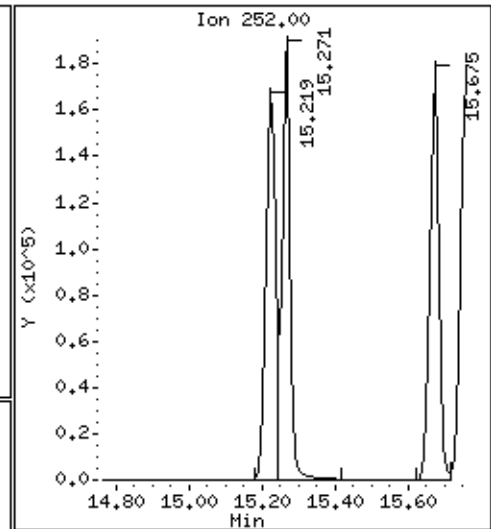
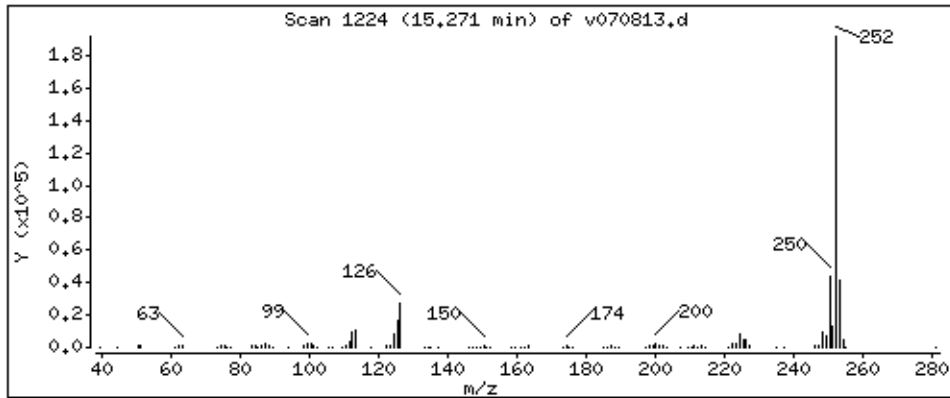
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

96 Benzo(k)fluoranthene

Concentration: 50.65 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: ;1685-155-50;LCS

Volume Injected (uL): 1.0

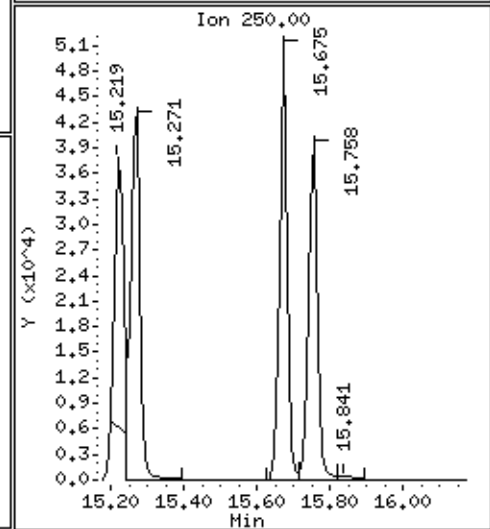
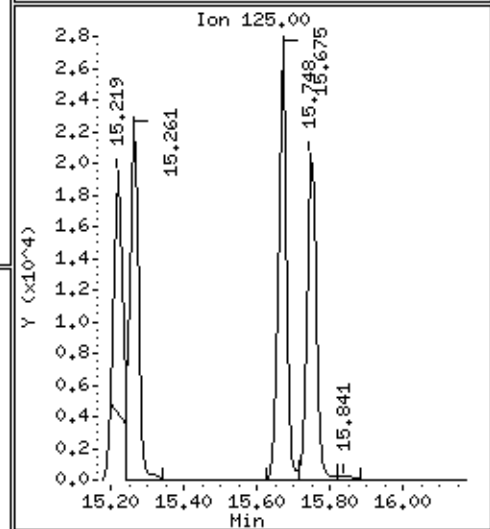
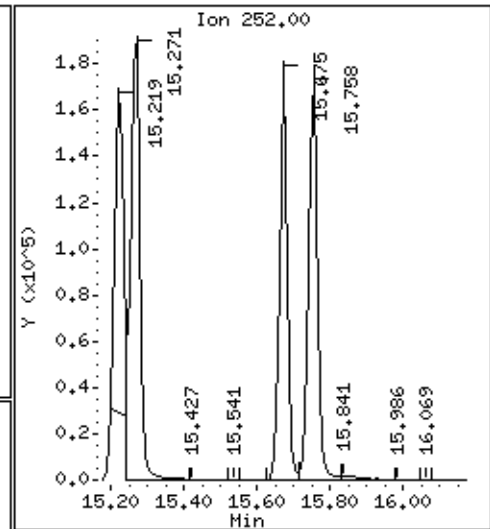
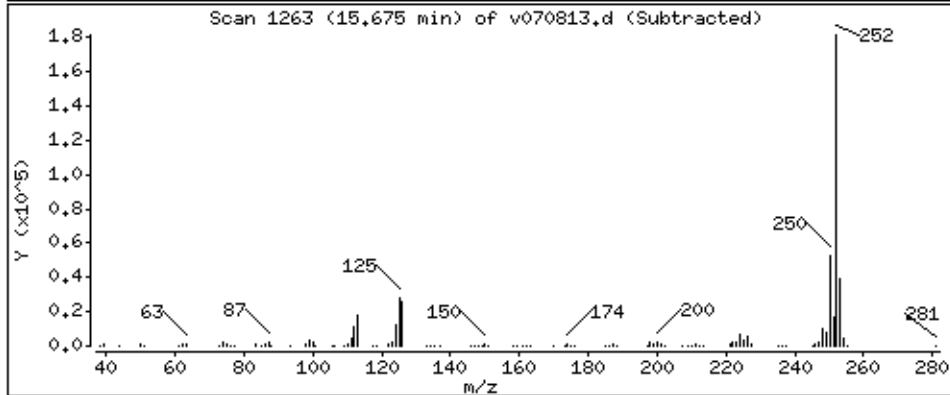
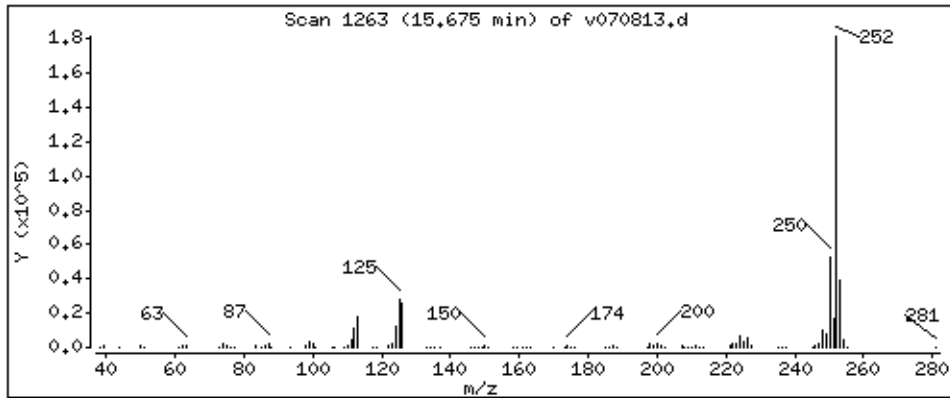
Operator: rn

Column phase: DB-5,625

Column diameter: 0.25

97 Benzo(e)pyrene

Concentration: 48.72 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

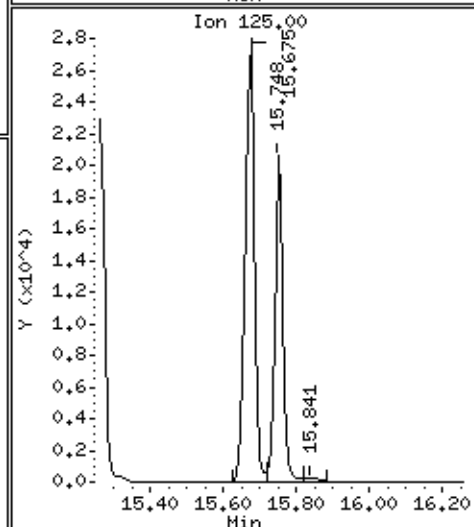
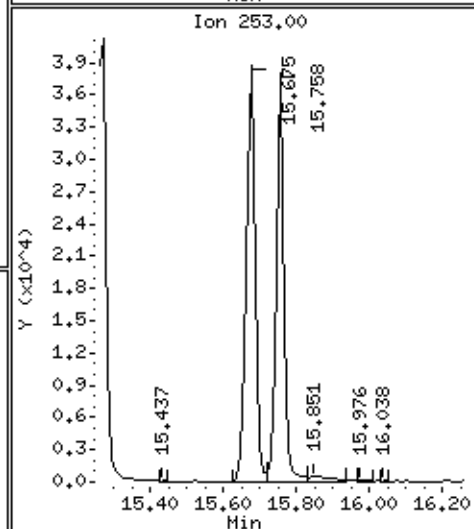
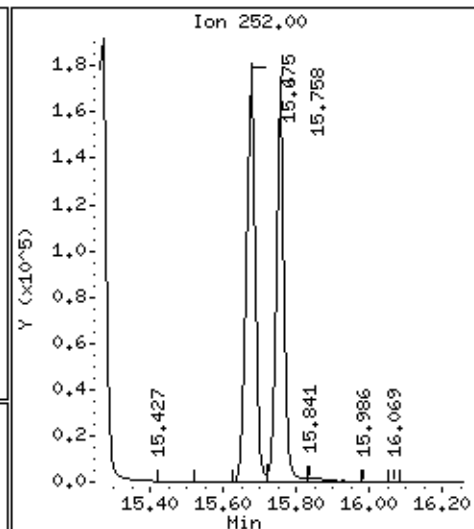
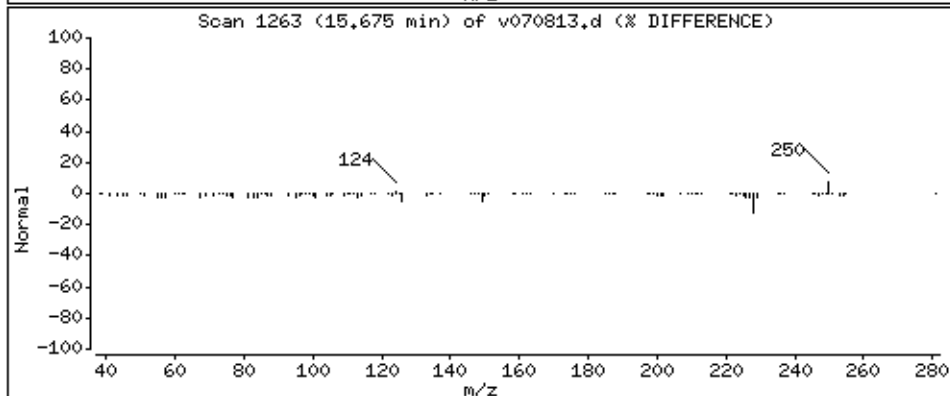
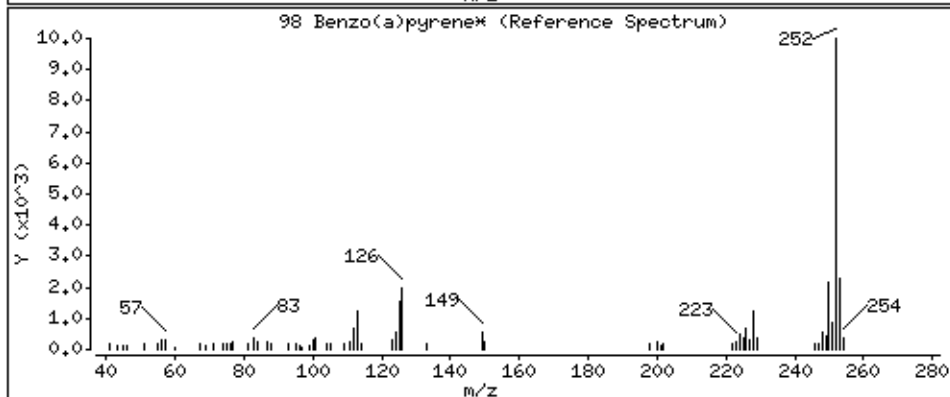
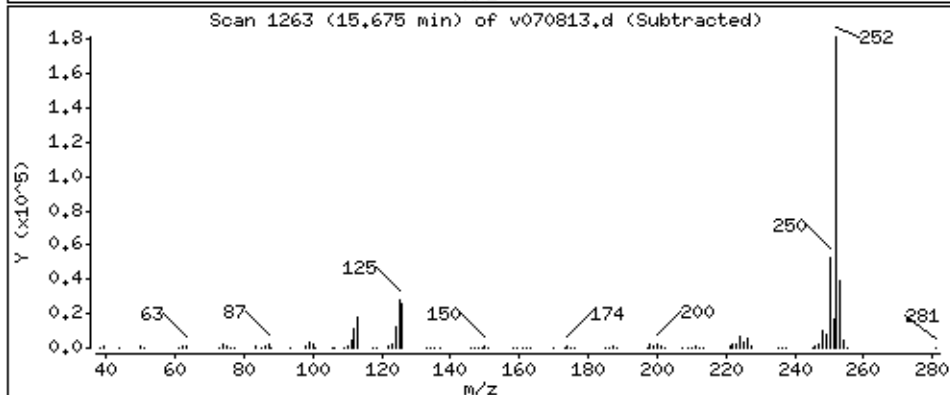
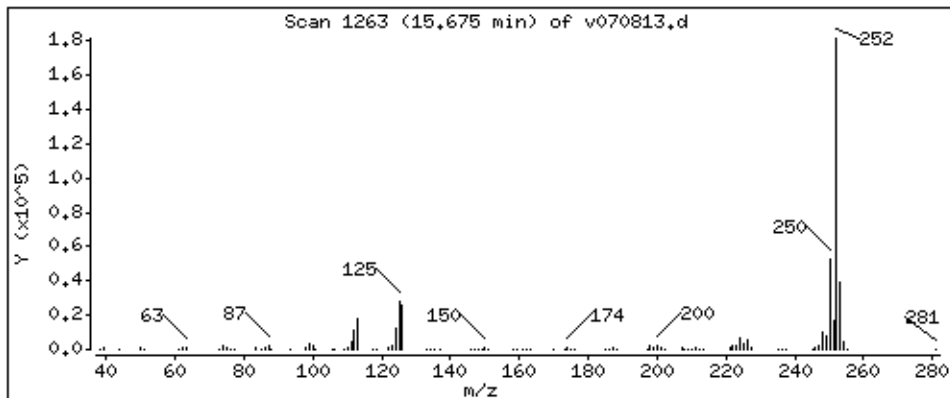
Operator: rn

Column phase: DB-5,625

Column diameter: 0.25

98 Benzo(a)pyrene*

Concentration: 47.04 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

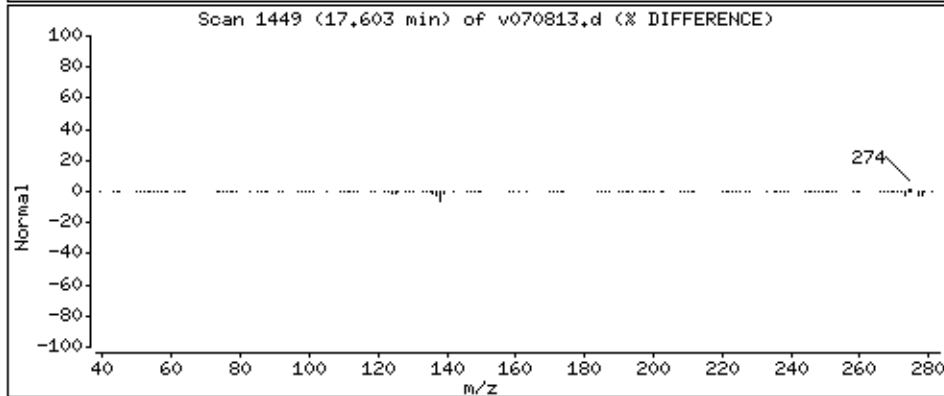
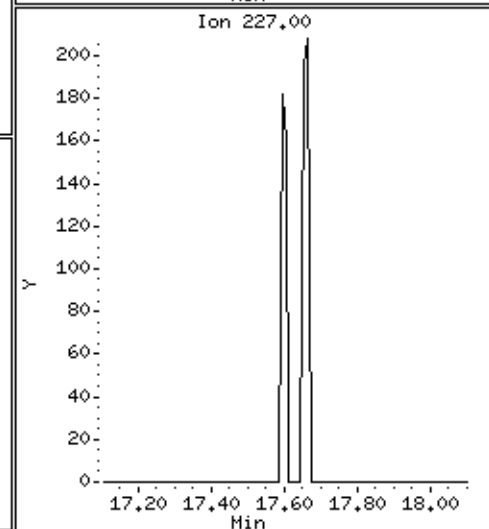
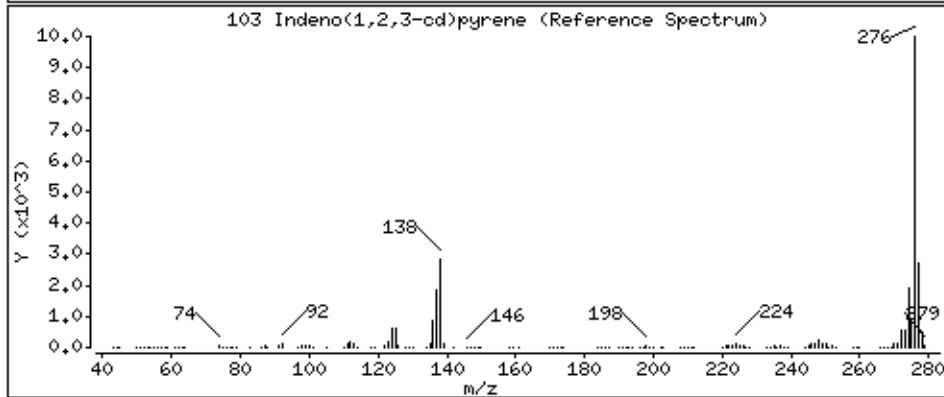
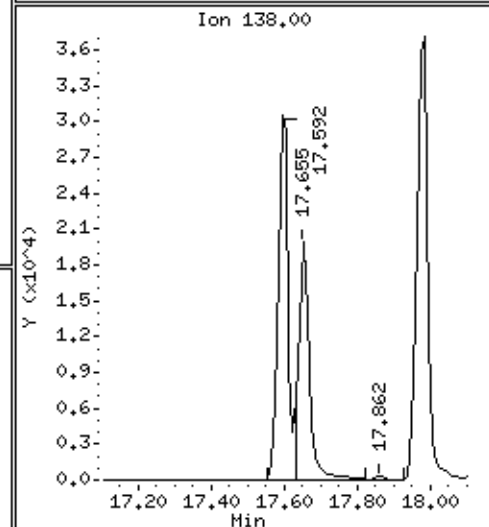
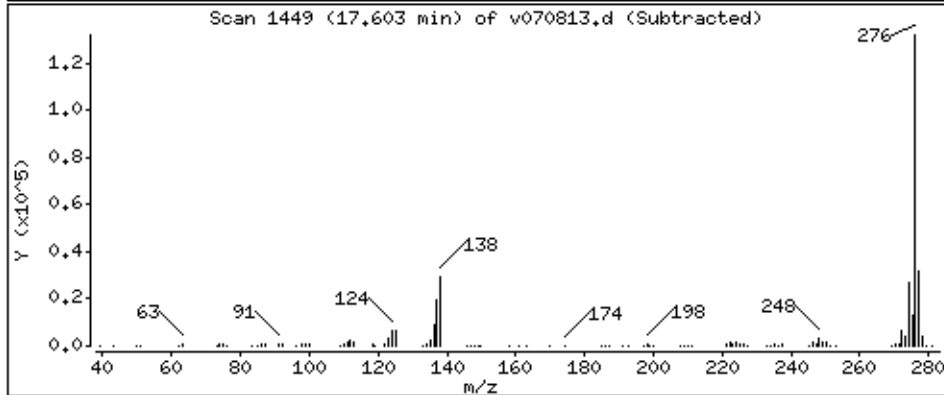
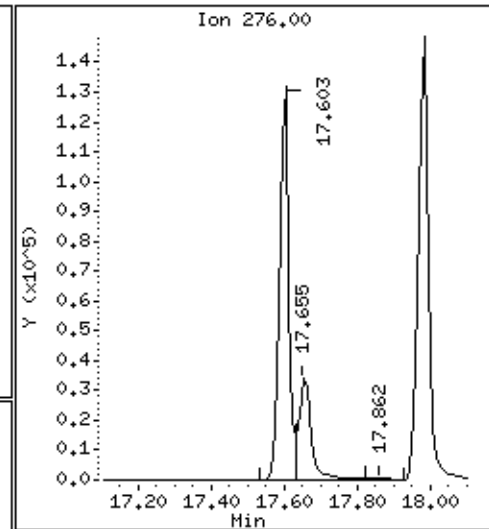
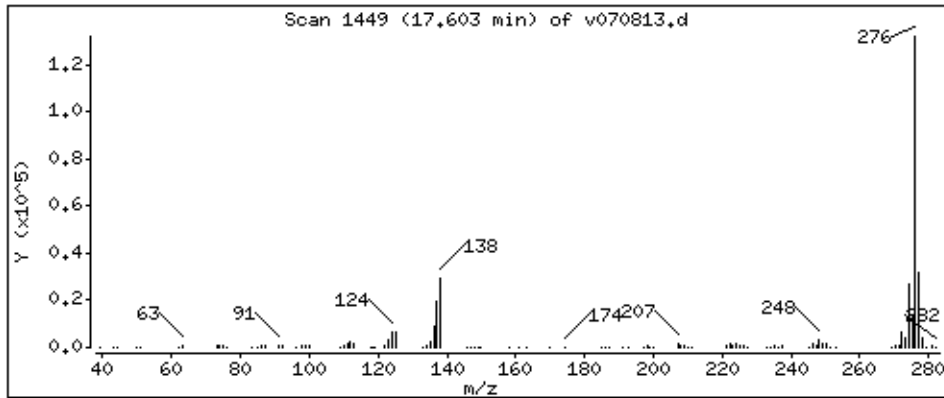
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

103 Indeno(1,2,3-cd)pyrene

Concentration: 49.22 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

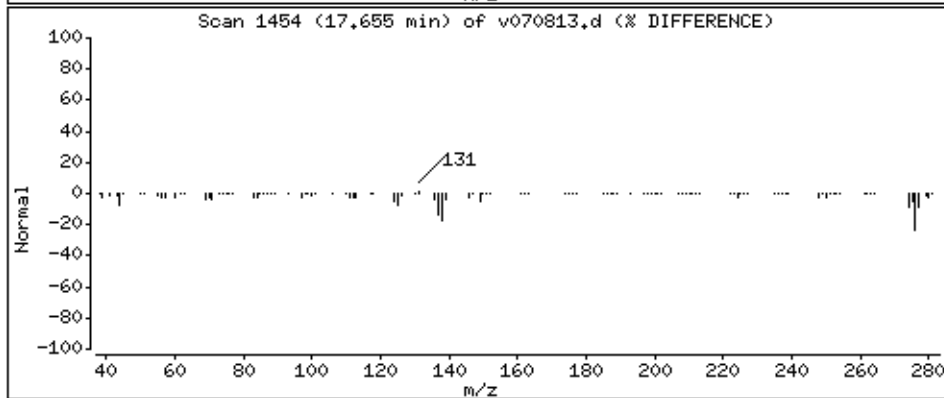
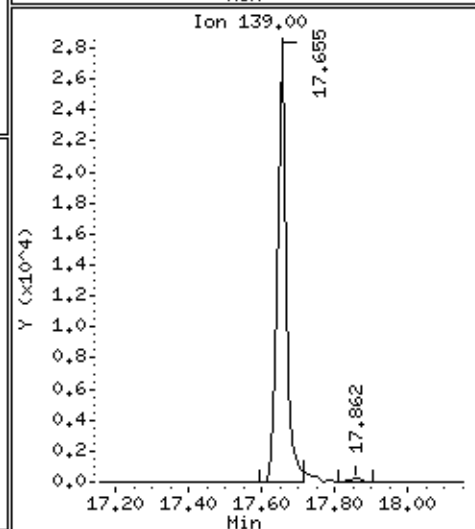
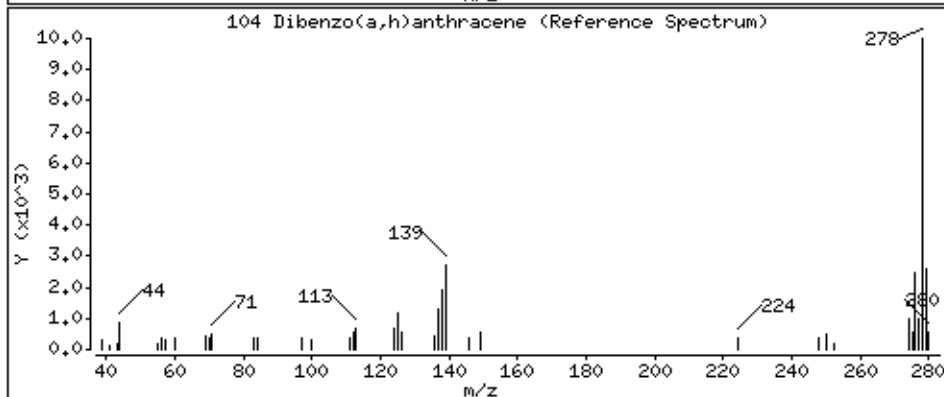
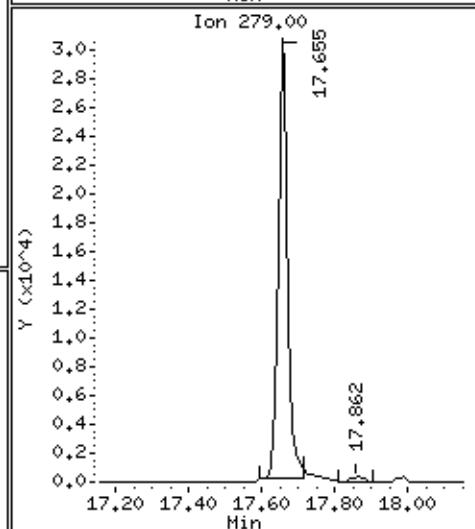
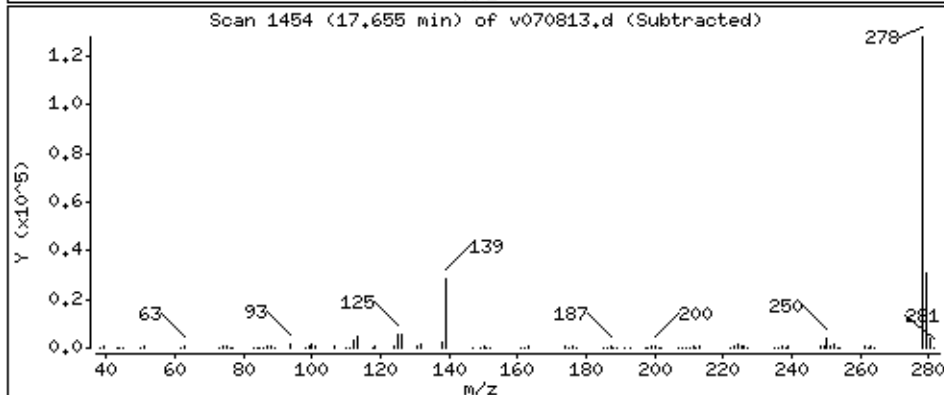
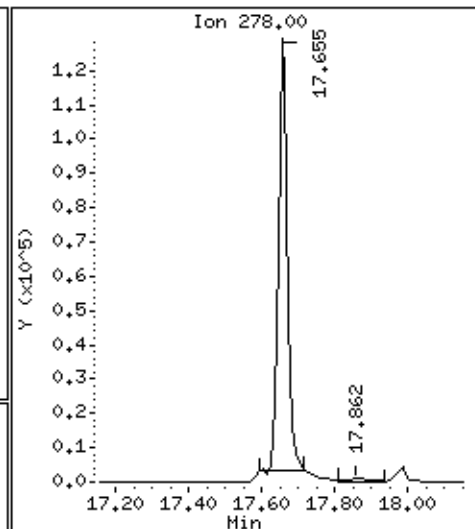
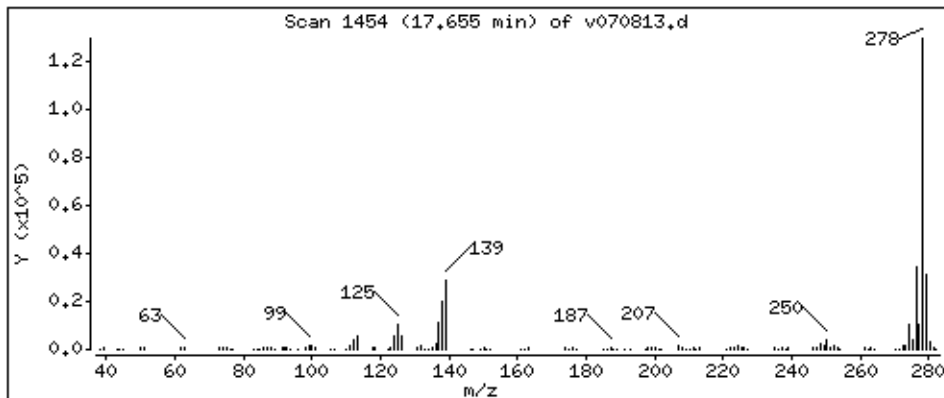
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

104 Dibenzo(a,h)anthracene

Concentration: 47.31 ug



Date : 08-JUL-2009 18:56

Client ID: LCS

Instrument: msdv.i

Sample Info: 1685-155-50;LCS

Volume Injected (uL): 1.0

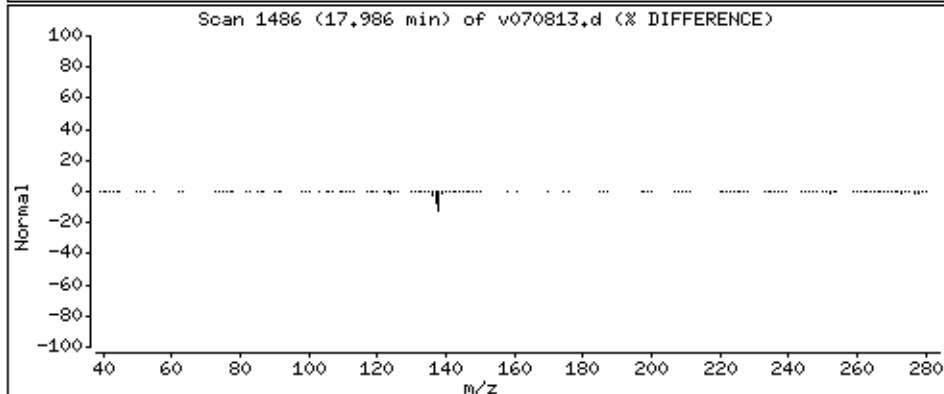
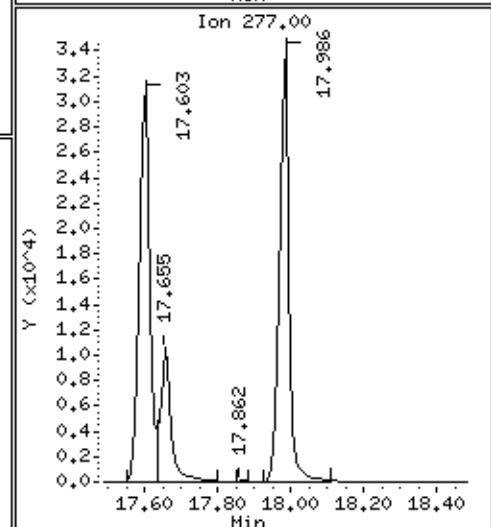
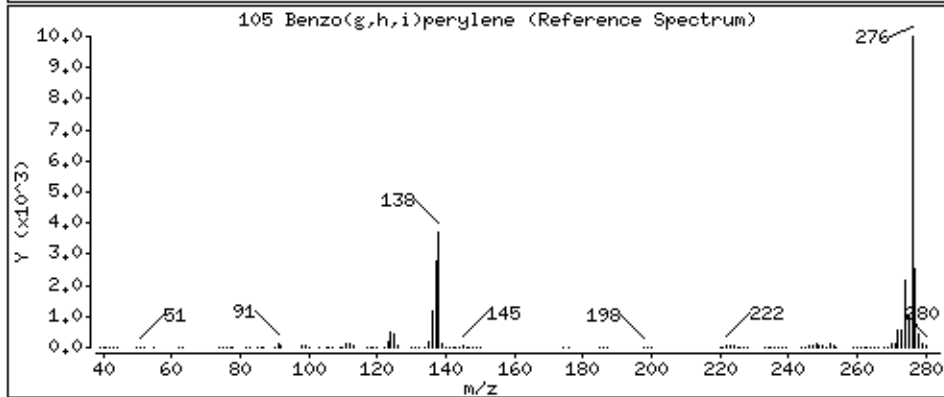
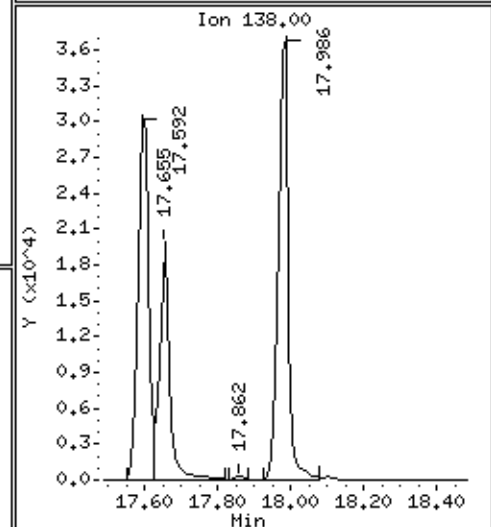
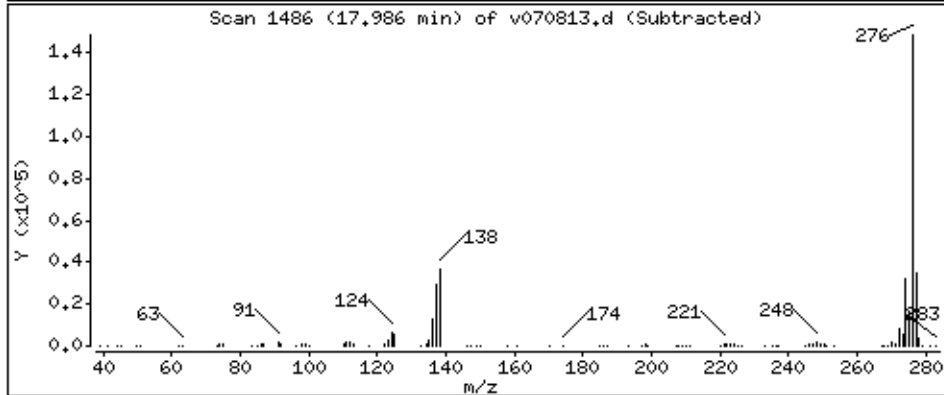
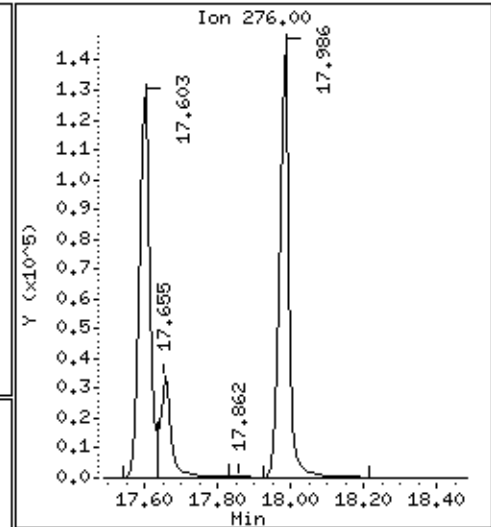
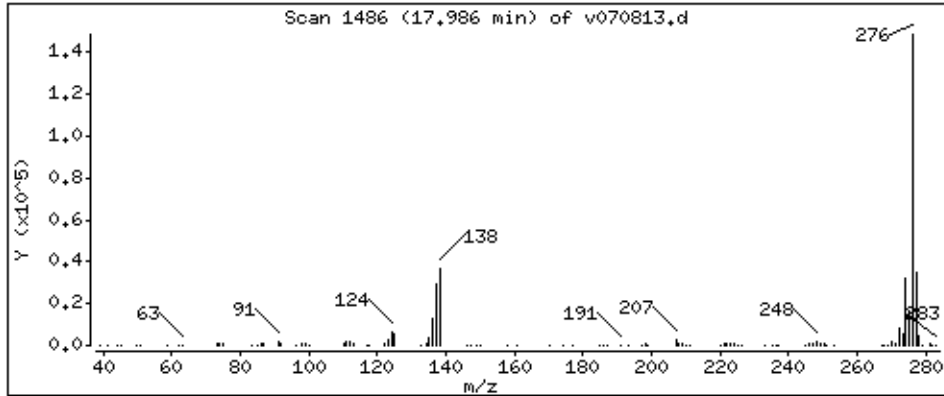
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

105 Benzo(g,h,i)perylene

Concentration: 48.77 ug



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070804.d

Lab Smp Id: 1685-169-1.0

Client Smp ID: Level 1

Inj Date : 08-JUL-2009 14:51

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-169-1.0;Level 1

Misc Info : ,NOTICS

Comment :

Method : /chem/msdv.i/08jul09.b/bnap0708.m

Meth Date : 08-Jul-2009 17:45 rnoonan

Quant Type: ISTD

Cal Date : 08-JUL-2009 14:51

Cal File: v070804.d

Als bottle: 4

Calibration Sample, Level: 1

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: lng.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
=====	=====	==	=====	=====	=====		(ng)	(ng)
\$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	3439	1.00000		1.000
\$ 83 Fluoranthene-d10	212	11.354	11.364	(1.144)	4710	1.00000		1.000
\$ 101 Benzo(a)pyrene-d12	264	15.706	15.717	(0.991)	2540	1.00000		1.000
\$ 147 Fluorene-d10	176	8.774	8.774	(1.076)	5253	1.00000		1.000
\$ 148 Pyrene-d10	212	11.623	11.624	(0.866)	6949	1.00000		1.000
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	96073	40.0000		
* 27 Naphthalene-d8	136	5.944	5.945	(1.000)	241727	40.0000		
* 47 Acenaphthene-d10	164	8.152	8.162	(1.000)	131148	40.0000		
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	248541	40.0000		
* 90 Chrysene-d12	240	13.416	13.427	(1.000)	203160	40.0000		
* 99 Perylene-d12	264	15.852	15.852	(1.000)	162044	40.0000		
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	2577	1.00000		1.000
41 Aniline	93	3.934	3.934	(0.918)	3852	1.00000		1.000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	2562	1.00000	1.000
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	2848	1.00000	1.000
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	1363	1.00000	1.000
11 1,2-Dichlorobenzene	146	4.545	4.546	(1.060)	2544	1.00000	1.000
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	4292	1.00000	1.000
15 N-Nitrosodipropylamine**	70	4.919	4.919	(1.147)	1880	1.00000	1.000
16 Hexachloroethane	117	4.939	4.939	(1.152)	1142	1.00000	1.000
18 Nitrobenzene	77	5.074	5.074	(0.854)	2897	1.00000	1.000
19 Isophorone	82	5.385	5.385	(0.906)	4822	1.00000	1.000
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	3038	1.00000	1.000(M)
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	2440	1.00000	1.000
28 Naphthalene	128	5.965	5.965	(1.003)	7085	1.00000	1.000
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	1140	1.00000	1.000
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	4541	1.00000	1.000
145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	4563	1.00000	1.000
39 2-Chloronaphthalene	162	7.447	7.447	(0.914)	4293	1.00000	1.000
45 Acenaphthylene	152	7.965	7.965	(0.977)	6430	1.00000	1.000
48 Acenaphthene*	154	8.193	8.193	(1.005)	4205	1.00000	1.000
51 Dibenzofuran	168	8.390	8.390	(1.029)	5848	1.00000	1.000
57 Fluorene	166	8.805	8.805	(1.080)	4955	1.00000	1.000
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.085)	2399	1.00000	1.000
65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	1175	1.00000	1.000
66 Hexachlorobenzene	284	9.572	9.572	(0.964)	1341	1.00000	1.000
144 Carbazole	167	10.224	10.224	(2.385)	5974	1.00000	1.000
72 Phenanthrene	178	9.945	9.955	(1.002)	7817	1.00000	1.000
73 Anthracene	178	9.996	10.007	(1.007)	6698	1.00000	1.000
80 Fluoranthene*	202	11.375	11.385	(1.146)	6630	1.00000	1.000
81 Pyrene	202	11.644	11.655	(0.868)	7475	1.00000	1.000
88 Benzo(a)Anthracene	228	13.395	13.396	(0.998)	5556	1.00000	1.000
91 Chrysene	228	13.458	13.468	(1.003)	9115	1.00000	1.000
95 Benzo(b)fluoranthene	252	15.209	15.219	(0.959)	4866	1.00000	1.000
96 Benzo(k)fluoranthene	252	15.250	15.261	(0.962)	6175	1.00000	1.000
97 Benzo(e)pyrene	252	15.665	15.675	(0.988)	4921	1.00000	1.000
98 Benzo(a)pyrene*	252	15.748	15.758	(0.993)	4833	1.00000	1.000(H)
103 Indeno(1,2,3-cd)pyrene	276	17.582	17.603	(1.109)	3766	1.00000	1.000
104 Dibenzo(a,h)anthracene	278	17.644	17.655	(1.113)	3728	1.00000	1.000(M)
105 Benzo(g,h,i)perylene	276	17.966	17.986	(1.133)	4762	1.00000	1.000

QC Flag Legend

M - Compound response manually integrated.

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i

Calibration Date: 08-JUL-2009

Lab File ID: v070804.d

Calibration Time: 14:51

Lab Smp Id: 1685-169-1.0

Client Smp ID: Level 1

Analysis Type: SV

Level: LOW

Quant Type: ISTD

Sample Type: PUF/XAD

Operator: rn

Method File: /chem/msdv.i/08jul09.b/bnap0708.m

Misc Info: ,NOTICS

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	96073	48036	192146	96073	0.00
27 Naphthalene-d8	241727	120864	483454	241727	0.00
47 Acenaphthene-d10	131148	65574	262296	131148	0.00
71 Phenanthrene-d10	248541	124270	497082	248541	0.00
90 Chrysene-d12	203160	101580	406320	203160	0.00
99 Perylene-d12	162044	81022	324088	162044	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.15	7.65	8.65	8.15	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	0.00

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

Data File: /chem/msdv,i/08jul09,b/v070804.d

Date : 08-JUL-2009 14:51

Client ID: Level 1

Sample Info: #1685-169-1.0;Level 1

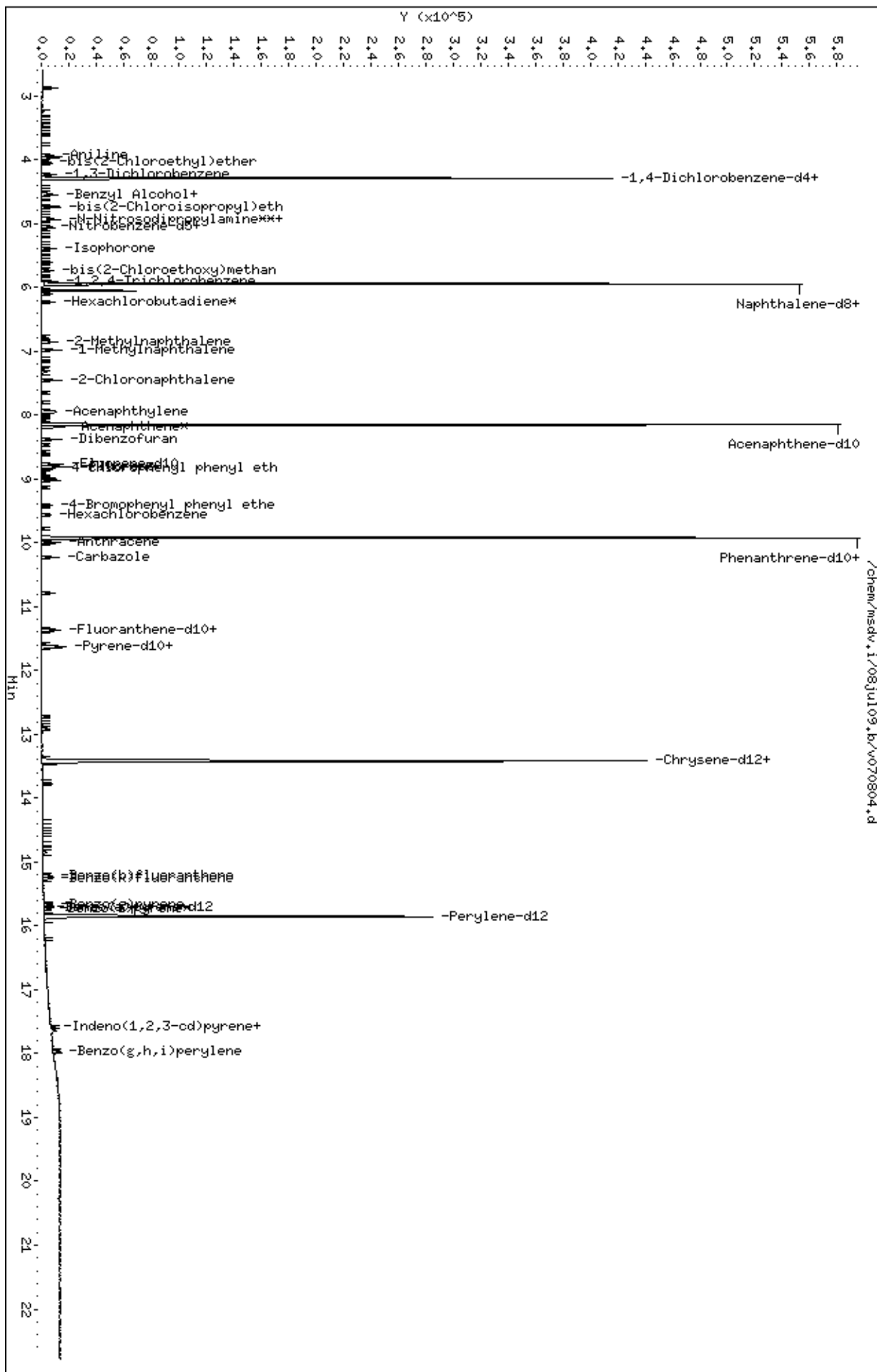
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv,i

Operator: m

Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070805.d

Lab Smp Id: 1685-169-5.0

Client Smp ID: Level 2

Inj Date : 08-JUL-2009 15:18

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-169-5.0;Level 2

Misc Info : ,NOTICS

Comment :

Method : /chem/msdv.i/08jul09.b/bnap0708.m

Meth Date : 08-Jul-2009 17:45 rnoonan

Quant Type: ISTD

Cal Date : 08-JUL-2009 15:18

Cal File: v070805.d

Als bottle: 5

Calibration Sample, Level: 2

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 5ng.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable

Local Compound Variable

						AMOUNTS	
		QUANT	SIG			CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	13614	5.00000	5.000
\$ 2 Phenol-d5	99	3.955	3.955	(0.923)	16047	5.00000	5.000
\$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	16522	5.00000	5.062
\$ 62 2,4,6-Tribromophenol	330	9.126	9.126	(1.119)	3544	5.00000	5.000
\$ 101 Benzo(a)pyrene-d12	264	15.707	15.717	(0.991)	16281	5.00000	5.708
\$ 83 Fluoranthene-d10	212	11.354	11.364	(1.144)	25702	5.00000	5.343
\$ 147 Fluorene-d10	176	8.774	8.774	(1.076)	23804	5.00000	4.870
\$ 148 Pyrene-d10	212	11.624	11.624	(0.866)	32156	5.00000	4.895
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	90666	40.0000	
* 27 Naphthalene-d8	136	5.945	5.945	(1.000)	226541	40.0000	
* 47 Acenaphthene-d10	164	8.152	8.162	(1.000)	125228	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	236386	40.0000	
* 90 Chrysene-d12	240	13.416	13.427	(1.000)	196106	40.0000	

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
* 99 Perylene-d12	264	15.852	15.852	(1.000)	156221	40.0000	
3 Phenol*	94	3.965	3.976	(0.925)	15368	5.00000	5.000
41 Aniline	93	3.934	3.934	(0.918)	18529	5.00000	5.048
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	12822	5.00000	5.132
5 2-Chlorophenol	128	4.069	4.069	(0.949)	10883	5.00000	5.000
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	12751	5.00000	5.133
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	13203	5.00000	4.956
11 1,2-Dichlorobenzene	146	4.546	4.546	(1.060)	11947	5.00000	4.988
12 2-Methylphenol	108	4.732	4.742	(1.104)	10335	5.00000	5.000
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	19945	5.00000	4.962
14 4-Methylphenol	108	4.939	4.939	(1.152)	10637	5.00000	5.000
15 N-Nitrosodipropylamine**	70	4.919	4.919	(1.147)	9706	5.00000	5.225
16 Hexachloroethane	117	4.939	4.939	(1.152)	5348	5.00000	4.981
18 Nitrobenzene	77	5.074	5.074	(0.854)	15046	5.00000	5.257
19 Isophorone	82	5.385	5.385	(0.906)	25611	5.00000	5.313
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	4743	5.00000	5.000
21 2,4-Dimethylphenol	122	5.613	5.623	(0.944)	9056	5.00000	5.000
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	15061	5.00000	5.141
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	8391	5.00000	5.000
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	10943	5.00000	4.890
28 Naphthalene	128	5.965	5.965	(1.003)	33304	5.00000	5.008
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	5492	5.00000	5.069
32 4-Chloro-3-Methylphenol*	107	6.784	6.774	(1.141)	9190	5.00000	5.000
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	22177	5.00000	5.103
145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	21491	5.00000	5.013
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.892)	5788	5.00000	5.000
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.898)	6169	5.00000	5.000
39 2-Chloronaphthalene	162	7.447	7.447	(0.914)	21164	5.00000	5.080
40 2-Nitroaniline	65	7.644	7.644	(0.938)	6723	5.00000	5.000
46 3-Nitroaniline	138	8.162	8.162	(1.001)	5384	5.00000	
42 Dimethylphthalate	163	7.945	7.945	(0.975)	23709	5.00000	5.000
44 2,6-Dinitrotoluene	165	8.007	8.007	(0.982)	5127	5.00000	5.000
45 Acenaphthylene	152	7.965	7.965	(0.977)	31961	5.00000	5.101
48 Acenaphthene*	154	8.193	8.193	(1.005)	20221	5.00000	5.018
50 4-Nitrophenol**	109	8.442	8.432	(1.036)	2237	5.00000	
52 2,4-Dinitrotoluene	165	8.473	8.473	(1.039)	6261	5.00000	5.000
51 Dibenzofuran	168	8.390	8.390	(1.029)	29244	5.00000	5.116
56 Diethylphthalate	149	8.815	8.825	(1.081)	25536	5.00000	5.000
57 Fluorene	166	8.805	8.805	(1.080)	24783	5.00000	5.116
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.085)	11101	5.00000	4.922
65 4-Bromophenyl phenyl ether	248	9.427	9.427	(0.950)	5933	5.00000	5.150
66 Hexachlorobenzene	284	9.572	9.572	(0.964)	6779	5.00000	5.153
144 Carbazole	167	10.224	10.224	(2.385)	32073	5.00000	5.322
72 Phenanthrene	178	9.945	9.955	(1.002)	36847	5.00000	4.978
73 Anthracene	178	9.996	10.007	(1.007)	34716	5.00000	5.215
78 Di-n-butylphthalate	149	10.784	10.794	(1.087)	35188	5.00000	5.000
80 Fluoranthene*	202	11.375	11.385	(1.146)	34514	5.00000	5.226

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	==	=====	=====	=====		=====	=====
81 Pyrene	202	11.644	11.655	(0.868)	38735		5.00000	5.178
85 Butyl benzyl phthalate	149	12.722	12.732	(0.948)	12908		5.00000	5.000
88 Benzo(a)Anthracene	228	13.396	13.396	(0.998)	29140		5.00000	5.208
91 Chrysene	228	13.458	13.468	(1.003)	35330		5.00000	4.454
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.026)	18653		5.00000	5.000
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	24049		5.00000	5.000
95 Benzo(b)fluoranthene	252	15.209	15.219	(0.959)	27429		5.00000	5.390
96 Benzo(k)fluoranthene	252	15.251	15.261	(0.962)	33343		5.00000	5.283
97 Benzo(e)pyrene	252	15.665	15.675	(0.988)	27554		5.00000	5.374
98 Benzo(a)pyrene*	252	15.738	15.758	(0.993)	28621		5.00000	5.513
103 Indeno(1,2,3-cd)pyrene	276	17.582	17.603	(1.109)	20082		5.00000	5.252
104 Dibenzo(a,h)anthracene	278	17.644	17.655	(1.113)	22789		5.00000	5.591
105 Benzo(g,h,i)perylene	276	17.966	17.986	(1.133)	25977		5.00000	5.309
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	6684		5.00000	5.096

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i

Calibration Date: 08-JUL-2009

Lab File ID: v070805.d

Calibration Time: 15:18

Lab Smp Id: 1685-169-5.0

Client Smp ID: Level 2

Analysis Type: SV

Level: LOW

Quant Type: ISTD

Sample Type: PUF/XAD

Operator: rn

Method File: /chem/msdv.i/08jul09.b/bnap0708.m

Misc Info: ,NOTICS

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	90666	45333	181332	90666	0.00
27 Naphthalene-d8	226541	113270	453082	226541	0.00
47 Acenaphthene-d10	125228	62614	250456	125228	0.00
71 Phenanthrene-d10	236386	118193	472772	236386	0.00
90 Chrysene-d12	196106	98053	392212	196106	0.00
99 Perylene-d12	156221	78110	312442	156221	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.15	7.65	8.65	8.15	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	0.00

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

Data File: /chem/msdv,i/08jul09,b/v070805.d

Date : 08-JUL-2009 15:18

Client ID: Level 2

Sample Info: #1685-169-5.0;Level 2

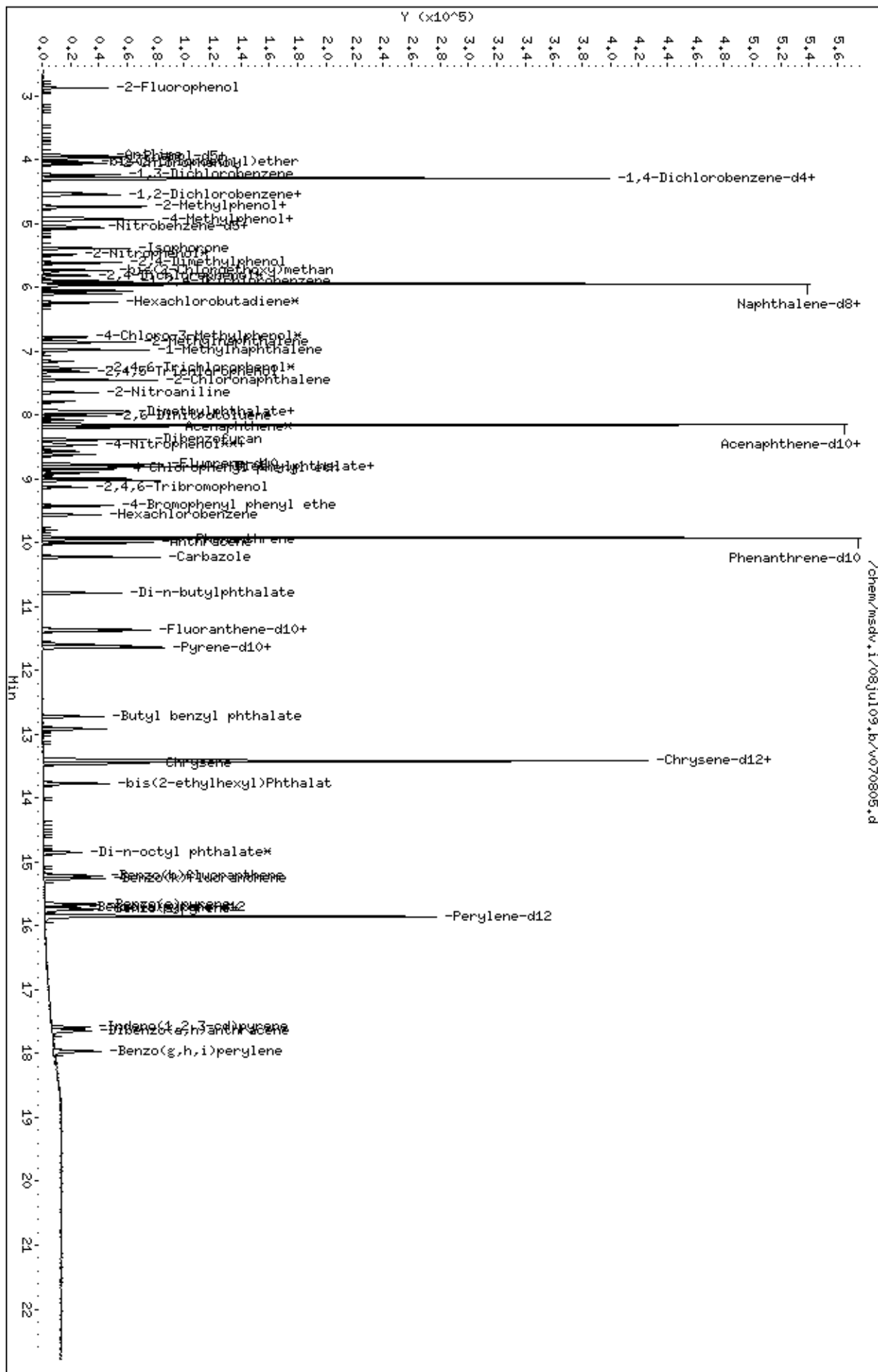
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv,i

Operator: m

Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070806.d

Lab Smp Id: 1685-169-10

Client Smp ID: Level 3

Inj Date : 08-JUL-2009 15:45

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-169-10;Level 3

Misc Info : ,NOTICS

Comment :

Method : /chem/msdv.i/08jul09.b/bnap0708.m

Meth Date : 08-Jul-2009 17:46 rnoonan

Quant Type: ISTD

Cal Date : 08-JUL-2009 15:45

Cal File: v070806.d

Als bottle: 6

Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 10ng.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable

Local Compound Variable

						AMOUNTS	
		QUANT	SIG			CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	26628	10.0000	9.620
\$ 2 Phenol-d5	99	3.955	3.955	(0.923)	31231	10.0000	9.596
\$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	33977	10.0000	9.947
\$ 62 2,4,6-Tribromophenol	330	9.126	9.126	(1.119)	7038	10.0000	9.867
\$ 101 Benzo(a)pyrene-d12	264	15.707	15.717	(0.991)	35319	10.0000	11.29
\$ 83 Fluoranthene-d10	212	11.354	11.364	(1.144)	52599	10.0000	10.54
\$ 147 Fluorene-d10	176	8.774	8.774	(1.076)	47119	10.0000	9.628
\$ 148 Pyrene-d10	212	11.623	11.624	(0.866)	63850	10.0000	9.546
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	95665	40.0000	
* 27 Naphthalene-d8	136	5.945	5.945	(1.000)	237741	40.0000	
* 47 Acenaphthene-d10	164	8.152	8.162	(1.000)	127696	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	238491	40.0000	
* 90 Chrysene-d12	240	13.416	13.427	(1.000)	204189	40.0000	

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
* 99 Perylene-d12	264	15.852	15.852	(1.000)	160353	40.0000	
3 Phenol*	94	3.965	3.976	(0.925)	32319	10.0000	9.983
41 Aniline	93	3.934	3.934	(0.918)	38166	10.0000	9.903
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	25998	10.0000	9.908
5 2-Chlorophenol	128	4.069	4.069	(0.949)	22912	10.0000	9.988
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	25670	10.0000	9.862
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	26548	10.0000	9.622
11 1,2-Dichlorobenzene	146	4.546	4.546	(1.060)	24872	10.0000	9.894
12 2-Methylphenol	108	4.732	4.742	(1.104)	21491	10.0000	9.926
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	40680	10.0000	9.724
14 4-Methylphenol	108	4.939	4.939	(1.152)	22510	10.0000	10.01
15 N-Nitrosodipropylamine**	70	4.919	4.919	(1.147)	20007	10.0000	10.14
16 Hexachloroethane	117	4.939	4.939	(1.152)	11022	10.0000	9.818
18 Nitrobenzene	77	5.074	5.074	(0.854)	32062	10.0000	10.44
19 Isophorone	82	5.385	5.385	(0.906)	52410	10.0000	10.24
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	10862	10.0000	10.44
21 2,4-Dimethylphenol	122	5.613	5.623	(0.944)	19244	10.0000	10.06
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	31135	10.0000	10.08
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	17672	10.0000	10.02
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	22224	10.0000	9.636
28 Naphthalene	128	5.965	5.965	(1.003)	67788	10.0000	9.807
29 4-Chloroaniline	127	6.100	6.100	(1.026)	28556	10.0000	10.00
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	11376	10.0000	10.00
32 4-Chloro-3-Methylphenol*	107	6.774	6.774	(1.139)	19857	10.0000	10.14
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	43921	10.0000	9.751
145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	43429	10.0000	9.766
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.892)	12456	10.0000	10.27
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.898)	12654	10.0000	10.03
39 2-Chloronaphthalene	162	7.447	7.447	(0.914)	42565	10.0000	10.01
40 2-Nitroaniline	65	7.644	7.644	(0.938)	15393	10.0000	10.58
46 3-Nitroaniline	138	8.162	8.162	(1.001)	11341	10.0000	10.00
42 Dimethylphthalate	163	7.945	7.945	(0.975)	49226	10.0000	10.09
44 2,6-Dinitrotoluene	165	8.007	8.007	(0.982)	10899	10.0000	10.21
45 Acenaphthylene	152	7.965	7.965	(0.977)	66879	10.0000	10.31
48 Acenaphthene*	154	8.193	8.193	(1.005)	41495	10.0000	10.06
52 2,4-Dinitrotoluene	165	8.473	8.473	(1.039)	14147	10.0000	10.51
51 Dibenzofuran	168	8.390	8.390	(1.029)	59922	10.0000	10.18
56 Diethylphthalate	149	8.815	8.825	(1.081)	50984	10.0000	9.894
57 Fluorene	166	8.805	8.805	(1.080)	49091	10.0000	9.959
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.085)	22662	10.0000	9.902
59 4-Nitroaniline	138	8.898	8.908	(1.092)	11889	10.0000	10.00
60 4,6-Dinitro-2-methylphenol	198	8.950	8.960	(0.902)	4492	10.0000	10.00
61 N-nitrosodiphenylamine*	169	9.002	9.002	(0.907)	41954	10.0000	10.00
65 4-Bromophenyl phenyl ether	248	9.427	9.427	(0.950)	12396	10.0000	10.43
66 Hexachlorobenzene	284	9.572	9.572	(0.964)	13788	10.0000	10.26
144 Carbazole	167	10.224	10.224	(2.385)	65791	10.0000	10.23
72 Phenanthrene	178	9.945	9.955	(1.002)	73746	10.0000	9.916

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
73 Anthracene	178	9.996	10.007	(1.007)	71388	10.0000	10.41
78 Di-n-butylphthalate	149	10.784	10.794	(1.087)	74539	10.0000	10.24
80 Fluoranthene*	202	11.375	11.385	(1.146)	70502	10.0000	10.38
81 Pyrene	202	11.644	11.655	(0.868)	76639	10.0000	9.892
85 Butyl benzyl phthalate	149	12.722	12.732	(0.948)	29770	10.0000	10.51
88 Benzo(a)Anthracene	228	13.396	13.396	(0.998)	60927	10.0000	10.30
91 Chrysene	228	13.458	13.468	(1.003)	65979	10.0000	8.563
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.026)	41663	10.0000	10.35
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	57565	10.0000	10.77
95 Benzo(b)fluoranthene	252	15.209	15.219	(0.959)	56807	10.0000	10.57
96 Benzo(k)fluoranthene	252	15.251	15.261	(0.962)	72685	10.0000	10.78
97 Benzo(e)pyrene	252	15.665	15.675	(0.988)	57259	10.0000	10.57
98 Benzo(a)pyrene*	252	15.748	15.758	(0.993)	60037	10.0000	10.81
103 Indeno(1,2,3-cd)pyrene	276	17.593	17.603	(1.110)	43774	10.0000	10.74
104 Dibenzo(a,h)anthracene	278	17.644	17.655	(1.113)	49272	10.0000	11.12
105 Benzo(g,h,i)perylene	276	17.966	17.986	(1.133)	55189	10.0000	10.64
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	15064	10.0000	10.57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i

Calibration Date: 08-JUL-2009

Lab File ID: v070806.d

Calibration Time: 15:45

Lab Smp Id: 1685-169-10

Client Smp ID: Level 3

Analysis Type: SV

Level: LOW

Quant Type: ISTD

Sample Type: PUF/XAD

Operator: rn

Method File: /chem/msdv.i/08jul09.b/bnap0708.m

Misc Info: ,NOTICS

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	95665	47832	191330	95665	0.00
27 Naphthalene-d8	237741	118870	475482	237741	0.00
47 Acenaphthene-d10	127696	63848	255392	127696	0.00
71 Phenanthrene-d10	238491	119246	476982	238491	0.00
90 Chrysene-d12	204189	102094	408378	204189	0.00
99 Perylene-d12	160353	80176	320706	160353	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.15	7.65	8.65	8.15	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	0.00

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

Data File: /chem/msdv,i/08jul09,b/v070806.d

Date : 08-JUL-2009 15:45

Client ID: Level 3

Sample Info: #1685-169-10;Level 3

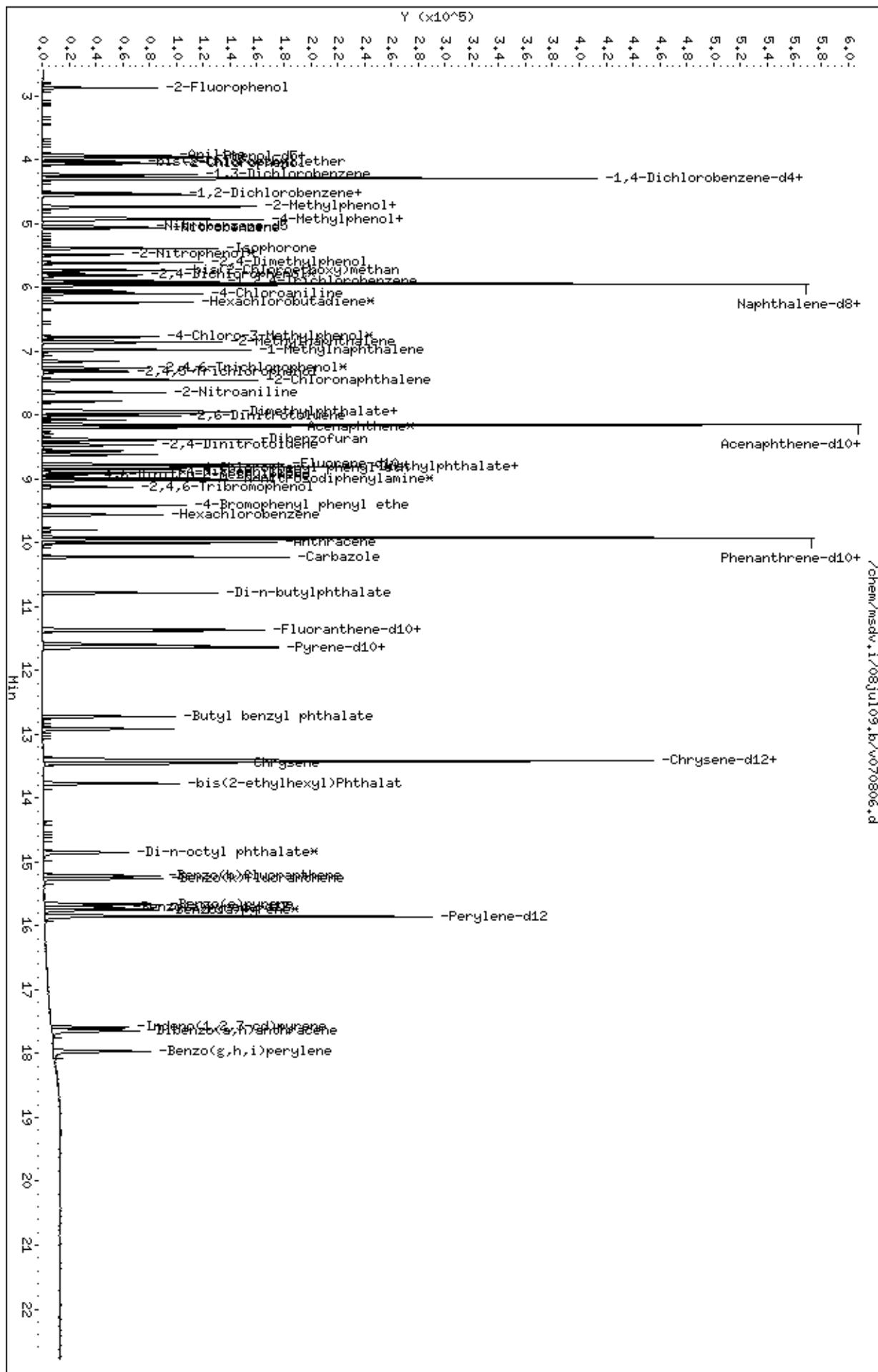
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv,i

Operator: m

Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070807.d

Lab Smp Id: 1685-169-20

Client Smp ID: Level 4

Inj Date : 08-JUL-2009 16:12

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-169-20;Level 4

Misc Info : ,NOTICS

Comment :

Method : /chem/msdv.i/08jul09.b/bnap0708.m

Meth Date : 08-Jul-2009 17:46 rnoonan

Quant Type: ISTD

Cal Date : 08-JUL-2009 16:12

Cal File: v070807.d

Als bottle: 7

Calibration Sample, Level: 4

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 20ng.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
						(ng)	(ng)	
=====	====	==	=====	=====	=====	=====	=====	
\$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	56422	20.0000	19.22	
\$ 2 Phenol-d5	99	3.955	3.955	(0.923)	65910	20.0000	19.13	
\$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	71370	20.0000	20.29	
\$ 62 2,4,6-Tribromophenol	330	9.126	9.126	(1.119)	15368	20.0000	20.01	
\$ 101 Benzo(a)pyrene-d12	264	15.707	15.717	(0.991)	78411	20.0000	22.32	
\$ 83 Fluoranthene-d10	212	11.354	11.364	(1.144)	111811	20.0000	20.47	
\$ 147 Fluorene-d10	176	8.774	8.774	(1.076)	96579	20.0000	18.72	
\$ 148 Pyrene-d10	212	11.623	11.624	(0.866)	132559	20.0000	18.69	
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	103456	40.0000		
* 27 Naphthalene-d8	136	5.945	5.945	(1.000)	243571	40.0000		
* 47 Acenaphthene-d10	164	8.152	8.162	(1.000)	137456	40.0000		
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	259080	40.0000		
* 90 Chrysene-d12	240	13.416	13.427	(1.000)	221200	40.0000		

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
* 99 Perylene-d12	264	15.852	15.852	(1.000)	173004	40.0000	
3 Phenol*	94	3.965	3.976	(0.925)	66088	20.0000	19.24
41 Aniline	93	3.934	3.934	(0.918)	80970	20.0000	19.57
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	54431	20.0000	19.38
5 2-Chlorophenol	128	4.069	4.069	(0.949)	48290	20.0000	19.64
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	53070	20.0000	19.13
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	54770	20.0000	18.74
11 1,2-Dichlorobenzene	146	4.546	4.546	(1.060)	50027	20.0000	18.78
12 2-Methylphenol	108	4.732	4.742	(1.104)	45619	20.0000	19.65
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	82819	20.0000	18.70
14 4-Methylphenol	108	4.939	4.939	(1.152)	47584	20.0000	19.71
15 N-Nitrosodipropylamine**	70	4.919	4.919	(1.147)	43001	20.0000	20.11
16 Hexachloroethane	117	4.939	4.939	(1.152)	23061	20.0000	19.24
18 Nitrobenzene	77	5.074	5.074	(0.854)	64979	20.0000	20.48
19 Isophorone	82	5.385	5.385	(0.906)	112129	20.0000	21.02
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	24691	20.0000	22.00
21 2,4-Dimethylphenol	122	5.613	5.623	(0.944)	39683	20.0000	20.17
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	65052	20.0000	20.42
24 Benzoic Acid	122	5.789	5.820	(0.974)	22319	20.0000	20.00
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	36980	20.0000	20.30
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	46513	20.0000	19.76
28 Naphthalene	128	5.965	5.965	(1.003)	137631	20.0000	19.57
29 4-Chloroaniline	127	6.100	6.100	(1.026)	59133	20.0000	20.10
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	23249	20.0000	19.97
32 4-Chloro-3-Methylphenol*	107	6.774	6.774	(1.139)	43973	20.0000	21.24
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	93006	20.0000	20.12
145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	89977	20.0000	19.81
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.878)	19930	20.0000	20.00
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.892)	26661	20.0000	20.28
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.898)	27028	20.0000	19.93
39 2-Chloronaphthalene	162	7.447	7.447	(0.914)	86349	20.0000	19.14
40 2-Nitroaniline	65	7.644	7.644	(0.938)	34814	20.0000	21.43
46 3-Nitroaniline	138	8.162	8.162	(1.001)	25715	20.0000	20.52
42 Dimethylphthalate	163	7.945	7.945	(0.975)	101431	20.0000	19.54
44 2,6-Dinitrotoluene	165	8.007	8.007	(0.982)	23687	20.0000	20.40
45 Acenaphthylene	152	7.965	7.965	(0.977)	138810	20.0000	19.90
48 Acenaphthene*	154	8.193	8.193	(1.005)	86183	20.0000	19.56
49 2,4-Dinitrophenol**	184	8.287	8.287	(1.017)	6637	20.0000	20.00
50 4-Nitrophenol**	109	8.432	8.432	(1.034)	15786	20.0000	20.00
52 2,4-Dinitrotoluene	165	8.473	8.473	(1.039)	31503	20.0000	21.13
51 Dibenzofuran	168	8.390	8.390	(1.029)	122392	20.0000	19.49
56 Diethylphthalate	149	8.815	8.825	(1.081)	104595	20.0000	19.22
57 Fluorene	166	8.805	8.805	(1.080)	100232	20.0000	19.16
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.085)	46559	20.0000	19.16
59 4-Nitroaniline	138	8.908	8.908	(1.093)	26208	20.0000	20.24
60 4,6-Dinitro-2-methylphenol	198	8.960	8.960	(0.903)	13433	20.0000	23.17
61 N-nitrosodiphenylamine*	169	9.002	9.002	(0.907)	88219	20.0000	19.67

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
65 4-Bromophenyl phenyl ether	248	9.427	9.427	(0.950)	25863	20.0000	20.03
66 Hexachlorobenzene	284	9.572	9.572	(0.964)	28569	20.0000	19.67
144 Carbazole	167	10.224	10.224	(2.385)	136062	20.0000	19.67
68 Pentachlorophenol*	266	9.800	9.800	(0.987)	13137	20.0000	20.00
72 Phenanthrene	178	9.945	9.955	(1.002)	149666	20.0000	18.87(H)
73 Anthracene	178	9.996	10.007	(1.007)	150065	20.0000	20.11
78 Di-n-butylphthalate	149	10.784	10.794	(1.087)	164164	20.0000	20.50
80 Fluoranthene*	202	11.375	11.385	(1.146)	146159	20.0000	19.86
81 Pyrene	202	11.644	11.655	(0.868)	162516	20.0000	19.52
85 Butyl benzyl phthalate	149	12.722	12.732	(0.948)	68310	20.0000	21.45
89 3 3'-Dichlorobenzidine	252	13.437	13.447	(1.002)	47505	20.0000	20.00
88 Benzo(a)Anthracene	228	13.396	13.396	(0.998)	133403	20.0000	20.61
91 Chrysene	228	13.458	13.468	(1.003)	137822	20.0000	17.26
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.026)	94586	20.0000	21.10
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	143154	20.0000	22.97
95 Benzo(b)fluoranthene	252	15.219	15.219	(0.960)	136195	20.0000	22.50
96 Benzo(k)fluoranthene	252	15.261	15.261	(0.963)	139327	20.0000	19.36
97 Benzo(e)pyrene	252	15.665	15.675	(0.988)	124750	20.0000	20.99
98 Benzo(a)pyrene*	252	15.748	15.758	(0.993)	127538	20.0000	20.95
103 Indeno(1,2,3-cd)pyrene	276	17.593	17.603	(1.110)	106914	20.0000	23.07
104 Dibenzo(a,h)anthracene	278	17.655	17.655	(1.114)	94509	20.0000	19.82
105 Benzo(g,h,i)perylene	276	17.976	17.986	(1.134)	119435	20.0000	20.99
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	31180	20.0000	20.18

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i

Calibration Date: 08-JUL-2009

Lab File ID: v070807.d

Calibration Time: 16:12

Lab Smp Id: 1685-169-20

Client Smp ID: Level 4

Analysis Type: SV

Level: LOW

Quant Type: ISTD

Sample Type: PUF/XAD

Operator: rn

Method File: /chem/msdv.i/08jul09.b/bnap0708.m

Misc Info: ,NOTICS

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	103456	51728	206912	103456	0.00
27 Naphthalene-d8	243571	121786	487142	243571	0.00
47 Acenaphthene-d10	137456	68728	274912	137456	0.00
71 Phenanthrene-d10	259080	129540	518160	259080	0.00
90 Chrysene-d12	221200	110600	442400	221200	0.00
99 Perylene-d12	173004	86502	346008	173004	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.15	7.65	8.65	8.15	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.42	12.92	13.92	13.42	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	0.00

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

Page 1

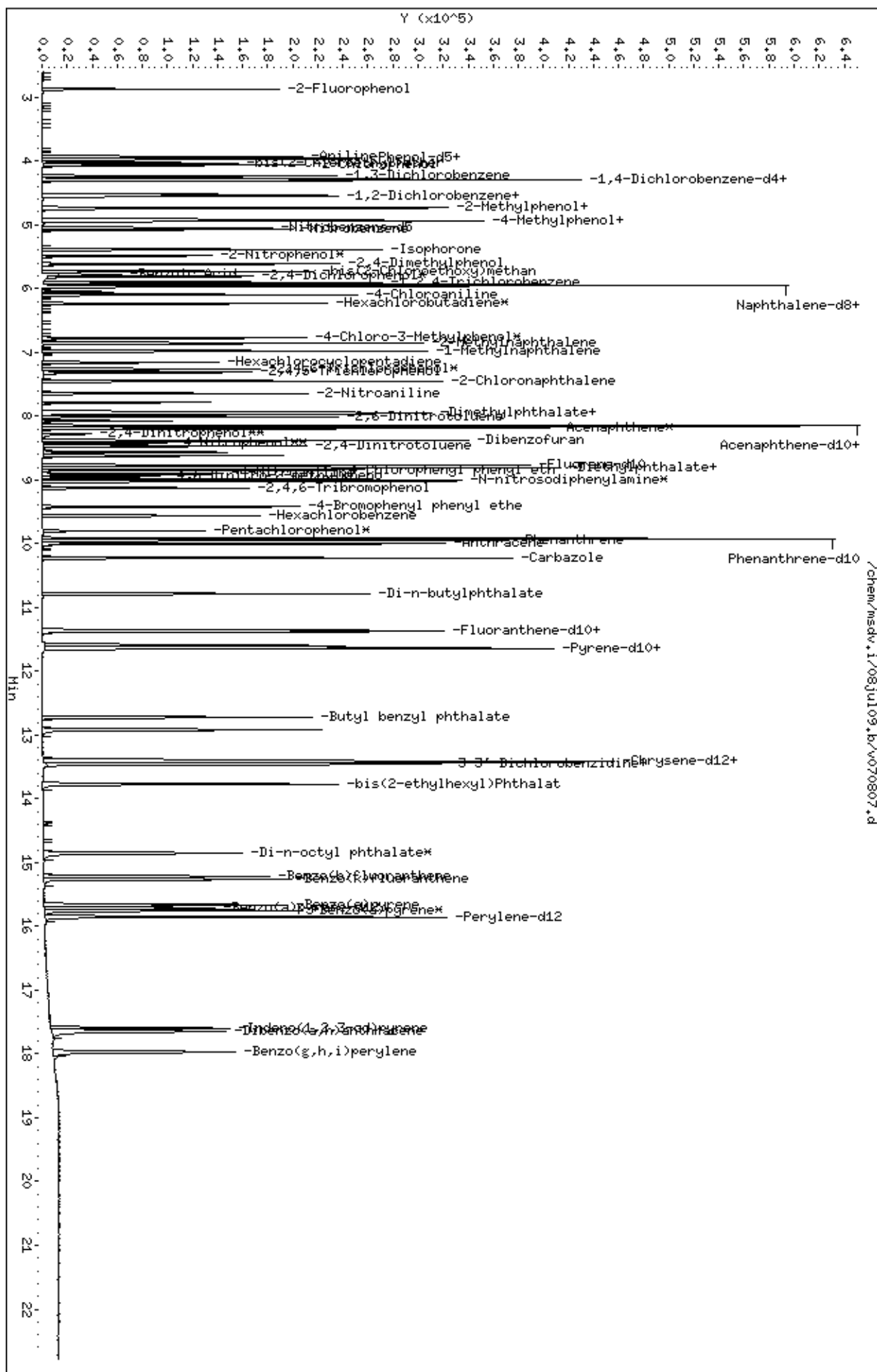
Client ID: Level 4

Instrument: msdv.i

Volume Injected (ul): 1.0

Operator: m

Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070808.d

Lab Smp Id: 1685-169-40

Client Smp ID: Level 5

Inj Date : 08-JUL-2009 16:40

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-169-40;Level 5

Misc Info : ,NOTICS

Comment :

Method : /chem/msdv.i/08jul09.b/bnap0708.m

Meth Date : 08-Jul-2009 17:46 rnoonan

Quant Type: ISTD

Cal Date : 08-JUL-2009 16:40

Cal File: v070808.d

Als bottle: 8

Calibration Sample, Level: 5

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 50ng.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
=====	=====	==	=====	=====	=====		(ng)	(ng)
\$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	101647	40.0000	36.43	
\$ 2 Phenol-d5	99	3.955	3.955	(0.923)	117804	40.0000	36.08	
\$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	131186	40.0000	39.99	
\$ 62 2,4,6-Tribromophenol	330	9.126	9.126	(1.118)	28541	40.0000	40.77	
\$ 83 Fluoranthene-d10	212	11.364	11.364	(1.145)	205140	40.0000	40.76	
\$ 101 Benzo(a)pyrene-d12	264	15.717	15.717	(0.992)	143784	40.0000	44.46	
\$ 147 Fluorene-d10	176	8.774	8.774	(1.075)	171334	40.0000	37.30	
\$ 148 Pyrene-d10	212	11.623	11.624	(0.866)	233676	40.0000	36.98	
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	101249	40.0000		
* 27 Naphthalene-d8	136	5.944	5.945	(1.000)	227222	40.0000		
* 47 Acenaphthene-d10	164	8.162	8.162	(1.000)	124494	40.0000		
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	237579	40.0000		
* 90 Chrysene-d12	240	13.427	13.427	(1.000)	200862	40.0000		

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL	
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	
=====	=====	=====	=====	=====	=====	=====	=====	
* 99 Perylene-d12	264	15.851	15.852	(1.000)	154837	40.0000		
3 Phenol*	94	3.975	3.976	(0.927)	122107	40.0000	37.17	
41 Aniline	93	3.934	3.934	(0.918)	147543	40.0000	37.09	
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	98263	40.0000	36.52	
5 2-Chlorophenol	128	4.069	4.069	(0.949)	87046	40.0000	37.06	
6 1,3-Dichlorobenzene	146	4.234	4.235	(0.988)	95534	40.0000	36.05	
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	97079	40.0000	35.00	
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	57530	40.0000	38.42	
11 1,2-Dichlorobenzene	146	4.545	4.546	(1.060)	90784	40.0000	35.74	
12 2-Methylphenol	108	4.732	4.742	(1.104)	80275	40.0000	36.40	
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	147829	40.0000	35.14	
14 4-Methylphenol	108	4.939	4.939	(1.152)	84643	40.0000	36.79	
15 N-Nitrosodipropylamine**	70	4.918	4.919	(1.147)	76311	40.0000	37.12	
16 Hexachloroethane	117	4.939	4.939	(1.152)	40911	40.0000	35.79	
18 Nitrobenzene	77	5.074	5.074	(0.854)	118910	40.0000	40.15	
19 Isophorone	82	5.385	5.385	(0.906)	205996	40.0000	41.10	
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	46179	40.0000	43.00	
21 2,4-Dimethylphenol	122	5.623	5.623	(0.946)	74668	40.0000	40.50	
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	117317	40.0000	39.58	
24 Benzoic Acid	122	5.810	5.820	(0.977)	43249	40.0000	40.76	
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	68241	40.0000	40.12	
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	80799	40.0000	37.40	
28 Naphthalene	128	5.965	5.965	(1.003)	246419	40.0000	38.03	
29 4-Chloroaniline	127	6.100	6.100	(1.026)	105986	40.0000	39.08	
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	42089	40.0000	38.99	
32 4-Chloro-3-Methylphenol*	107	6.773	6.774	(1.139)	79811	40.0000	40.99	
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	167301	40.0000	39.02	
145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	162192	40.0000	38.61	
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.877)	38838	40.0000	41.46	
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.891)	50379	40.0000	41.70	
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.897)	49431	40.0000	40.19	
39 2-Chloronaphthalene	162	7.447	7.447	(0.912)	154441	40.0000	38.22	
40 2-Nitroaniline	65	7.644	7.644	(0.937)	63685	40.0000	42.41	
46 3-Nitroaniline	138	8.162	8.162	(1.000)	47116	40.0000	40.99	
42 Dimethylphthalate	163	7.944	7.945	(0.973)	177289	40.0000	38.25	
44 2,6-Dinitrotoluene	165	8.007	8.007	(0.981)	42013	40.0000	39.96	
45 Acenaphthylene	152	7.965	7.965	(0.976)	254490	40.0000	40.23	
48 Acenaphthene*	154	8.193	8.193	(1.004)	147529	40.0000	37.54	
49 2,4-Dinitrophenol**	184	8.286	8.287	(1.015)	18202	40.0000	48.18	
50 4-Nitrophenol**	109	8.432	8.432	(1.033)	31182	40.0000	41.73	
52 2,4-Dinitrotoluene	165	8.473	8.473	(1.038)	56396	40.0000	41.31	
51 Dibenzofuran	168	8.390	8.390	(1.028)	215684	40.0000	38.32	
56 Diethylphthalate	149	8.825	8.825	(1.081)	189859	40.0000	38.88	
57 Fluorene	166	8.805	8.805	(1.079)	177763	40.0000	37.98	
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.084)	85326	40.0000	39.01	
59 4-Nitroaniline	138	8.908	8.908	(1.091)	46781	40.0000	39.92	
60 4,6-Dinitro-2-methylphenol	198	8.960	8.960	(0.903)	28998	40.0000	48.64	

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
61 N-nitrosodiphenylamine*	169	9.001	9.002	(0.907)	157276	40.0000	38.81
65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	46534	40.0000	39.44
66 Hexachlorobenzene	284	9.571	9.572	(0.964)	50895	40.0000	38.56
144 Carbazole	167	10.224	10.224	(2.385)	243110	40.0000	36.66
68 Pentachlorophenol*	266	9.799	9.800	(0.987)	26823	40.0000	42.14
72 Phenanthrene	178	9.945	9.955	(1.002)	270246	40.0000	37.70(H)
73 Anthracene	178	10.007	10.007	(1.008)	275244	40.0000	40.18
78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	307261	40.0000	41.37
80 Fluoranthene*	202	11.385	11.385	(1.147)	272165	40.0000	40.26
81 Pyrene	202	11.644	11.655	(0.867)	279906	40.0000	37.58
85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	131232	40.0000	43.91
89 3 3'-Dichlorobenzidine	252	13.447	13.447	(1.002)	88084	40.0000	40.42
88 Benzo(a)Anthracene	228	13.395	13.396	(0.998)	241499	40.0000	40.86
91 Chrysene	228	13.458	13.468	(1.002)	236238	40.0000	33.84
93 bis(2-ethylhexyl)Phthalate	149	13.768	13.769	(1.025)	178672	40.0000	42.84
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	283729	40.0000	47.64
95 Benzo(b)fluoranthene	252	15.219	15.219	(0.960)	232817	40.0000	42.35
96 Benzo(k)fluoranthene	252	15.261	15.261	(0.963)	256797	40.0000	39.90
97 Benzo(e)pyrene	252	15.675	15.675	(0.989)	220859	40.0000	41.21
98 Benzo(a)pyrene*	252	15.758	15.758	(0.994)	229653	40.0000	41.70
103 Indeno(1,2,3-cd)pyrene	276	17.592	17.603	(1.110)	194906	40.0000	45.40
104 Dibenzo(a,h)anthracene	278	17.655	17.655	(1.114)	177167	40.0000	41.21
105 Benzo(g,h,i)perylene	276	17.976	17.986	(1.134)	219829	40.0000	42.49

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 08-Jul-2009 17:46

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070808.d
Lab Smp Id: 1685-169-40
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 16:40
Client Smp ID: Level 5
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	101249	50624	202498	101249	0.00
27 Naphthalene-d8	227222	113611	454444	227222	0.00
47 Acenaphthene-d10	124494	62247	248988	124494	0.00
71 Phenanthrene-d10	237579	118790	475158	237579	0.00
90 Chrysene-d12	200862	100431	401724	200862	0.00
99 Perylene-d12	154837	77418	309674	154837	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.16	7.66	8.66	8.16	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.43	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Date : 08-JUL-2009 16:40

Client ID: Level 5

Sample Info: #1685-169-40; Level 5

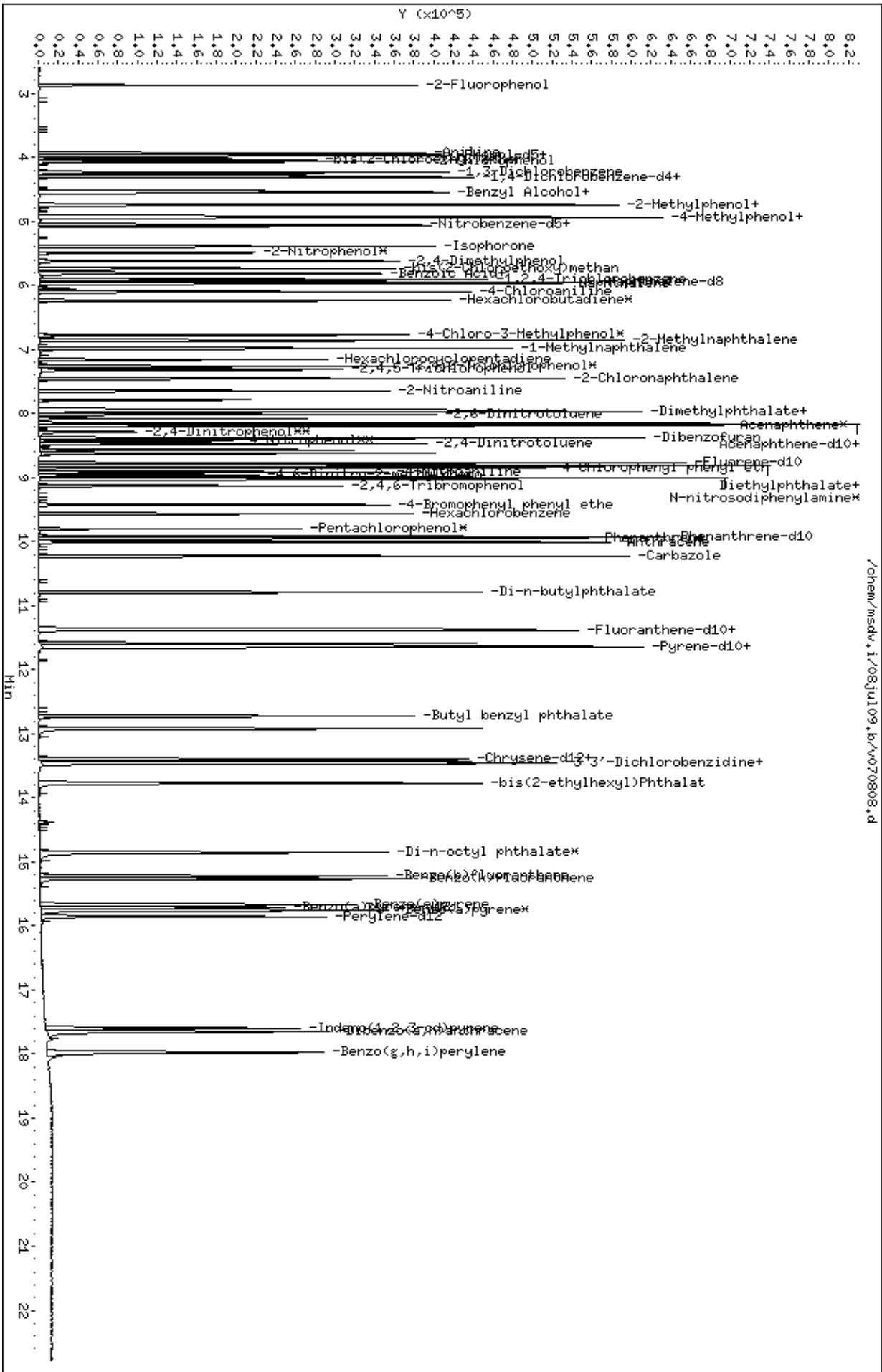
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: m

Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070809.d

Lab Smp Id: 1685-169-50

Client Smp ID: Level 6

Inj Date : 08-JUL-2009 17:07

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-169-50;Level 6

Misc Info : ,NOTICS

Comment :

Method : /chem/msdv.i/08jul09.b/bnap0708.m

Meth Date : 08-Jul-2009 17:46 rnoonan

Quant Type: ISTD

Cal Date : 08-JUL-2009 17:07

Cal File: v070809.d

Als bottle: 9

Calibration Sample, Level: 6

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 50ccv.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable

Local Compound Variable

		AMOUNTS					
		QUANT	SIG				
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	121706	50.0000	47.46
\$ 2 Phenol-d5	99	3.955	3.955	(0.923)	139168	50.0000	46.58
3 Phenol*	94	3.976	3.976	(0.927)	145226	50.0000	47.98
41 Aniline	93	3.934	3.934	(0.918)	174960	50.0000	47.70
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	115207	50.0000	46.63
5 2-Chlorophenol	128	4.069	4.069	(0.949)	101486	50.0000	47.10
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	109941	50.0000	45.40
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	94232	40.0000	
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	112633	50.0000	44.58
10 Benzyl Alcohol	108	4.525	4.525	(1.056)	67609	50.0000	48.75
11 1,2-Dichlorobenzene	146	4.546	4.546	(1.060)	103950	50.0000	44.88
12 2-Methylphenol	108	4.742	4.742	(1.106)	94867	50.0000	46.93
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	172556	50.0000	44.96

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
14 4-Methylphenol	108	4.939	4.939	(1.152)	100872	50.0000	47.66
15 N-Nitrosodipropylamine**	70	4.919	4.919	(1.147)	90789	50.0000	47.86
16 Hexachloroethane	117	4.939	4.939	(1.152)	47835	50.0000	45.73
\$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	155120	50.0000	51.03
18 Nitrobenzene	77	5.074	5.074	(0.854)	140639	50.0000	51.21
19 Isophorone	82	5.385	5.385	(0.906)	240439	50.0000	51.64
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	54904	50.0000	54.23
21 2,4-Dimethylphenol	122	5.623	5.623	(0.946)	88592	50.0000	51.65
24 Benzoic Acid	122	5.820	5.820	(0.979)	52838	50.0000	52.57
23 bis(2-Chloroethoxy)methane	93	5.727	5.727	(0.963)	135765	50.0000	49.70
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	79660	50.0000	50.60
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	94972	50.0000	48.01
* 27 Naphthalene-d8	136	5.945	5.945	(1.000)	209681	40.0000	
28 Naphthalene	128	5.965	5.965	(1.003)	287949	50.0000	48.45
29 4-Chloroaniline	127	6.100	6.100	(1.026)	125467	50.0000	50.10
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	49038	50.0000	49.36
32 4-Chloro-3-Methylphenol*	107	6.774	6.774	(1.139)	96805	50.0000	53.06
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	197805	50.0000	50.00
145 1-Methylnaphthalene	142	6.981	6.981	(1.174)	189006	50.0000	48.96
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.877)	47586	50.0000	53.44
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.891)	58685	50.0000	52.31
37 2,4,5-Trichlorophenol	196	7.312	7.312	(0.896)	58746	50.0000	51.61
39 2-Chloronaphthalene	162	7.447	7.447	(0.912)	183075	50.0000	49.46
40 2-Nitroaniline	65	7.644	7.644	(0.937)	74720	50.0000	53.31
42 Dimethylphthalate	163	7.945	7.945	(0.973)	208563	50.0000	49.21
44 2,6-Dinitrotoluene	165	8.007	8.007	(0.981)	49143	50.0000	50.74
45 Acenaphthylene	152	7.965	7.965	(0.976)	297158	50.0000	50.98
46 3-Nitroaniline	138	8.162	8.162	(1.000)	55688	50.0000	52.06
* 47 Acenaphthene-d10	164	8.162	8.162	(1.000)	114283	40.0000	
48 Acenaphthene*	154	8.193	8.193	(1.004)	177806	50.0000	49.41
49 2,4-Dinitrophenol**	184	8.287	8.287	(1.015)	22782	50.0000	59.47
50 4-Nitrophenol**	109	8.432	8.432	(1.033)	34452	50.0000	50.15
51 Dibenzofuran	168	8.390	8.390	(1.028)	252950	50.0000	49.13
52 2,4-Dinitrotoluene	165	8.473	8.473	(1.038)	67278	50.0000	52.90
56 Diethylphthalate	149	8.825	8.825	(1.081)	226506	50.0000	50.43
\$ 147 Fluorene-d10	176	8.774	8.774	(1.075)	205886	50.0000	49.01
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.084)	95347	50.0000	47.89
57 Fluorene	166	8.805	8.805	(1.079)	209134	50.0000	48.89
59 4-Nitroaniline	138	8.908	8.908	(1.091)	55448	50.0000	51.15
60 4,6-Dinitro-2-methylphenol	198	8.960	8.960	(0.903)	35207	50.0000	59.39
61 N-nitrosodiphenylamine*	169	9.002	9.002	(0.907)	183205	50.0000	48.86
\$ 62 2,4,6-Tribromophenol	330	9.126	9.126	(1.118)	33961	50.0000	52.25
65 4-Bromophenyl phenyl ether	248	9.427	9.427	(0.950)	54959	50.0000	49.97
66 Hexachlorobenzene	284	9.572	9.572	(0.964)	58627	50.0000	48.02
68 Pentachlorophenol*	266	9.800	9.800	(0.987)	32254	50.0000	52.82
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	221485	40.0000	
72 Phenanthrene	178	9.955	9.955	(1.003)	318788	50.0000	48.07(H)

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====
73 Anthracene	178	10.007	10.007	(1.008)	318146	50.0000	49.84
144 Carbazole	167	10.224	10.224	(2.385)	285468	50.0000	46.84
78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	365569	50.0000	52.22
\$ 83 Fluoranthene-d10	212	11.364	11.364	(1.145)	243049	50.0000	51.49
80 Fluoranthene*	202	11.385	11.385	(1.147)	314418	50.0000	49.90
\$ 148 Pyrene-d10	212	11.624	11.624	(0.866)	276955	50.0000	47.55
81 Pyrene	202	11.655	11.655	(0.868)	334884	50.0000	48.58
85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	156665	50.0000	54.93
89 3 3'-Dichlorobenzidine	252	13.447	13.447	(1.002)	106451	50.0000	51.63
88 Benzo(a)Anthracene	228	13.396	13.396	(0.998)	285021	50.0000	51.51
* 90 Chrysene-d12	240	13.427	13.427	(1.000)	186936	40.0000	
91 Chrysene	228	13.468	13.468	(1.003)	280411	50.0000	44.17
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.025)	215079	50.0000	54.24
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.945)	340599	50.0000	57.26
95 Benzo(b)fluoranthene	252	15.219	15.219	(0.968)	275796	50.0000	51.76
96 Benzo(k)fluoranthene	252	15.261	15.261	(0.971)	312554	50.0000	50.38(H)
97 Benzo(e)pyrene	252	15.675	15.675	(0.997)	265496	50.0000	51.22(H)
\$ 101 Benzo(a)pyrene-d12	264	15.717	15.717	(1.000)	170939	50.0000	54.04
98 Benzo(a)pyrene*	252	15.758	15.758	(1.003)	274843	50.0000	51.53(H)
* 99 Perylene-d12	264	15.852	15.852	(1.000)	149026	40.0000	(H)
103 Indeno(1,2,3-cd)pyrene	276	17.603	17.603	(1.120)	229512	50.0000	54.54
104 Dibenzo(a,h)anthracene	278	17.655	17.655	(1.123)	215538	50.0000	51.73
105 Benzo(g,h,i)perylene	276	17.986	17.986	(1.144)	260011	50.0000	51.83

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 08-Jul-2009 17:46

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
 Lab File ID: v070809.d
 Lab Smp Id: 1685-169-50
 Analysis Type: SV
 Quant Type: ISTD
 Operator: rn
 Method File: /chem/msdv.i/08jul09.b/bnap0708.m
 Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
 Calibration Time: 17:07
 Client Smp ID: Level 6
 Level: LOW
 Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	94232	47116	188464	94232	0.00
27 Naphthalene-d8	209681	104840	419362	209681	0.00
47 Acenaphthene-d10	114283	57142	228566	114283	0.00
71 Phenanthrene-d10	221485	110742	442970	221485	0.00
90 Chrysene-d12	186936	93468	373872	186936	0.00
99 Perylene-d12	149026	74513	298052	149026	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.16	7.66	8.66	8.16	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.43	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	0.00

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Date : 08-JUL-2009 17:07

Client ID: Level 6

Sample Info: #1685-169-50; Level 6

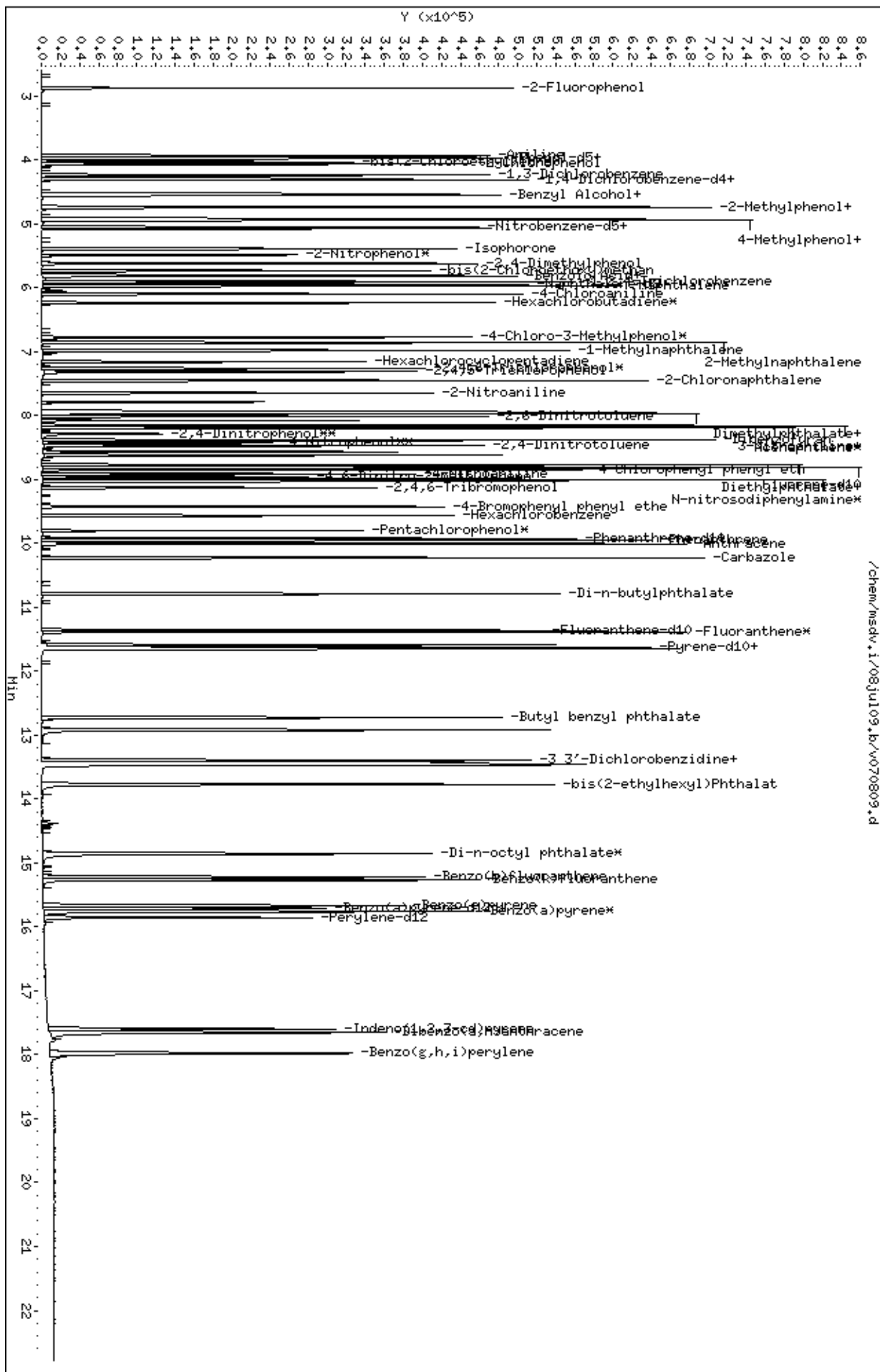
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: m

Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070810.d

Lab Smp Id: 1685-168A-80

Client Smp ID: Level 7

Inj Date : 08-JUL-2009 17:34

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-168A-80;Level 7

Misc Info : ,NOTICS

Comment :

Method : /chem/msdv.i/08jul09.b/bnap0708.m

Meth Date : 09-Jul-2009 09:19 rnoonan

Quant Type: ISTD

Cal Date : 08-JUL-2009 17:34

Cal File: v070810.d

Als bottle: 10

Calibration Sample, Level: 7

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 160ng.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
								(ng)	(ng)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112		2.877	2.877	(0.671)		214140	80.0000	71.26
\$ 2 Phenol-d5	99		3.965	3.955	(0.925)		245035	80.0000	70.18
\$ 17 Nitrobenzene-d5	82		5.053	5.053	(0.850)		271449	80.0000	80.48
\$ 62 2,4,6-Tribromophenol	330		9.136	9.126	(1.119)		60626	80.0000	82.87
\$ 147 Fluorene-d10	176		8.784	8.774	(1.076)		359878	80.0000	77.12
\$ 148 Pyrene-d10	212		11.634	11.624	(0.866)		478804	80.0000	75.65
* 7 1,4-Dichlorobenzene-d4	150		4.286	4.286	(1.000)		112836	40.0000	
* 27 Naphthalene-d8	136		5.944	5.945	(1.000)		232426	40.0000	
* 47 Acenaphthene-d10	164		8.162	8.162	(1.000)		127713	40.0000	
* 71 Phenanthrene-d10	188		9.924	9.924	(1.000)		241911	40.0000	
* 90 Chrysene-d12	240		13.427	13.427	(1.000)		204969	40.0000	
* 99 Perylene-d12	264		15.852	15.852	(1.000)		162719	40.0000	
3 Phenol*	94		3.976	3.976	(0.927)		250502	80.0000	70.72

Report Date: 09-Jul-2009 09:19

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
41 Aniline	93	3.934	3.934	(0.918)	306070	80.0000	70.99
4 bis(2-Chloroethyl)ether	93	4.027	4.027	(0.940)	200146	80.0000	69.18
5 2-Chlorophenol	128	4.069	4.069	(0.949)	178351	80.0000	70.73
6 1,3-Dichlorobenzene	146	4.235	4.235	(0.988)	193177	80.0000	68.25
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	198759	80.0000	67.42
10 Benzyl Alcohol	108	4.535	4.525	(1.058)	125210	80.0000	76.02
11 1,2-Dichlorobenzene	146	4.545	4.546	(1.060)	181869	80.0000	67.30
12 2-Methylphenol	108	4.742	4.742	(1.106)	169239	80.0000	71.41
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	297271	80.0000	66.51
14 4-Methylphenol	108	4.939	4.939	(1.152)	178652	80.0000	71.92
15 N-Nitrosodipropylamine**	70	4.929	4.919	(1.150)	159043	80.0000	71.29
16 Hexachloroethane	117	4.939	4.939	(1.152)	82902	80.0000	67.86
18 Nitrobenzene	77	5.074	5.074	(0.854)	245032	80.0000	80.42
19 Isophorone	82	5.395	5.385	(0.908)	425651	80.0000	82.12
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	99387	80.0000	87.01
21 2,4-Dimethylphenol	122	5.623	5.623	(0.946)	155604	80.0000	81.53
23 bis(2-Chloroethoxy)methane	93	5.737	5.727	(0.965)	241051	80.0000	79.66
24 Benzoic Acid	122	5.851	5.820	(0.984)	99077	80.0000	86.52
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	140419	80.0000	80.39
26 1,2,4-Trichlorobenzene	180	5.903	5.903	(0.993)	165404	80.0000	76.06
28 Naphthalene	128	5.976	5.965	(1.005)	513820	80.0000	78.28
29 4-Chloroaniline	127	6.110	6.100	(1.028)	220083	80.0000	79.42
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	85717	80.0000	78.13
32 4-Chloro-3-Methylphenol*	107	6.774	6.774	(1.139)	165359	80.0000	81.46
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	338381	80.0000	77.56
145 1-Methylnaphthalene	142	6.991	6.981	(1.176)	330619	80.0000	77.64
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.877)	86593	80.0000	85.15
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.891)	105261	80.0000	83.27
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.897)	105171	80.0000	82.22
39 2-Chloronaphthalene	162	7.457	7.447	(0.914)	317772	80.0000	77.26
40 2-Nitroaniline	65	7.654	7.644	(0.938)	139651	80.0000	87.49
46 3-Nitroaniline	138	8.173	8.162	(1.001)	102424	80.0000	84.48
42 Dimethylphthalate	163	7.955	7.945	(0.975)	364270	80.0000	77.41
44 2,6-Dinitrotoluene	165	8.017	8.007	(0.982)	91273	80.0000	83.57
45 Acenaphthylene	152	7.965	7.965	(0.976)	504454	80.0000	77.79
48 Acenaphthene*	154	8.204	8.193	(1.005)	307737	80.0000	77.00
49 2,4-Dinitrophenol**	184	8.287	8.287	(1.015)	50813	80.0000	105.9
50 4-Nitrophenol**	109	8.442	8.432	(1.034)	68046	80.0000	86.31
52 2,4-Dinitrotoluene	165	8.483	8.473	(1.039)	123777	80.0000	85.83
51 Dibenzofuran	168	8.390	8.390	(1.028)	439288	80.0000	76.85
56 Diethylphthalate	149	8.825	8.825	(1.081)	387865	80.0000	77.71
57 Fluorene	166	8.815	8.805	(1.080)	369484	80.0000	77.67
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.084)	167026	80.0000	75.74
59 4-Nitroaniline	138	8.919	8.908	(1.093)	98311	80.0000	80.92
60 4,6-Dinitro-2-methylphenol	198	8.971	8.960	(0.904)	68927	80.0000	99.85
61 N-nitrosodiphenylamine*	169	9.012	9.002	(0.908)	315773	80.0000	77.67
65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	94963	80.0000	79.18

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
66 Hexachlorobenzene	284	9.572	9.572	(0.964)	100809	80.0000	76.19
144 Carbazole	167	10.235	10.224	(2.388)	522857	80.0000	72.73
68 Pentachlorophenol*	266	9.810	9.800	(0.988)	60330	80.0000	87.60
72 Phenanthrene	178	9.955	9.955	(1.003)	549695	80.0000	76.45(H)
73 Anthracene	178	10.007	10.007	(1.008)	549741	80.0000	79.02
78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	647201	80.0000	83.83
80 Fluoranthene*	202	11.385	11.385	(1.147)	542003	80.0000	78.94
81 Pyrene	202	11.655	11.655	(0.868)	568996	80.0000	75.93
85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	285931	80.0000	89.31
89 3 3'-Dichlorobenzidine	252	13.447	13.447	(1.002)	182907	80.0000	80.68
88 Benzo(a)Anthracene	228	13.406	13.396	(0.998)	501810	80.0000	82.31
91 Chrysene	228	13.468	13.468	(1.003)	481388	80.0000	70.52
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.025)	389709	80.0000	87.87
94 Di-n-octyl phthalate*	149	14.857	14.857	(0.937)	639678	80.0000	94.83
95 Benzo(b)fluoranthene	252	15.230	15.219	(0.961)	506039	80.0000	85.90
96 Benzo(k)fluoranthene	252	15.271	15.261	(0.963)	515258	80.0000	76.60
97 Benzo(e)pyrene	252	15.686	15.675	(0.990)	454492	80.0000	80.26
98 Benzo(a)pyrene*	252	15.769	15.758	(0.995)	480909	80.0000	82.20
103 Indeno(1,2,3-cd)pyrene	276	17.613	17.603	(1.111)	411346	80.0000	88.03
104 Dibenzo(a,h)anthracene	278	17.665	17.655	(1.114)	401518	80.0000	86.97
105 Benzo(g,h,i)perylene	276	17.997	17.986	(1.135)	454678	80.0000	82.57

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i

Calibration Date: 08-JUL-2009

Lab File ID: v070810.d

Calibration Time: 17:07

Lab Smp Id: 1685-168A-80

Client Smp ID: Level 7

Analysis Type: SV

Level: LOW

Quant Type: ISTD

Sample Type: PUF/XAD

Operator: rn

Method File: /chem/msdv.i/08jul09.b/bnap0708.m

Misc Info: ,NOTICS

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	94232	47116	188464	112836	19.74
27 Naphthalene-d8	209681	104840	419362	232426	10.85
47 Acenaphthene-d10	114283	57142	228566	127713	11.75
71 Phenanthrene-d10	221485	110742	442970	241911	9.22
90 Chrysene-d12	186936	93468	373872	204969	9.65
99 Perylene-d12	149026	74513	298052	162719	9.19

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.16	7.66	8.66	8.16	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.43	0.00
99 Perylene-d12	15.85	15.35	16.35	15.85	0.00

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

Date : 08-JUL-2009 17:34

Client ID: Level 7

Sample Info: J1685-1684-80;Level 7

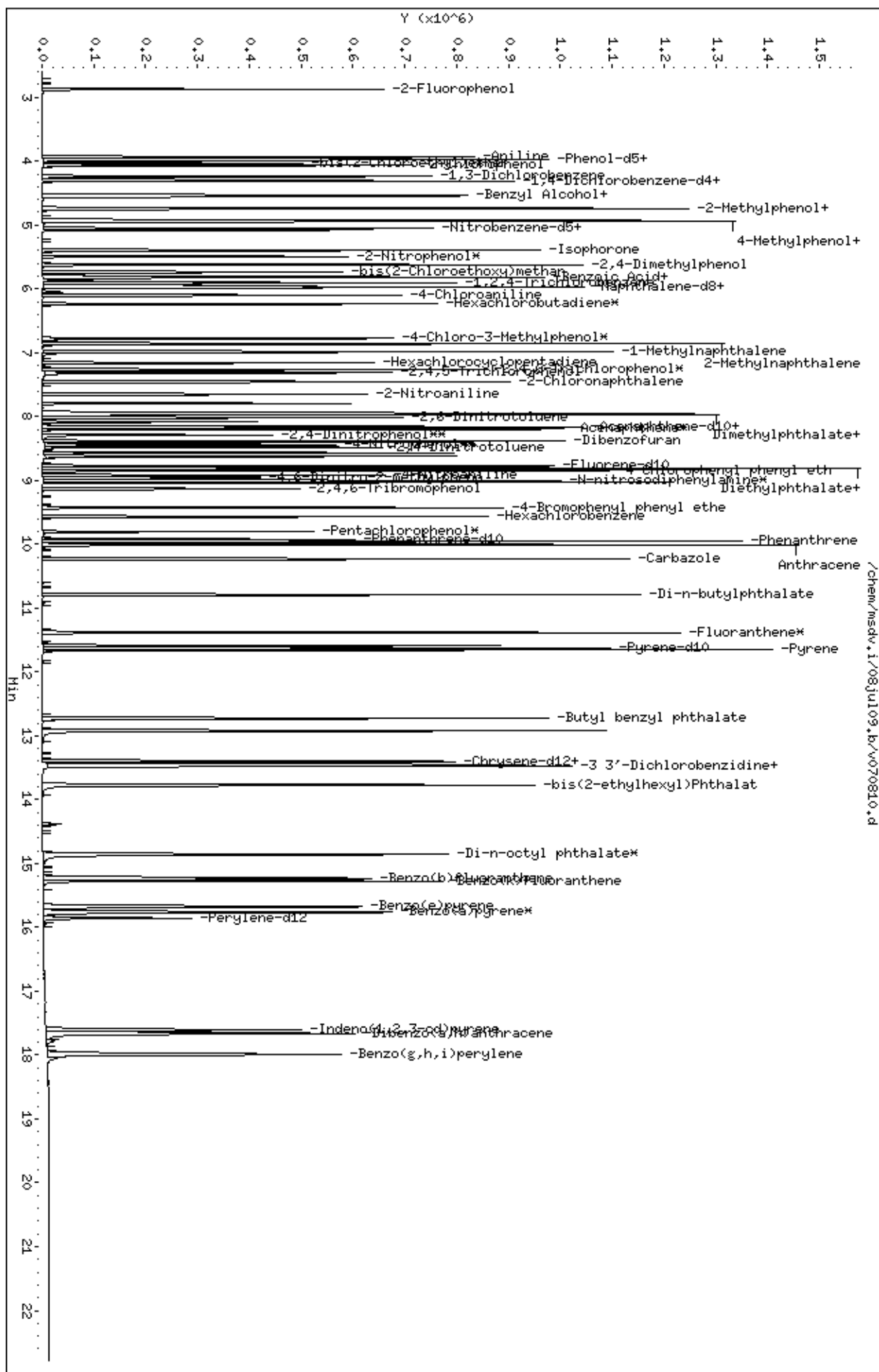
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: m

Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070811.d

Lab Smp Id: 1685-168A-100

Client Smp ID: Level 8

Inj Date : 08-JUL-2009 18:02

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-168A-100;Level 8

Misc Info : ,NOTICS

Comment :

Method : /chem/msdv.i/08jul09.b/bnap0708.m

Meth Date : 09-Jul-2009 09:19 rnoonan

Quant Type: ISTD

Cal Date : 08-JUL-2009 18:02

Cal File: v070811.d

Als bottle: 11

Calibration Sample, Level: 8

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 160ng.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable

Local Compound Variable

						AMOUNTS	
		QUANT	SIG			CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	298925	100.000	91.52
\$ 2 Phenol-d5	99	3.965	3.955	(0.925)	343097	100.000	90.54
\$ 17 Nitrobenzene-d5	82	5.053	5.053	(0.850)	388968	100.000	108.3
\$ 62 2,4,6-Tribromophenol	330	9.136	9.126	(1.119)	81999	100.000	103.7
\$ 147 Fluorene-d10	176	8.784	8.774	(1.076)	487700	100.000	97.65
\$ 148 Pyrene-d10	212	11.634	11.624	(0.866)	640428	100.000	96.86
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	124384	40.0000	
* 27 Naphthalene-d8	136	5.944	5.945	(1.000)	244660	40.0000	
* 47 Acenaphthene-d10	164	8.162	8.162	(1.000)	137154	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	255333	40.0000	
* 90 Chrysene-d12	240	13.427	13.427	(1.000)	215074	40.0000	
* 99 Perylene-d12	264	15.862	15.852	(1.000)	171075	40.0000	
3 Phenol*	94	3.975	3.976	(0.927)	344233	100.000	89.68

Report Date: 09-Jul-2009 09:19

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng)	ON-COL (ng)
=====	=====	==	=====	=====	=====	=====	=====
41 Aniline	93	3.934	3.934	(0.918)	420749	100.000	89.82
4 bis(2-Chloroethyl)ether	93	4.038	4.027	(0.942)	280918	100.000	89.42
5 2-Chlorophenol	128	4.079	4.069	(0.952)	247995	100.000	90.61
6 1,3-Dichlorobenzene	146	4.245	4.235	(0.990)	258983	100.000	84.80
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	271305	100.000	85.24
10 Benzyl Alcohol	108	4.535	4.525	(1.058)	167872	100.000	93.34
11 1,2-Dichlorobenzene	146	4.556	4.546	(1.063)	250060	100.000	85.67
12 2-Methylphenol	108	4.742	4.742	(1.106)	238107	100.000	92.31
13 bis(2-Chloroisopropyl)ether	45	4.742	4.742	(1.106)	411403	100.000	85.26
14 4-Methylphenol	108	4.950	4.939	(1.155)	241255	100.000	89.62
15 N-Nitrosodipropylamine**	70	4.929	4.919	(1.150)	218978	100.000	90.28
16 Hexachloroethane	117	4.939	4.939	(1.152)	112053	100.000	84.99
18 Nitrobenzene	77	5.084	5.074	(0.855)	354793	100.000	109.2
19 Isophorone	82	5.395	5.385	(0.908)	588098	100.000	106.7
20 2-Nitrophenol*	139	5.499	5.499	(0.925)	137295	100.000	111.9
21 2,4-Dimethylphenol	122	5.623	5.623	(0.946)	205466	100.000	101.9
23 bis(2-Chloroethoxy)methane	93	5.737	5.727	(0.965)	338667	100.000	105.5
24 Benzoic Acid	122	5.872	5.820	(0.988)	142698	100.000	114.2
25 2,4-Dichlorophenol*	162	5.820	5.820	(0.979)	191914	100.000	103.7
26 1,2,4-Trichlorobenzene	180	5.913	5.903	(0.995)	229963	100.000	100.4
28 Naphthalene	128	5.976	5.965	(1.005)	699418	100.000	101.1
29 4-Chloroaniline	127	6.110	6.100	(1.028)	322984	100.000	108.8
30 Hexachlorobutadiene*	225	6.235	6.235	(1.049)	115633	100.000	100.1
32 4-Chloro-3-Methylphenol*	107	6.784	6.774	(1.141)	242882	100.000	111.5
33 2-Methylnaphthalene	142	6.856	6.856	(1.153)	460603	100.000	100.2
145 1-Methylnaphthalene	142	6.991	6.981	(1.176)	457748	100.000	101.8
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.877)	124861	100.000	111.1
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.891)	142849	100.000	104.4
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.897)	145945	100.000	105.3
39 2-Chloronaphthalene	162	7.457	7.447	(0.914)	452939	100.000	102.2
40 2-Nitroaniline	65	7.654	7.644	(0.938)	195424	100.000	111.8
46 3-Nitroaniline	138	8.172	8.162	(1.001)	131576	100.000	100.9
42 Dimethylphthalate	163	7.955	7.945	(0.975)	491985	100.000	97.73
44 2,6-Dinitrotoluene	165	8.017	8.007	(0.982)	119893	100.000	101.9
45 Acenaphthylene	152	7.965	7.965	(0.976)	684834	100.000	98.54
48 Acenaphthene*	154	8.204	8.193	(1.005)	434186	100.000	101.0
49 2,4-Dinitrophenol**	184	8.297	8.287	(1.016)	77960	100.000	137.2
50 4-Nitrophenol**	109	8.442	8.432	(1.034)	89451	100.000	104.5
52 2,4-Dinitrotoluene	165	8.483	8.473	(1.039)	168159	100.000	107.3
51 Dibenzofuran	168	8.400	8.390	(1.029)	614125	100.000	100.0
56 Diethylphthalate	149	8.825	8.825	(1.081)	527716	100.000	98.67
57 Fluorene	166	8.815	8.805	(1.080)	488024	100.000	96.07
58 4-Chlorophenyl phenyl ether	204	8.846	8.846	(1.084)	223443	100.000	95.02
59 4-Nitroaniline	138	8.929	8.908	(1.094)	138523	100.000	105.1
60 4,6-Dinitro-2-methylphenol	198	8.970	8.960	(0.904)	98291	100.000	127.5
61 N-nitrosodiphenylamine*	169	9.012	9.002	(0.908)	430983	100.000	100.4
65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	127506	100.000	100.6

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ng)	(ng)
=====	=====	==	=====	=====	=====		=====	=====
66 Hexachlorobenzene	284	9.571	9.572	(0.964)	137890		100.000	98.90
144 Carbazole	167	10.235	10.224	(2.388)	687232		100.000	88.18
68 Pentachlorophenol*	266	9.810	9.800	(0.988)	88820		100.000	117.0
72 Phenanthrene	178	9.955	9.955	(1.003)	725964		100.000	96.18(H)
73 Anthracene	178	10.007	10.007	(1.008)	749694		100.000	101.8
78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	880140		100.000	106.8
80 Fluoranthene*	202	11.385	11.385	(1.147)	713500		100.000	98.64
81 Pyrene	202	11.654	11.655	(0.868)	768038		100.000	97.96
85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	390790		100.000	113.7
89 3 3'-Dichlorobenzidine	252	13.458	13.447	(1.002)	256015		100.000	106.0
88 Benzo(a)Anthracene	228	13.406	13.396	(0.998)	686776		100.000	106.4
91 Chrysene	228	13.478	13.468	(1.004)	651987		100.000	92.06
93 bis(2-ethylhexyl)Phthalate	149	13.769	13.769	(1.025)	547195		100.000	114.7
94 Di-n-octyl phthalate*	149	14.867	14.857	(0.937)	907590		100.000	123.1
95 Benzo(b)fluoranthene	252	15.240	15.219	(0.961)	745817		100.000	117.4
96 Benzo(k)fluoranthene	252	15.282	15.261	(0.963)	643436		100.000	92.02
97 Benzo(e)pyrene	252	15.686	15.675	(0.989)	628308		100.000	104.8
98 Benzo(a)pyrene*	252	15.769	15.758	(0.994)	660708		100.000	106.4
103 Indeno(1,2,3-cd)pyrene	276	17.613	17.603	(1.110)	582645		100.000	115.9
104 Dibenzo(a,h)anthracene	278	17.675	17.655	(1.114)	588348		100.000	118.1
105 Benzo(g,h,i)perylene	276	18.007	17.986	(1.135)	624851		100.000	106.9

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i

Calibration Date: 08-JUL-2009

Lab File ID: v070811.d

Calibration Time: 17:07

Lab Smp Id: 1685-168A-100

Client Smp ID: Level 8

Analysis Type: SV

Level: LOW

Quant Type: ISTD

Sample Type: PUF/XAD

Operator: rn

Method File: /chem/msdv.i/08jul09.b/bnap0708.m

Misc Info: ,NOTICS

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	94232	47116	188464	124384	32.00
27 Naphthalene-d8	209681	104840	419362	244660	16.68
47 Acenaphthene-d10	114283	57142	228566	137154	20.01
71 Phenanthrene-d10	221485	110742	442970	255333	15.28
90 Chrysene-d12	186936	93468	373872	215074	15.05
99 Perylene-d12	149026	74513	298052	171075	14.80

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.94	0.00
47 Acenaphthene-d10	8.16	7.66	8.66	8.16	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.43	0.00
99 Perylene-d12	15.85	15.35	16.35	15.86	0.06

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

Date : 08-JUL-2009 18:02

Client ID: Level 8

Sample Info: #1685-1684-100;Level 8

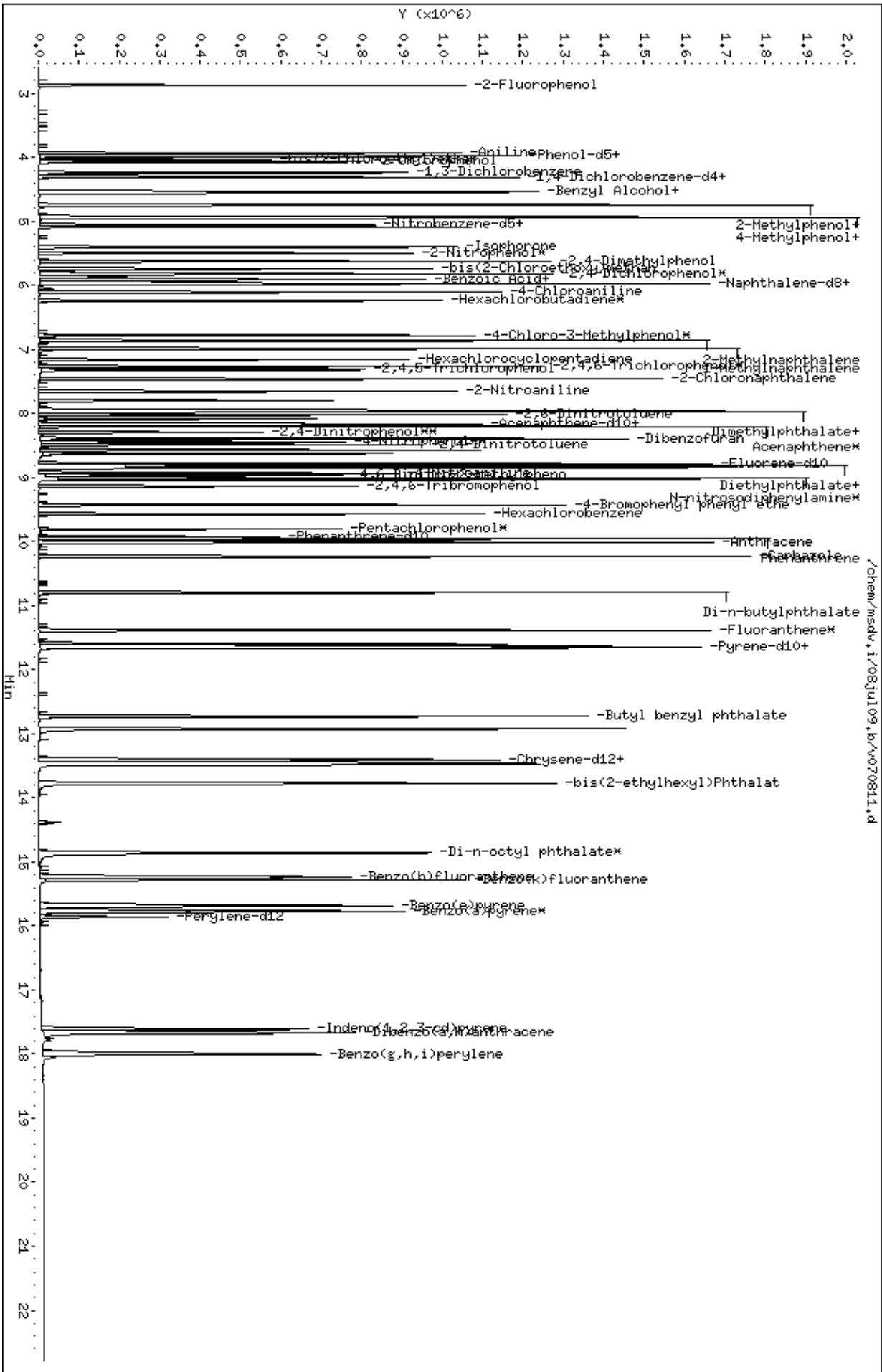
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdw,i

Operator: m

Column diameter: 0.25



Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/08jul09.b/v070812.d

Lab Smp Id: 1685-168-160

Client Smp ID: Level 9

Inj Date : 08-JUL-2009 18:29

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-168-160;Level 9

Misc Info : ,NOTICS

Comment :

Method : /chem/msdv.i/08jul09.b/bnap0708.m

Meth Date : 09-Jul-2009 09:19 rnoonan

Quant Type: ISTD

Cal Date : 08-JUL-2009 18:29

Cal File: v070812.d

Als bottle: 12

Calibration Sample, Level: 9

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: 160ng.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable

Local Compound Variable

						AMOUNTS	
		QUANT	SIG			CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112	2.877	2.877	(0.671)	431128	160.000	133.0
\$ 2 Phenol-d5	99	3.975	3.955	(0.927)	494980	160.000	131.8
\$ 17 Nitrobenzene-d5	82	5.064	5.053	(0.850)	558224	160.000	173.6(A)
\$ 62 2,4,6-Tribromophenol	330	9.136	9.126	(1.119)	116617	160.000	169.0(A)
\$ 147 Fluorene-d10	176	8.784	8.774	(1.076)	689546	160.000	159.5
\$ 148 Pyrene-d10	212	11.644	11.624	(0.867)	914538	160.000	158.2
* 7 1,4-Dichlorobenzene-d4	150	4.286	4.286	(1.000)	126355	40.0000	
* 27 Naphthalene-d8	136	5.955	5.945	(1.000)	216599	40.0000	
* 47 Acenaphthene-d10	164	8.162	8.162	(1.000)	118778	40.0000	
* 71 Phenanthrene-d10	188	9.924	9.924	(1.000)	228921	40.0000	
* 90 Chrysene-d12	240	13.437	13.427	(1.000)	188377	40.0000	
* 99 Perylene-d12	264	15.862	15.852	(1.000)	153538	40.0000	
3 Phenol*	94	3.986	3.976	(0.930)	478388	160.000	126.4

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
41 Aniline	93	3.944	3.934	(0.920)	632837	160.000	135.5
4 bis(2-Chloroethyl)ether	93	4.038	4.027	(0.942)	402903	160.000	129.3
5 2-Chlorophenol	128	4.079	4.069	(0.952)	362331	160.000	133.4
6 1,3-Dichlorobenzene	146	4.245	4.235	(0.990)	381385	160.000	126.2
9 1,4-Dichlorobenzene*	146	4.307	4.307	(1.005)	391184	160.000	124.4
10 Benzyl Alcohol	108	4.545	4.525	(1.060)	259530	160.000	143.8
11 1,2-Dichlorobenzene	146	4.556	4.546	(1.063)	353347	160.000	122.6
12 2-Methylphenol	108	4.742	4.742	(1.106)	330853	160.000	129.7
13 bis(2-Chloroisopropyl)ether	45	4.753	4.742	(1.109)	572297	160.000	120.4
14 4-Methylphenol	108	4.950	4.939	(1.155)	355316	160.000	133.1
15 N-Nitrosodipropylamine**	70	4.939	4.919	(1.152)	301292	160.000	125.6(H)
16 Hexachloroethane	117	4.939	4.939	(1.152)	159933	160.000	122.9
18 Nitrobenzene	77	5.084	5.074	(0.854)	469005	160.000	162.7(A)
19 Isophorone	82	5.406	5.385	(0.908)	870086	160.000	176.1(A)
20 2-Nitrophenol*	139	5.499	5.499	(0.923)	193637	160.000	175.8(A)
21 2,4-Dimethylphenol	122	5.634	5.623	(0.946)	316547	160.000	175.0(A)
23 bis(2-Chloroethoxy)methane	93	5.737	5.727	(0.963)	478865	160.000	167.5(A)
24 Benzoic Acid	122	5.903	5.820	(0.991)	218593	160.000	190.1(A)
25 2,4-Dichlorophenol*	162	5.830	5.820	(0.979)	285301	160.000	172.3(A)
26 1,2,4-Trichlorobenzene	180	5.913	5.903	(0.993)	327803	160.000	161.5(A)
28 Naphthalene	128	5.976	5.965	(1.003)	965975	160.000	157.9
29 4-Chloroaniline	127	6.110	6.100	(1.026)	428198	160.000	162.5(A)
30 Hexachlorobutadiene*	225	6.245	6.235	(1.049)	168967	160.000	164.6(A)
32 4-Chloro-3-Methylphenol*	107	6.784	6.774	(1.139)	360568	160.000	183.1(A)
33 2-Methylnaphthalene	142	6.856	6.856	(1.151)	664593	160.000	163.0(A)
145 1-Methylnaphthalene	142	6.991	6.981	(1.174)	627888	160.000	158.0
35 Hexachlorocyclopentadiene**	237	7.157	7.157	(0.877)	180416	160.000	180.6(A)
36 2,4,6-Trichlorophenol*	196	7.271	7.271	(0.891)	202685	160.000	169.6(A)
37 2,4,5-Trichlorophenol	196	7.323	7.312	(0.897)	214092	160.000	175.8(A)
39 2-Chloronaphthalene	162	7.457	7.447	(0.914)	611261	160.000	159.4
40 2-Nitroaniline	65	7.654	7.644	(0.938)	265564	160.000	173.3(A)
46 3-Nitroaniline	138	8.183	8.162	(1.003)	204350	160.000	177.6(A)
42 Dimethylphthalate	163	7.965	7.945	(0.976)	675731	160.000	155.6
44 2,6-Dinitrotoluene	165	8.027	8.007	(0.983)	188945	160.000	181.8(A)
45 Acenaphthylene	152	7.976	7.965	(0.977)	991741	160.000	164.2(A)
48 Acenaphthene*	154	8.204	8.193	(1.005)	581668	160.000	156.7
49 2,4-Dinitrophenol**	184	8.297	8.287	(1.016)	116316	160.000	219.0(A)
50 4-Nitrophenol**	109	8.452	8.432	(1.036)	142353	160.000	185.8(A)
52 2,4-Dinitrotoluene	165	8.494	8.473	(1.041)	235117	160.000	171.4(A)
51 Dibenzofuran	168	8.400	8.390	(1.029)	842988	160.000	158.7
56 Diethylphthalate	149	8.836	8.825	(1.083)	740828	160.000	160.0
57 Fluorene	166	8.825	8.805	(1.081)	715889	160.000	162.4(AH)
58 4-Chlorophenyl phenyl ether	204	8.856	8.846	(1.085)	332565	160.000	162.9(A)
59 4-Nitroaniline	138	8.939	8.908	(1.095)	206967	160.000	177.9(A)
60 4,6-Dinitro-2-methylphenol	198	8.981	8.960	(0.905)	142607	160.000	198.1(A)
61 N-nitrosodiphenylamine*	169	9.022	9.002	(0.909)	639889	160.000	165.3(A)
65 4-Bromophenyl phenyl ether	248	9.426	9.427	(0.950)	184678	160.000	162.3(A)

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
66 Hexachlorobenzene	284	9.582	9.572	(0.966)	195883	160.000	157.1
144 Carbazole	167	10.235	10.224	(2.388)	1000948	160.000	129.4
68 Pentachlorophenol*	266	9.810	9.800	(0.988)	127628	160.000	182.3(A)
72 Phenanthrene	178	9.955	9.955	(1.003)	1087978	160.000	160.7(AH)
73 Anthracene	178	10.017	10.007	(1.009)	1132154	160.000	170.2(A)
78 Di-n-butylphthalate	149	10.794	10.794	(1.088)	1239275	160.000	166.7(A)
80 Fluoranthene*	202	11.395	11.385	(1.148)	1068514	160.000	164.2(A)
81 Pyrene	202	11.665	11.655	(0.868)	1062964	160.000	155.3
85 Butyl benzyl phthalate	149	12.732	12.732	(0.948)	577442	160.000	187.1(A)
89 3 3'-Dichlorobenzidine	252	13.458	13.447	(1.002)	364150	160.000	170.0(A)
88 Benzo(a)Anthracene	228	13.416	13.396	(0.998)	976531	160.000	171.2(A)
91 Chrysene	228	13.489	13.468	(1.004)	936408	160.000	151.9
93 bis(2-ethylhexyl)Phthalate	149	13.779	13.769	(1.025)	778384	160.000	182.5(A)
94 Di-n-octyl phthalate*	149	14.867	14.857	(0.937)	1308185	160.000	192.0(A)
95 Benzo(b)fluoranthene	252	15.240	15.219	(0.961)	978015	160.000	170.2(A)
96 Benzo(k)fluoranthene	252	15.292	15.261	(0.964)	1028693	160.000	163.5(A)
97 Benzo(e)pyrene	252	15.696	15.675	(0.990)	913171	160.000	168.6(A)
98 Benzo(a)pyrene*	252	15.789	15.758	(0.995)	960745	160.000	171.0(A)
103 Indeno(1,2,3-cd)pyrene	276	17.624	17.603	(1.111)	910339	160.000	196.1(A)
104 Dibenzo(a,h)anthracene	278	17.686	17.655	(1.115)	814099	160.000	179.3(A)
105 Benzo(g,h,i)perylene	276	18.017	17.986	(1.136)	914161	160.000	172.5(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- H - Operator selected an alternate compound hit.

Report Date: 09-Jul-2009 09:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i
Lab File ID: v070812.d
Lab Smp Id: 1685-168-160
Analysis Type: SV
Quant Type: ISTD
Operator: rn
Method File: /chem/msdv.i/08jul09.b/bnap0708.m
Misc Info: ,NOTICS

Calibration Date: 08-JUL-2009
Calibration Time: 17:07
Client Smp ID: Level 9
Level: LOW
Sample Type: PUF/XAD

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	94232	47116	188464	126355	34.09
27 Naphthalene-d8	209681	104840	419362	216599	3.30
47 Acenaphthene-d10	114283	57142	228566	118778	3.93
71 Phenanthrene-d10	221485	110742	442970	228921	3.36
90 Chrysene-d12	186936	93468	373872	188377	0.77
99 Perylene-d12	149026	74513	298052	153538	3.03

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.29	3.79	4.79	4.29	0.00
27 Naphthalene-d8	5.94	5.44	6.44	5.95	0.17
47 Acenaphthene-d10	8.16	7.66	8.66	8.16	0.00
71 Phenanthrene-d10	9.92	9.42	10.42	9.92	0.00
90 Chrysene-d12	13.43	12.93	13.93	13.44	0.08
99 Perylene-d12	15.85	15.35	16.35	15.86	0.06

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = - 50% of internal standard area.

RT UPPER LIMIT = + 0.50 minutes of internal standard RT.

RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Date : 08-JUL-2009 18:29

Client ID: Level 9

Sample Info: #1685-168-160;Level 9

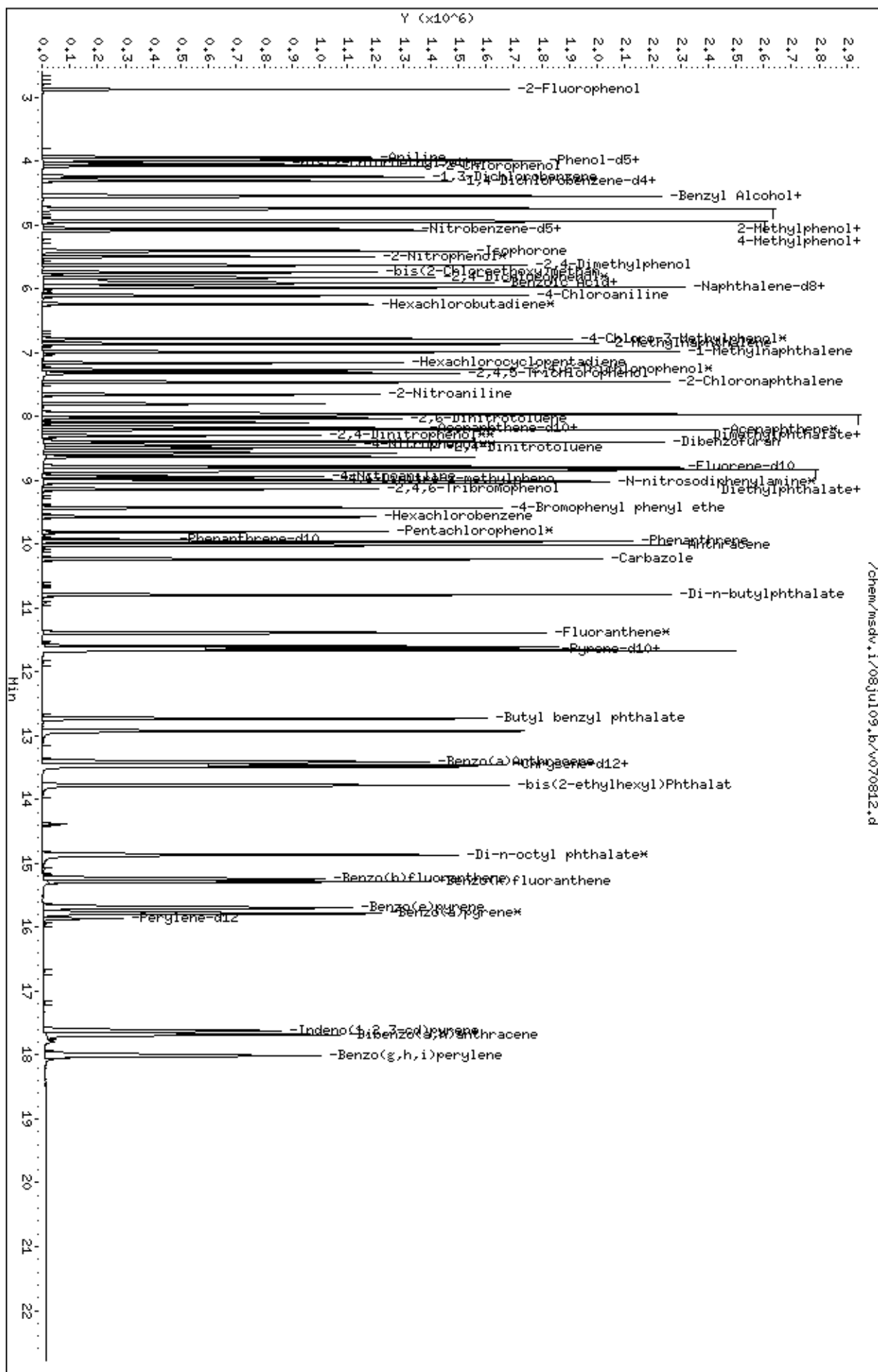
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv,i

Operator: m

Column diameter: 0.25



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i

Injection Date: 10-JUL-2009 14:54

Lab File ID: v071008.d

Init. Cal. Date(s): 08-JUL-2009 08-JUL-2009

Analysis Type: PUF/XAD

Init. Cal. Times: 14:51 18:29

Lab Sample ID: 1685-159-50

Quant Type: ISTD

Method: /chem/msdv.i/10jul09a.b/bnap0708.m

		_____		MIN		MAX	
COMPOUND		RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====		=====	=====	=====	=====	=====	=====
\$	1 2-Fluorophenol	1.02572	1.01825	0.050	0.72858	30.00000	Averaged
\$	2 Phenol-d5	1.18868	1.18064	0.050	0.67614	30.00000	Averaged
	3 Phenol*	1.19843	1.20759	0.050	-0.76469	30.00000	Averaged
	41 Aniline	1.47820	1.45717	0.050	1.42296	30.00000	Averaged
	4 bis(2-Chloroethyl)ether	0.98662	0.96141	0.050	2.55523	30.00000	Averaged
	5 2-Chlorophenol	0.85973	0.87161	0.050	-1.38226	30.00000	Averaged
	6 1,3-Dichlorobenzene	0.95683	0.90734	0.050	5.17191	30.00000	Averaged
	9 1,4-Dichlorobenzene*	0.99576	0.94714	0.050	4.88261	30.00000	Averaged
	10 Benzyl Alcohol	0.57114	0.60391	0.050	-5.73717	30.00000	Averaged
	11 1,2-Dichlorobenzene	0.91208	0.87740	0.050	3.80223	30.00000	Averaged
	12 2-Methylphenol	0.80761	0.82776	0.050	-2.49475	30.00000	Averaged
	13 bis(2-Chloroisopropyl)ether	1.50516	1.43925	0.050	4.37889	30.00000	Averaged
	14 4-Methylphenol	0.84531	0.87093	0.050	-3.03015	30.00000	Averaged
	15 N-Nitrosodipropylamine**	0.75961	0.77744	0.050	-2.34701	30.00000	Averaged
	16 Hexachloroethane	0.41204	0.40021	0.050	2.87123	30.00000	Averaged
\$	17 Nitrobenzene-d5	0.59373	0.57091	0.050	3.84343	30.00000	Averaged
	18 Nitrobenzene	0.53246	0.50601	0.050	4.96709	30.00000	Averaged
	19 Isophorone	0.91225	0.90590	0.050	0.69580	30.00000	Averaged
	20 2-Nitrophenol*	0.20343	0.20366	0.050	-0.11348	30.00000	Averaged
	21 2,4-Dimethylphenol	0.33401	0.32251	0.050	3.44359	30.00000	Averaged
	24 Benzoic Acid	0.21232	0.20947	0.050	1.34378	30.00000	Averaged
	23 bis(2-Chloroethoxy)methane	0.52798	0.51626	0.050	2.21915	30.00000	Averaged
	25 2,4-Dichlorophenol*	0.30584	0.29932	0.050	2.13106	30.00000	Averaged
	26 1,2,4-Trichlorobenzene	0.37490	0.35023	0.050	6.58198	30.00000	Averaged
	28 Naphthalene	1.12956	1.09215	0.050	3.31190	30.00000	Averaged
	29 4-Chloroaniline	0.48670	0.48276	0.050	0.80785	30.00000	Averaged
	30 Hexachlorobutadiene*	0.18952	0.17700	0.050	6.60572	30.00000	Averaged
	32 4-Chloro-3-Methylphenol*	0.36366	0.36718	0.050	-0.96829	30.00000	Averaged
	33 2-Methylnaphthalene	0.75292	0.71297	0.050	5.30650	30.00000	Averaged
	145 1-Methylnaphthalene	0.73364	0.69365	0.050	5.45062	30.00000	Averaged
	35 Hexachlorocyclopentadiene**	0.33633	0.33259	0.050	1.10945	30.00000	Averaged
	36 2,4,6-Trichlorophenol*	0.40233	0.40028	0.050	0.50990	30.00000	Averaged
	37 2,4,5-Trichlorophenol	0.41000	0.42134	0.050	-2.76522	30.00000	Averaged
	39 2-Chloronaphthalene	1.29165	1.23154	0.050	4.65376	30.00000	Averaged
	40 2-Nitroaniline	0.51606	0.54847	0.050	-6.28027	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i Injection Date: 10-JUL-2009 14:54
Lab File ID: v071008.d Init. Cal. Date(s): 08-JUL-2009 08-JUL-2009
Analysis Type: PUF/XAD Init. Cal. Times: 14:51 18:29
Lab Sample ID: 1685-159-50 Quant Type: ISTD
Method: /chem/msdv.i/10jul09a.b/bnap0708.m

	_____		MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
=====	=====	=====	=====	=====	=====	=====
42 Dimethylphthalate	1.46246	1.40863	0.050	3.68085	30.00000	Averaged
44 2,6-Dinitrotoluene	0.34997	0.34295	0.050	2.00656	30.00000	Averaged
45 Acenaphthylene	2.03350	2.02417	0.050	0.45911	30.00000	Averaged
46 3-Nitroaniline	0.38750	0.39226	0.050	-1.22704	30.00000	Averaged
48 Acenaphthene*	1.25035	1.23730	0.050	1.04351	30.00000	Averaged
49 2,4-Dinitrophenol**	0.17890	0.17600	0.050	1.61637	30.00000	Averaged
50 4-Nitrophenol**	0.25804	0.26218	0.050	-1.60653	30.00000	Averaged
51 Dibenzofuran	1.78867	1.75407	0.050	1.93448	30.00000	Averaged
52 2,4-Dinitrotoluene	0.46192	0.46856	0.050	-1.43783	30.00000	Averaged
56 Diethylphthalate	1.55971	1.71865	0.050	-10.19044	30.00000	Averaged
\$ 147 Fluorene-d10	1.45602	1.40238	0.050	3.68392	30.00000	Averaged
58 4-Chlorophenyl phenyl ether	0.68739	0.65799	0.050	4.27705	30.00000	Averaged
57 Fluorene	1.48434	1.42630	0.050	3.91066	30.00000	Averaged
59 4-Nitroaniline	0.39174	0.40477	0.050	-3.32604	30.00000	Averaged
60 4,6-Dinitro-2-methylphenol	0.12578	0.13523	0.050	-7.51755	30.00000	Averaged
61 N-nitrosodiphenylamine*	0.67644	0.67032	0.050	0.90431	30.00000	Averaged
\$ 62 2,4,6-Tribromophenol	0.23243	0.22802	0.050	1.89609	30.00000	Averaged
65 4-Bromophenyl phenyl ether	0.19884	0.18975	0.050	4.57009	30.00000	Averaged
66 Hexachlorobenzene	0.21792	0.20101	0.050	7.76090	30.00000	Averaged
68 Pentachlorophenol*	0.12234	0.11870	0.050	2.97831	30.00000	Averaged
72 Phenanthrene	1.18310	1.10804	0.050	6.34400	30.00000	Averaged
73 Anthracene	1.16260	1.11450	0.050	4.13747	30.00000	Averaged
144 Carbazole	2.44783	2.50802	0.050	-2.45870	30.00000	Averaged
78 Di-n-butylphthalate	1.29899	1.33776	0.050	-2.98450	30.00000	Averaged
\$ 83 Fluoranthene-d10	0.85242	0.84146	0.050	1.28607	30.00000	Averaged
80 Fluoranthene*	1.13689	1.08686	0.050	4.40090	30.00000	Averaged
\$ 148 Pyrene-d10	1.22786	1.14581	0.050	6.68161	30.00000	Averaged
81 Pyrene	1.45294	1.38142	0.050	4.92233	30.00000	Averaged
85 Butyl benzyl phthalate	0.65523	0.68940	0.050	-5.21600	30.00000	Averaged
89 3 3'-Dichlorobenzidine	0.45487	0.43443	0.050	4.49306	30.00000	Averaged
88 Benzo(a)Anthracene	1.21131	1.20983	0.050	0.12209	30.00000	Averaged
91 Chrysene	1.30892	1.14828	0.050	12.27305	30.00000	Averaged
93 bis(2-ethylhexyl)Phthalate	0.90545	0.93345	0.050	-3.09162	30.00000	Averaged
94 Di-n-octyl phthalate*	1.77512	1.89457	0.050	-6.72886	30.00000	Averaged
95 Benzo(b)fluoranthene	1.49697	1.59499	0.050	-6.54798	30.00000	Averaged
_____	_____	_____	_____	_____	_____	_____

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdv.i

Injection Date: 10-JUL-2009 14:54

Lab File ID: v071008.d

Init. Cal. Date(s): 08-JUL-2009 08-JUL-2009

Analysis Type: PUF/XAD

Init. Cal. Times: 14:51 18:29

Lab Sample ID: 1685-159-50

Quant Type: ISTD

Method: /chem/msdv.i/10jul09a.b/bnap0708.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
96 Benzo(k)fluoranthene	1.63940	1.50816	0.050	8.00540	30.00000	Averaged
97 Benzo(e)pyrene	1.41115	1.38039	0.050	2.18030	30.00000	Averaged
\$ 101 Benzo(a)pyrene-d12	0.84908	0.89317	0.050	-5.19294	30.00000	Averaged
98 Benzo(a)pyrene*	1.46402	1.43132	0.050	2.23400	30.00000	Averaged
103 Indeno(1,2,3-cd)pyrene	1.20948	1.22633	0.050	-1.39299	30.00000	Averaged
104 Dibenzo(a,h)anthracene	1.18280	1.15170	0.050	2.62935	30.00000	Averaged
105 Benzo(g,h,i)perylene	1.38059	1.36632	0.050	1.03391	30.00000	Averaged

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
						(ng)	(ng)
=====	=====	==	=====	=====	=====	=====	=====
14 4-Methylphenol	108	4.919	4.919	(1.156)	111776	50.0000	51.52
15 N-Nitrosodipropylamine**	70	4.898	4.898	(1.151)	99778	50.0000	51.17
16 Hexachloroethane	117	4.919	4.919	(1.156)	51363	50.0000	48.56
\$ 17 Nitrobenzene-d5	82	5.022	5.022	(0.848)	168753	50.0000	48.08
18 Nitrobenzene	77	5.043	5.043	(0.851)	149569	50.0000	47.52
19 Isophorone	82	5.364	5.364	(0.906)	267770	50.0000	49.65
20 2-Nitrophenol*	139	5.468	5.468	(0.923)	60200	50.0000	50.06
21 2,4-Dimethylphenol	122	5.592	5.592	(0.944)	95328	50.0000	48.28
24 Benzoic Acid	122	5.800	5.800	(0.979)	61916	50.0000	49.33
23 bis(2-Chloroethoxy)methane	93	5.706	5.706	(0.963)	152600	50.0000	48.89
25 2,4-Dichlorophenol*	162	5.789	5.789	(0.977)	88474	50.0000	48.93
26 1,2,4-Trichlorobenzene	180	5.882	5.882	(0.993)	103522	50.0000	46.71
* 27 Naphthalene-d8	136	5.924	5.924	(1.000)	236468	40.0000	
28 Naphthalene	128	5.945	5.945	(1.003)	322822	50.0000	48.34
29 4-Chloroaniline	127	6.079	6.079	(1.026)	142698	50.0000	49.60
30 Hexachlorobutadiene*	225	6.214	6.214	(1.049)	52319	50.0000	46.70
32 4-Chloro-3-Methylphenol*	107	6.753	6.753	(1.140)	108533	50.0000	50.48
33 2-Methylnaphthalene	142	6.825	6.825	(1.152)	210742	50.0000	47.35
145 1-Methylnaphthalene	142	6.960	6.960	(1.175)	205033	50.0000	47.27
35 Hexachlorocyclopentadiene**	237	7.136	7.136	(0.878)	53660	50.0000	49.44
36 2,4,6-Trichlorophenol*	196	7.240	7.240	(0.890)	64580	50.0000	49.74
37 2,4,5-Trichlorophenol	196	7.292	7.292	(0.897)	67978	50.0000	51.38
39 2-Chloronaphthalene	162	7.427	7.427	(0.913)	198693	50.0000	47.67
40 2-Nitroaniline	65	7.623	7.623	(0.938)	88488	50.0000	53.14
42 Dimethylphthalate	163	7.924	7.924	(0.974)	227265	50.0000	48.16
44 2,6-Dinitrotoluene	165	7.986	7.986	(0.982)	55330	50.0000	49.00
45 Acenaphthylene	152	7.934	7.934	(0.976)	326574	50.0000	49.77
46 3-Nitroaniline	138	8.142	8.142	(1.001)	63286	50.0000	50.61
* 47 Acenaphthene-d10	164	8.131	8.131	(1.000)	129070	40.0000	
48 Acenaphthene*	154	8.173	8.173	(1.005)	199623	50.0000	49.48
49 2,4-Dinitrophenol**	184	8.256	8.256	(1.015)	28396	50.0000	49.19
50 4-Nitrophenol**	109	8.411	8.411	(1.034)	42300	50.0000	50.80
51 Dibenzofuran	168	8.370	8.370	(1.029)	282997	50.0000	49.03
52 2,4-Dinitrotoluene	165	8.453	8.453	(1.040)	75596	50.0000	50.72
56 Diethylphthalate	149	8.794	8.794	(1.082)	277283	50.0000	55.10
\$ 147 Fluorene-d10	176	8.753	8.753	(1.076)	226256	50.0000	48.16
58 4-Chlorophenyl phenyl ether	204	8.826	8.826	(1.085)	106159	50.0000	47.86
57 Fluorene	166	8.784	8.784	(1.080)	230115	50.0000	48.04
59 4-Nitroaniline	138	8.888	8.888	(1.093)	65304	50.0000	51.66
60 4,6-Dinitro-2-methylphenol	198	8.940	8.940	(0.903)	41998	50.0000	53.76
61 N-nitrosodiphenylamine*	169	8.981	8.981	(0.907)	208174	50.0000	49.55
\$ 62 2,4,6-Tribromophenol	330	9.105	9.105	(1.120)	36788	50.0000	49.05
65 4-Bromophenyl phenyl ether	248	9.396	9.396	(0.949)	58929	50.0000	47.71
66 Hexachlorobenzene	284	9.541	9.541	(0.963)	62426	50.0000	46.12
68 Pentachlorophenol*	266	9.779	9.779	(0.987)	36862	50.0000	48.51
* 71 Phenanthrene-d10	188	9.903	9.903	(1.000)	248448	40.0000	
72 Phenanthrene	178	9.924	9.924	(1.002)	344113	50.0000	46.83(H)

Compounds	QUANT	SIG						AMOUNTS	
			CAL-AMT	ON-COL					
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng)	(ng)		
=====	=====	==	=====	=====	=====	=====	=====		
73 Anthracene	178	9.976	9.976	(1.007)	346119	50.0000	47.93		
144 Carbazole	167	10.204	10.204	(2.398)	321882	50.0000	51.23		
78 Di-n-butylphthalate	149	10.763	10.763	(1.087)	415455	50.0000	51.49		
\$ 83 Fluoranthene-d10	212	11.333	11.333	(1.144)	261324	50.0000	49.36		
80 Fluoranthene*	202	11.354	11.354	(1.146)	337534	50.0000	47.80		
\$ 148 Pyrene-d10	212	11.603	11.603	(0.867)	298194	50.0000	46.66		
81 Pyrene	202	11.624	11.624	(0.868)	359509	50.0000	47.54		
85 Butyl benzyl phthalate	149	12.701	12.701	(0.949)	179415	50.0000	52.61		
89 3 3'-Dichlorobenzidine	252	13.416	13.416	(1.002)	113059	50.0000	47.75		
88 Benzo(a)Anthracene	228	13.365	13.365	(0.998)	314855	50.0000	49.94		
* 90 Chrysene-d12	240	13.385	13.385	(1.000)	208197	40.0000			
91 Chrysene	228	13.427	13.427	(1.003)	298835	50.0000	43.86		
93 bis(2-ethylhexyl)Phthalate	149	13.738	13.738	(1.026)	242926	50.0000	51.54		
94 Di-n-octyl phthalate*	149	14.826	14.826	(0.946)	396517	50.0000	53.36		
95 Benzo(b)fluoranthene	252	15.188	15.188	(0.969)	333817	50.0000	53.27		
96 Benzo(k)fluoranthene	252	15.230	15.230	(0.972)	315645	50.0000	46.00(H)		
97 Benzo(e)pyrene	252	15.634	15.634	(0.997)	288903	50.0000	48.91(H)		
\$ 101 Benzo(a)pyrene-d12	264	15.676	15.676	(1.000)	186933	50.0000	52.60		
98 Benzo(a)pyrene*	252	15.717	15.717	(1.003)	299562	50.0000	48.88(H)		
* 99 Perylene-d12	264	15.810	15.810	(1.000)	167433	40.0000	(H)		
103 Indeno(1,2,3-cd)pyrene	276	17.562	17.562	(1.120)	256660	50.0000	50.70		
104 Dibenzo(a,h)anthracene	278	17.613	17.613	(1.124)	241040	50.0000	48.68		
105 Benzo(g,h,i)perylene	276	17.935	17.935	(1.144)	285958	50.0000	49.48		

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i

Calibration Date: 10-JUL-2009

Lab File ID: v071008.d

Calibration Time: 14:54

Lab Smp Id: 1685-159-50

Client Smp ID: ccv

Analysis Type: SV

Level: LOW

Quant Type: ISTD

Sample Type: PUF/XAD

Operator: rn

Method File: /chem/msdv.i/10jul09a.b/bnap0708.m

Misc Info: ,NOTICS

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	102673	51336	205346	102673	0.00
27 Naphthalene-d8	236468	118234	472936	236468	0.00
47 Acenaphthene-d10	129070	64535	258140	129070	0.00
71 Phenanthrene-d10	248448	124224	496896	248448	0.00
90 Chrysene-d12	208197	104098	416394	208197	0.00
99 Perylene-d12	167433	83716	334866	167433	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.26	3.76	4.76	4.26	0.00
27 Naphthalene-d8	5.92	5.42	6.42	5.92	0.00
47 Acenaphthene-d10	8.13	7.63	8.63	8.13	0.00
71 Phenanthrene-d10	9.90	9.40	10.40	9.90	0.00
90 Chrysene-d12	13.39	12.89	13.89	13.39	0.00
99 Perylene-d12	15.81	15.31	16.31	15.81	0.00

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

Date : 10-JUL-2009 14:54

Client ID: ccv

Sample Info: #1685-159-50;ccv

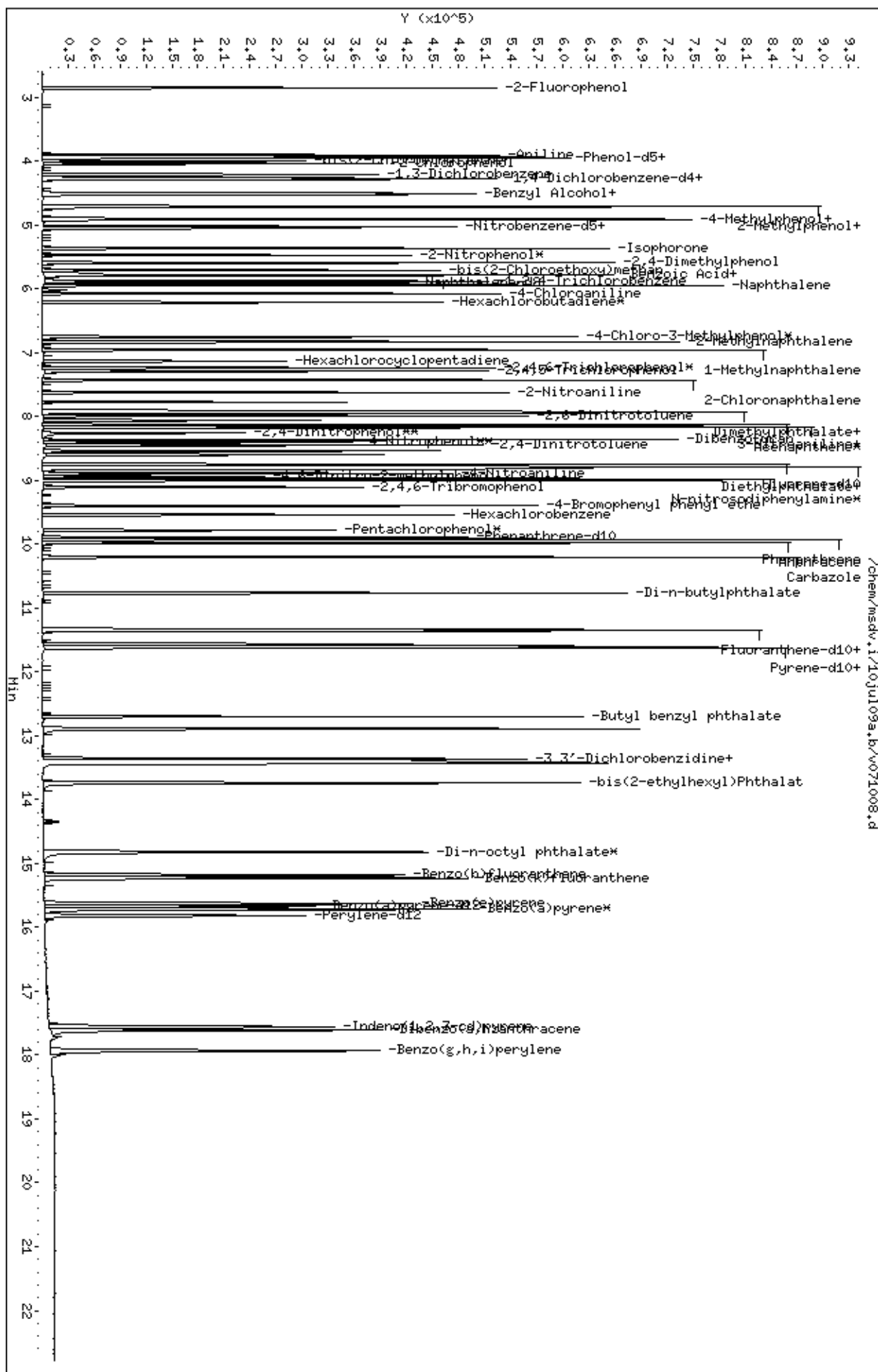
Volume Injected (ul): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: m

Column diameter: 0.25



Client Sample ID: LCS

Lab ID#: 0907124B-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	v071024	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/10/09 10:12 PM
		Date of Extraction: 7/9/09

Compound	%Recovery
Phenol	86
bis(2-Chloroethyl) Ether	Not Spiked
2-Chlorophenol	83
1,3-Dichlorobenzene	Not Spiked
1,4-Dichlorobenzene	75
1,2-Dichlorobenzene	Not Spiked
2-Methylphenol (o-Cresol)	Not Spiked
bis(2-Chloroisopropyl) Ether	Not Spiked
N-Nitroso-di-n-propylamine	86
4-Methylphenol/3-Methylphenol	Not Spiked
Hexachloroethane	Not Spiked
Nitrobenzene	Not Spiked
Isophorone	Not Spiked
2-Nitrophenol	Not Spiked
2,4-Dimethylphenol	Not Spiked
Benzoic Acid	Not Spiked
bis(2-Chloroethoxy) Methane	Not Spiked
2,4-Dichlorophenol	Not Spiked
1,2,4-Trichlorobenzene	75
Naphthalene	Not Spiked
4-Chloroaniline	Not Spiked
Hexachlorobutadiene	Not Spiked
4-Chloro-3-methylphenol	86
2-Methylnaphthalene	Not Spiked
Hexachlorocyclopentadiene	Not Spiked
2,4,6-Trichlorophenol	Not Spiked
2,4,5-Trichlorophenol	Not Spiked
2-Chloronaphthalene	Not Spiked
2-Nitroaniline	Not Spiked
Dimethylphthalate	Not Spiked
Acenaphthylene	Not Spiked
2,6-Dinitrotoluene	Not Spiked
3-Nitroaniline	Not Spiked
Acenaphthene	78
2,4-Dinitrophenol	Not Spiked
4-Nitrophenol	75
2,4-Dinitrotoluene	80
Dibenzofuran	Not Spiked

Client Sample ID: LCS

Lab ID#: 0907124B-08A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	v071024	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/10/09 10:12 PM
		Date of Extraction: 7/9/09

Compound	%Recovery
Diethylphthalate	Not Spiked
Fluorene	Not Spiked
4-Chlorophenyl-phenyl Ether	Not Spiked
4-Nitroaniline	Not Spiked
4,6-Dinitro-2-methylphenol	Not Spiked
N-Nitrosodiphenylamine	Not Spiked
4-Bromophenyl-phenyl Ether	Not Spiked
Hexachlorobenzene	Not Spiked
Pentachlorophenol	73
Phenanthrene	Not Spiked
Anthracene	Not Spiked
di-n-Butylphthalate	Not Spiked
Fluoranthene	Not Spiked
Pyrene	82
Butylbenzylphthalate	Not Spiked
3,3'-Dichlorobenzidine	Not Spiked
Chrysene	Not Spiked
Benzo(a)anthracene	Not Spiked
bis(2-Ethylhexyl)phthalate	Not Spiked
Di-n-Octylphthalate	Not Spiked
Benzo(b)fluoranthene	Not Spiked
Benzo(k)fluoranthene	Not Spiked
Benzo(a)pyrene	Not Spiked
Indeno(1,2,3-c,d)pyrene	Not Spiked
Dibenz(a,h)anthracene	Not Spiked
Benzo(g,h,i)perylene	Not Spiked

Air Sample Volume(L): 80000

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	64	50-150
Phenol-d5	72	50-150
Nitrobenzene-d5	64	50-150
2,4,6-Tribromophenol	63	50-150
Fluorene-d10	64	60-120
Pyrene-d10	64	60-120

Report Date: 13-Jul-2009 08:50

Air Toxics Ltd.

RECOVERY REPORT

Client Name:	Client SDG: 10jul09a
Sample Matrix: GAS	Fraction: SV
Lab Smp Id: 0907122/123B/124B-L	Client Smp ID: LCS
Level: LOW	Operator: rn
Data Type: MS DATA	SampleType: LCS
SpikeList File: TO13100.spk	Quant Type: ISTD
Sublist File: lcsfull.sub	
Method File: /chem/msdv.i/10jul09a.b/bnap0708.m	
Misc Info: ,NOTICS	

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
3 Phenol*	50.00	43.05	86.10	50-150
5 2-Chlorophenol	50.00	41.47	82.94	50-150
9 1,4-Dichlorobenzen	50.00	37.54	75.08	50-150
15 N-Nitrosodipropyla	50.00	43.14	86.27	50-150
26 1,2,4-Trichloroben	50.00	37.42	74.84	50-150
32 4-Chloro-3-Methylp	50.00	43.17	86.35	50-150
48 Acenaphthene*	50.00	38.80	77.60	50-150
50 4-Nitrophenol**	50.00	37.47	74.95	38-96
52 2,4-Dinitrotoluene	50.00	39.80	79.60	50-150
68 Pentachlorophenol*	50.00	36.63	73.25	39-106
81 Pyrene	50.00	40.85	81.70	60-120

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
\$ 1 2-Fluorophenol	50.00	32.18	64.37	50-150
\$ 2 Phenol-d5	50.00	36.21	72.43	50-150
\$ 17 Nitrobenzene-d5	50.00	31.92	63.83	50-150
\$ 62 2,4,6-Tribromophen	50.00	31.47	62.95	50-150
\$ 147 Fluorene-d10	50.00	31.82	63.65	60-120
\$ 148 Pyrene-d10	50.00	32.29	64.58	60-120

Air Toxics Ltd.

Semivolatile by Modified 8270C/TO-13

Data file : /chem/msdv.i/10jul09a.b/v071024.d

Lab Smp Id: 0907122/123B/124B-L

Client Smp ID: LCS

Inj Date : 10-JUL-2009 22:12

Operator : rn

Inst ID: msdv.i

Smp Info : ;0907122/123B/124B-LCS;LCS

Misc Info : ,NOTICS

Comment :

Method : /chem/msdv.i/10jul09a.b/bnap0708.m

Meth Date : 10-Jul-2009 16:26 rnoonan

Quant Type: ISTD

Cal Date : 08-JUL-2009 18:29

Cal File: v070812.d

Als bottle: 18

QC Sample: LCS

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: lcsfull.sub

Target Version: 3.50

Processing Host: eeyore

Concentration Formula: Amt * DF * (Vt/S*Vi)/CF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
S	1.00000	Sample Portion
Vi	1.00000	Volume injected (uL)
CF	1000.00000	Conversion ng->ug

Cpnd Variable

Local Compound Variable

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								(ng)	(ug)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112		2.846	2.846	(0.669)		86316	32.1854	32.18
\$ 2 Phenol-d5	99		3.934	3.934	(0.924)		112546	36.2127	36.21
\$ 17 Nitrobenzene-d5	82		5.022	5.022	(0.849)		115418	31.9166	31.92
\$ 62 2,4,6-Tribromophenol	330		9.105	9.105	(1.120)		25485	31.4744	31.47
\$ 147 Fluorene-d10	176		8.753	8.753	(1.076)		161419	31.8232	31.82
\$ 148 Pyrene-d10	212		11.603	11.603	(0.867)		216055	32.2880	32.29
* 7 1,4-Dichlorobenzene-d4	150		4.255	4.255	(1.000)		104584	40.0000	
* 27 Naphthalene-d8	136		5.913	5.924	(1.000)		243628	40.0000	
* 47 Acenaphthene-d10	164		8.131	8.131	(1.000)		139349	40.0000	
* 71 Phenanthrene-d10	188		9.893	9.903	(1.000)		251815	40.0000	
* 90 Chrysene-d12	240		13.385	13.385	(1.000)		217990	40.0000	
* 99 Perylene-d12	264		15.810	15.810	(1.000)		171647	40.0000	
3 Phenol*	94		3.944	3.945	(0.927)		134893	43.0500	43.05

Compounds	QUANT	SIG						CONCENTRATIONS	
			ON-COLUMN	FINAL				(ng)	(ug)
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
5 2-Chlorophenol	128	4.048	4.048	(0.951)	93214	41.4683	41.47		
9 1,4-Dichlorobenzene*	146	4.276	4.276	(1.005)	97733	37.5390	37.54		
15 N-Nitrosodipropylamine**	70	4.898	4.898	(1.151)	85672	43.1361	43.14		
26 1,2,4-Trichlorobenzene	180	5.882	5.882	(0.995)	85444	37.4193	37.42		
32 4-Chloro-3-Methylphenol*	107	6.753	6.753	(1.142)	95628	43.1742	43.17		
48 Acenaphthene*	154	8.172	8.173	(1.005)	169015	38.8016	38.80		
50 4-Nitrophenol**	109	8.411	8.411	(1.034)	33686	37.4738	37.47		
52 2,4-Dinitrotoluene	165	8.452	8.453	(1.040)	64046	39.8003	39.80		
68 Pentachlorophenol*	266	9.779	9.779	(0.988)	28209	36.6270	36.63		
81 Pyrene	202	11.623	11.624	(0.868)	323462	40.8506	40.85		

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdv.i	Calibration Date: 10-JUL-2009
Lab File ID: v071024.d	Calibration Time: 14:54
Lab Smp Id: 0907122/123B/124B-L	Client Smp ID: LCS
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: PUF/XAD
Operator: rn	
Method File: /chem/msdv.i/10jul09a.b/bnap0708.m	
Misc Info: ,NOTICS	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	102673	51336	205346	104584	1.86
27 Naphthalene-d8	236468	118234	472936	243628	3.03
47 Acenaphthene-d10	129070	64535	258140	139349	7.96
71 Phenanthrene-d10	248448	124224	496896	251815	1.36
90 Chrysene-d12	208197	104098	416394	217990	4.70
99 Perylene-d12	167433	83716	334866	171647	2.52

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
7 1,4-Dichlorobenze	4.26	3.76	4.76	4.26	-0.01
27 Naphthalene-d8	5.92	5.42	6.42	5.91	-0.18
47 Acenaphthene-d10	8.13	7.63	8.63	8.13	0.00
71 Phenanthrene-d10	9.90	9.40	10.40	9.89	-0.11
90 Chrysene-d12	13.39	12.89	13.89	13.39	0.00
99 Perylene-d12	15.81	15.31	16.31	15.81	0.00

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

Data File: /chem/msdv.i/10jul09a.b/v071024.d

Date : 10-JUL-2009 22:12

Client ID: LCS

Sample Info: J0907122/123B/124B-LCS;LCS

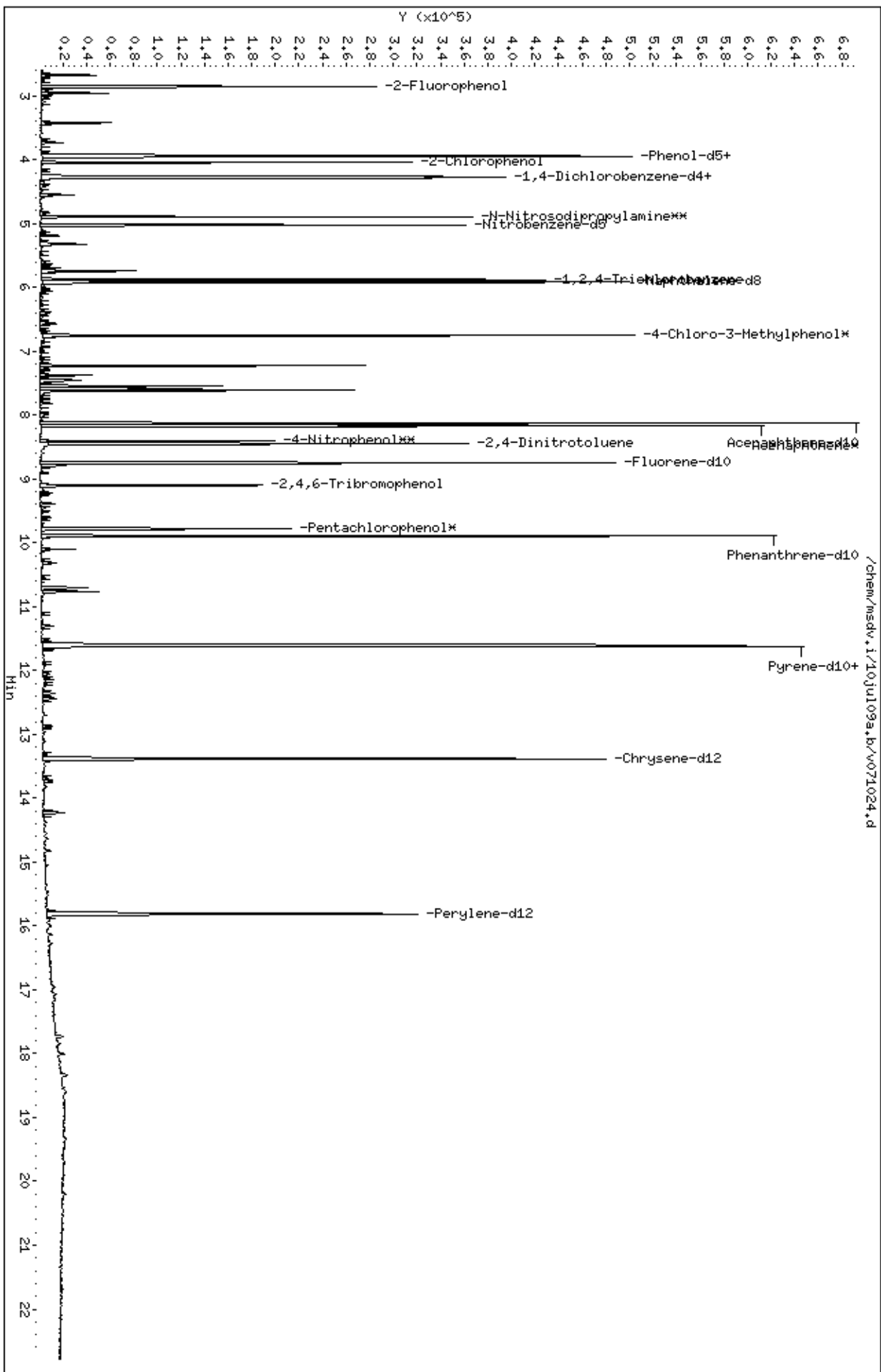
Volume Injected (uL): 1.0

Column phase: DB-5.625

Instrument: msdv.i

Operator: m

Column diameter: 0.25



Date : 10-JUL-2009 22:12

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907122/123B/124B-LCS;LCS

Volume Injected (uL): 1.0

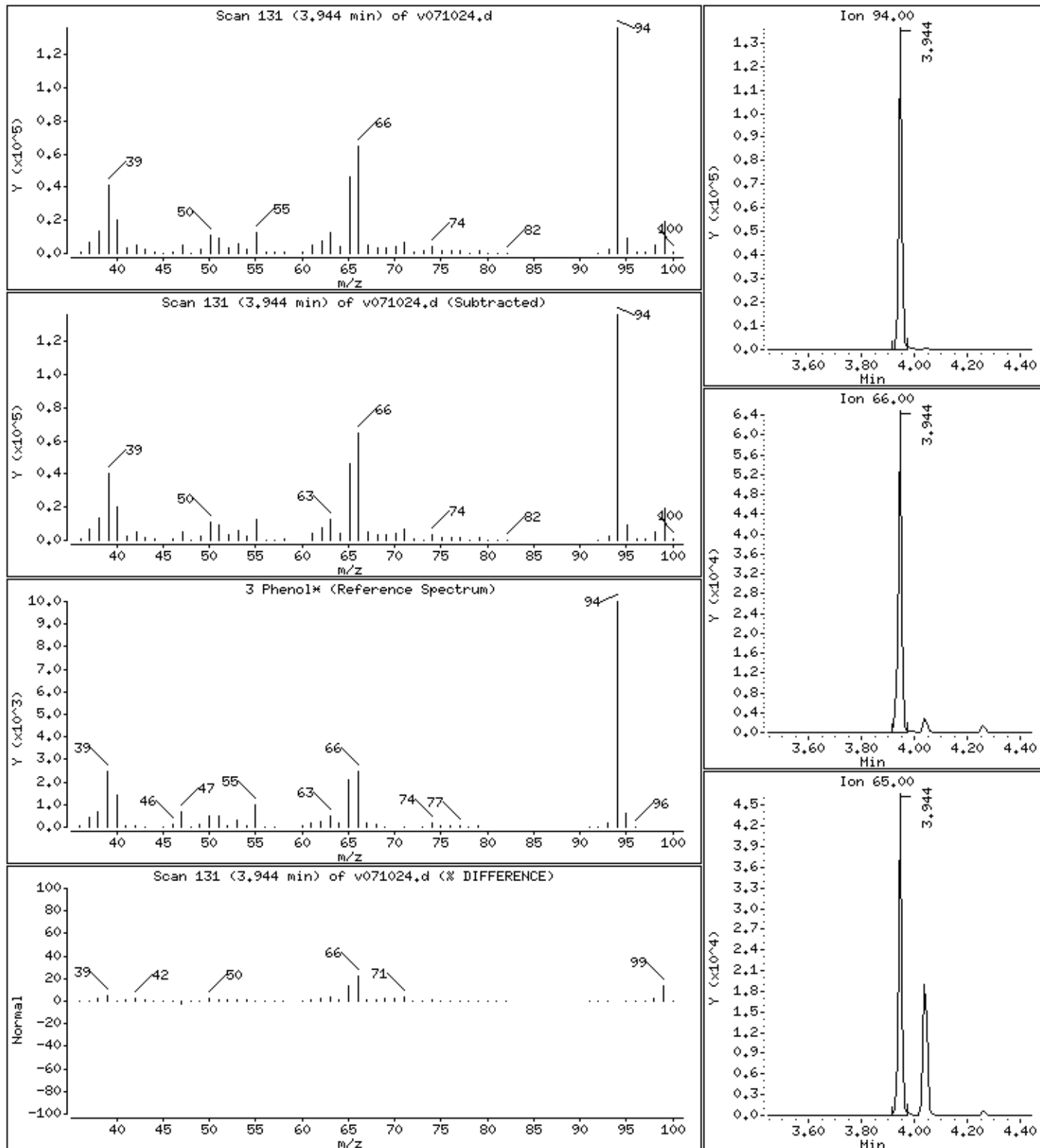
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

3 Phenol*

Concentration: 43.05 ug



Date : 10-JUL-2009 22:12

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907122/123B/124B-LCS;LCS

Volume Injected (uL): 1.0

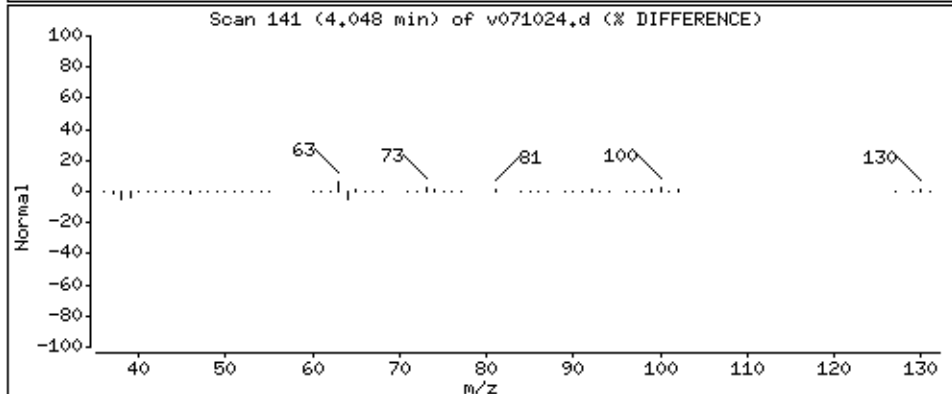
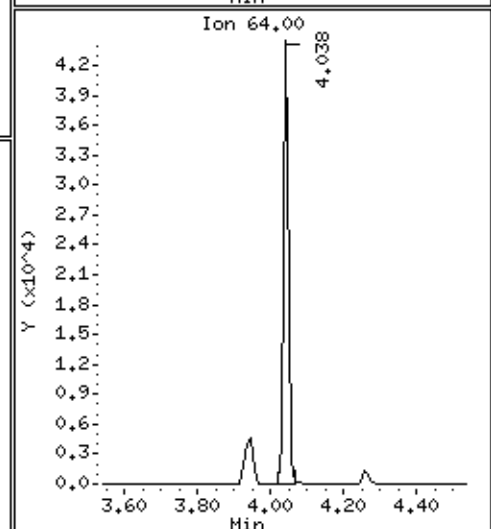
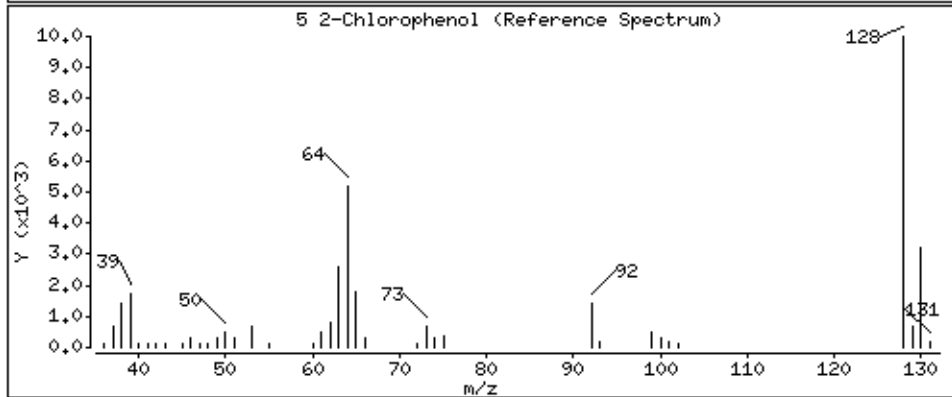
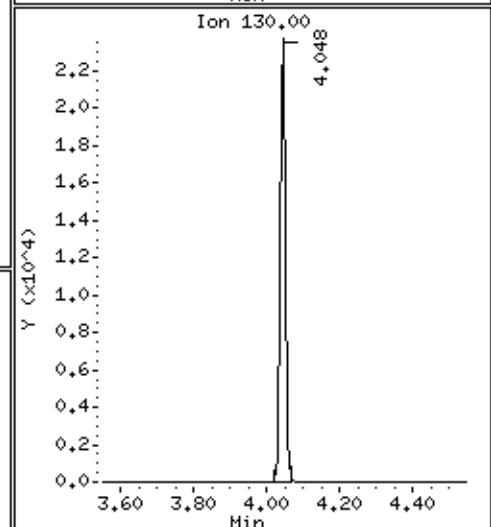
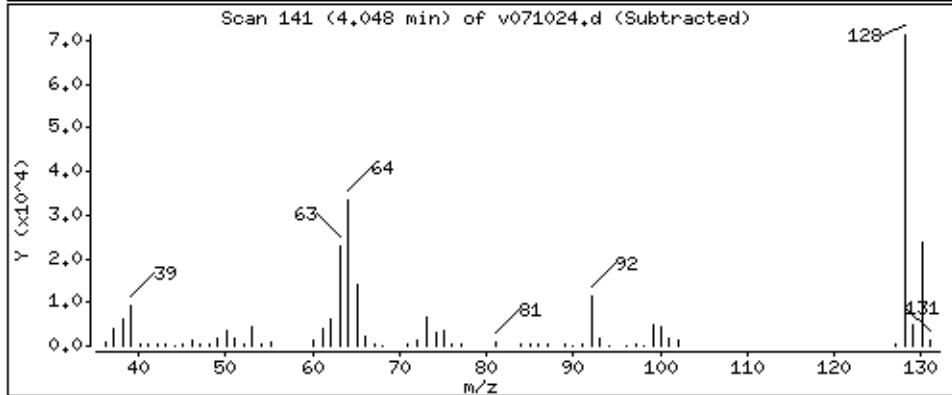
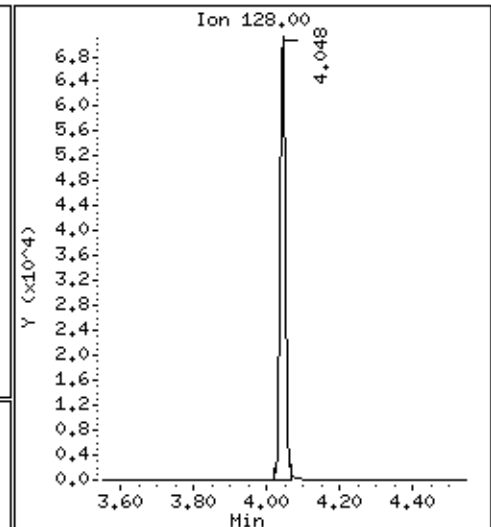
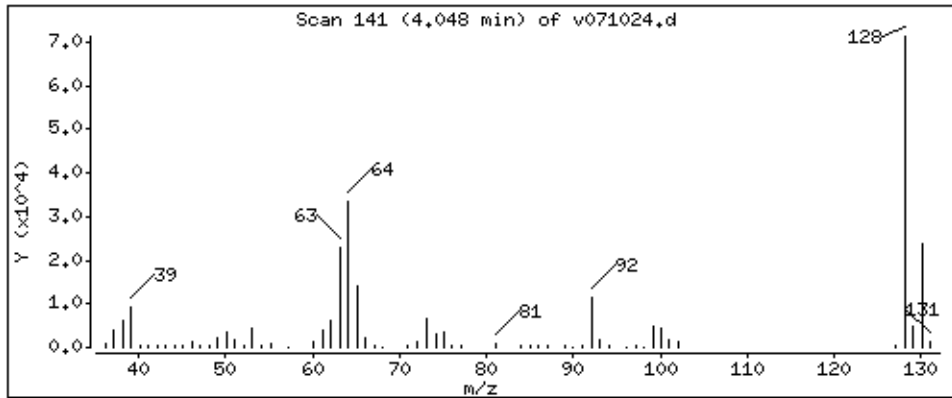
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

5 2-Chlorophenol

Concentration: 41.47 ug



Date : 10-JUL-2009 22:12

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907122/123B/124B-LCS;LCS

Volume Injected (uL): 1.0

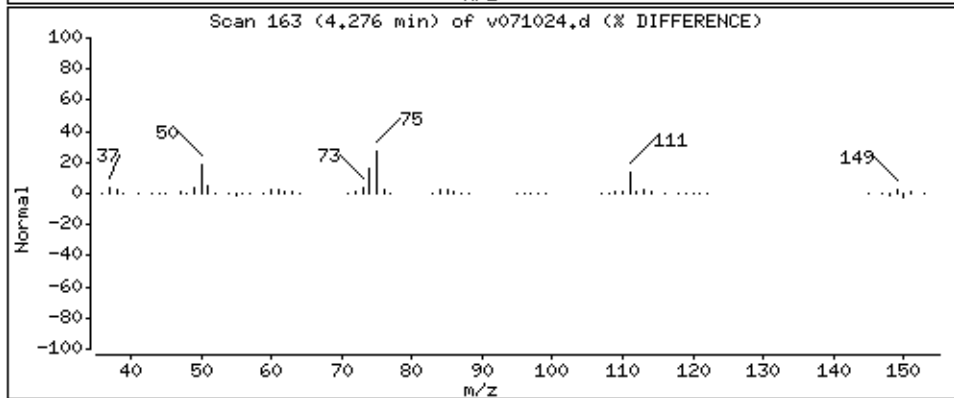
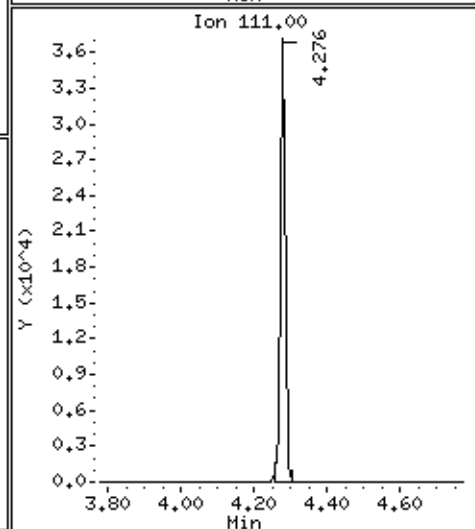
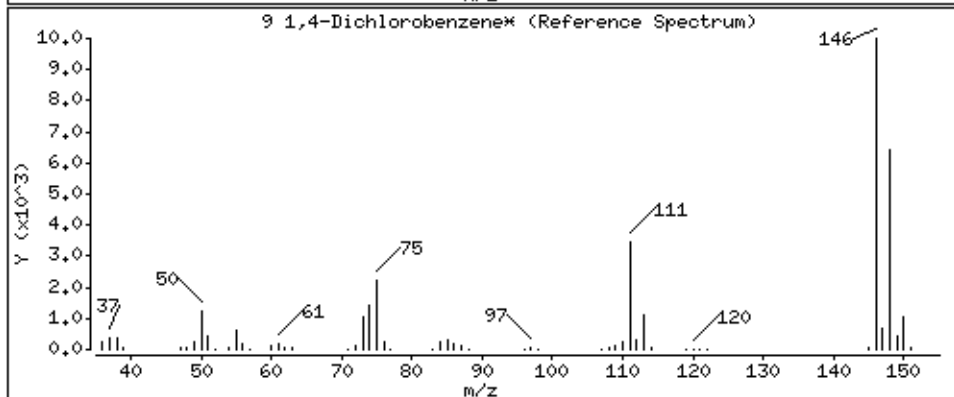
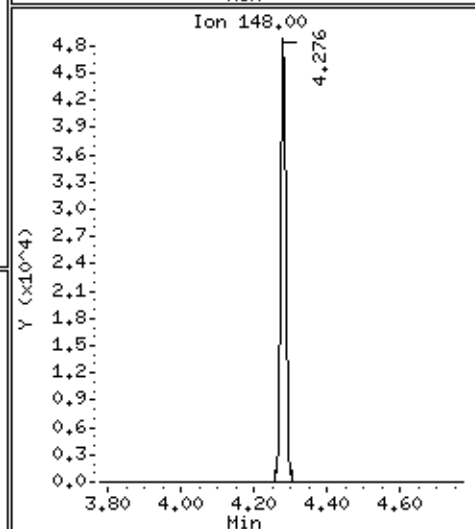
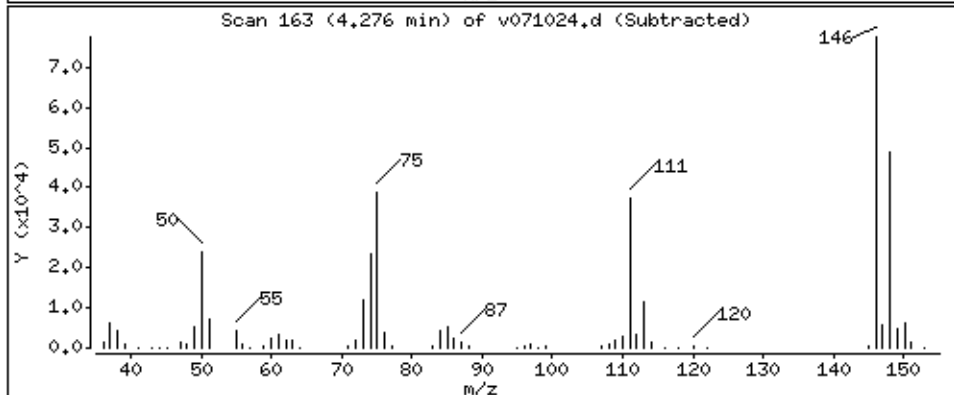
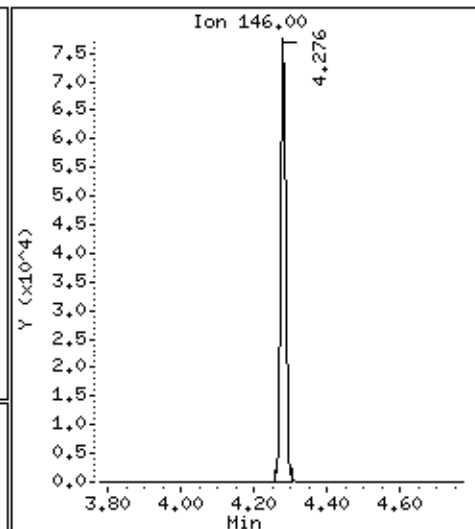
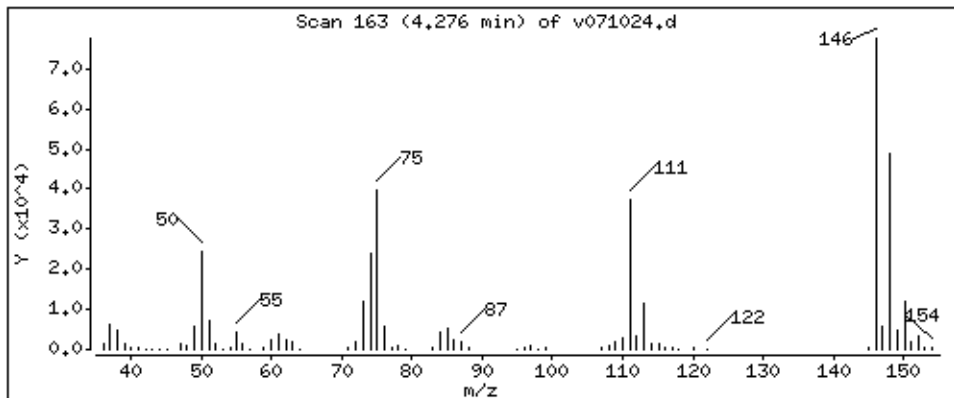
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

9 1,4-Dichlorobenzene*

Concentration: 37.54 ug



Date : 10-JUL-2009 22:12

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907122/123B/124B-LCS;LCS

Volume Injected (uL): 1.0

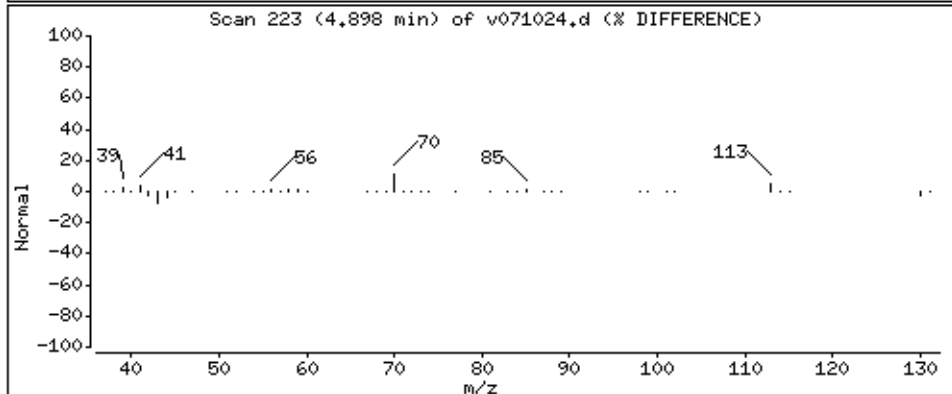
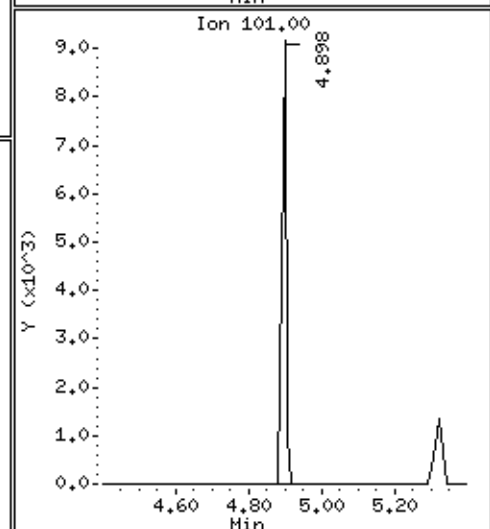
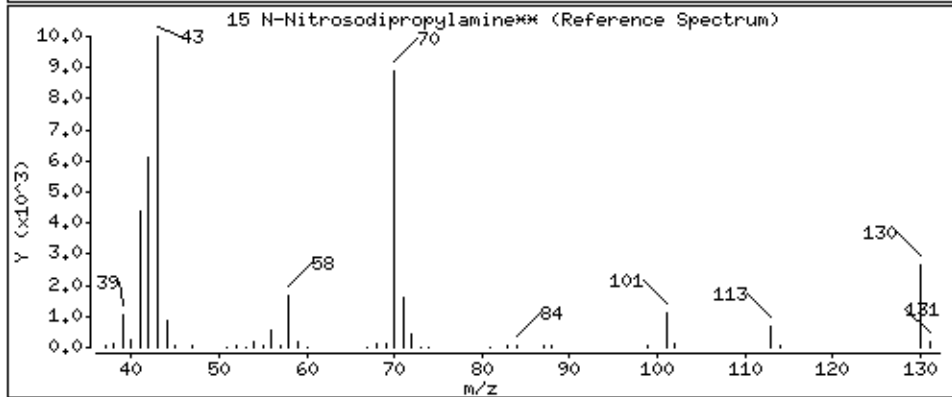
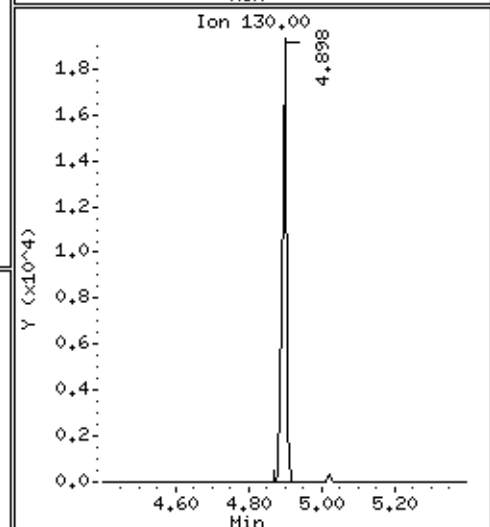
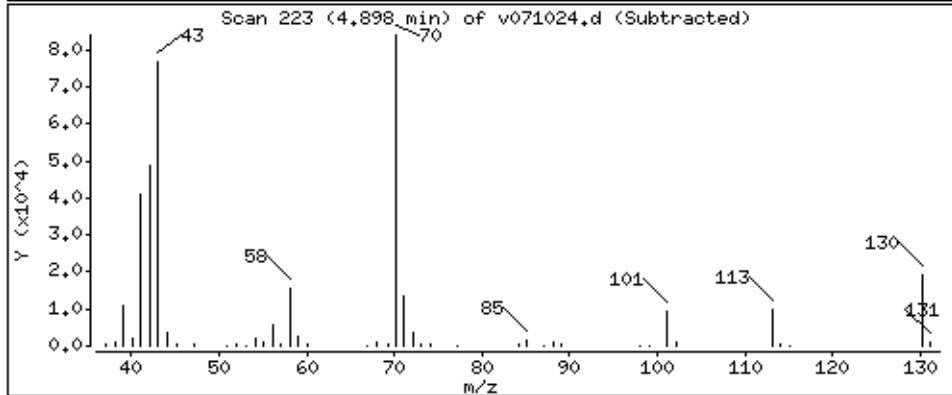
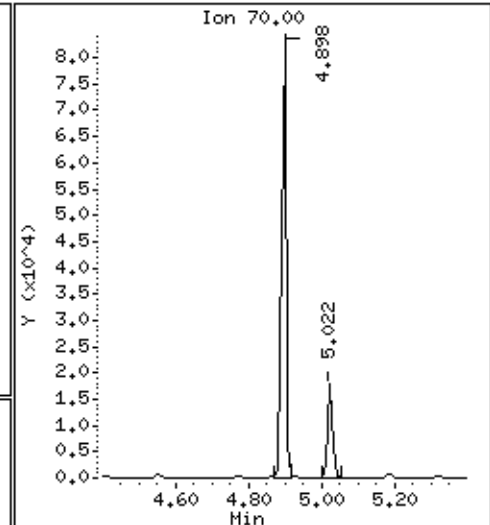
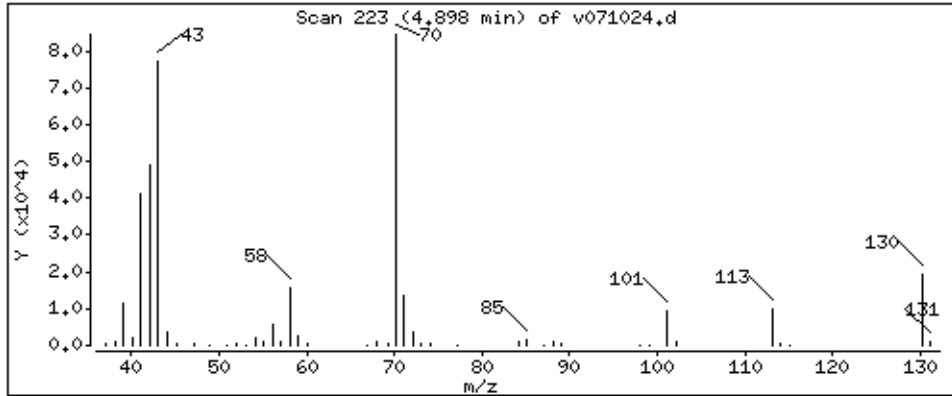
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

15 N-Nitrosodipropylamine**

Concentration: 43.14 ug



Date : 10-JUL-2009 22:12

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907122/123B/124B-LCS;LCS

Volume Injected (uL): 1.0

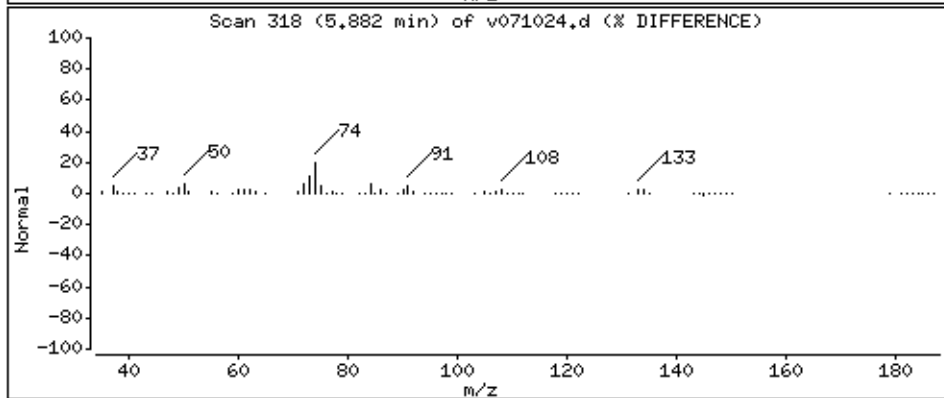
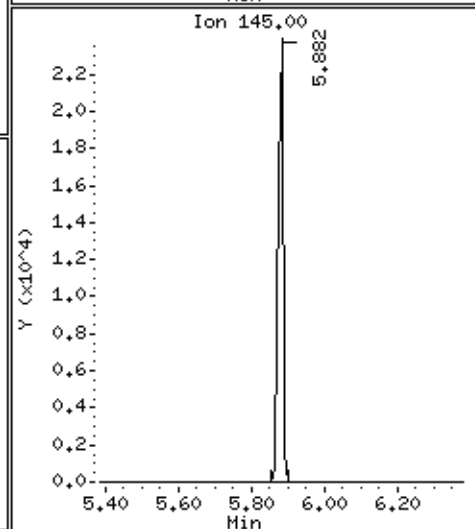
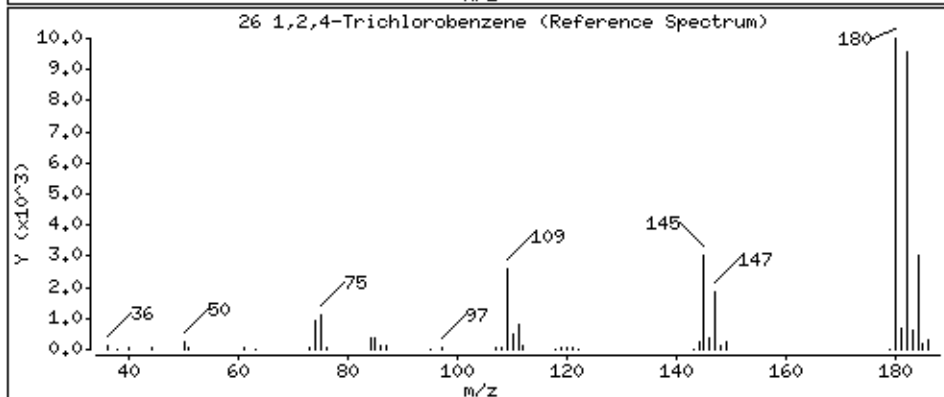
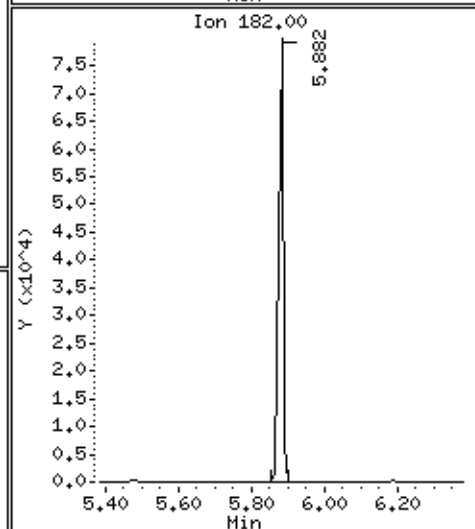
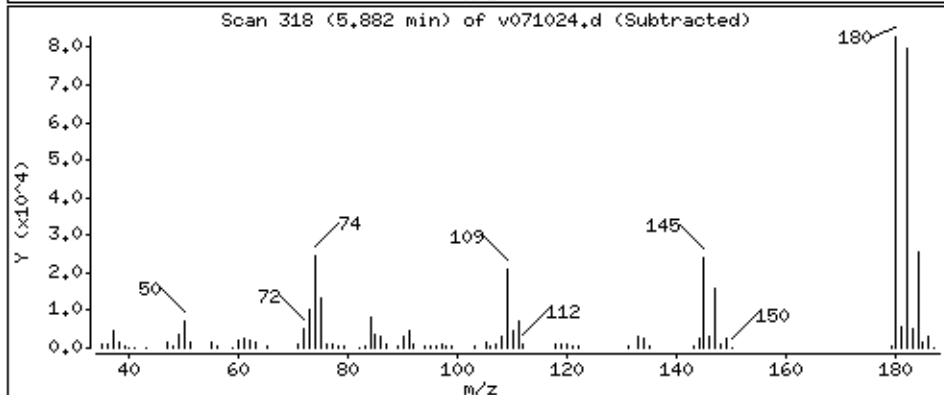
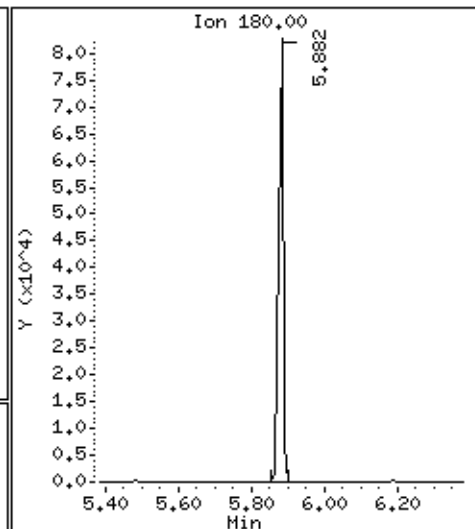
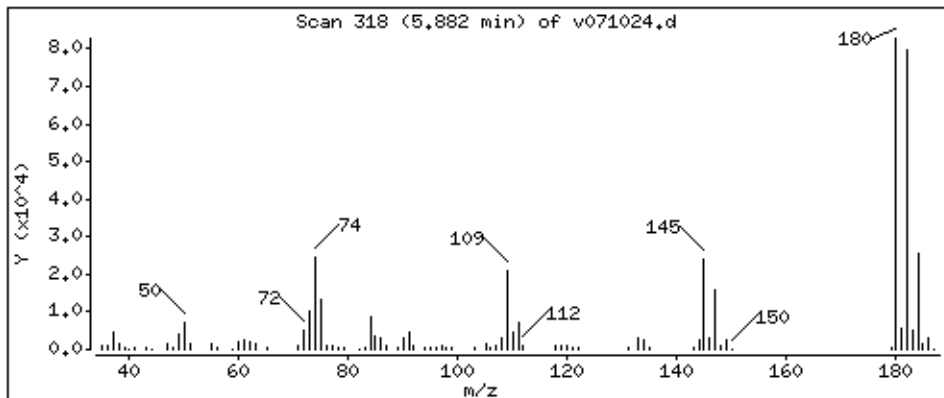
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 37.42 ug



Date : 10-JUL-2009 22:12

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907122/123B/124B-LCS;LCS

Volume Injected (uL): 1.0

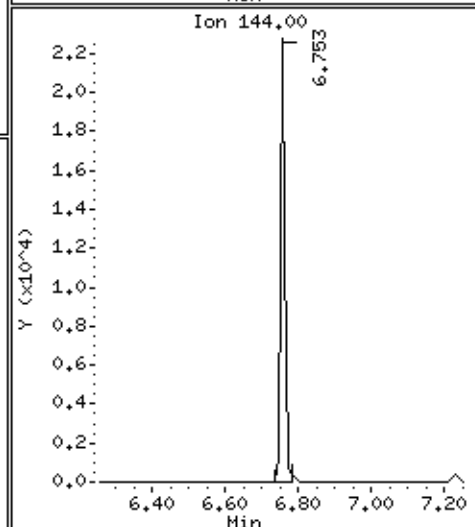
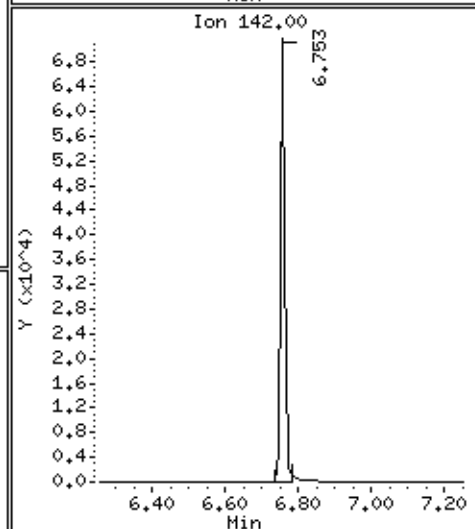
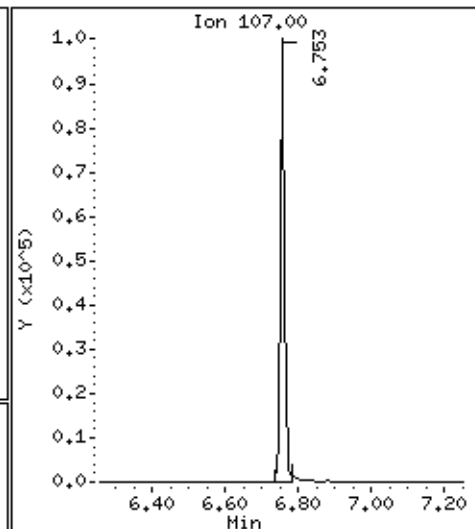
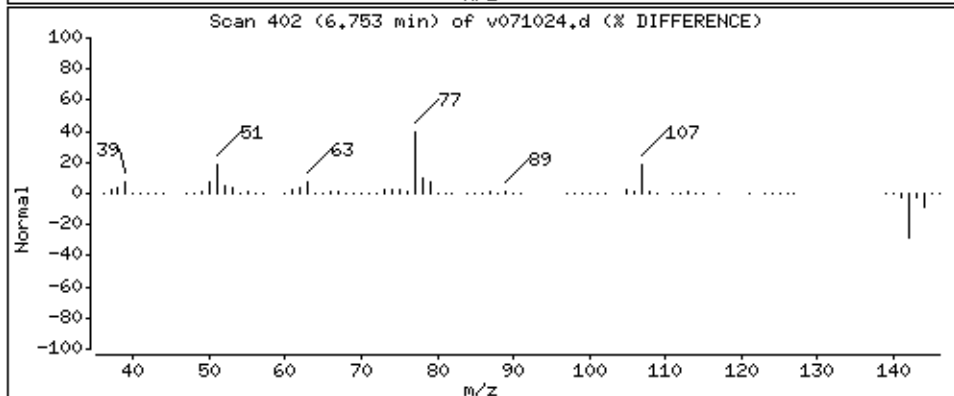
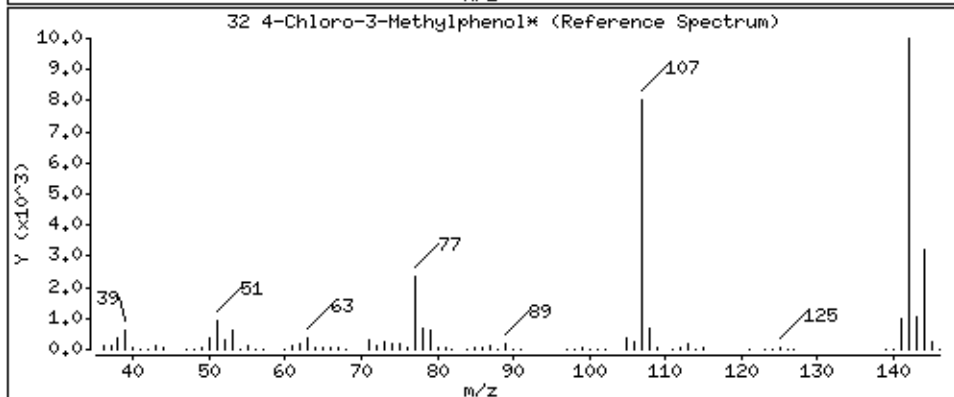
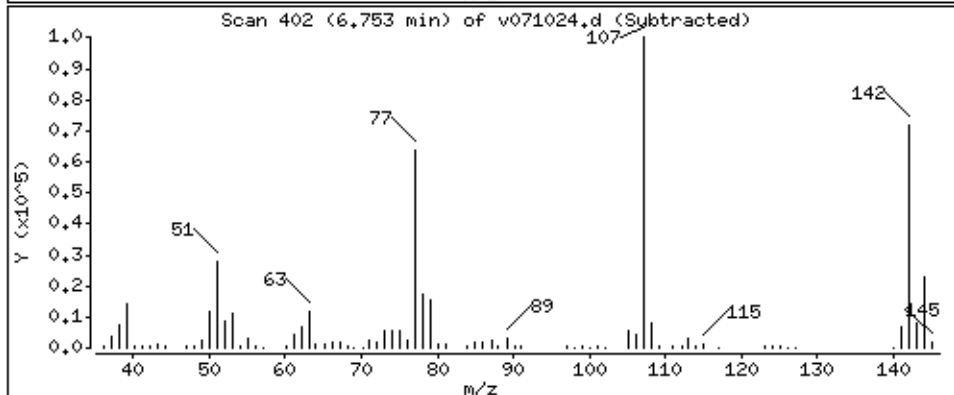
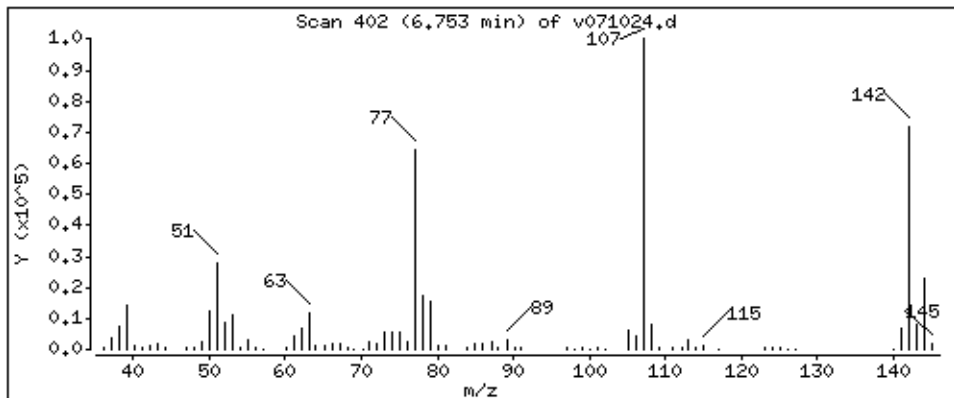
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

32 4-Chloro-3-Methylphenol*

Concentration: 43.17 ug



Date : 10-JUL-2009 22:12

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907122/123B/124B-LCS;LCS

Volume Injected (uL): 1.0

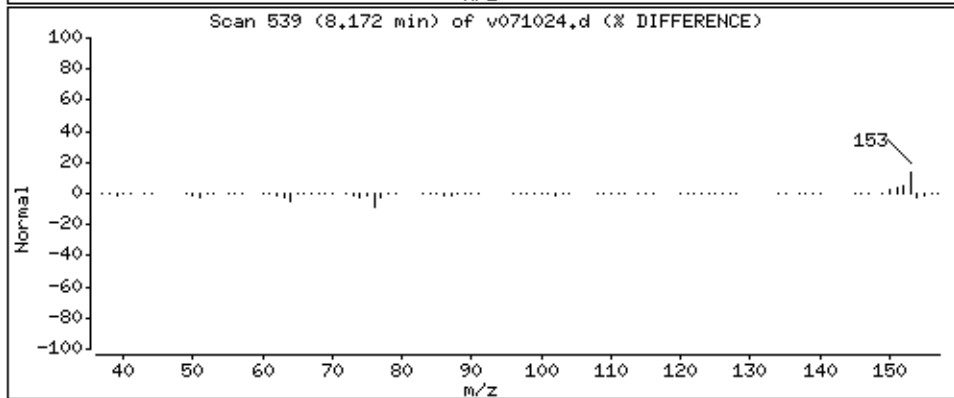
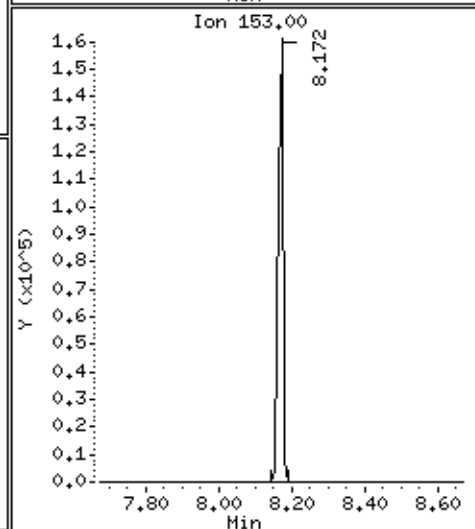
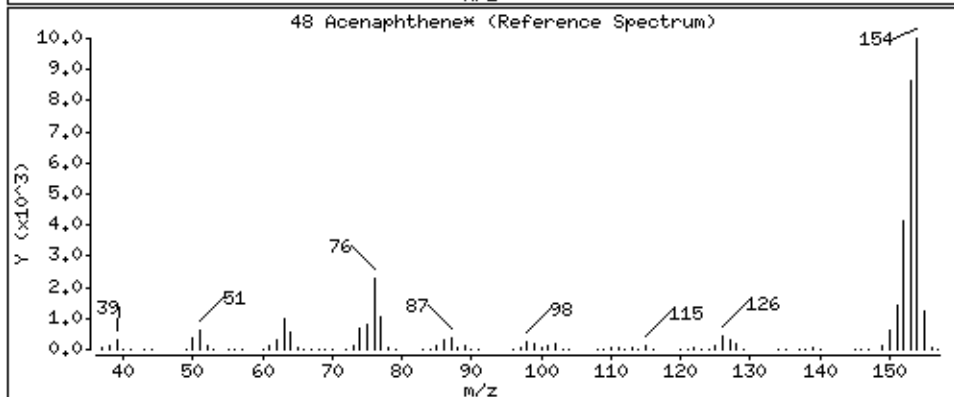
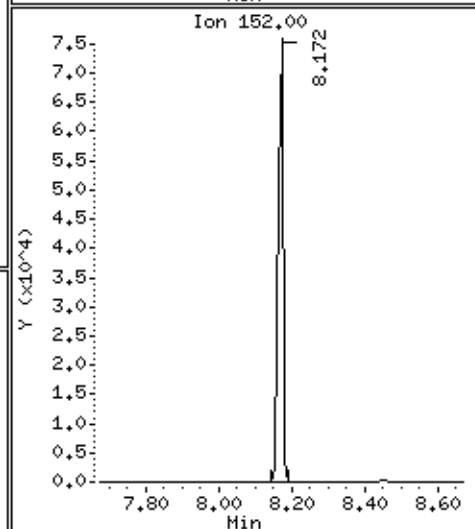
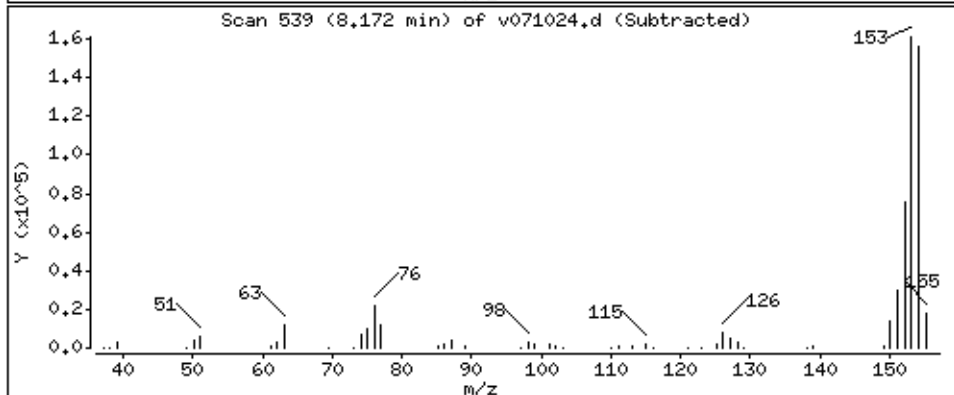
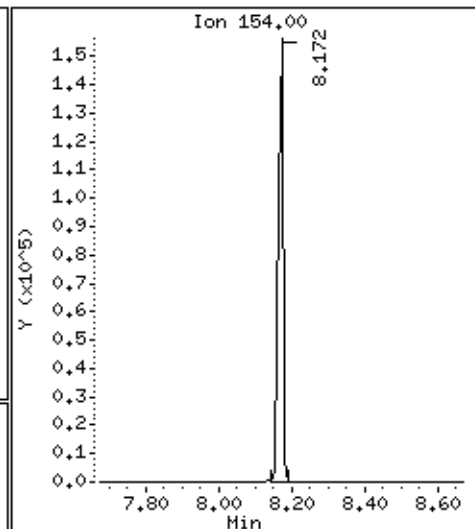
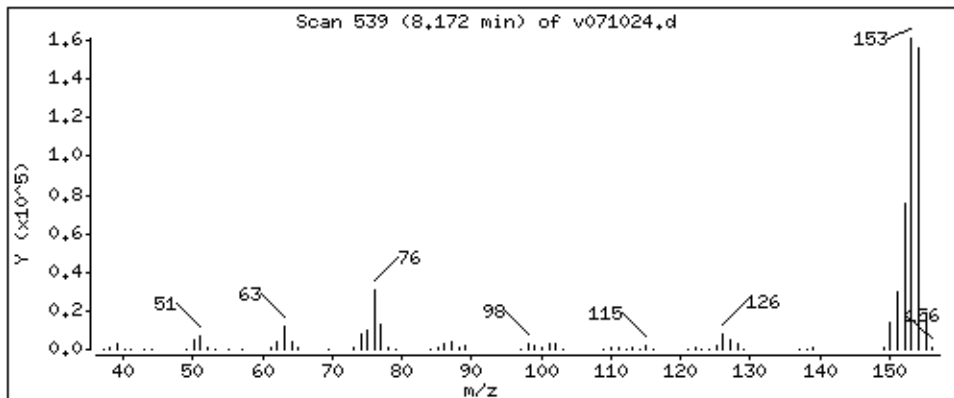
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

48 Acenaphthene*

Concentration: 38.80 ug



Date : 10-JUL-2009 22:12

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907122/123B/124B-LCS;LCS

Volume Injected (uL): 1.0

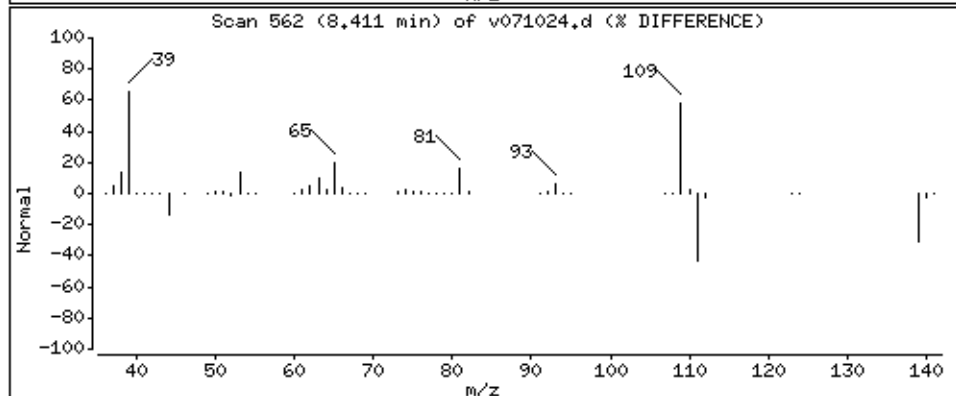
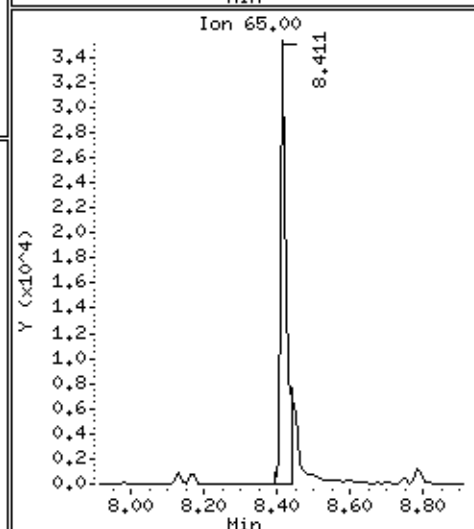
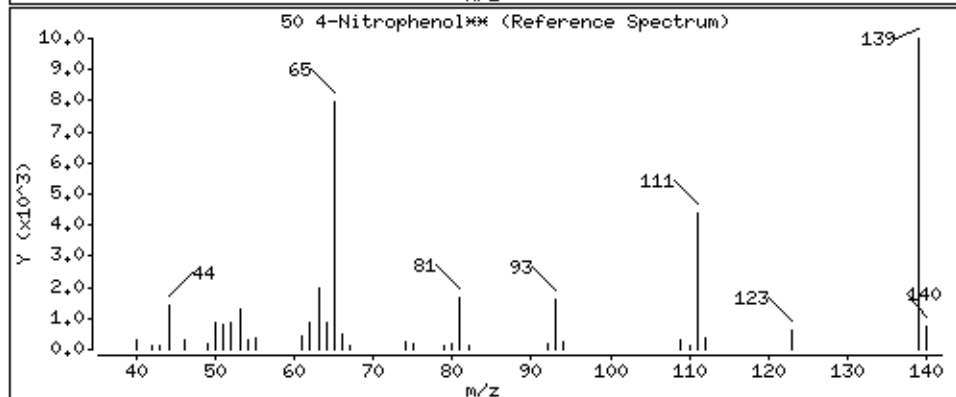
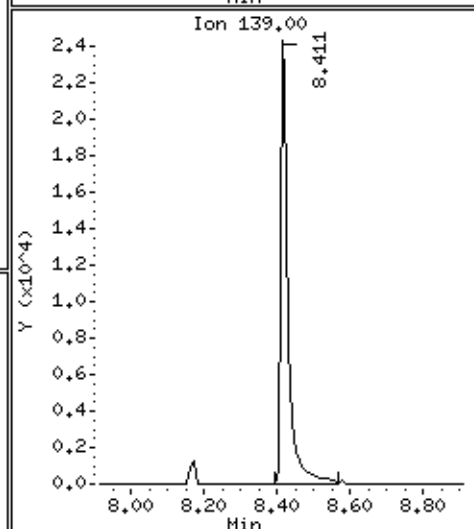
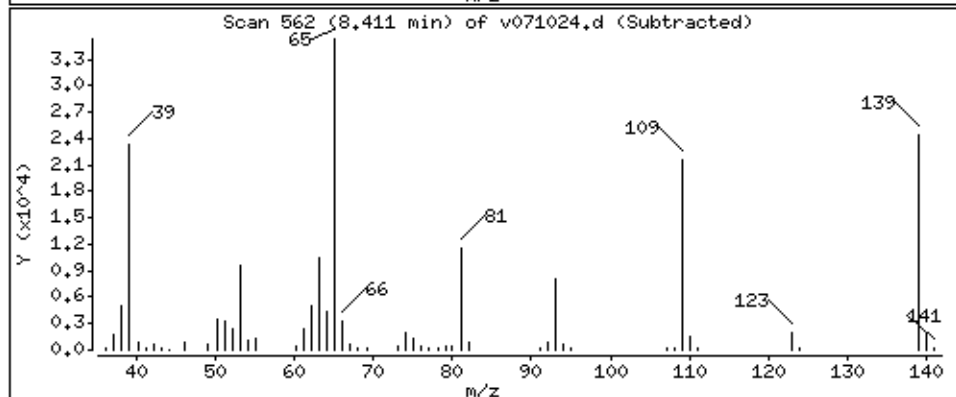
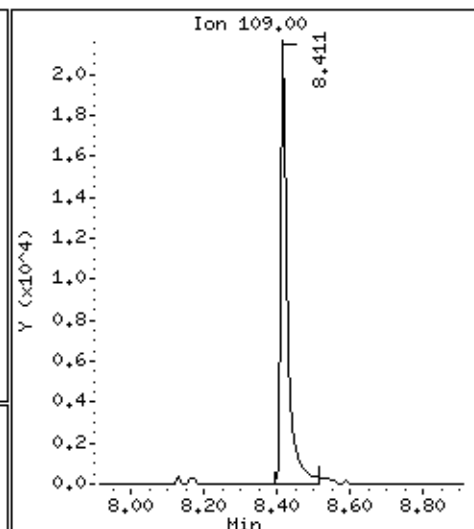
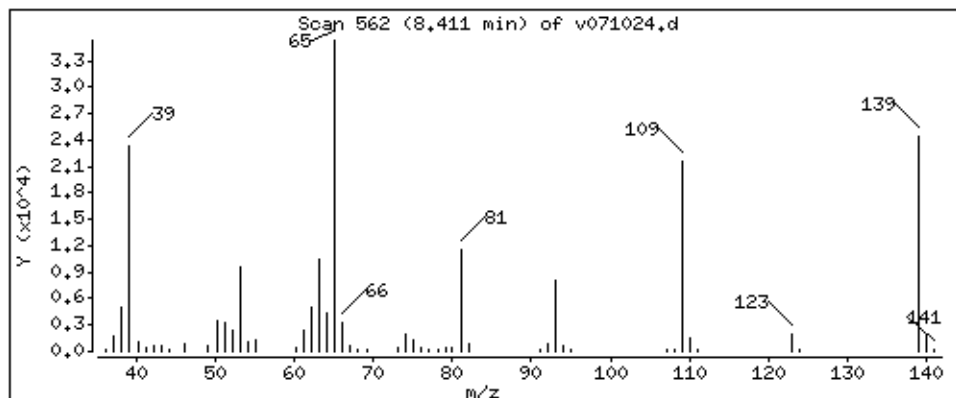
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

50 4-Nitrophenol**

Concentration: 37.47 ug



Date : 10-JUL-2009 22:12

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907122/123B/124B-LCS;LCS

Volume Injected (uL): 1.0

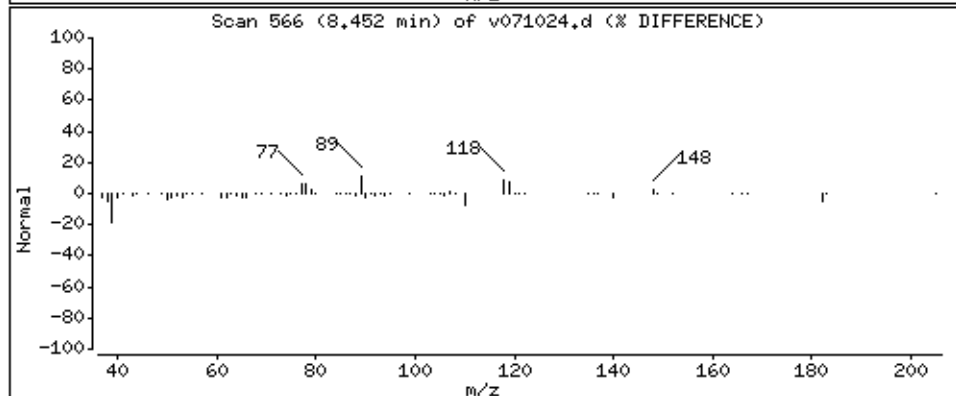
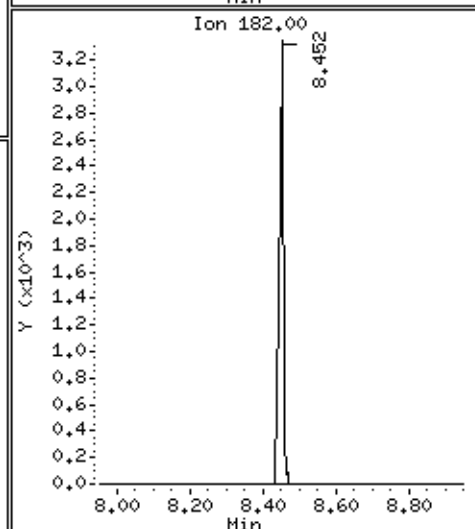
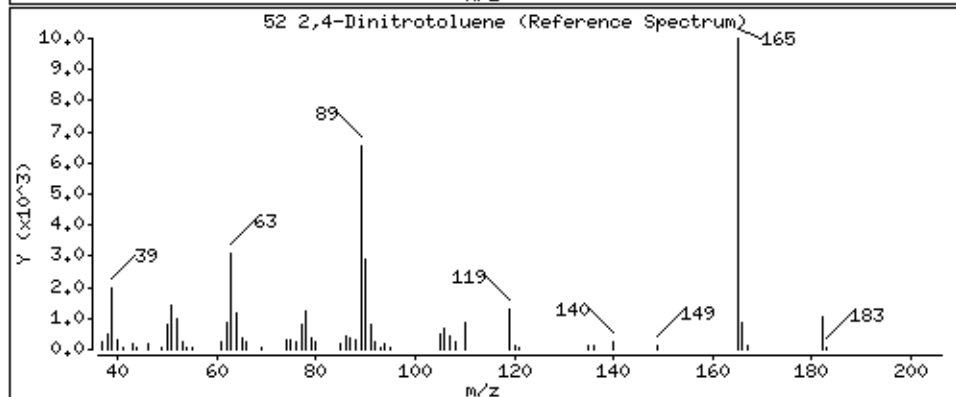
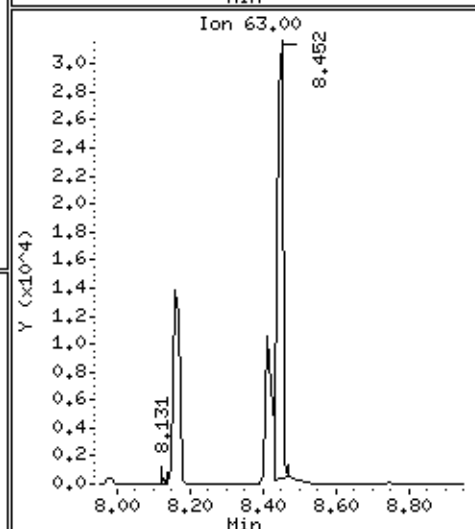
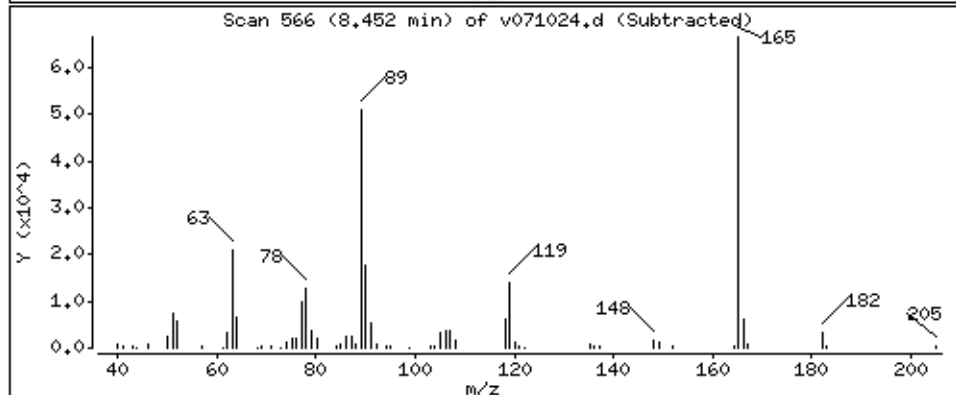
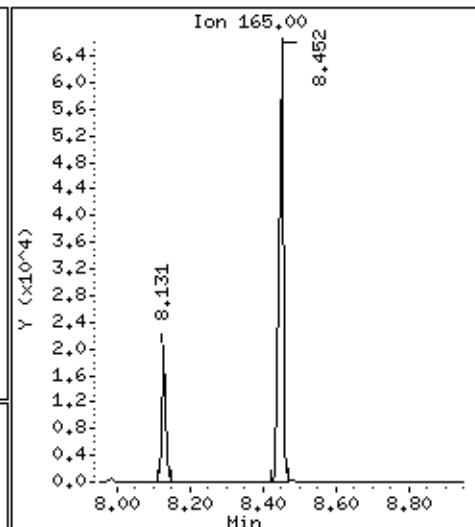
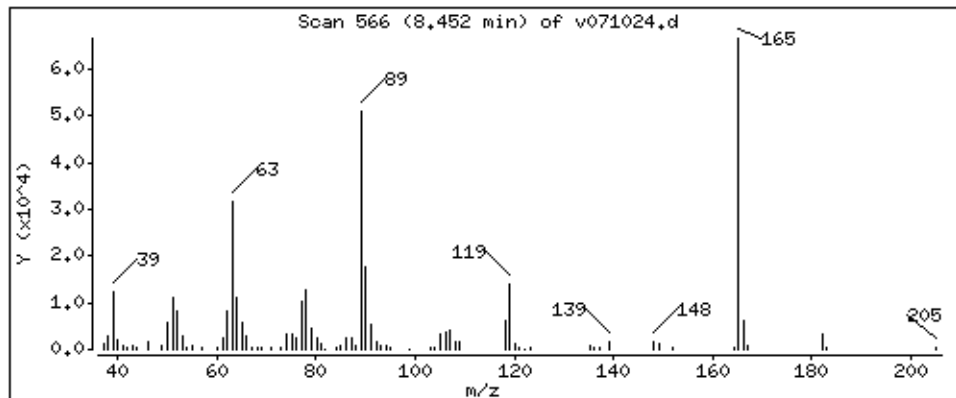
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

52 2,4-Dinitrotoluene

Concentration: 39.80 ug



Date : 10-JUL-2009 22:12

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907122/123B/124B-LCS;LCS

Volume Injected (uL): 1.0

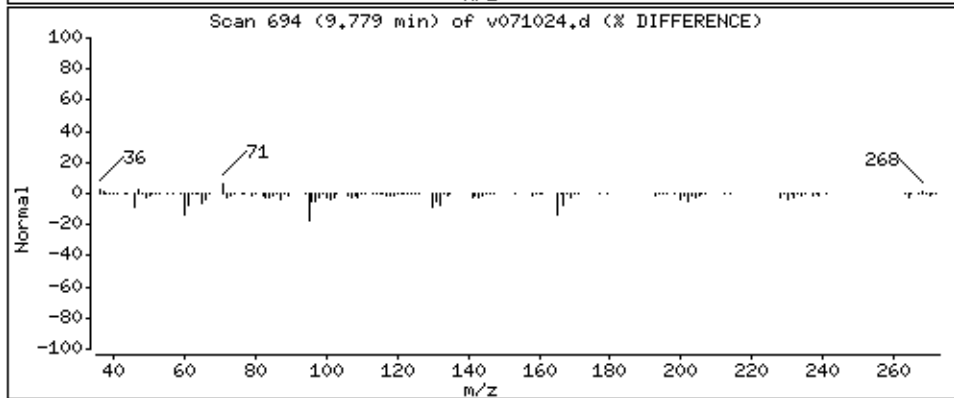
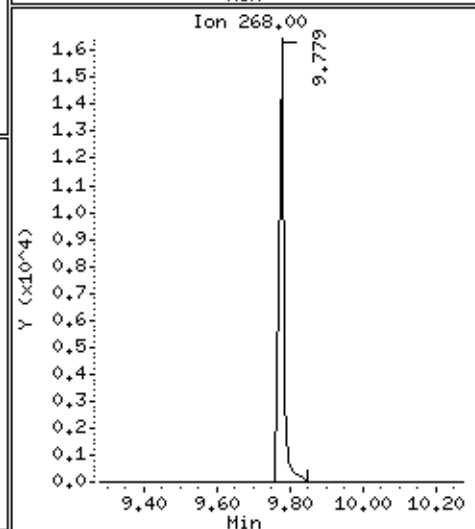
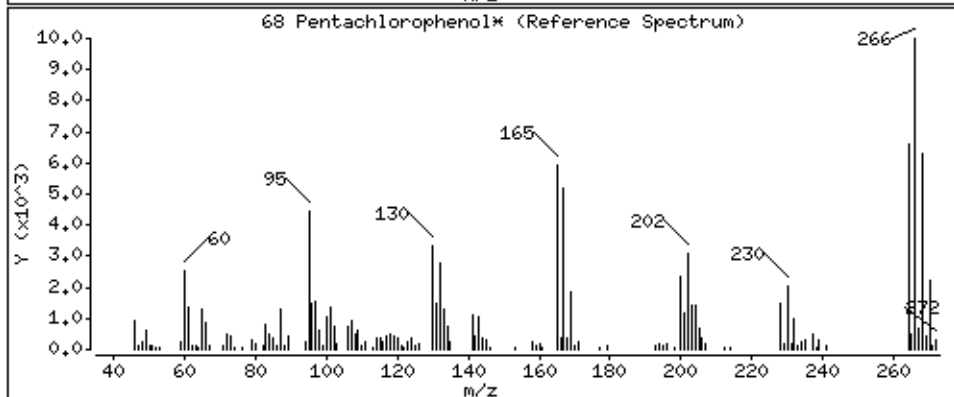
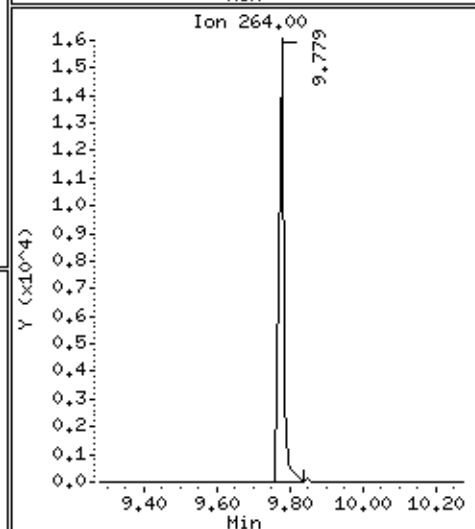
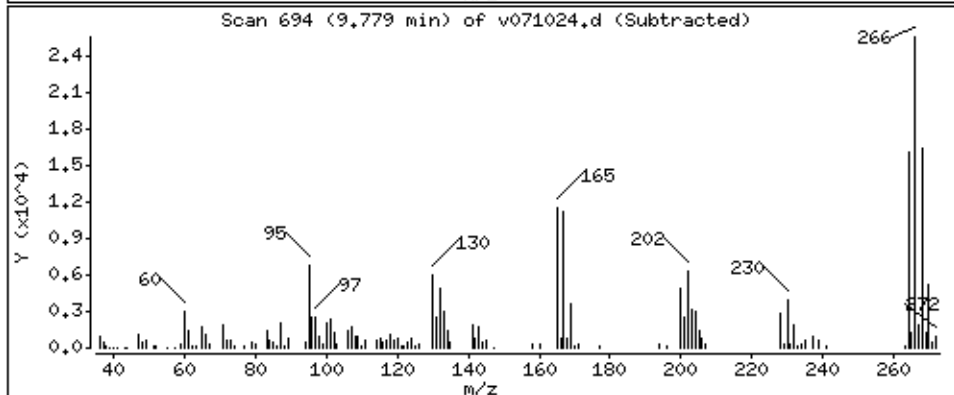
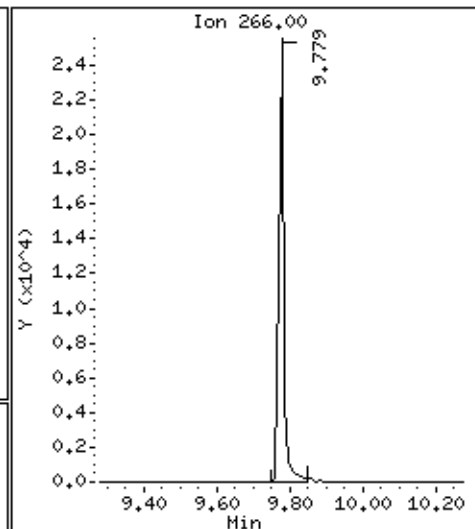
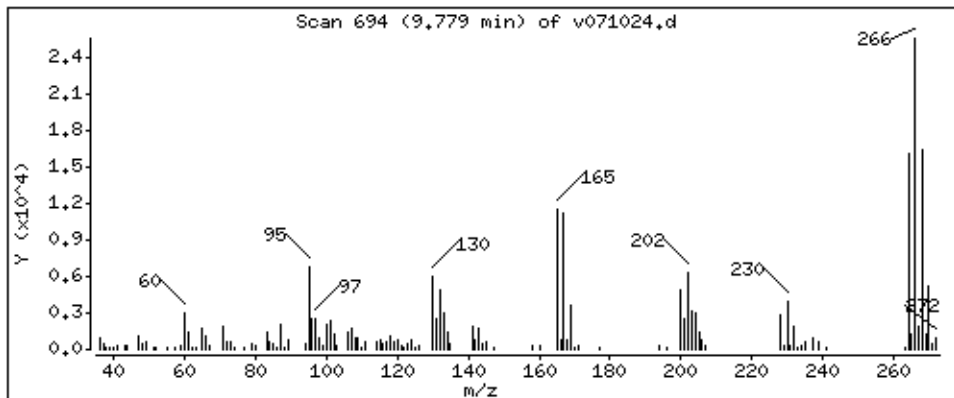
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

68 Pentachlorophenol*

Concentration: 36.63 ug



Date : 10-JUL-2009 22:12

Client ID: LCS

Instrument: msdv.i

Sample Info: ;0907122/123B/124B-LCS;LCS

Volume Injected (uL): 1.0

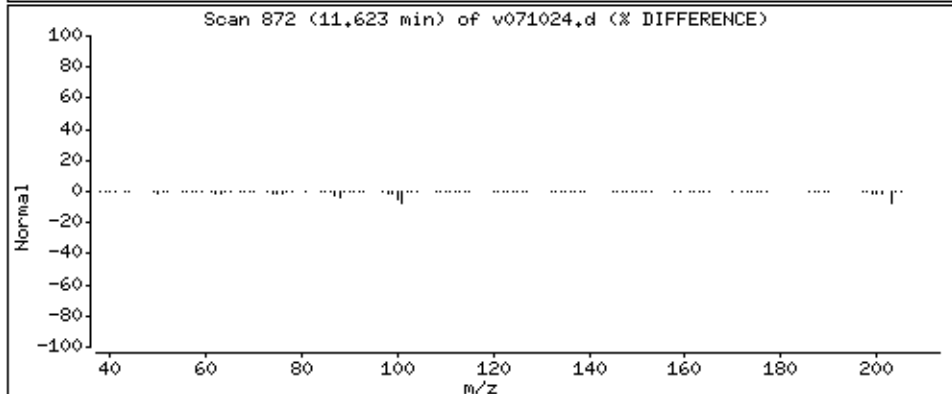
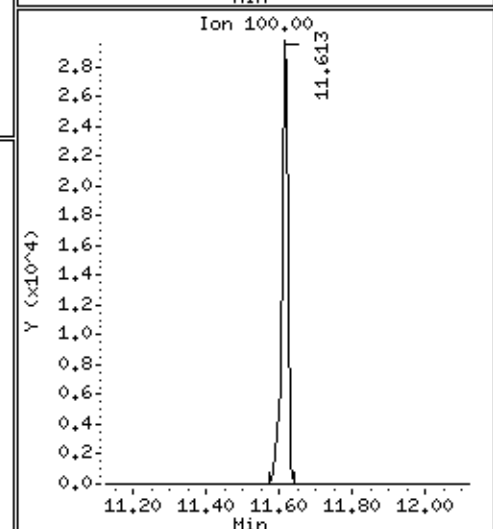
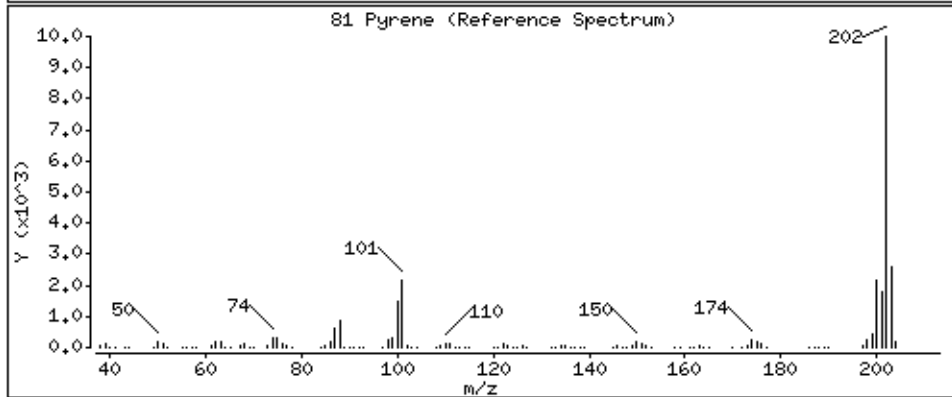
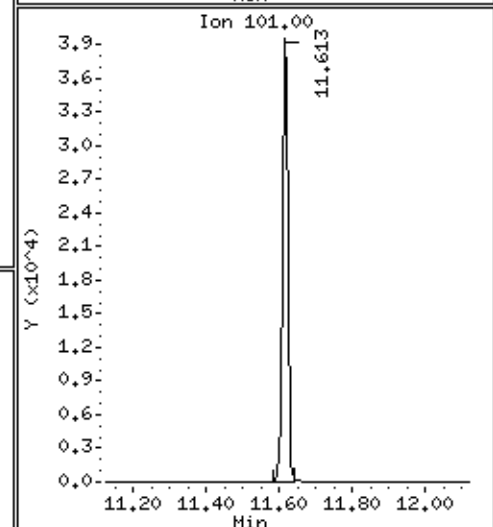
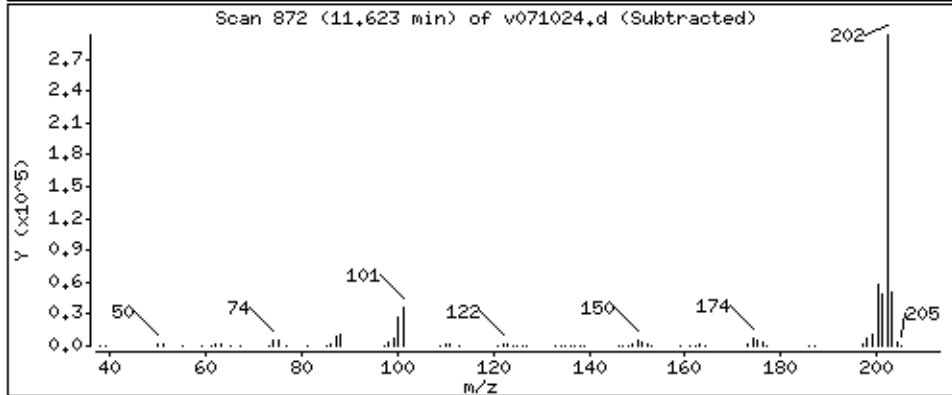
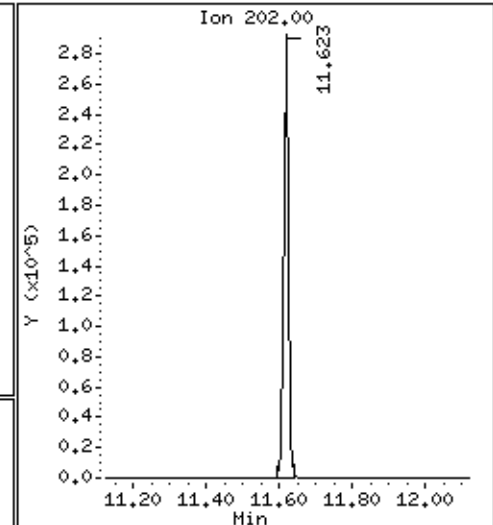
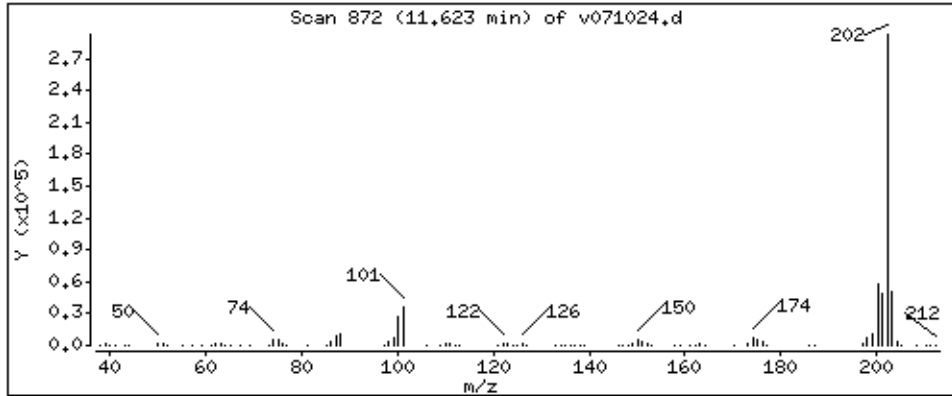
Operator: rn

Column phase: DB-5.625

Column diameter: 0.25

81 Pyrene

Concentration: 40.85 ug



Solvent: Dichloromethane
Solvent Lot #: 090321
Concentrated By: MJS
Date Concentrated: 7/10/09

Water Bath Temperature °C	Initial Temp °C	Final Temp °C
	65 °C	8 °C

Comments:

*PAH Surrogate Compounds: Fluorene- d_{10} and Pyrene- d_{10}

Method: TD13 / TD13SIM

m/z ION ABUNDANCE CRITERIA

% RELATIVE ABUNDANCE

198	Base peak, 100.00% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.46
68	Less than 2.00% of mass 69	0.78 (1.43) 1
69	Less than 99.90% of mass 198	54.40
70	Less than 2.00% of mass 69	0.00 (0.00) 1
127	40.00 - 60.00% of mass 198	55.09
197	Less than 1.00% of mass 198	0.40
199	5.00 - 9.00% of mass 198	6.70
275	10.00 - 30.00% of mass 198	21.99
365	Greater than 1.00% of mass 198	2.94
441	Present, but less than mass 443	9.08
442	40.00 - 100.00% of mass 198	65.58
443	17.00 - 23.00% of mass 442	13.03 (19.87) 2

1 - value in parenthesis is % mass 69 2 - value in parenthesis is % mass 442

Instrument ID: MSD-VDFTPP File ID: V071007DFTPP Injection Date: 7/10/09DFTPP Injection Time: 1435TD13A / TD13SIM

IS#	Area Counts	
1,4-Dichlorobenzene-d ₄	102673	na
Naphthalene-d ₈	236468	34036
Acenaphthene-d ₁₀	129070	17493
Phenanthrene-d ₁₀	248448	31594
Chrysene-d ₁₂	208197	23615
Perylene-d ₁₂	167433	17672

Injection Volume: 1.0 µL

u s e	File #	Sample / Client Name	Vial #	Dilution Factor	Date Analyzed	Time Analyzed	Initials	Comments
1 ✓	V071006	Dem Wash	1	1.0	7/10/09	1419	mm	
2 ✓	07	1685-10C-50	2			1435		
3 ✓	08	1685-159-50:CCV	3			1454		
4 ✓	09	Dem Blank	4			1522		
5 ✓	10	1685-124-4.0 ^{sim} CCV	5			1552		
6 ✓	11	Dem Blank: sim	6			1619		
7 ✓	12	0907047-Blank	7			1644		
8 ✓	13	0907044-01A	8			1711		confirmed.
9 ✓	14	P090702	9			1739		cut
10 ✓	15	0907030b-Blank	10			1809		
11 ✓	16	-LCS	11			1836		
12 ✓	17	-01A	12			1903		
13 ✓	18	-02A	13			1931		
14 ✓	19	-03A	14			1958		
15 X	20	-04A	15			2025		Acenaphthene/phenanthrene over range
16 X	21	-04AA	15			2053		↓
17 ✓	22	-05A	16			2120		
18 ✓	23	0907123b/124b 0907122-Blank	17			2145		
19 ✓	24	↓ -LCS	18			2212		
20 ✓	25	0907122-01A	19			2239		
21 ✓	26	1 -01AA	19			2306		
22 ✓	27	0907123b-03A	20			2333		

Calculation Check:

$$\text{ng of compound} = \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{154984}{102673} \times \frac{40.0}{1.19843} = 50.38 \checkmark$$

File ID: V071008Compound: PhenolInitials: RTM

Signed

Date

7/13/09 ... cont'd on pg. 3

% RELATIVE ABUNDANCE

Instrument ID: MSD-V
 DFTPP File ID: _____
 DFTPP Injection Date: _____
 DFTPP Injection Time _____

IS# :	Area Counts
1,4-Dichlorobenzene-d ₄ :	
Naphthalene-d ₈ :	
Acenaphthene-d ₁₀ :	
Phenanthrene-d ₁₀ :	
Chrysene-d ₁₂ :	
Perylene-d ₁₂ :	

2 - value in parenthesis is %

Injection Volume: 1.0 μ L

an 7/13/09

see Header info pg. 2

[illegible]

7/13/02

$$\text{ng of compound} = \frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{154984}{102673} \times \frac{40.0}{1.19843} = 50.38$$

Compound: Phenol

Initials: nm

Penyondan

Date 7/13/09

Air Toxics Ltd.

Data file : /chem/msdv.i/08jul09.b/v070802.d

Lab Smp Id: DFTPP 50ng

Client Smp ID: DFTPP 50ng

Inj Date : 08-JUL-2009 13:51

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-10c-50;dftpp

Misc Info :

Comment :

Method : /chem/msdv.i/08jul09.b/dftpp.m

Meth Date : 04-May-2009 14:11 rnoonan

Quant Type: ISTD

Cal Date :

Cal File:

Als bottle: 2

QC Sample: DFTPP

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Sample Matrix: AIR

Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable

Local Compound Variable

CONCENTRATIONS								
		ON-COL		FINAL				
RT	EXP RT	(REL RT)	MASS	RESPONSE	(ug/L)	(ug)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====
1 dftpp				CAS #:				
5.274	5.502	(0.000)	198	28100		100.00-	100.00	100.00
5.274	5.502	(0.000)	51	13735		30.00-	60.00	48.88
5.274	5.502	(0.000)	68	201		0.00-	2.00	1.36
5.274	5.502	(0.000)	69	14758		0.00-	99.90	52.52
5.274	5.502	(0.000)	70	0		0.00-	2.00	0.00
5.274	5.502	(0.000)	127	15212		40.00-	60.00	54.14
5.274	5.502	(0.000)	197	190		0.00-	1.00	0.68
5.274	5.502	(0.000)	199	1841		5.00-	9.00	6.55
5.274	5.502	(0.000)	275	6344		10.00-	30.00	22.58
5.274	5.502	(0.000)	365	857		1.00-	0.00	3.05
5.274	5.502	(0.000)	441	2895		0.01-	99.99	76.71
5.274	5.502	(0.000)	442	19912		40.00-	100.00	70.86
5.274	5.502	(0.000)	443	3774		17.00-	23.00	18.95

Date : 08-JUL-2009 13:51

Client ID: DFTPP 50ng

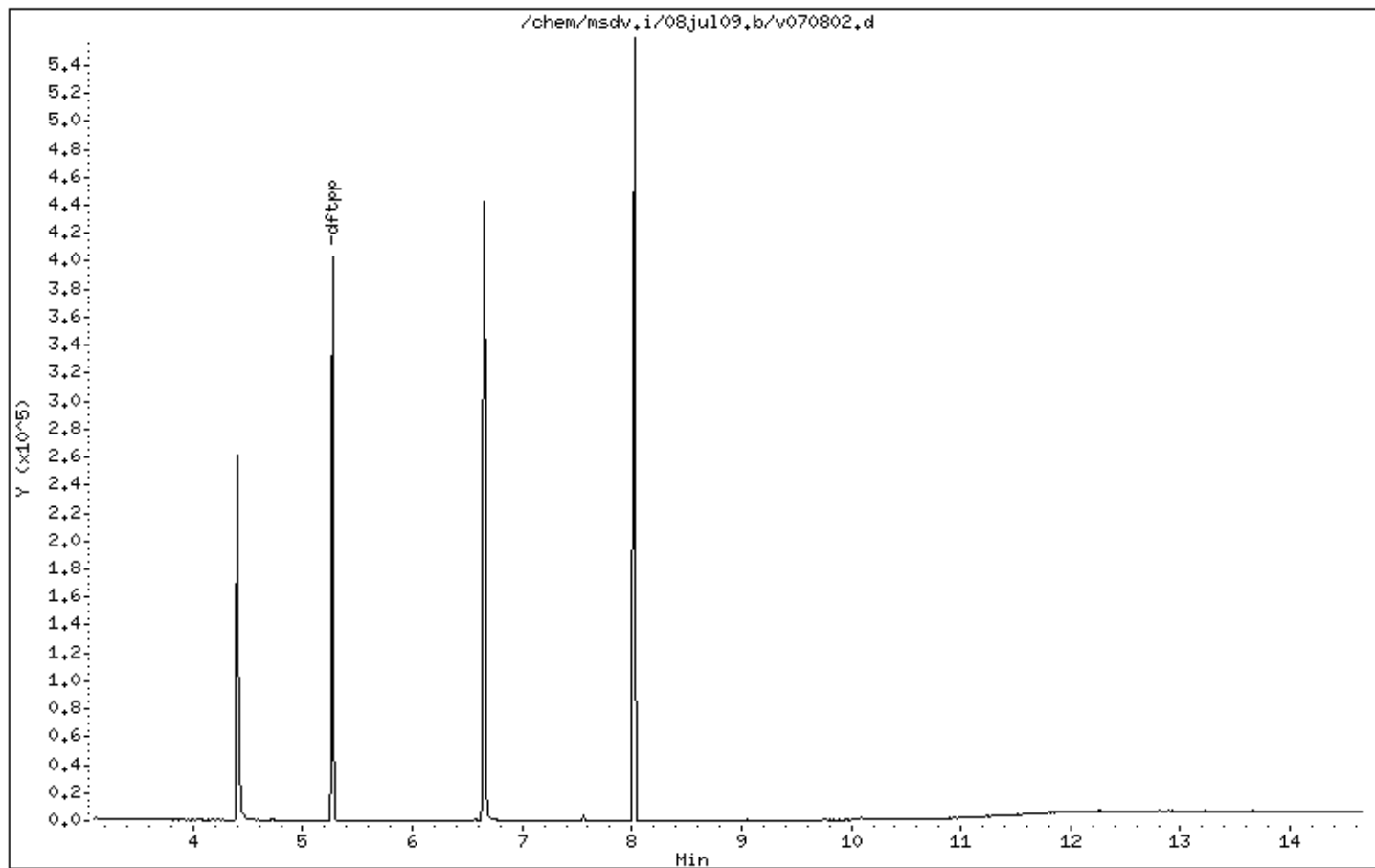
Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25



Date : 08-JUL-2009 13:51

Client ID: DFTPP 50ng

Instrument: msdv.i

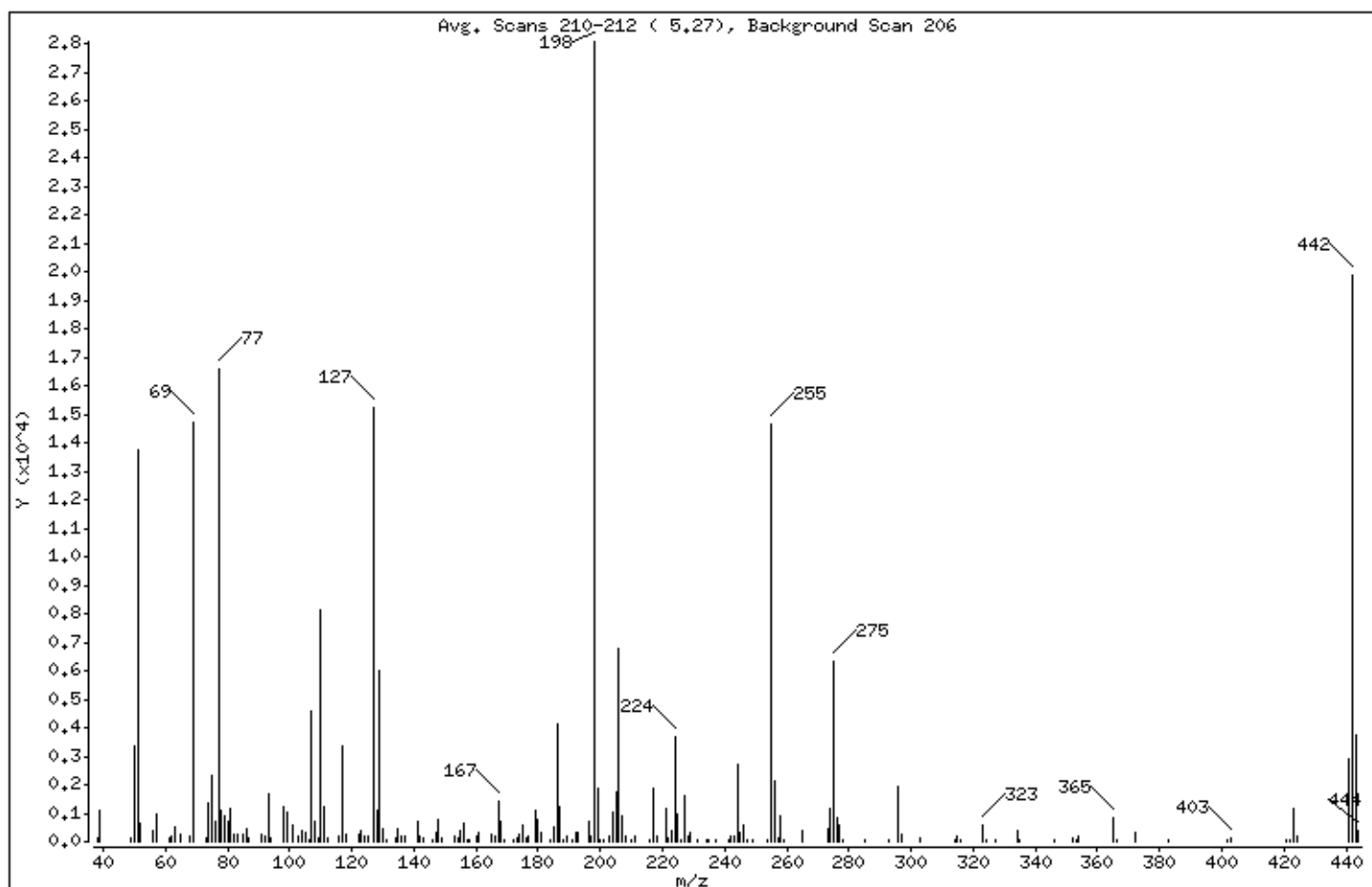
Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	48.88
68	Less than 2.00% of mass 69	0.72 (1.36)
69	Less than 99.90% of mass 198	52.52
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	54.14
197	Less than 1.00% of mass 198	0.68
199	5.00 - 9.00% of mass 198	6.55
275	10.00 - 30.00% of mass 198	22.58
365	Greater than 1.00% of mass 198	3.05
441	Present, but less than mass 443	10.30
442	40.00 - 100.00% of mass 198	70.86
443	17.00 - 23.00% of mass 442	13.43 (18.95)

Date : 08-JUL-2009 13:51

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

Data File: v070802.d

Spectrum: Avg. Scans 210-212 (5.27), Background Scan 206

Location of Maximum: 198.00

Number of points: 181

m/z	Y	m/z	Y	m/z	Y	m/z	Y

38.00	154	117.00	3329	186.00	4115	255.00	14645
39.00	1071	118.00	232	187.00	1204	256.00	2126
49.00	101	122.00	238	188.00	62	257.00	103
50.00	3385	123.00	368	189.00	221	258.00	910
51.00	13735	124.00	167	191.00	64	259.00	76

52.00	650	125.00	163	192.00	300	265.00	356
56.00	414	127.00	15212	193.00	316	273.00	448
57.00	951	128.00	1121	196.00	736	274.00	1144
61.00	156	129.00	6027	197.00	190	275.00	6344
62.00	168	130.00	453	198.00	28096	276.00	854

63.00	523	131.00	54	199.00	1841	277.00	596
65.00	262	134.00	157	200.00	73	278.00	54
68.00	201	135.00	421	201.00	61	285.00	52
69.00	14758	136.00	179	203.00	183	293.00	78
73.00	105	137.00	209	204.00	1014	296.00	1923

74.00	1369	141.00	731	205.00	1712	297.00	237
75.00	2306	142.00	217	206.00	6797	303.00	108
76.00	741	143.00	148	207.00	885	314.00	50
77.00	16616	146.00	61	208.00	225	315.00	179
78.00	1102	147.00	327	210.00	50	316.00	72

79.00	930	148.00	798	211.00	224	323.00	595
80.00	705	149.00	155	216.00	75	324.00	66
81.00	1155	153.00	201	217.00	1888	327.00	60
82.00	257	154.00	157	218.00	202	334.00	401
83.00	276	155.00	384	221.00	1137	335.00	51

85.00	228	156.00	625	222.00	133	346.00	70
86.00	429	157.00	53	223.00	386	352.00	121
87.00	139	158.00	72	224.00	3701	353.00	77
91.00	234	160.00	208	225.00	941	354.00	162
92.00	225	161.00	319	226.00	57	365.00	857

93.00	1700	165.00	242	227.00	1612	366.00	71
94.00	107	166.00	199	228.00	192	372.00	309
98.00	1197	167.00	1421	229.00	298	383.00	50
99.00	1020	168.00	707	231.00	85	402.00	74
101.00	568	169.00	63	234.00	57	403.00	161

Data File: /chem/msdv.i/08jul09.b/v070802.d

Page 4

Date : 08-JUL-2009 13:51

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

Data File: v070802.d

Spectrum: Avg. Scans 210-212 (5.27), Background Scan 206

Location of Maximum: 198.00

Number of points: 181

m/z	Y	m/z	Y	m/z	Y	m/z	Y
103.00	178	172.00	56	235.00	71	421.00	86
104.00	363	173.00	153	237.00	77	422.00	81
105.00	317	174.00	253	241.00	60	423.00	1194
106.00	51	175.00	596	242.00	169	424.00	201
107.00	4610	176.00	145	243.00	173	441.00	2895
108.00	682	177.00	225	244.00	2718	442.00	19912
109.00	120	179.00	1122	245.00	299	443.00	3774
110.00	8127	180.00	764	246.00	567	444.00	363
111.00	1252	181.00	321	247.00	62		
112.00	154	184.00	58	249.00	54		
116.00	221	185.00	505	254.00	72		

Air Toxics Ltd.

Data file : /chem/msdv.i/10jul09a.b/v071007.d

Lab Smp Id: DFTPP 50ng

Client Smp ID: DFTPP 50ng

Inj Date : 10-JUL-2009 14:35

Operator : rn

Inst ID: msdv.i

Smp Info : ;1685-10c-50;dftpp

Misc Info :

Comment :

Method : /chem/msdv.i/10jul09a.b/dftpp.m

Meth Date : 04-May-2009 14:11 rnoonan

Quant Type: ISTD

Cal Date :

Cal File:

Als bottle: 2

QC Sample: DFTPP

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: all.sub

Target Version: 3.50

Sample Matrix: AIR

Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable

Local Compound Variable

CONCENTRATIONS								
		ON-COL		FINAL				
RT	EXP RT	(REL RT)	MASS	RESPONSE	(ug/L)	(ug)	TARGET RANGE	RATIO
==	=====	=====	====	=====	=====	=====	=====	=====
1 dftpp				CAS #:				
5.242	5.502	(0.000)	198	18451		100.00-	100.00	100.00
5.242	5.502	(0.000)	51	9310		30.00-	60.00	50.46
5.242	5.502	(0.000)	68	144		0.00-	2.00	1.43
5.242	5.502	(0.000)	69	10038		0.00-	99.90	54.40
5.242	5.502	(0.000)	70	0		0.00-	2.00	0.00
5.242	5.502	(0.000)	127	10165		40.00-	60.00	55.09
5.242	5.502	(0.000)	197	73		0.00-	1.00	0.40
5.242	5.502	(0.000)	199	1237		5.00-	9.00	6.70
5.242	5.502	(0.000)	275	4058		10.00-	30.00	21.99
5.242	5.502	(0.000)	365	543		1.00-	0.00	2.94
5.242	5.502	(0.000)	441	1676		0.01-	99.99	69.69
5.242	5.502	(0.000)	442	12101		40.00-	100.00	65.58
5.242	5.502	(0.000)	443	2405		17.00-	23.00	19.87

Date : 10-JUL-2009 14:35

Client ID: DFTPP 50ng

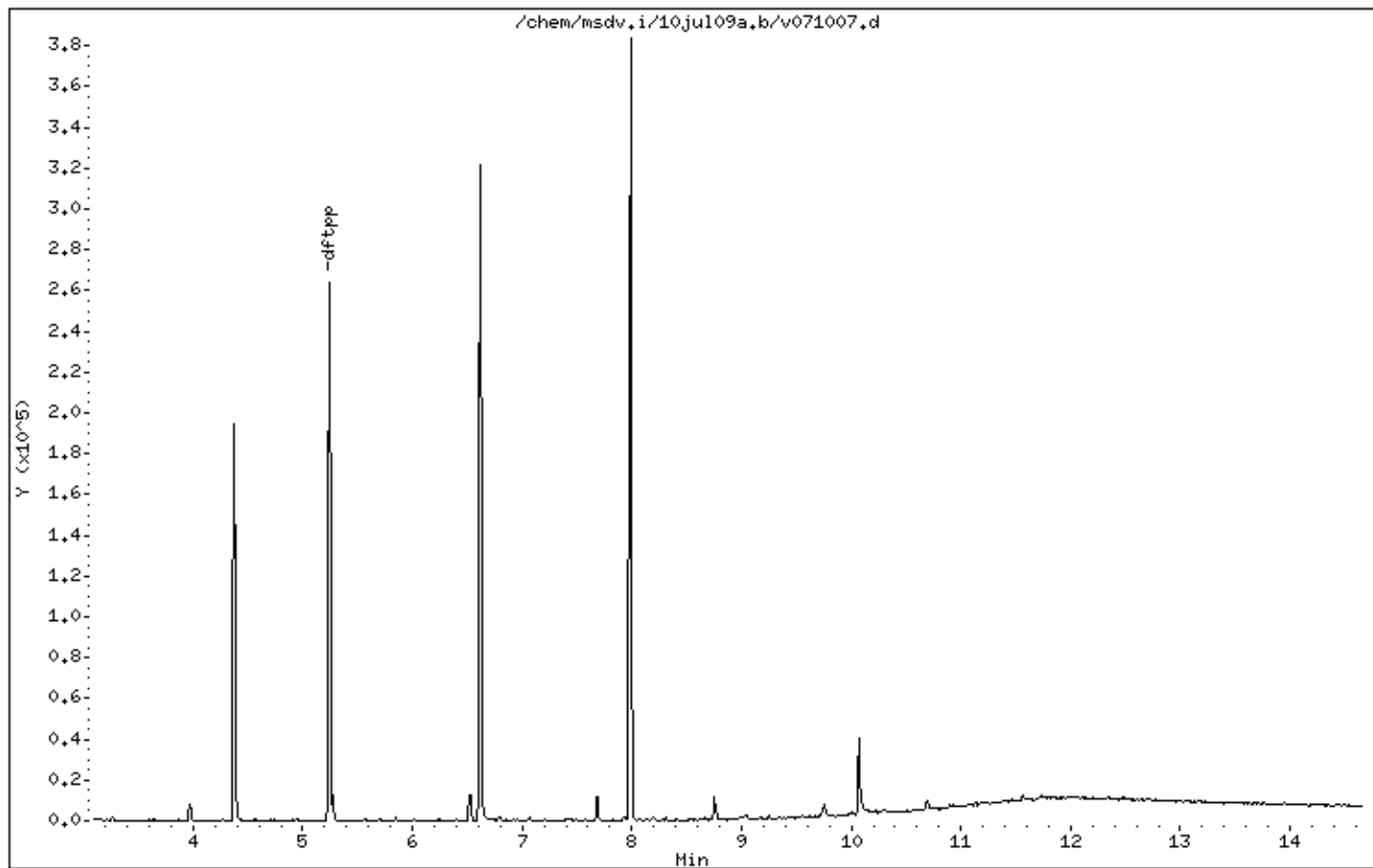
Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25



Date : 10-JUL-2009 14:35

Client ID: DFTPP 50ng

Instrument: msdv.i

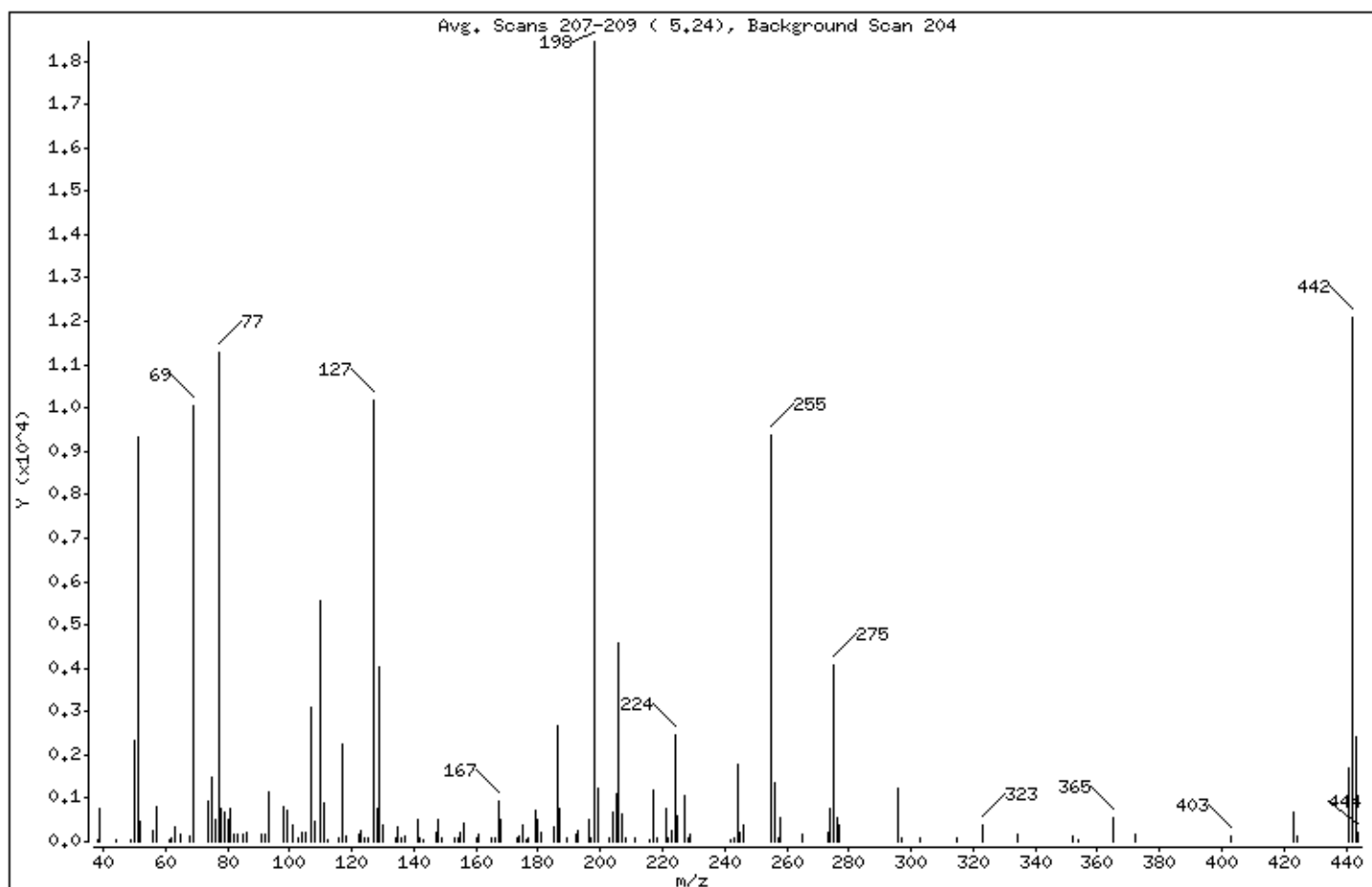
Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.46
68	Less than 2.00% of mass 69	0.78 (1.43)
69	Less than 99.90% of mass 198	54.40
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	55.09
197	Less than 1.00% of mass 198	0.40
199	5.00 - 9.00% of mass 198	6.70
275	10.00 - 30.00% of mass 198	21.99
365	Greater than 1.00% of mass 198	2.94
441	Present, but less than mass 443	9.08
442	40.00 - 100.00% of mass 198	65.58
443	17.00 - 23.00% of mass 442	13.03 (19.87)

Date : 10-JUL-2009 14:35

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

Data File: v071007.d

Spectrum: Avg. Scans 207-209 (5.24), Background Scan 204

Location of Maximum: 198.00

Number of points: 140

m/z	Y	m/z	Y	m/z	Y	m/z	Y

38.00	58	107.00	3097	173.00	68	242.00	57
39.00	783	108.00	478	174.00	116	243.00	74
44.00	23	110.00	5548	175.00	375	244.00	1777
49.00	53	111.00	870	176.00	63	245.00	200
50.00	2328	112.00	60	177.00	92	246.00	368

51.00	9310	116.00	80	179.00	732	255.00	9373
52.00	450	117.00	2227	180.00	508	256.00	1355
56.00	262	118.00	142	181.00	229	257.00	64
57.00	791	122.00	152	185.00	358	258.00	544
61.00	54	123.00	242	186.00	2652	265.00	190

62.00	69	124.00	65	187.00	772	273.00	227
63.00	326	125.00	65	189.00	89	274.00	754
65.00	172	127.00	10165	192.00	182	275.00	4058
68.00	144	128.00	760	193.00	254	276.00	536
69.00	10038	129.00	4028	196.00	493	277.00	366

74.00	948	130.00	362	197.00	73	296.00	1219
75.00	1496	134.00	65	198.00	18448	297.00	78
76.00	500	135.00	342	199.00	1237	303.00	70
77.00	11263	136.00	68	203.00	76	315.00	69
78.00	760	137.00	134	204.00	678	323.00	373

79.00	668	141.00	493	205.00	1085	334.00	185
80.00	514	142.00	87	206.00	4569	352.00	110
81.00	768	143.00	57	207.00	618	354.00	61
82.00	167	147.00	193	208.00	75	365.00	543
83.00	183	148.00	525	211.00	89	372.00	185

85.00	151	149.00	75	216.00	52	403.00	112
86.00	201	153.00	80	217.00	1196	423.00	669
91.00	159	154.00	71	218.00	89	424.00	146
92.00	174	155.00	211	221.00	752	441.00	1676
93.00	1127	156.00	413	222.00	91	442.00	12101

98.00	818	160.00	89	223.00	272	443.00	2405
99.00	703	161.00	178	224.00	2473	444.00	211
101.00	393	165.00	98	225.00	596		
103.00	74	166.00	76	227.00	1059		
104.00	230	167.00	917	228.00	82		

Data File: /chem/msdv.i/10jul09a.b/v071007.d

Page 4

Date : 10-JUL-2009 14:35

Client ID: DFTPP 50ng

Instrument: msdv.i

Sample Info: ;1685-10c-50;dftpp

Operator: rn

Column phase:

Column diameter: 0.25

Data File: v071007.d

Spectrum: Avg. Scans 207-209 (5.24), Background Scan 204

Location of Maximum: 198.00

Number of points: 140

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	199	168.00	496	229.00	172		

Shipping/ Receiving Documents

**180 Blue Ravine Road, Suite B
Folsom, CA 95630**

**Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific**

COMPANY: Tetra Tech
ATTENTION: Mr. Doug Herlocker
FAX #: _____
FROM: Sample Receiving
Workorder #: 0907124B
of pages (Including Cover): 1

7/20/2009

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Kelly Buettner at 916-985-1020**. ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

SORBENT SAMPLE COLLECTION



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 457-4922.

180 BLUE PRAIRIE ROAD, SUITE B
FOLSOM, CA 95680-4779
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager: Doreen H. Webster

Collected by: (Print and Sign) David D. Davis

Company: Tetra Tech, Inc. Email: ddavis@tetra-tech.com

Address: 3350 American Turner City: INDIAN State: ND Zip: 58304

Phone: 701 389 1030 Fax: 701 389 1183

Project Info:

P.O. #

Project # 10300333-0010

Project Name: ES45 off-site

Turn Around Time:

☒ Normal

☐ Rush

Specify

Circle Reporting Units:

ppbv

ppmv

ug/m³

mg/m³

Lab ID

Field Sample I.D. (Location)

Tube # / Cartridge #

Date of Collection

Start Time

End Time

Duration

Final Volume

Analysis Requested

0703-070209

7/2/09

0737

1438

9.01

704A

0703-070209

↓

↓

9.01

709A

0703-070209

↓

0705

1407

8.81

704A

0704-070209

↓

↓

8.81

709A

0704-070209

↓

↓

8.81

7013A

Relinquished by: (signature) [Signature] Date/Time 7/2/09 1000

Received by: (signature) [Signature] Date/Time 7/2/09 1400

Relinquished by: (signature) [Signature] Date/Time 7/2/09 1400

Received by: (signature) [Signature] Date/Time 7/2/09 1400

Relinquished by: (signature) [Signature] Date/Time 7/2/09 1400

Received by: (signature) [Signature] Date/Time 7/2/09 1400

Pump Calibration Information

Pre-test Flow Rate:

Post-test Flow Rate:

Average Flow Rate:

Notes:

Lab ID

Shipper Name

Shipper #

Temp. (C)

Condition

Container

Seal Integrity

Yes No None

Work Order #

0907124

SAMPLE RECEIPT SUMMARY

WORKORDER 0907124B

Client

Mr. Doug Herlocker
Tetra Tech
3380 Americana Terrace, Suite 201
Boise, ID 83706

Phone

208-389-1030

Fax

Date Promised: 07/21/09

Date Completed: 7/16/09

Date Received: 7/7/09

PO#: 103P0333.005

Project#: 103P0333.006 BMI Offsite

Sales Rep: JJM

Total \$: \$ 450.00

Logged By: MG

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Amount\$</u>
03A	OFF03-070209	Modified TO-13A	7/2/2009	\$225.00
06A	OFF04-070209	Modified TO-13A	7/2/2009	\$225.00
07A	Lab Blank	Modified TO-13A	NA	\$0.00
08A	LCS	Modified TO-13A	NA	\$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Las Vegas Phase III/12356

BILL TO: Mr. Doug Herlocker
Tetra Tech
3380 Americana Terrace, Suite 201
Boise, ID 83706

Analysis Code: TO-13A

TERMS: NET 45

Reporting Method: Modified TO-13A (rev. 2001)

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

Other Records

Air Toxics Ltd.

Performance Check for 8270C

ata file : /chem/msdv.i/10jul09a.b/v071007a.d
ab Smp Id: DFTPP 50ng Client Smp ID: Breakdown
nj Date : 10-JUL-2009 14:35
perator : rn Inst ID: msdv.i
mp Info : ;1685-10c-50;dftpp
isc Info :
omment :
ethod : /chem/msdv.i/10jul09a.b/BREAK.m
eth Date : 18-May-2009 13:40 rnoonan Quant Type: ESTD
al Date : 20-OCT-2004 08:05 Cal File: p102001a.d
ls bottle: 2 QC Sample: DFTPP
il Factor: 1.00000
ntegrator: Falcon Compound Sublist: all.sub
arget Version: 3.50
rocessing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

7/14/09
ACT

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (area)	FINAL (ug)
1 Total DDT				485357	19.4403	19.44033
2 Pentachlorophenol	4.372	4.631	-0.259	233630	20.0746	20.07458
3 Benzidine	6.621	6.890	-0.269	366854	11.8689	11.86886
4 p,p'-DDE	Compound Not Detected.					
5 p,p'-DDD	7.678	7.802	-0.124	18177		
6 p,p'-DDT	7.989	8.258	-0.269	467180	19.4403	19.44033

$$\text{Breakdown} = \frac{18177}{485357} \times 100 = 3.7\%$$

Sample ID Number	Sample Date			Corrected Average Flow Rate- Qstd (m3/min)	Beginning Timer (hours)	Ending Timer (hours)	Total Sample Time (hours)	Total Sample Volume (m³)	Total Sample Volume (Liters)
CAMUS1-061609 (TO-4)	6/16/2009	48	42	0.19	866.04	875.33	9.29	105.78	105,778.50
CAMUS1-061809 (TO-4)	6/18/2009	48	48	0.19	875.33	885.02	9.69	110.67	110,867.10
CAMUS1-062309 (TO-4)	6/23/2009	44	44	0.182	885.06	894.3	9.24	100.63	100,627.00
CAMUS1-062509 (TO-4)	6/25/2009	52	52	0.198	894.29	900.67	6.38	75.7	75,695.50
CAMUS1-061609 (TO-9)	6/16/2009	54	50	0.17	849.73	859.02	9.29	94.83	94,829.20
CAMUS1-061809 (TO-9)	6/18/2009	52	52	0.166	859.02	868.71	9.69	96.74	96,735.40
CAMUS1-062309 (TO-9)	6/23/2009	52	52	0.166	868.74	874.52	5.78	57.51	57,510.70
CAMUS1-062509 (TO-9)	6/25/2009	54	52	0.167	874.54	884.36	9.82	98.62	98,621.00
CAMUS1-061609 (TO-13)	6/16/2009	48	42	0.205	922.79	932.07	9.28	114.07	114,066.20
CAMUS1-061809 (TO-13)	6/18/2009	38	38	0.166	932.09	941.77	9.68	108	108,001.60
CAMUS1-062309 (TO-13)	6/23/2009	48	46	0.203	941.75	947.58	5.83	70.94	70,935.20
CAMUS1-062509 (TO-13)	6/25/2009	46	44	0.2	947.6	957.43	9.83	117.67	117,673.40
CAMUS3									
CAMUS3-061609 (TO-4)	6/16/2009	54	48	0.216	861.46	871.05	9.59	124.04	124,036.50
CAMUS3-061809 (TO-4)	6/18/2009	56	56	0.219	871.05	880.48	9.43	123.74	123,738.10
CAMUS3-062309 (TO-4)	6/23/2009	50	50	0.208	880.4	890.05	9.65	120.45	120,452.10
CAMUS3-062509 (TO-4)	6/25/2009	52	52	0.212	890.05	900.72	10.67	135.63	135,632.80
CAMUS3-061609 (TO-9)	6/16/2009	56	50	0.216	864.78	874.36	9.58	125.1	125,095.60
CAMUS3-061809 (TO-9)	6/18/2009	54	54	0.214	874.37	883.79	9.42	120.94	120,935.40
CAMUS3-062309 (TO-9)	6/23/2009	54	54	0.213	883.8	893.36	9.56	122.28	122,275.80
CAMUS3-062509 (TO-9)	6/25/2009	54	52	0.212	893.37	904.02	10.65	135.45	135,450.70
CAMUS3-061609 (TO-13)	6/16/2009	50	48	0.214	976.92	986.5	9.58	123.05	123,046.60
CAMUS3-061809 (TO-13)	6/18/2009	48	48	0.207	986.51	995.94	9.43	117.24	117,240.40
CAMUS3-062309 (TO-13)	6/23/2009	50	50	0.21	995.95	1005.5	9.55	120.31	120,307.40
CAMUS3-062509 (TO-13)	6/25/2009	52	48	0.125	1005.51	1016.18	10.67	80.3	80,299.90
OFF03									
OFF03-061609 (TO-4)	6/17/2009	44	42	0.125	310.57	320.35	9.78	73.6	73,602.00
OFF03-061809 (TO-4)	6/18/2009	NA	NA	NA	320.35	320.35	0	NA	NA
OFF03-062309 (TO-4)	6/23/2009	42	38	0.12	343.51	353.2	9.69	69.49	69,487.50
OFF03-062509 (TO-4)	6/25/2009	56	52	0.144	353.2	363.02	9.82	84.99	84,987.10
OFF03-063009 (TO-4)	6/30/2009	46	40	0.123	363.02	372.51	9.49	69.97	69,971.50
OFF03-070209 (TO-4)	7/2/2009	56	52	0.145	372.51	381.52	9.01	78.46	78,458.90
OFF03-070709 (TO-4)	7/7/2009	58	54	0.146	381.52	391.57	10.05	87.88	87,883.90
OFF03-061609 (TO-9)	6/17/2009	32	31	0.08	1531.49	1541.29	9.8	47.24	47,237.60
OFF03-061809 (TO-9)	6/18/2009	44	42	0.103	1541.29	1550.77	9.48	58.36	58,362.20
OFF03-062309 (TO-9)	6/23/2009	38	30	0.085	1570.77	1580.4	9.63	49.16	49,156.10
OFF03-062509 (TO-9)	6/25/2009	34	34	0.085	1580.49	1570.39	9.9	50.75	50,753.40
OFF03-063009 (TO-9)	6/30/2009	36	32	0.083	1570.34	1579.82	9.48	47.33	47,326.30
OFF03-070209 (TO-9)	7/2/2009	56	52	0.122	1579.82	1588.83	9.01	65.76	65,758.10
OFF03-070709 (TO-9)	7/7/2009	60	50	0.121	1588.83	1598.89	10.06	72.85	72,849.20
OFF03-061609 (TO-13)	6/17/2009	36	39	0.123	1765.17	1774.94	9.77	71.92	71,921.50
OFF03-061809 (TO-13)	6/18/2009	26	26	0.097	1774.96	1784.44	9.48	55.21	55,211.60

OFF03-062309 (TO-13)	6/23/2009	50	42	0.139	1784.44	1794.19	9.75	81.24	81,242.30
OFF03-062509 (TO-13)	6/25/2009	52	46	0.145	1794.19	1803.37	9.18	79.78	79,775.10
OFF03-063009 (TO-13)	6/30/2009	52	48	0.144	1803.4	1812.88	9.48	81.73	81,727.20
OFF03-070209 (TO-13)	7/2/2009	52	48	0.148	1812.88	1821.9	9.02	79.85	79,848.90
OFF03-070709 (TO-13)	7/7/2009	50	44	0.14	1821.9	1831.95	10.05	84.14	84,140.80
OFF04									
OFF04-061809 (TO-4)	6/17/2009	32	32	0.121	1051.77	1060.33	8.56	62.33	62,332.90
OFF04-061809 (TO-4)	6/18/2009	40	40	0.138	1060.34	1069.62	9.28	77.03	77,025.20
OFF04-062309 (TO-4)	6/23/2009	40	40	0.138	1069.62	1079.23	9.61	79.37	79,365.80
OFF04-062509 (TO-4)	6/25/2009	22	20	0.095	1079.89	1089.82	9.93	56.33	56,329.40
OFF04-063009 (TO-4)	6/30/2009	32	30	0.117	1089.82	1098.95	9.13	64.02	64,019.60
OFF04-070209 (TO-4)	7/2/2009	50	46	0.154	1098.95	1107.76	8.81	81.43	81,427.00
OFF04-070709 (TO-4)	7/7/2009	56	52	0.162	1107.76	1116.98	9.22	89.57	89,565.50
OFF04-061809 (TO-9)	6/17/2009	32	31	0.096	4556.43	4564.97	8.54	48.97	48,973.70
OFF04-061809 (TO-9)	6/18/2009	36	34	0.103	4564.97	4574.27	9.3	57.48	57,482.10
OFF04-062309 (TO-9)	6/23/2009	44	44	0.119	4574.27	4583.87	9.6	68.73	68,730.80
OFF04-062509 (TO-9)	6/25/2009	44	40	0.116	4583.88	4594.47	10.59	73.8	73,797.00
OFF04-063009 (TO-9)	6/30/2009	48	46	0.122	4594.47	4603.6	9.13	67.02	67,015.80
OFF04-070209 (TO-9)	7/2/2009	50	48	0.129	4603.6	4612.41	8.81	68.33	68,334.30
OFF04-070709 (TO-9)	7/7/2009	56	56	0.14	4612.41	4621.63	9.22	77.3	77,297.90
OFF04-061809 (TO-13)	6/17/2009	36	39	0.075	909.82	918.36	8.54	38.26	38,258.40
OFF04-061809 (TO-13)	6/18/2009	48	46	0.091	918.37	927.65	9.28	50.68	50,675.40
OFF04-062309 (TO-13)	6/23/2009	28	28	0.056	927.65	937.26	9.61	32.34	32,344.40
OFF04-062509 (TO-13)	6/25/2009	24	24	0.048	937.26	947.85	10.59	30.37	30,366.00
OFF04-063009 (TO-13)	6/30/2009	28	26	0.052	947.85	956.98	9.13	28.72	28,723.20
OFF04-070209 (TO-13)	7/2/2009	45	40	0.084	956.98	965.79	8.81	44.46	44,457.90
OFF04-070709 (TO-13)	7/7/2009	54	48	0.094	965.79	975.01	9.22	52.01	52,005.60

Compound Listing

Modified TO-13A (rev. 2001)

CAS Number	Compound	Detection Limit	Type
		ug	
108-95-2	Phenol	5.0	
111-44-4	bis(2-Chloroethyl) Ether	1.0	
95-48-7	2-Methylphenol (o-Cresol)	5.0	
108-60-1	bis(2-Chloroisopropyl) Ether	1.0	
621-64-7	N-Nitroso-di-n-propylamine	1.0	
106-44-5	4-Methylphenol/3-Methylphenol	5.0	
67-72-1	Hexachloroethane	1.0	
98-95-3	Nitrobenzene	1.0	
78-59-1	Isophorone	1.0	
88-75-5	2-Nitrophenol	5.0	
105-67-9	2,4-Dimethylphenol	5.0	
65-85-0	Benzoic Acid	30	
111-91-1	bis(2-Chloroethoxy) Methane	1.0	
120-83-2	2,4-Dichlorophenol	5.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	
91-20-3	Naphthalene	1.0	
106-47-8	4-Chloroaniline	10	
87-68-3	Hexachlorobutadiene	1.0	
59-50-7	4-Chloro-3-methylphenol	5.0	
91-57-6	2-Methylnaphthalene	1.0	
77-47-4	Hexachlorocyclopentadiene	20	
88-06-2	2,4,6-Trichlorophenol	5.0	
95-95-4	2,4,5-Trichlorophenol	5.0	
91-58-7	2-Chloronaphthalene	1.0	
88-74-4	2-Nitroaniline	10	
131-11-3	Dimethylphthalate	5.0	
208-96-8	Acenaphthylene	1.0	
606-20-2	2,6-Dinitrotoluene	5.0	
99-09-2	3-Nitroaniline	10	
83-32-9	Acenaphthene	1.0	
51-28-5	2,4-Dinitrophenol	20	
100-02-7	4-Nitrophenol	20	
121-14-2	2,4-Dinitrotoluene	5.0	
132-64-9	Dibenzofuran	1.0	
84-66-2	Diethylphthalate	5.0	
86-73-7	Fluorene	1.0	
7005-72-3	4-Chlorophenyl-phenyl Ether	1.0	
100-01-6	4-Nitroaniline	10	
534-52-1	4,6-Dinitro-2-methylphenol	10	
86-30-6	N-Nitrosodiphenylamine	10	
101-55-3	4-Bromophenyl-phenyl Ether	1.0	
118-74-1	Hexachlorobenzene	1.0	
87-86-5	Pentachlorophenol	20	
85-01-8	Phenanthrene	1.0	
120-12-7	Anthracene	1.0	
84-74-2	di-n-Butylphthalate	5.0	

Compound Listing

Modified TO-13A (rev. 2001)

CAS Number	Compound	Detection Limit	Type
		ug	
206-44-0	Fluoranthene	1.0	
129-00-0	Pyrene	1.0	
85-68-7	Butylbenzylphthalate	5.0	
91-94-1	3,3'-Dichlorobenzidine	20	
218-01-9	Chrysene	1.0	
56-55-3	Benzo(a)anthracene	1.0	
117-81-7	bis(2-Ethylhexyl)phthalate	5.0	
117-84-0	Di-n-Octylphthalate	5.0	
205-99-2	Benzo(b)fluoranthene	1.0	
207-08-9	Benzo(k)fluoranthene	1.0	
50-32-8	Benzo(a)pyrene	1.0	
193-39-5	Indeno(1,2,3-c,d)pyrene	1.0	
53-70-3	Dibenz(a,h)anthracene	1.0	
191-24-2	Benzo(g,h,i)perylene	1.0	
367-12-4	2-Fluorophenol		
4165-62-2	Phenol-d5		
4165-60-0	Nitrobenzene-d5		
118-79-6	2,4,6-Tribromophenol		
81103-79-9	Fluorene-d10		
1718-52-1	Pyrene-d10		
95-57-8	2-Chlorophenol	5.0	
541-73-1	1,3-Dichlorobenzene	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	

DATA REVIEW CHECKLIST

Work Order #:

0907124B

A ₁	A ₂	R	T	M	Q	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The final report has the correct reporting list, special units, and header info.
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample Discrepancy Report (SDR) is completed
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Corrective Action issued - # _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unusual circumstances have been documented in the notes section below

LUMEN validation report present and initialed

CIRCLE (YES / NO)

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lab Blank, CCV, LCS and DUP met QC criteria
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hold time is met for all samples
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA	<input type="checkbox"/>	Appropriate data qualifier flags are applied
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA	<input type="checkbox"/>	Manual integrations for samples and QC are properly documented
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples analyzed within the project or method specific clock
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Retention times have been verified
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appropriate ICAL(s) included
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one result per sample is verified against the target quant sheets/raw data
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Correct amount of sample analyzed (i.e. sample not over-diluted)
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TICs resemble reference spectra
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TICs between duplicate samples are consistent
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Data for multiple analyses of sample(s) has been evaluated for comparability of results
W 7115109		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Special units for all samples in the final report are correctly calculated
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Manually entered results checked (i.e. TPH/NMOC)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chain of Custody scanned correctly
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify sample id's vs. chain of custody
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date MDL(s) performed per instrument(s) <u>W 7115109</u>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Samples pressurized w/ appropriate gas (N ₂ or He) <input checked="" type="checkbox"/> Other (i.e. Tedlar bag, cartridge sorbent)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Final pressure consistent with canister size (6L vs. 1L)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify receipt pressures
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Verify canister ID #'s
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MDL date(s) present for all instruments utilized
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA	<input type="checkbox"/>	Client LUMEN report reviewed for accuracy and completeness

Notes: (to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)

R: Report on ug/m³. Volume provided by client.

VQ:

A ₁ /A ₂ (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A ₁ : _____	R: <u>W 7115109</u>	M: <u>7/16/09</u>	Q: _____
A ₂ : _____	T: _____		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.

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Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable